| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Array.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/java/lang/reflect/AnnotatedElement.html)   [**NEXT CLASS**](http://docs.google.com/java/lang/reflect/Constructor.html) | [**FRAMES**](http://docs.google.com/index.html?java/lang/reflect/Array.html)    [**NO FRAMES**](http://docs.google.com/Array.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#3znysh7) | DETAIL: FIELD | CONSTR | [METHOD](#tyjcwt) |

## **java.lang.reflect**

Class Array

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **java.lang.reflect.Array**

public final class **Array**extends [Object](http://docs.google.com/java/lang/Object.html)

The Array class provides static methods to dynamically create and access Java arrays.

Array permits widening conversions to occur during a get or set operation, but throws an IllegalArgumentException if a narrowing conversion would occur.

| **Method Summary** | |
| --- | --- |
| static [Object](http://docs.google.com/java/lang/Object.html) | [**get**](http://docs.google.com/java/lang/reflect/Array.html#get(java.lang.Object,%20int))([Object](http://docs.google.com/java/lang/Object.html) array, int index)            Returns the value of the indexed component in the specified array object. |
| static boolean | [**getBoolean**](http://docs.google.com/java/lang/reflect/Array.html#getBoolean(java.lang.Object,%20int))([Object](http://docs.google.com/java/lang/Object.html) array, int index)            Returns the value of the indexed component in the specified array object, as a boolean. |
| static byte | [**getByte**](http://docs.google.com/java/lang/reflect/Array.html#getByte(java.lang.Object,%20int))([Object](http://docs.google.com/java/lang/Object.html) array, int index)            Returns the value of the indexed component in the specified array object, as a byte. |
| static char | [**getChar**](http://docs.google.com/java/lang/reflect/Array.html#getChar(java.lang.Object,%20int))([Object](http://docs.google.com/java/lang/Object.html) array, int index)            Returns the value of the indexed component in the specified array object, as a char. |
| static double | [**getDouble**](http://docs.google.com/java/lang/reflect/Array.html#getDouble(java.lang.Object,%20int))([Object](http://docs.google.com/java/lang/Object.html) array, int index)            Returns the value of the indexed component in the specified array object, as a double. |
| static float | [**getFloat**](http://docs.google.com/java/lang/reflect/Array.html#getFloat(java.lang.Object,%20int))([Object](http://docs.google.com/java/lang/Object.html) array, int index)            Returns the value of the indexed component in the specified array object, as a float. |
| static int | [**getInt**](http://docs.google.com/java/lang/reflect/Array.html#getInt(java.lang.Object,%20int))([Object](http://docs.google.com/java/lang/Object.html) array, int index)            Returns the value of the indexed component in the specified array object, as an int. |
| static int | [**getLength**](http://docs.google.com/java/lang/reflect/Array.html#getLength(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) array)            Returns the length of the specified array object, as an int. |
| static long | [**getLong**](http://docs.google.com/java/lang/reflect/Array.html#getLong(java.lang.Object,%20int))([Object](http://docs.google.com/java/lang/Object.html) array, int index)            Returns the value of the indexed component in the specified array object, as a long. |
| static short | [**getShort**](http://docs.google.com/java/lang/reflect/Array.html#getShort(java.lang.Object,%20int))([Object](http://docs.google.com/java/lang/Object.html) array, int index)            Returns the value of the indexed component in the specified array object, as a short. |
| static [Object](http://docs.google.com/java/lang/Object.html) | [**newInstance**](http://docs.google.com/java/lang/reflect/Array.html#newInstance(java.lang.Class,%20int...))([Class](http://docs.google.com/java/lang/Class.html)<?> componentType, int... dimensions)            Creates a new array with the specified component type and dimensions. |
| static [Object](http://docs.google.com/java/lang/Object.html) | [**newInstance**](http://docs.google.com/java/lang/reflect/Array.html#newInstance(java.lang.Class,%20int))([Class](http://docs.google.com/java/lang/Class.html)<?> componentType, int length)            Creates a new array with the specified component type and length. |
| static void | [**set**](http://docs.google.com/java/lang/reflect/Array.html#set(java.lang.Object,%20int,%20java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) array, int index, [Object](http://docs.google.com/java/lang/Object.html) value)            Sets the value of the indexed component of the specified array object to the specified new value. |
| static void | [**setBoolean**](http://docs.google.com/java/lang/reflect/Array.html#setBoolean(java.lang.Object,%20int,%20boolean))([Object](http://docs.google.com/java/lang/Object.html) array, int index, boolean z)            Sets the value of the indexed component of the specified array object to the specified boolean value. |
| static void | [**setByte**](http://docs.google.com/java/lang/reflect/Array.html#setByte(java.lang.Object,%20int,%20byte))([Object](http://docs.google.com/java/lang/Object.html) array, int index, byte b)            Sets the value of the indexed component of the specified array object to the specified byte value. |
| static void | [**setChar**](http://docs.google.com/java/lang/reflect/Array.html#setChar(java.lang.Object,%20int,%20char))([Object](http://docs.google.com/java/lang/Object.html) array, int index, char c)            Sets the value of the indexed component of the specified array object to the specified char value. |
| static void | [**setDouble**](http://docs.google.com/java/lang/reflect/Array.html#setDouble(java.lang.Object,%20int,%20double))([Object](http://docs.google.com/java/lang/Object.html) array, int index, double d)            Sets the value of the indexed component of the specified array object to the specified double value. |
| static void | [**setFloat**](http://docs.google.com/java/lang/reflect/Array.html#setFloat(java.lang.Object,%20int,%20float))([Object](http://docs.google.com/java/lang/Object.html) array, int index, float f)            Sets the value of the indexed component of the specified array object to the specified float value. |
| static void | [**setInt**](http://docs.google.com/java/lang/reflect/Array.html#setInt(java.lang.Object,%20int,%20int))([Object](http://docs.google.com/java/lang/Object.html) array, int index, int i)            Sets the value of the indexed component of the specified array object to the specified int value. |
| static void | [**setLong**](http://docs.google.com/java/lang/reflect/Array.html#setLong(java.lang.Object,%20int,%20long))([Object](http://docs.google.com/java/lang/Object.html) array, int index, long l)            Sets the value of the indexed component of the specified array object to the specified long value. |
| static void | [**setShort**](http://docs.google.com/java/lang/reflect/Array.html#setShort(java.lang.Object,%20int,%20short))([Object](http://docs.google.com/java/lang/Object.html) array, int index, short s)            Sets the value of the indexed component of the specified array object to the specified short value. |

| **Methods inherited from class java.lang.**[**Object**](http://docs.google.com/java/lang/Object.html) |
| --- |
| [clone](http://docs.google.com/java/lang/Object.html#clone()), [equals](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)), [finalize](http://docs.google.com/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [hashCode](http://docs.google.com/java/lang/Object.html#hashCode()), [notify](http://docs.google.com/java/lang/Object.html#notify()), [notifyAll](http://docs.google.com/java/lang/Object.html#notifyAll()), [toString](http://docs.google.com/java/lang/Object.html#toString()), [wait](http://docs.google.com/java/lang/Object.html#wait()), [wait](http://docs.google.com/java/lang/Object.html#wait(long)), [wait](http://docs.google.com/java/lang/Object.html#wait(long,%20int)) |

| **Method Detail** |
| --- |

### newInstance

public static [Object](http://docs.google.com/java/lang/Object.html) **newInstance**([Class](http://docs.google.com/java/lang/Class.html)<?> componentType,  
 int length)  
 throws [NegativeArraySizeException](http://docs.google.com/java/lang/NegativeArraySizeException.html)

Creates a new array with the specified component type and length. Invoking this method is equivalent to creating an array as follows:

int[] x = {length};  
 Array.newInstance(componentType, x);

**Parameters:**componentType - the Class object representing the component type of the new arraylength - the length of the new array **Returns:**the new array **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if the specified componentType parameter is null [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if componentType is [Void.TYPE](http://docs.google.com/java/lang/Void.html#TYPE) [NegativeArraySizeException](http://docs.google.com/java/lang/NegativeArraySizeException.html) - if the specified length is negative

### newInstance

public static [Object](http://docs.google.com/java/lang/Object.html) **newInstance**([Class](http://docs.google.com/java/lang/Class.html)<?> componentType,  
 int... dimensions)  
 throws [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html),  
 [NegativeArraySizeException](http://docs.google.com/java/lang/NegativeArraySizeException.html)

Creates a new array with the specified component type and dimensions. If componentType represents a non-array class or interface, the new array has dimensions.length dimensions and componentType as its component type. If componentType represents an array class, the number of dimensions of the new array is equal to the sum of dimensions.length and the number of dimensions of componentType. In this case, the component type of the new array is the component type of componentType.

The number of dimensions of the new array must not exceed the number of array dimensions supported by the implementation (typically 255).

**Parameters:**componentType - the Class object representing the component type of the new arraydimensions - an array of int representing the dimensions of the new array **Returns:**the new array **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if the specified componentType argument is null [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if the specified dimensions argument is a zero-dimensional array, or if the number of requested dimensions exceeds the limit on the number of array dimensions supported by the implementation (typically 255), or if componentType is [Void.TYPE](http://docs.google.com/java/lang/Void.html#TYPE). [NegativeArraySizeException](http://docs.google.com/java/lang/NegativeArraySizeException.html) - if any of the components in the specified dimensions argument is negative.

### getLength

public static int **getLength**([Object](http://docs.google.com/java/lang/Object.html) array)  
 throws [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html)

Returns the length of the specified array object, as an int.

**Parameters:**array - the array **Returns:**the length of the array **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if the object argument is not an array

### get

public static [Object](http://docs.google.com/java/lang/Object.html) **get**([Object](http://docs.google.com/java/lang/Object.html) array,  
 int index)  
 throws [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html),  
 [ArrayIndexOutOfBoundsException](http://docs.google.com/java/lang/ArrayIndexOutOfBoundsException.html)

Returns the value of the indexed component in the specified array object. The value is automatically wrapped in an object if it has a primitive type.

**Parameters:**array - the arrayindex - the index **Returns:**the (possibly wrapped) value of the indexed component in the specified array **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - If the specified object is null [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - If the specified object is not an array [ArrayIndexOutOfBoundsException](http://docs.google.com/java/lang/ArrayIndexOutOfBoundsException.html) - If the specified index argument is negative, or if it is greater than or equal to the length of the specified array

### getBoolean

public static boolean **getBoolean**([Object](http://docs.google.com/java/lang/Object.html) array,  
 int index)  
 throws [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html),  
 [ArrayIndexOutOfBoundsException](http://docs.google.com/java/lang/ArrayIndexOutOfBoundsException.html)

Returns the value of the indexed component in the specified array object, as a boolean.

**Parameters:**array - the arrayindex - the index **Returns:**the value of the indexed component in the specified array **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - If the specified object is null [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - If the specified object is not an array, or if the indexed element cannot be converted to the return type by an identity or widening conversion [ArrayIndexOutOfBoundsException](http://docs.google.com/java/lang/ArrayIndexOutOfBoundsException.html) - If the specified index argument is negative, or if it is greater than or equal to the length of the specified array**See Also:**[get(java.lang.Object, int)](http://docs.google.com/java/lang/reflect/Array.html#get(java.lang.Object,%20int))

### getByte

public static byte **getByte**([Object](http://docs.google.com/java/lang/Object.html) array,  
 int index)  
 throws [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html),  
 [ArrayIndexOutOfBoundsException](http://docs.google.com/java/lang/ArrayIndexOutOfBoundsException.html)

Returns the value of the indexed component in the specified array object, as a byte.

**Parameters:**array - the arrayindex - the index **Returns:**the value of the indexed component in the specified array **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - If the specified object is null [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - If the specified object is not an array, or if the indexed element cannot be converted to the return type by an identity or widening conversion [ArrayIndexOutOfBoundsException](http://docs.google.com/java/lang/ArrayIndexOutOfBoundsException.html) - If the specified index argument is negative, or if it is greater than or equal to the length of the specified array**See Also:**[get(java.lang.Object, int)](http://docs.google.com/java/lang/reflect/Array.html#get(java.lang.Object,%20int))

### getChar

public static char **getChar**([Object](http://docs.google.com/java/lang/Object.html) array,  
 int index)  
 throws [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html),  
 [ArrayIndexOutOfBoundsException](http://docs.google.com/java/lang/ArrayIndexOutOfBoundsException.html)

Returns the value of the indexed component in the specified array object, as a char.

**Parameters:**array - the arrayindex - the index **Returns:**the value of the indexed component in the specified array **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - If the specified object is null [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - If the specified object is not an array, or if the indexed element cannot be converted to the return type by an identity or widening conversion [ArrayIndexOutOfBoundsException](http://docs.google.com/java/lang/ArrayIndexOutOfBoundsException.html) - If the specified index argument is negative, or if it is greater than or equal to the length of the specified array**See Also:**[get(java.lang.Object, int)](http://docs.google.com/java/lang/reflect/Array.html#get(java.lang.Object,%20int))

### getShort

public static short **getShort**([Object](http://docs.google.com/java/lang/Object.html) array,  
 int index)  
 throws [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html),  
 [ArrayIndexOutOfBoundsException](http://docs.google.com/java/lang/ArrayIndexOutOfBoundsException.html)

Returns the value of the indexed component in the specified array object, as a short.

**Parameters:**array - the arrayindex - the index **Returns:**the value of the indexed component in the specified array **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - If the specified object is null [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - If the specified object is not an array, or if the indexed element cannot be converted to the return type by an identity or widening conversion [ArrayIndexOutOfBoundsException](http://docs.google.com/java/lang/ArrayIndexOutOfBoundsException.html) - If the specified index argument is negative, or if it is greater than or equal to the length of the specified array**See Also:**[get(java.lang.Object, int)](http://docs.google.com/java/lang/reflect/Array.html#get(java.lang.Object,%20int))

### getInt

public static int **getInt**([Object](http://docs.google.com/java/lang/Object.html) array,  
 int index)  
 throws [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html),  
 [ArrayIndexOutOfBoundsException](http://docs.google.com/java/lang/ArrayIndexOutOfBoundsException.html)

Returns the value of the indexed component in the specified array object, as an int.

**Parameters:**array - the arrayindex - the index **Returns:**the value of the indexed component in the specified array **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - If the specified object is null [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - If the specified object is not an array, or if the indexed element cannot be converted to the return type by an identity or widening conversion [ArrayIndexOutOfBoundsException](http://docs.google.com/java/lang/ArrayIndexOutOfBoundsException.html) - If the specified index argument is negative, or if it is greater than or equal to the length of the specified array**See Also:**[get(java.lang.Object, int)](http://docs.google.com/java/lang/reflect/Array.html#get(java.lang.Object,%20int))

### getLong

public static long **getLong**([Object](http://docs.google.com/java/lang/Object.html) array,  
 int index)  
 throws [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html),  
 [ArrayIndexOutOfBoundsException](http://docs.google.com/java/lang/ArrayIndexOutOfBoundsException.html)

Returns the value of the indexed component in the specified array object, as a long.

**Parameters:**array - the arrayindex - the index **Returns:**the value of the indexed component in the specified array **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - If the specified object is null [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - If the specified object is not an array, or if the indexed element cannot be converted to the return type by an identity or widening conversion [ArrayIndexOutOfBoundsException](http://docs.google.com/java/lang/ArrayIndexOutOfBoundsException.html) - If the specified index argument is negative, or if it is greater than or equal to the length of the specified array**See Also:**[get(java.lang.Object, int)](http://docs.google.com/java/lang/reflect/Array.html#get(java.lang.Object,%20int))

### getFloat

public static float **getFloat**([Object](http://docs.google.com/java/lang/Object.html) array,  
 int index)  
 throws [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html),  
 [ArrayIndexOutOfBoundsException](http://docs.google.com/java/lang/ArrayIndexOutOfBoundsException.html)

Returns the value of the indexed component in the specified array object, as a float.

**Parameters:**array - the arrayindex - the index **Returns:**the value of the indexed component in the specified array **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - If the specified object is null [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - If the specified object is not an array, or if the indexed element cannot be converted to the return type by an identity or widening conversion [ArrayIndexOutOfBoundsException](http://docs.google.com/java/lang/ArrayIndexOutOfBoundsException.html) - If the specified index argument is negative, or if it is greater than or equal to the length of the specified array**See Also:**[get(java.lang.Object, int)](http://docs.google.com/java/lang/reflect/Array.html#get(java.lang.Object,%20int))

### getDouble

public static double **getDouble**([Object](http://docs.google.com/java/lang/Object.html) array,  
 int index)  
 throws [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html),  
 [ArrayIndexOutOfBoundsException](http://docs.google.com/java/lang/ArrayIndexOutOfBoundsException.html)

Returns the value of the indexed component in the specified array object, as a double.

**Parameters:**array - the arrayindex - the index **Returns:**the value of the indexed component in the specified array **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - If the specified object is null [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - If the specified object is not an array, or if the indexed element cannot be converted to the return type by an identity or widening conversion [ArrayIndexOutOfBoundsException](http://docs.google.com/java/lang/ArrayIndexOutOfBoundsException.html) - If the specified index argument is negative, or if it is greater than or equal to the length of the specified array**See Also:**[get(java.lang.Object, int)](http://docs.google.com/java/lang/reflect/Array.html#get(java.lang.Object,%20int))

### set

public static void **set**([Object](http://docs.google.com/java/lang/Object.html) array,  
 int index,  
 [Object](http://docs.google.com/java/lang/Object.html) value)  
 throws [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html),  
 [ArrayIndexOutOfBoundsException](http://docs.google.com/java/lang/ArrayIndexOutOfBoundsException.html)

Sets the value of the indexed component of the specified array object to the specified new value. The new value is first automatically unwrapped if the array has a primitive component type.

**Parameters:**array - the arrayindex - the index into the arrayvalue - the new value of the indexed component **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - If the specified object argument is null [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - If the specified object argument is not an array, or if the array component type is primitive and an unwrapping conversion fails [ArrayIndexOutOfBoundsException](http://docs.google.com/java/lang/ArrayIndexOutOfBoundsException.html) - If the specified index argument is negative, or if it is greater than or equal to the length of the specified array

### setBoolean

public static void **setBoolean**([Object](http://docs.google.com/java/lang/Object.html) array,  
 int index,  
 boolean z)  
 throws [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html),  
 [ArrayIndexOutOfBoundsException](http://docs.google.com/java/lang/ArrayIndexOutOfBoundsException.html)

Sets the value of the indexed component of the specified array object to the specified boolean value.

**Parameters:**array - the arrayindex - the index into the arrayz - the new value of the indexed component **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - If the specified object argument is null [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - If the specified object argument is not an array, or if the specified value cannot be converted to the underlying array's component type by an identity or a primitive widening conversion [ArrayIndexOutOfBoundsException](http://docs.google.com/java/lang/ArrayIndexOutOfBoundsException.html) - If the specified index argument is negative, or if it is greater than or equal to the length of the specified array**See Also:**[set(java.lang.Object, int, java.lang.Object)](http://docs.google.com/java/lang/reflect/Array.html#set(java.lang.Object,%20int,%20java.lang.Object))

### setByte

public static void **setByte**([Object](http://docs.google.com/java/lang/Object.html) array,  
 int index,  
 byte b)  
 throws [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html),  
 [ArrayIndexOutOfBoundsException](http://docs.google.com/java/lang/ArrayIndexOutOfBoundsException.html)

Sets the value of the indexed component of the specified array object to the specified byte value.

**Parameters:**array - the arrayindex - the index into the arrayb - the new value of the indexed component **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - If the specified object argument is null [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - If the specified object argument is not an array, or if the specified value cannot be converted to the underlying array's component type by an identity or a primitive widening conversion [ArrayIndexOutOfBoundsException](http://docs.google.com/java/lang/ArrayIndexOutOfBoundsException.html) - If the specified index argument is negative, or if it is greater than or equal to the length of the specified array**See Also:**[set(java.lang.Object, int, java.lang.Object)](http://docs.google.com/java/lang/reflect/Array.html#set(java.lang.Object,%20int,%20java.lang.Object))

### setChar

public static void **setChar**([Object](http://docs.google.com/java/lang/Object.html) array,  
 int index,  
 char c)  
 throws [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html),  
 [ArrayIndexOutOfBoundsException](http://docs.google.com/java/lang/ArrayIndexOutOfBoundsException.html)

Sets the value of the indexed component of the specified array object to the specified char value.

**Parameters:**array - the arrayindex - the index into the arrayc - the new value of the indexed component **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - If the specified object argument is null [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - If the specified object argument is not an array, or if the specified value cannot be converted to the underlying array's component type by an identity or a primitive widening conversion [ArrayIndexOutOfBoundsException](http://docs.google.com/java/lang/ArrayIndexOutOfBoundsException.html) - If the specified index argument is negative, or if it is greater than or equal to the length of the specified array**See Also:**[set(java.lang.Object, int, java.lang.Object)](http://docs.google.com/java/lang/reflect/Array.html#set(java.lang.Object,%20int,%20java.lang.Object))

### setShort

public static void **setShort**([Object](http://docs.google.com/java/lang/Object.html) array,  
 int index,  
 short s)  
 throws [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html),  
 [ArrayIndexOutOfBoundsException](http://docs.google.com/java/lang/ArrayIndexOutOfBoundsException.html)

Sets the value of the indexed component of the specified array object to the specified short value.

**Parameters:**array - the arrayindex - the index into the arrays - the new value of the indexed component **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - If the specified object argument is null [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - If the specified object argument is not an array, or if the specified value cannot be converted to the underlying array's component type by an identity or a primitive widening conversion [ArrayIndexOutOfBoundsException](http://docs.google.com/java/lang/ArrayIndexOutOfBoundsException.html) - If the specified index argument is negative, or if it is greater than or equal to the length of the specified array**See Also:**[set(java.lang.Object, int, java.lang.Object)](http://docs.google.com/java/lang/reflect/Array.html#set(java.lang.Object,%20int,%20java.lang.Object))

### setInt

public static void **setInt**([Object](http://docs.google.com/java/lang/Object.html) array,  
 int index,  
 int i)  
 throws [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html),  
 [ArrayIndexOutOfBoundsException](http://docs.google.com/java/lang/ArrayIndexOutOfBoundsException.html)

Sets the value of the indexed component of the specified array object to the specified int value.

**Parameters:**array - the arrayindex - the index into the arrayi - the new value of the indexed component **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - If the specified object argument is null [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - If the specified object argument is not an array, or if the specified value cannot be converted to the underlying array's component type by an identity or a primitive widening conversion [ArrayIndexOutOfBoundsException](http://docs.google.com/java/lang/ArrayIndexOutOfBoundsException.html) - If the specified index argument is negative, or if it is greater than or equal to the length of the specified array**See Also:**[set(java.lang.Object, int, java.lang.Object)](http://docs.google.com/java/lang/reflect/Array.html#set(java.lang.Object,%20int,%20java.lang.Object))

### setLong

public static void **setLong**([Object](http://docs.google.com/java/lang/Object.html) array,  
 int index,  
 long l)  
 throws [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html),  
 [ArrayIndexOutOfBoundsException](http://docs.google.com/java/lang/ArrayIndexOutOfBoundsException.html)

Sets the value of the indexed component of the specified array object to the specified long value.

**Parameters:**array - the arrayindex - the index into the arrayl - the new value of the indexed component **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - If the specified object argument is null [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - If the specified object argument is not an array, or if the specified value cannot be converted to the underlying array's component type by an identity or a primitive widening conversion [ArrayIndexOutOfBoundsException](http://docs.google.com/java/lang/ArrayIndexOutOfBoundsException.html) - If the specified index argument is negative, or if it is greater than or equal to the length of the specified array**See Also:**[set(java.lang.Object, int, java.lang.Object)](http://docs.google.com/java/lang/reflect/Array.html#set(java.lang.Object,%20int,%20java.lang.Object))

### setFloat

public static void **setFloat**([Object](http://docs.google.com/java/lang/Object.html) array,  
 int index,  
 float f)  
 throws [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html),  
 [ArrayIndexOutOfBoundsException](http://docs.google.com/java/lang/ArrayIndexOutOfBoundsException.html)

Sets the value of the indexed component of the specified array object to the specified float value.

**Parameters:**array - the arrayindex - the index into the arrayf - the new value of the indexed component **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - If the specified object argument is null [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - If the specified object argument is not an array, or if the specified value cannot be converted to the underlying array's component type by an identity or a primitive widening conversion [ArrayIndexOutOfBoundsException](http://docs.google.com/java/lang/ArrayIndexOutOfBoundsException.html) - If the specified index argument is negative, or if it is greater than or equal to the length of the specified array**See Also:**[set(java.lang.Object, int, java.lang.Object)](http://docs.google.com/java/lang/reflect/Array.html#set(java.lang.Object,%20int,%20java.lang.Object))

### setDouble

public static void **setDouble**([Object](http://docs.google.com/java/lang/Object.html) array,  
 int index,  
 double d)  
 throws [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html),  
 [ArrayIndexOutOfBoundsException](http://docs.google.com/java/lang/ArrayIndexOutOfBoundsException.html)

Sets the value of the indexed component of the specified array object to the specified double value.

**Parameters:**array - the arrayindex - the index into the arrayd - the new value of the indexed component **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - If the specified object argument is null [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - If the specified object argument is not an array, or if the specified value cannot be converted to the underlying array's component type by an identity or a primitive widening conversion [ArrayIndexOutOfBoundsException](http://docs.google.com/java/lang/ArrayIndexOutOfBoundsException.html) - If the specified index argument is negative, or if it is greater than or equal to the length of the specified array**See Also:**[set(java.lang.Object, int, java.lang.Object)](http://docs.google.com/java/lang/reflect/Array.html#set(java.lang.Object,%20int,%20java.lang.Object))

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Array.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/java/lang/reflect/AnnotatedElement.html)   [**NEXT CLASS**](http://docs.google.com/java/lang/reflect/Constructor.html) | [**FRAMES**](http://docs.google.com/index.html?java/lang/reflect/Array.html)    [**NO FRAMES**](http://docs.google.com/Array.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#3znysh7) | DETAIL: FIELD | CONSTR | [METHOD](#tyjcwt) |

[Submit a bug or feature](http://bugs.sun.com/services/bugreport/index.jsp)

For further API reference and developer documentation, see [Java SE Developer Documentation](http://docs.google.com/webnotes/devdocs-vs-specs.html). That documentation contains more detailed, developer-targeted descriptions, with conceptual overviews, definitions of terms, workarounds, and working code examples.

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