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org.apache.commons.collections4.iterators

## Class ArrayIterator<E>

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + org.apache.commons.collections4.iterators.ArrayIterator<E>
* Type Parameters: E - the type of elements returned by this iterator All Implemented Interfaces: [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<E>, [ResettableIterator](http://docs.google.com/org/apache/commons/collections4/ResettableIterator.html)<E> Direct Known Subclasses: [ArrayListIterator](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayListIterator.html)  
    
  public class ArrayIterator<E>  
  extends [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)  
  implements [ResettableIterator](http://docs.google.com/org/apache/commons/collections4/ResettableIterator.html)<E>  
  Implements an [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true) over any array.  
  The array can be either an array of object or of primitives. If you know that you have an object array, the [ObjectArrayIterator](http://docs.google.com/org/apache/commons/collections4/iterators/ObjectArrayIterator.html) class is a better choice, as it will perform better.  
  The iterator implements a [reset()](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayIterator.html#reset--) method, allowing the reset of the iterator back to the start if required.Since: 1.0

### Constructor SummaryConstructors

|  |
| --- |
| * + Constructor and Description |
| * + [ArrayIterator](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayIterator.html#ArrayIterator-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) array) Constructs an ArrayIterator that will iterate over the values in the specified array. |
| * + [ArrayIterator](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayIterator.html#ArrayIterator-java.lang.Object-int-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) array, int startIndex) Constructs an ArrayIterator that will iterate over the values in the specified array from a specific start index. |
| * + [ArrayIterator](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayIterator.html#ArrayIterator-java.lang.Object-int-int-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) array, int startIndex, int endIndex) Construct an ArrayIterator that will iterate over a range of values in the specified array. |

### Method SummaryAll Methods Instance Methods Concrete Methods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + protected void | * + [checkBound](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayIterator.html#checkBound-int-int-java.lang.String-)(int bound, int len, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) type) Checks whether the index is valid or not. |
| * + [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) | * + [getArray](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayIterator.html#getArray--)() Gets the array that this iterator is iterating over. |
| * + int | * + [getEndIndex](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayIterator.html#getEndIndex--)() Gets the end index to loop to. |
| * + int | * + [getStartIndex](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayIterator.html#getStartIndex--)() Gets the start index to loop from. |
| * + boolean | * + [hasNext](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayIterator.html#hasNext--)() Returns true if there are more elements to return from the array. |
| * + [E](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayIterator.html) | * + [next](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayIterator.html#next--)() Returns the next element in the array. |
| * + void | * + [remove](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayIterator.html#remove--)() Throws [UnsupportedOperationException](https://docs.oracle.com/javase/7/docs/api/java/lang/UnsupportedOperationException.html?is-external=true). |
| * + void | * + [reset](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayIterator.html#reset--)() Resets the iterator back to the start index. |

### Methods inherited from class java.lang.[**Object**](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)[clone](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#clone--), [equals](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#equals-java.lang.Object-), [finalize](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#finalize--), [getClass](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#getClass--), [hashCode](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#hashCode--), [notify](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#notify--), [notifyAll](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#notifyAll--), [toString](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#toString--), [wait](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#wait--), [wait](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#wait-long-), [wait](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#wait-long-int-)

### Methods inherited from interface java.util.[**Iterator**](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)[forEachRemaining](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true#forEachRemaining-java.util.function.Consumer-)

### Constructor Detail

#### ArrayIterator public ArrayIterator([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) array) Constructs an ArrayIterator that will iterate over the values in the specified array.Parameters: array - the array to iterate over. Throws: [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if array is not an array. [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if array is null

#### ArrayIterator public ArrayIterator([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) array, int startIndex) Constructs an ArrayIterator that will iterate over the values in the specified array from a specific start index.Parameters: array - the array to iterate over. startIndex - the index to start iterating at. Throws: [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if array is not an array. [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if array is null [IndexOutOfBoundsException](https://docs.oracle.com/javase/7/docs/api/java/lang/IndexOutOfBoundsException.html?is-external=true) - if the index is invalid

#### ArrayIterator public ArrayIterator([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) array, int startIndex, int endIndex) Construct an ArrayIterator that will iterate over a range of values in the specified array.Parameters: array - the array to iterate over. startIndex - the index to start iterating at. endIndex - the index to finish iterating at. Throws: [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if array is not an array. [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if array is null [IndexOutOfBoundsException](https://docs.oracle.com/javase/7/docs/api/java/lang/IndexOutOfBoundsException.html?is-external=true) - if either index is invalid

### Method Detail

#### checkBound protected void checkBound(int bound, int len, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) type) Checks whether the index is valid or not.Parameters: bound - the index to check len - the length of the array type - the index type (for error messages) Throws: [IndexOutOfBoundsException](https://docs.oracle.com/javase/7/docs/api/java/lang/IndexOutOfBoundsException.html?is-external=true) - if the index is invalid

#### hasNext public boolean hasNext() Returns true if there are more elements to return from the array.Specified by: [hasNext](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true#hasNext--) in interface [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayIterator.html)> Returns: true if there is a next element to return

#### next public [E](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayIterator.html) next() Returns the next element in the array.Specified by: [next](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true#next--) in interface [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayIterator.html)> Returns: the next element in the array Throws: [NoSuchElementException](https://docs.oracle.com/javase/7/docs/api/java/util/NoSuchElementException.html?is-external=true) - if all the elements in the array have already been returned

#### remove public void remove() Throws [UnsupportedOperationException](https://docs.oracle.com/javase/7/docs/api/java/lang/UnsupportedOperationException.html?is-external=true).Specified by: [remove](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true#remove--) in interface [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayIterator.html)> Throws: [UnsupportedOperationException](https://docs.oracle.com/javase/7/docs/api/java/lang/UnsupportedOperationException.html?is-external=true) - always

#### getArray public [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) getArray() Gets the array that this iterator is iterating over.Returns: the array this iterator iterates over.

#### getStartIndex public int getStartIndex() Gets the start index to loop from.Returns: the start index Since: 4.0

#### getEndIndex public int getEndIndex() Gets the end index to loop to.Returns: the end index Since: 4.0

#### reset public void reset() Resets the iterator back to the start index.Specified by: [reset](http://docs.google.com/org/apache/commons/collections4/ResettableIterator.html#reset--) in interface [ResettableIterator](http://docs.google.com/org/apache/commons/collections4/ResettableIterator.html)<[E](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayIterator.html)>

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