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org.apache.commons.collections4.iterators

## Class ArrayListIterator<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](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayIterator.html)<E>
    - org.apache.commons.collections4.iterators.ArrayListIterator<E>
* All Implemented Interfaces: [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<E>, [ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true)<E>, [OrderedIterator](http://docs.google.com/org/apache/commons/collections4/OrderedIterator.html)<E>, [ResettableIterator](http://docs.google.com/org/apache/commons/collections4/ResettableIterator.html)<E>, [ResettableListIterator](http://docs.google.com/org/apache/commons/collections4/ResettableListIterator.html)<E>  
    
  public class ArrayListIterator<E>  
  extends [ArrayIterator](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayIterator.html)<E>  
  implements [ResettableListIterator](http://docs.google.com/org/apache/commons/collections4/ResettableListIterator.html)<E>  
  Implements a [ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true) over an array.  
  The array can be either an array of object or of primitives. If you know that you have an object array, the [ObjectArrayListIterator](http://docs.google.com/org/apache/commons/collections4/iterators/ObjectArrayListIterator.html) class is a better choice, as it will perform better.  
  This iterator does not support [add(Object)](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayListIterator.html#add-java.lang.Object-) or [ArrayIterator.remove()](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayIterator.html#remove--), as the array cannot be changed in size. The [set(Object)](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayListIterator.html#set-java.lang.Object-) method is supported however.Since: 3.0 See Also: [ArrayIterator](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayIterator.html), [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true), [ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true)

### Constructor SummaryConstructors

|  |
| --- |
| * + Constructor and Description |
| * + [ArrayListIterator](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayListIterator.html#ArrayListIterator-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) array) Constructs an ArrayListIterator that will iterate over the values in the specified array. |
| * + [ArrayListIterator](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayListIterator.html#ArrayListIterator-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 ArrayListIterator that will iterate over the values in the specified array from a specific start index. |
| * + [ArrayListIterator](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayListIterator.html#ArrayListIterator-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 ArrayListIterator 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 |
| * + void | * + [add](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayListIterator.html#add-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) o) This iterator does not support modification of its backing collection, and so will always throw an [UnsupportedOperationException](https://docs.oracle.com/javase/7/docs/api/java/lang/UnsupportedOperationException.html?is-external=true) when this method is invoked. |
| * + boolean | * + [hasPrevious](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayListIterator.html#hasPrevious--)() Returns true if there are previous elements to return from the array. |
| * + [E](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayListIterator.html) | * + [next](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayListIterator.html#next--)() Gets the next element from the array. |
| * + int | * + [nextIndex](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayListIterator.html#nextIndex--)() Gets the next index to be retrieved. |
| * + [E](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayListIterator.html) | * + [previous](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayListIterator.html#previous--)() Gets the previous element from the array. |
| * + int | * + [previousIndex](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayListIterator.html#previousIndex--)() Gets the index of the item to be retrieved if [previous()](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayListIterator.html#previous--) is called. |
| * + void | * + [reset](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayListIterator.html#reset--)() Resets the iterator back to the start index. |
| * + void | * + [set](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayListIterator.html#set-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) o) Sets the element under the cursor. |

### Methods inherited from class org.apache.commons.collections4.iterators.[**ArrayIterator**](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayIterator.html)[checkBound](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayIterator.html#checkBound-int-int-java.lang.String-), [getArray](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayIterator.html#getArray--), [getEndIndex](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayIterator.html#getEndIndex--), [getStartIndex](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayIterator.html#getStartIndex--), [hasNext](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayIterator.html#hasNext--), [remove](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayIterator.html#remove--)

### 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.[**ListIterator**](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true)[hasNext](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true#hasNext--), [remove](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true#remove--)

### 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

#### ArrayListIterator public ArrayListIterator([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) array) Constructs an ArrayListIterator 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

#### ArrayListIterator public ArrayListIterator([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) array, int startIndex) Constructs an ArrayListIterator 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 start index is out of bounds

#### ArrayListIterator public ArrayListIterator([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) array, int startIndex, int endIndex) Construct an ArrayListIterator 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 (exclusive) 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. [IndexOutOfBoundsException](https://docs.oracle.com/javase/7/docs/api/java/lang/IndexOutOfBoundsException.html?is-external=true) - if the start or end index is out of bounds [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if end index is before the start [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if array is null

### Method Detail

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

#### previous public [E](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayListIterator.html) previous() Gets the previous element from the array.Specified by: [previous](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true#previous--) in interface [ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayListIterator.html)> Specified by: [previous](http://docs.google.com/org/apache/commons/collections4/OrderedIterator.html#previous--) in interface [OrderedIterator](http://docs.google.com/org/apache/commons/collections4/OrderedIterator.html)<[E](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayListIterator.html)> Returns: the previous element Throws: [NoSuchElementException](https://docs.oracle.com/javase/7/docs/api/java/util/NoSuchElementException.html?is-external=true) - if there is no previous element

#### next public [E](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayListIterator.html) next() Gets the next element from 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/ArrayListIterator.html)> Specified by: [next](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true#next--) in interface [ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayListIterator.html)> Overrides: [next](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayIterator.html#next--) in class [ArrayIterator](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayIterator.html)<[E](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayListIterator.html)> Returns: the next element Throws: [NoSuchElementException](https://docs.oracle.com/javase/7/docs/api/java/util/NoSuchElementException.html?is-external=true) - if there is no next element

#### nextIndex public int nextIndex() Gets the next index to be retrieved.Specified by: [nextIndex](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true#nextIndex--) in interface [ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayListIterator.html)> Returns: the index of the item to be retrieved next

#### previousIndex public int previousIndex() Gets the index of the item to be retrieved if [previous()](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayListIterator.html#previous--) is called.Specified by: [previousIndex](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true#previousIndex--) in interface [ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayListIterator.html)> Returns: the index of the item to be retrieved next

#### add public void add([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) o) This iterator does not support modification of its backing collection, and so will always throw an [UnsupportedOperationException](https://docs.oracle.com/javase/7/docs/api/java/lang/UnsupportedOperationException.html?is-external=true) when this method is invoked.Specified by: [add](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true#add-E-) in interface [ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayListIterator.html)> Parameters: o - the element to add Throws: [UnsupportedOperationException](https://docs.oracle.com/javase/7/docs/api/java/lang/UnsupportedOperationException.html?is-external=true) - always thrown. See Also: [ListIterator.set(E)](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true#set-E-)

#### set public void set([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) o) Sets the element under the cursor. This method sets the element that was returned by the last call to [next()](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayListIterator.html#next--) of [previous()](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayListIterator.html#previous--). **Note:** [ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true) implementations that support add() and remove() only allow set() to be called once per call to next() or previous (see the [ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true) javadoc for more details). Since this implementation does not support add() or remove(), set() may be called as often as desired.Specified by: [set](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true#set-E-) in interface [ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayListIterator.html)> Parameters: o - the element to set Throws: [IllegalStateException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalStateException.html?is-external=true) - if [next()](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayListIterator.html#next--) or [previous()](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayListIterator.html#previous--) has not been called before [set(Object)](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayListIterator.html#set-java.lang.Object-) See Also: [ListIterator.set(E)](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true#set-E-)

#### 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/ArrayListIterator.html)> Overrides: [reset](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayIterator.html#reset--) in class [ArrayIterator](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayIterator.html)<[E](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayListIterator.html)>

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