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org.apache.commons.collections4.iterators

## Class ObjectArrayIterator<E>

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + org.apache.commons.collections4.iterators.ObjectArrayIterator<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: [ObjectArrayListIterator](http://docs.google.com/org/apache/commons/collections4/iterators/ObjectArrayListIterator.html)  
    
  public class ObjectArrayIterator<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>  
  An [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true) over an array of objects.  
  This iterator does not support [remove()](http://docs.google.com/org/apache/commons/collections4/iterators/ObjectArrayIterator.html#remove--), as the object array cannot be structurally modified.  
  The iterator implements a [reset()](http://docs.google.com/org/apache/commons/collections4/iterators/ObjectArrayIterator.html#reset--) method, allowing the reset of the iterator back to the start if required.Since: 3.0

### Constructor SummaryConstructors

|  |
| --- |
| * + Constructor and Description |
| * + [ObjectArrayIterator](http://docs.google.com/org/apache/commons/collections4/iterators/ObjectArrayIterator.html#ObjectArrayIterator-E...-)([E](http://docs.google.com/org/apache/commons/collections4/iterators/ObjectArrayIterator.html)... array) Constructs an ObjectArrayIterator that will iterate over the values in the specified array. |
| * + [ObjectArrayIterator](http://docs.google.com/org/apache/commons/collections4/iterators/ObjectArrayIterator.html#ObjectArrayIterator-E:A-int-)([E](http://docs.google.com/org/apache/commons/collections4/iterators/ObjectArrayIterator.html)[] array, int start) Constructs an ObjectArrayIterator that will iterate over the values in the specified array from a specific start index. |
| * + [ObjectArrayIterator](http://docs.google.com/org/apache/commons/collections4/iterators/ObjectArrayIterator.html#ObjectArrayIterator-E:A-int-int-)([E](http://docs.google.com/org/apache/commons/collections4/iterators/ObjectArrayIterator.html)[] array, int start, int end) Construct an ObjectArrayIterator 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 |
| * + [E](http://docs.google.com/org/apache/commons/collections4/iterators/ObjectArrayIterator.html)[] | * + [getArray](http://docs.google.com/org/apache/commons/collections4/iterators/ObjectArrayIterator.html#getArray--)() Gets the array that this iterator is iterating over. |
| * + int | * + [getEndIndex](http://docs.google.com/org/apache/commons/collections4/iterators/ObjectArrayIterator.html#getEndIndex--)() Gets the end index to loop to. |
| * + int | * + [getStartIndex](http://docs.google.com/org/apache/commons/collections4/iterators/ObjectArrayIterator.html#getStartIndex--)() Gets the start index to loop from. |
| * + boolean | * + [hasNext](http://docs.google.com/org/apache/commons/collections4/iterators/ObjectArrayIterator.html#hasNext--)() Returns true if there are more elements to return from the array. |
| * + [E](http://docs.google.com/org/apache/commons/collections4/iterators/ObjectArrayIterator.html) | * + [next](http://docs.google.com/org/apache/commons/collections4/iterators/ObjectArrayIterator.html#next--)() Returns the next element in the array. |
| * + void | * + [remove](http://docs.google.com/org/apache/commons/collections4/iterators/ObjectArrayIterator.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/ObjectArrayIterator.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

#### ObjectArrayIterator public ObjectArrayIterator([E](http://docs.google.com/org/apache/commons/collections4/iterators/ObjectArrayIterator.html)... array) Constructs an ObjectArrayIterator that will iterate over the values in the specified array.Parameters: array - the array to iterate over Throws: [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if array is null

#### ObjectArrayIterator public ObjectArrayIterator([E](http://docs.google.com/org/apache/commons/collections4/iterators/ObjectArrayIterator.html)[] array, int start) Constructs an ObjectArrayIterator that will iterate over the values in the specified array from a specific start index.Parameters: array - the array to iterate over start - the index to start iterating at Throws: [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

#### ObjectArrayIterator public ObjectArrayIterator([E](http://docs.google.com/org/apache/commons/collections4/iterators/ObjectArrayIterator.html)[] array, int start, int end) Construct an ObjectArrayIterator that will iterate over a range of values in the specified array.Parameters: array - the array to iterate over start - the index to start iterating at end - the index (exclusive) to finish iterating at Throws: [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

#### 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/ObjectArrayIterator.html)> Returns: true if there is a next element to return

#### next public [E](http://docs.google.com/org/apache/commons/collections4/iterators/ObjectArrayIterator.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/ObjectArrayIterator.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/ObjectArrayIterator.html)> Throws: [UnsupportedOperationException](https://docs.oracle.com/javase/7/docs/api/java/lang/UnsupportedOperationException.html?is-external=true) - always

#### getArray public [E](http://docs.google.com/org/apache/commons/collections4/iterators/ObjectArrayIterator.html)[] 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

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

#### 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/ObjectArrayIterator.html)>

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