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org.apache.commons.collections4

## Interface OrderedIterator<E>

* Type Parameters: E - the type of elements returned by this iterator All Superinterfaces: [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<E> All Known Subinterfaces: [OrderedMapIterator](http://docs.google.com/org/apache/commons/collections4/OrderedMapIterator.html)<K,V>, [ResettableListIterator](http://docs.google.com/org/apache/commons/collections4/ResettableListIterator.html)<E> All Known Implementing Classes: [AbstractLinkedList.LinkedListIterator](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedListIterator.html), [AbstractLinkedList.LinkedSubListIterator](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedSubListIterator.html), [AbstractLinkedMap.EntrySetIterator](http://docs.google.com/org/apache/commons/collections4/map/AbstractLinkedMap.EntrySetIterator.html), [AbstractLinkedMap.KeySetIterator](http://docs.google.com/org/apache/commons/collections4/map/AbstractLinkedMap.KeySetIterator.html), [AbstractLinkedMap.LinkMapIterator](http://docs.google.com/org/apache/commons/collections4/map/AbstractLinkedMap.LinkMapIterator.html), [AbstractLinkedMap.ValuesIterator](http://docs.google.com/org/apache/commons/collections4/map/AbstractLinkedMap.ValuesIterator.html), [AbstractOrderedMapIteratorDecorator](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractOrderedMapIteratorDecorator.html), [AbstractSortedMapDecorator.SortedMapIterator](http://docs.google.com/org/apache/commons/collections4/map/AbstractSortedMapDecorator.SortedMapIterator.html), [ArrayListIterator](http://docs.google.com/org/apache/commons/collections4/iterators/ArrayListIterator.html), [CursorableLinkedList.Cursor](http://docs.google.com/org/apache/commons/collections4/list/CursorableLinkedList.Cursor.html), [CursorableLinkedList.SubCursor](http://docs.google.com/org/apache/commons/collections4/list/CursorableLinkedList.SubCursor.html), [DualTreeBidiMap.BidiOrderedMapIterator](http://docs.google.com/org/apache/commons/collections4/bidimap/DualTreeBidiMap.BidiOrderedMapIterator.html), [EmptyListIterator](http://docs.google.com/org/apache/commons/collections4/iterators/EmptyListIterator.html), [EmptyOrderedIterator](http://docs.google.com/org/apache/commons/collections4/iterators/EmptyOrderedIterator.html), [EmptyOrderedMapIterator](http://docs.google.com/org/apache/commons/collections4/iterators/EmptyOrderedMapIterator.html), [ListIteratorWrapper](http://docs.google.com/org/apache/commons/collections4/iterators/ListIteratorWrapper.html), [LoopingListIterator](http://docs.google.com/org/apache/commons/collections4/iterators/LoopingListIterator.html), [ObjectArrayListIterator](http://docs.google.com/org/apache/commons/collections4/iterators/ObjectArrayListIterator.html), [ReverseListIterator](http://docs.google.com/org/apache/commons/collections4/iterators/ReverseListIterator.html), [SingletonListIterator](http://docs.google.com/org/apache/commons/collections4/iterators/SingletonListIterator.html), [UnmodifiableOrderedMapIterator](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableOrderedMapIterator.html)  
    
  public interface OrderedIterator<E>  
  extends [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<E>  
  Defines an iterator that operates over an ordered container. Subset of [ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true).  
  This iterator allows both forward and reverse iteration through the container.Since: 3.0

### Method SummaryAll Methods Instance Methods Abstract Methods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + boolean | * + [hasPrevious](http://docs.google.com/org/apache/commons/collections4/OrderedIterator.html#hasPrevious--)() Checks to see if there is a previous element that can be iterated to. |
| * + [E](http://docs.google.com/org/apache/commons/collections4/OrderedIterator.html) | * + [previous](http://docs.google.com/org/apache/commons/collections4/OrderedIterator.html#previous--)() Gets the previous element from the container. |

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

### Method Detail

#### hasPrevious boolean hasPrevious() Checks to see if there is a previous element that can be iterated to.Returns: true if the iterator has a previous element

#### previous [E](http://docs.google.com/org/apache/commons/collections4/OrderedIterator.html) previous() Gets the previous element from the container.Returns: the previous element in the iteration Throws: [NoSuchElementException](https://docs.oracle.com/javase/7/docs/api/java/util/NoSuchElementException.html?is-external=true) - if the iteration is finished

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