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org.apache.commons.collections4.iterators

## Class BoundedIterator<E>

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + org.apache.commons.collections4.iterators.BoundedIterator<E>
* All Implemented Interfaces: [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<E>  
    
  public class BoundedIterator<E>  
  extends [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)  
  implements [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<E>  
  Decorates another iterator to return elements in a specific range.  
  The decorated iterator is bounded in the range [offset, offset+max). The offset corresponds to the position of the first element to be returned from the decorated iterator, and max is the maximum number of elements to be returned at most.  
  In case an offset parameter other than 0 is provided, the decorated iterator is immediately advanced to this position, skipping all elements before that position.Since: 4.1

### Constructor SummaryConstructors

|  |
| --- |
| * + Constructor and Description |
| * + [BoundedIterator](http://docs.google.com/org/apache/commons/collections4/iterators/BoundedIterator.html#BoundedIterator-java.util.Iterator-long-long-)([Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<? extends [E](http://docs.google.com/org/apache/commons/collections4/iterators/BoundedIterator.html)> iterator, long offset, long max) Decorates the specified iterator to return at most the given number of elements, skipping all elements until the iterator reaches the position at offset. |

### Method SummaryAll Methods Instance Methods Concrete Methods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + boolean | * + [hasNext](http://docs.google.com/org/apache/commons/collections4/iterators/BoundedIterator.html#hasNext--)() |
| * + [E](http://docs.google.com/org/apache/commons/collections4/iterators/BoundedIterator.html) | * + [next](http://docs.google.com/org/apache/commons/collections4/iterators/BoundedIterator.html#next--)() |
| * + void | * + [remove](http://docs.google.com/org/apache/commons/collections4/iterators/BoundedIterator.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.[**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

#### BoundedIterator public BoundedIterator([Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<? extends [E](http://docs.google.com/org/apache/commons/collections4/iterators/BoundedIterator.html)> iterator, long offset, long max) Decorates the specified iterator to return at most the given number of elements, skipping all elements until the iterator reaches the position at offset. The iterator is immediately advanced until it reaches the position at offset, incurring O(n) time.Parameters: iterator - the iterator to be decorated offset - the index of the first element of the decorated iterator to return max - the maximum number of elements of the decorated iterator to return Throws: [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if iterator is null [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if either offset or max is negative

### Method Detail

#### hasNext public boolean hasNext()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/BoundedIterator.html)>

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

#### remove public void remove() In case an offset other than 0 was specified, the underlying iterator will be advanced to this position upon creation. A call to [remove()](http://docs.google.com/org/apache/commons/collections4/iterators/BoundedIterator.html#remove--) will still result in an [IllegalStateException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalStateException.html?is-external=true) if no explicit call to [next()](http://docs.google.com/org/apache/commons/collections4/iterators/BoundedIterator.html#next--) has been made prior to calling [remove()](http://docs.google.com/org/apache/commons/collections4/iterators/BoundedIterator.html#remove--).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/BoundedIterator.html)>

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