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org.apache.commons.collections4.iterators

## Class SkippingIterator<E>

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + [org.apache.commons.collections4.iterators.AbstractUntypedIteratorDecorator](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractUntypedIteratorDecorator.html)<E,E>
    - [org.apache.commons.collections4.iterators.AbstractIteratorDecorator](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractIteratorDecorator.html)<E>
      * org.apache.commons.collections4.iterators.SkippingIterator<E>
* All Implemented Interfaces: [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<E>  
    
  public class SkippingIterator<E>  
  extends [AbstractIteratorDecorator](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractIteratorDecorator.html)<E>  
  Decorates another iterator to skip the first N elements.  
  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 |
| * + [SkippingIterator](http://docs.google.com/org/apache/commons/collections4/iterators/SkippingIterator.html#SkippingIterator-java.util.Iterator-long-)([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/SkippingIterator.html)> iterator, long offset) Decorates the specified iterator to skip all elements until the iterator reaches the position at offset. |

### Method SummaryAll Methods Instance Methods Concrete Methods

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

### Methods inherited from class org.apache.commons.collections4.iterators.[**AbstractUntypedIteratorDecorator**](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractUntypedIteratorDecorator.html)[getIterator](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractUntypedIteratorDecorator.html#getIterator--), [hasNext](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractUntypedIteratorDecorator.html#hasNext--)

### 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

#### SkippingIterator public SkippingIterator([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/SkippingIterator.html)> iterator, long offset) Decorates the specified iterator to skip 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 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 offset is negative

### Method Detail

#### next public [E](http://docs.google.com/org/apache/commons/collections4/iterators/SkippingIterator.html) next() Description copied from class: [AbstractIteratorDecorator](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractIteratorDecorator.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/SkippingIterator.html)> Overrides: [next](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractIteratorDecorator.html#next--) in class [AbstractIteratorDecorator](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractIteratorDecorator.html)<[E](http://docs.google.com/org/apache/commons/collections4/iterators/SkippingIterator.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/SkippingIterator.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/SkippingIterator.html#next--) has been made prior to calling [remove()](http://docs.google.com/org/apache/commons/collections4/iterators/SkippingIterator.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/SkippingIterator.html)> Overrides: [remove](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractUntypedIteratorDecorator.html#remove--) in class [AbstractUntypedIteratorDecorator](http://docs.google.com/org/apache/commons/collections4/iterators/AbstractUntypedIteratorDecorator.html)<[E](http://docs.google.com/org/apache/commons/collections4/iterators/SkippingIterator.html),[E](http://docs.google.com/org/apache/commons/collections4/iterators/SkippingIterator.html)>

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