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org.apache.commons.collections4.iterators

## Class UnmodifiableListIterator<E>

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + org.apache.commons.collections4.iterators.UnmodifiableListIterator<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>, [Unmodifiable](http://docs.google.com/org/apache/commons/collections4/Unmodifiable.html)  
    
  public final class UnmodifiableListIterator<E>  
  extends [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)  
  implements [ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true)<E>, [Unmodifiable](http://docs.google.com/org/apache/commons/collections4/Unmodifiable.html)  
  Decorates a list iterator such that it cannot be modified.  
  Attempts to modify it will result in an UnsupportedOperationException.Since: 3.0

### Method SummaryAll Methods Static Methods Instance Methods Concrete Methods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + void | * + [add](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableListIterator.html#add-E-)([E](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableListIterator.html) obj) |
| * + boolean | * + [hasNext](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableListIterator.html#hasNext--)() |
| * + boolean | * + [hasPrevious](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableListIterator.html#hasPrevious--)() |
| * + [E](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableListIterator.html) | * + [next](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableListIterator.html#next--)() |
| * + int | * + [nextIndex](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableListIterator.html#nextIndex--)() |
| * + [E](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableListIterator.html) | * + [previous](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableListIterator.html#previous--)() |
| * + int | * + [previousIndex](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableListIterator.html#previousIndex--)() |
| * + void | * + [remove](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableListIterator.html#remove--)() |
| * + void | * + [set](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableListIterator.html#set-E-)([E](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableListIterator.html) obj) |
| * + static <E> [ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true)<E> | * + [umodifiableListIterator](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableListIterator.html#umodifiableListIterator-java.util.ListIterator-)([ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true)<? extends E> iterator) Decorates the specified iterator such that it cannot be modified. |

### 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-)

### Method Detail

#### umodifiableListIterator public static <E> [ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true)<E> umodifiableListIterator([ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true)<? extends E> iterator) Decorates the specified iterator such that it cannot be modified.Type Parameters: E - the element type Parameters: iterator - the iterator to decorate Returns: a new unmodifiable list iterator Throws: [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if the iterator is null

#### 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/UnmodifiableListIterator.html)> Specified by: [hasNext](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true#hasNext--) 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/UnmodifiableListIterator.html)>

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

#### nextIndex public int nextIndex()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/UnmodifiableListIterator.html)>

#### hasPrevious public boolean hasPrevious()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/UnmodifiableListIterator.html)>

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

#### previousIndex public int previousIndex()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/UnmodifiableListIterator.html)>

#### remove public void 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/UnmodifiableListIterator.html)> Specified by: [remove](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true#remove--) 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/UnmodifiableListIterator.html)>

#### set public void set([E](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableListIterator.html) obj)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/UnmodifiableListIterator.html)>

#### add public void add([E](http://docs.google.com/org/apache/commons/collections4/iterators/UnmodifiableListIterator.html) obj)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/UnmodifiableListIterator.html)>

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