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[Skip navigation links](#1fob9te)

* [Overview](http://docs.google.com/overview-summary.html)
* [Package](http://docs.google.com/package-summary.html)
* Class
* [Use](http://docs.google.com/class-use/AbstractLinkedList.LinkedSubListIterator.html)
* [Tree](http://docs.google.com/package-tree.html)
* [Deprecated](http://docs.google.com/deprecated-list.html)
* [Index](http://docs.google.com/index-all.html)
* [Help](http://docs.google.com/help-doc.html)
* [Prev Class](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedSubList.html)
* [Next Class](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.Node.html)
* [Frames](http://docs.google.com/index.html?org/apache/commons/collections4/list/AbstractLinkedList.LinkedSubListIterator.html)
* [No Frames](http://docs.google.com/AbstractLinkedList.LinkedSubListIterator.html)
* [All Classes](http://docs.google.com/allclasses-noframe.html)
* Summary:
* Nested |
* [Field](#3znysh7) |
* [Constr](#tyjcwt) |
* [Method](#3dy6vkm)
* Detail:
* [Field](#17dp8vu) |
* [Constr](#26in1rg) |
* [Method](#35nkun2)

org.apache.commons.collections4.list

## Class AbstractLinkedList.LinkedSubListIterator<E>

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + [org.apache.commons.collections4.list.AbstractLinkedList.LinkedListIterator](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedListIterator.html)<E>
    - org.apache.commons.collections4.list.AbstractLinkedList.LinkedSubListIterator<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>, [OrderedIterator](http://docs.google.com/org/apache/commons/collections4/OrderedIterator.html)<E> Enclosing class: [AbstractLinkedList](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.html)<[E](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.html)>  
    
  protected static class AbstractLinkedList.LinkedSubListIterator<E>  
  extends [AbstractLinkedList.LinkedListIterator](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedListIterator.html)<E>  
  A list iterator over the linked sub list.

### Field SummaryFields

|  |  |
| --- | --- |
| * + Modifier and Type | * + Field and Description |
| * + protected [AbstractLinkedList.LinkedSubList](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedSubList.html)<[E](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedSubListIterator.html)> | * + [sub](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedSubListIterator.html#sub) The parent list |

### Fields inherited from class org.apache.commons.collections4.list.[**AbstractLinkedList.LinkedListIterator**](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedListIterator.html)[current](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedListIterator.html#current), [expectedModCount](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedListIterator.html#expectedModCount), [next](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedListIterator.html#next), [nextIndex](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedListIterator.html#nextIndex), [parent](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedListIterator.html#parent)

### Constructor SummaryConstructors

|  |  |
| --- | --- |
| * + Modifier | * + Constructor and Description |
| * + protected | * + [LinkedSubListIterator](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedSubListIterator.html#LinkedSubListIterator-org.apache.commons.collections4.list.AbstractLinkedList.LinkedSubList-int-)([AbstractLinkedList.LinkedSubList](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedSubList.html)<[E](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedSubListIterator.html)> sub, int startIndex) |

### Method SummaryAll Methods Instance Methods Concrete Methods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + void | * + [add](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedSubListIterator.html#add-E-)([E](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedSubListIterator.html) obj) |
| * + boolean | * + [hasNext](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedSubListIterator.html#hasNext--)() |
| * + boolean | * + [hasPrevious](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedSubListIterator.html#hasPrevious--)() Checks to see if there is a previous element that can be iterated to. |
| * + int | * + [nextIndex](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedSubListIterator.html#nextIndex--)() |
| * + void | * + [remove](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedSubListIterator.html#remove--)() |

### Methods inherited from class org.apache.commons.collections4.list.[**AbstractLinkedList.LinkedListIterator**](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedListIterator.html)[checkModCount](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedListIterator.html#checkModCount--), [getLastNodeReturned](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedListIterator.html#getLastNodeReturned--), [next](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedListIterator.html#next--), [previous](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedListIterator.html#previous--), [previousIndex](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedListIterator.html#previousIndex--), [set](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedListIterator.html#set-E-)

### 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-)

### Field Detail

#### sub protected final [AbstractLinkedList.LinkedSubList](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedSubList.html)<[E](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedSubListIterator.html)> sub The parent list

### Constructor Detail

#### LinkedSubListIterator protected LinkedSubListIterator([AbstractLinkedList.LinkedSubList](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedSubList.html)<[E](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedSubListIterator.html)> sub, int startIndex)

### 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/list/AbstractLinkedList.LinkedSubListIterator.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/list/AbstractLinkedList.LinkedSubListIterator.html)> Overrides: [hasNext](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedListIterator.html#hasNext--) in class [AbstractLinkedList.LinkedListIterator](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedListIterator.html)<[E](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedSubListIterator.html)>

#### hasPrevious public boolean hasPrevious() Description copied from interface: [OrderedIterator](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.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/list/AbstractLinkedList.LinkedSubListIterator.html)> Specified by: [hasPrevious](http://docs.google.com/org/apache/commons/collections4/OrderedIterator.html#hasPrevious--) in interface [OrderedIterator](http://docs.google.com/org/apache/commons/collections4/OrderedIterator.html)<[E](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedSubListIterator.html)> Overrides: [hasPrevious](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedListIterator.html#hasPrevious--) in class [AbstractLinkedList.LinkedListIterator](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedListIterator.html)<[E](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedSubListIterator.html)> Returns: true if the iterator has a previous element

#### 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/list/AbstractLinkedList.LinkedSubListIterator.html)> Overrides: [nextIndex](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedListIterator.html#nextIndex--) in class [AbstractLinkedList.LinkedListIterator](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedListIterator.html)<[E](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedSubListIterator.html)>

#### add public void add([E](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedSubListIterator.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/list/AbstractLinkedList.LinkedSubListIterator.html)> Overrides: [add](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedListIterator.html#add-E-) in class [AbstractLinkedList.LinkedListIterator](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedListIterator.html)<[E](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedSubListIterator.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/list/AbstractLinkedList.LinkedSubListIterator.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/list/AbstractLinkedList.LinkedSubListIterator.html)> Overrides: [remove](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedListIterator.html#remove--) in class [AbstractLinkedList.LinkedListIterator](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedListIterator.html)<[E](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedSubListIterator.html)>

[Skip navigation links](#1ci93xb)

* [Overview](http://docs.google.com/overview-summary.html)
* [Package](http://docs.google.com/package-summary.html)
* Class
* [Use](http://docs.google.com/class-use/AbstractLinkedList.LinkedSubListIterator.html)
* [Tree](http://docs.google.com/package-tree.html)
* [Deprecated](http://docs.google.com/deprecated-list.html)
* [Index](http://docs.google.com/index-all.html)
* [Help](http://docs.google.com/help-doc.html)
* [Prev Class](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.LinkedSubList.html)
* [Next Class](http://docs.google.com/org/apache/commons/collections4/list/AbstractLinkedList.Node.html)
* [Frames](http://docs.google.com/index.html?org/apache/commons/collections4/list/AbstractLinkedList.LinkedSubListIterator.html)
* [No Frames](http://docs.google.com/AbstractLinkedList.LinkedSubListIterator.html)
* [All Classes](http://docs.google.com/allclasses-noframe.html)
* Summary:
* Nested |
* [Field](#3znysh7) |
* [Constr](#tyjcwt) |
* [Method](#3dy6vkm)
* Detail:
* [Field](#17dp8vu) |
* [Constr](#26in1rg) |
* [Method](#35nkun2)

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