**PACKAGE** 

CLASS

PREV CLASS NEXT CLASS

FRAMES NO FRAMES

**ALL CLASSES** 

SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

# Class MyLinkedList.MyListIterator

java.lang.Object MyLinkedList.MyListIterator

# All Implemented Interfaces:

java.util.Iterator<E>, java.util.ListIterator<E>

# **Enclosing class:**

MyLinkedList<E>

```
protected class MyLinkedList.MyListIterator
extends java.lang.Object
implements java.util.ListIterator<E>
```

This is an inner class, called MyListIterator. It has access to all of the MyLinkedList instance variables, including private variables. To access the set() method of the MyLinkedList instance from within a methodhere use MyLinkedList.this.set(i,e);

# Field Summary

#### **Fields**

Modifier and Type		Field and Description
(package private)	MyLinkedList.Node <e></e>	back
(package private)	MyLinkedList.Node <e></e>	front
(package private)	int	index
(package private)	boolean	nextcall
(package private)	boolean	prevcall

# **Constructor Summary**

# **Constructors**

## **Constructor and Description**

# MyListIterator()

no-arg constructor for MyListIterator

All Methods	Instance Methods	Concrete Methods		
Modifier and Typ	e Method and De	Method and Description		
void		add(E e) Method: add Insert the given item into the list immediately before whatever would have been returned by a call to next()		
boolean		hasNext() Method: hasNext Return true if there are more elements when going in the forward direction		
boolean	Method: hasP	hasPrevious () Method: hasPrevious Return true if there are more elements when going in the reverse direction		
E	next() Method: next	next() Method: next Return the next element in the list when going forward		
int	Method: next	nextIndex() Method: nextIndex Return the index of the element that would be returned by a call to next()		
E	previous() Method: previous backwards	Method: previous Return the next element in the list when going		
int	Method: previ	<pre>previousIndex() Method: previousIndex Return the index of the element that would be returned by a call to previous()</pre>		
void		<pre>remove() Method: remove Remove the last element returned by the most recent call to either next/previous</pre>		
void		<pre>set(E e) Method: set Change the value in the node returned by the most recent next/previous with the new value</pre>		

# Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString,
wait, wait

# Methods inherited from interface java.util.lterator

 ${\tt for Each Remaining}$ 

# Field Detail

## front

MyLinkedList.Node<E> front

#### back

MyLinkedList.Node<E> back

### index

int index

#### nextcall

boolean nextcall

# prevcall

boolean prevcall

# **Constructor Detail**

# MyListIterator

public MyListIterator()

no-arg constructor for MyListIterator

# **Method Detail**

# add

Method: add Insert the given item into the list immediately before whatever would have been returned by a call to next()

```
Specified by:
add in interface java.util.ListIterator<E>
Parameters:
e - the element to insert
Throws:
java.lang.NullPointerException - if e is null
```

#### hasNext

```
public boolean hasNext()

Method: hasNext Return true if there are more elements when going in the forward direction

Specified by:
hasNext in interface java.util.Iterator<E>
Specified by:
hasNext in interface java.util.ListIterator<E>
Returns:
true if more element forward
```

#### hasPrevious

```
public boolean hasPrevious()

Method: hasPrevious Return true if there are more elements when going in the reverse direction

Specified by:
hasPrevious in interface java.util.ListIterator<E>
Returns:
true if more element backward
```

#### next

#### Throws:

java.util.NoSuchElementException - if the iteration has no next element

#### nextIndex

```
public int nextIndex()
```

Method: nextIndex Return the index of the element that would be returned by a call to next()

## Specified by:

nextIndex in interface java.util.ListIterator<E>

#### Returns:

the index of the element that would be returned by a subsequent call to next; or the list size if at the end of the list

#### previous

Method: previous Return the next element in the list when going backwards

#### Specified by:

previous in interface java.util.ListIterator<E>

#### Returns:

the previous element in the list

#### Throws:

java.util.NoSuchElementException - if the iteration has no previous element

#### previousIndex

```
public int previousIndex()
```

Method: previousIndex Return the index of the element that would be returned by a call to previous()

#### Specified by:

previousIndex in interface java.util.ListIterator<E>

#### Returns:

the index of the element backward; or -1 if at the start of the list

# remove

#### set

public void set(E e)

java.lang.IllegalStateException

Method: set Change the value in the node returned by the most recent next/previous with the new value

# Specified by:

set in interface java.util.ListIterator<E>

#### Parameters:

e - the element with which to replace the last element returned by next or previous

PACKAGE CLASS TREE DEPRECATED INDEX HELP

PREV CLASS NEXT CLASS FRAMES NO FRAMES ALL CLASSES

SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD