PACKAGE CLASS USE TREE DEPRECATED INDEX HELP

PREV CLASS **NEXT CLASS** FRAMES NO FRAMES

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

Class DLinkedList<E>

java.lang.Object
DLinkedList<E>

public class DLinkedList<E>
extends java.lang.Object

Constructor Summary

Constructors

Constructor and Description

DLinkedList()

Method Summary

All Methods Instanc	ce Methods Concrete Methods
Modifier and Type	Method and Description
void	<pre>add(int index, E item) Add the given item at the given index</pre>
void	<pre>addAll(int index, java.lang.Iterable<e> collection) Inserts all elements of the given collection</e></pre>
void	<pre>addFirst(E item) Adds the given element to the front of the list.</pre>
void	<pre>addLast(E item) Adds the given item to the end of the list</pre>
void	<pre>clear() clears all elements in the list return the cleared</pre>

list

java.lang.Object clone()

returns a copy of the list

boolean contains(E items)

Determines if the list contains the given item

boolean containsIter(E items)

Determines if the list contains the given item

boolean **equals**(java.lang.Object list)

determine is this list is equal to the given list

E getFirst()

Returns the first element in the list.

E getLast()

Returns the last element in the list.

If the list is empty

java.util.Iterator<E> iterator()

Remove the element in the list

boolean removeAll(E item)

removes all occurrences of the given item in the

list

boolean removeAllIter(E item)

Same as removeAll but uses an iterator

boolean removeItem(E item)

removes the first occurence of the given item in

the list

void test iter fails()

java.lang.String toString()

changing integers to string return string

representation of the list

java.lang.String toStringRev()

reversing toString method

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Methods inherited from class java.lang.Object

getClass, hashCode, notify, notifyAll, wait, wait, wait

Constructor Detail

DLinkedList

public DLinkedList()

Method Detail

isEmpty

public boolean isEmpty()

If the list is empty

Returns:

the data null;

getFirst

public E getFirst()

Returns the first element in the list.

Returns:

the first element in the list

Throws:

java.util.NoSuchElementException - when the list is empty

getLast

public E getLast()

Returns the last element in the list.

Returns:

the last element in the list.

Throws:

java.util.NoSuchElementException - when list is empty

addLast

public void addLast(E item)

Adds the given item to the end of the list

Parameters:

item - the element to add

addFirst

public void addFirst(E item)

Adds the given element to the front of the list.

Parameters:

data - the element to add

add

Add the given item at the given index

Parameters:

index - to the node that you are adding

item - added to the list

contains

public boolean contains(E items)

Determines if the list contains the given item

Parameters:

items - in the given list

Returns:

true

clear

```
public void clear()
```

clears all elements in the list return the cleared list

toString

```
public java.lang.String toString()
```

changing integers to string return string representation of the list

Overrides:

toString in class java.lang.Object

toStringRev

```
public java.lang.String toStringRev()
```

reversing toString method

Returns:

the string

containsIter

public boolean containsIter(E items)

Determines if the list contains the given item

Parameters:

items - visit the nodes as it searches for the item

Returns:

null

iterator

public java.util.Iterator<E> iterator()

removeltem

public boolean removeItem(E item)

removes the first occurence of the given item in the list

Parameters:

item - is the given item

Returns:

true if the element is removed

removeAll

public boolean removeAll(E item)

removes all occurrences of the given item in the list

Parameters:

item - is the item we remove in all occurences

Returns:

true if the value of the element was removed

equals

public boolean equals(java.lang.Object list)

determine is this list is equal to the given list

Overrides:

equals in class java.lang.Object

Parameters:

list - return

clone

public java.lang.Object clone()

returns a copy of the list

Overrides:

clone in class java.lang.Object

addAll

Inserts all elements of the given collection

Parameters:

index - in which we give the collection
collection - all elements that were inserted

remove

public void remove()

Remove the element in the list

removeAllIter

public boolean removeAllIter(E item)

Same as removeAll but uses an iterator

Parameters:

item - that is being removed

Returns:

the item being removed

test_iter_fails

public void test_iter_fails()

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