

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 Instance Methods Concrete Methods

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

	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.
boolean	isEmpty() If the list is empty
java.util.Iterator<E>	iterator()
void	remove() 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 occurrence 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

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

```
public void add(int index,  
               E item)
```

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()
```

removeItem

```
public boolean removeItem(E item)
```

removes the first occurrence 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 occurrences

Returns:

true if the value of the element was removed

equals

```
public boolean equals(java.lang.Object list)
```

determine if 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

```
public void addAll(int index,  
                  java.lang.Iterable<E> collection)
```

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()
```

PREV CLASS **NEXT CLASS** FRAMES NO FRAMES
SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD