

Class CircularNode<E>

java.lang.Object

CircularNode<E>

```
public class CircularNode<E> extends java.lang.Object
```

This class provides a node for the CircularList class that stores a data element and two pointers: one to its previous node and one to its next node.

Author: Bryan Davis

Field Summary	
private E	dataElement The data element this node holds
private CircularNode<E>	nextNode The object reference (pointer or link) to the next node
private CircularNode<E>	previousNode The object reference (pointer or link) to the previous node

Constructor Summary

[CircularNode\(\)](#)

Construct an empty node

[CircularNode\(E elem, CircularNode<E> prev, CircularNode<E> next\)](#)

Construct a node with elem, prev, and next

Method Summary	
E getDataElement()	Return the data element of this node
CircularNode<E> getNextNode()	Return the next node
CircularNode<E> getPreviousNode()	Return the previous node
void setDataElement(E elem)	Set the data element of this node
void setNextNode(CircularNode<E> next)	Set this node's next node to next
void setPreviousNode(CircularNode<E> prev)	Set this node's previous node to prev

Methods inherited from class java.lang.Object
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Field Detail

dataElement

private [E](#) **dataElement**

The data element this node holds

previousNode

private [CircularNode<E>](#) **previousNode**

The object reference (pointer or link) to the previous node

nextNode

```
private CircularNode<E> nextNode
```

The object reference (pointer or link) to the next node

Constructor Detail

CircularNode

```
public CircularNode()
```

Construct an empty node

CircularNode

```
public CircularNode(E elem,  
                    CircularNode<E> prev,  
                    CircularNode<E> next)
```

Construct a node with elem, prev, and next

Parameters:elem - the node's data elementprev - the node's previous nodenext - the node's next node

Method Detail

getDataElement

```
public E getDataElement()
```

Return the data element of this node

Returns:the data element of this node

setDataElement

```
public void setDataElement(E elem)
```

Set the data element of this node

Parameters:elem - the element to set

getPreviousNode

```
public CircularNode<E> getPreviousNode()
```

Return the previous node

Returns:the previous node

setPreviousNode

```
public void setPreviousNode(CircularNode<E> prev)
```

Set this node's previous node to prev

Parameters:prev - the previous node object to set

getNextNode

```
public CircularNode<E> getNextNode()
```

Return the next node

Returns:the next node

setNextNode

```
public void setNextNode(CircularNode<E> next)
```

Set this node's next node to next

Parameters:next - the next node object to set

[Package](#) **Class** [Use](#) [Tree](#) [Depre](#)[Index](#) [Help](#)
[ge](#) [cated](#)

[PREV CLASS](#) [NEXT CLASS](#)

SUMMARY: [NESTED](#) | [FIELD](#) | [CONSTR](#) | [METHOD](#)

[FRAMES](#) [NO FRAMES](#) [All Classes](#)

DETAIL: [FIELD](#) | [CONSTR](#) | [METHOD](#)
