InLabP2 - LinkList

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Class Index

1.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

LinkList< T >											
A simple LinkList class	 	 	 	 	 	 					5
Node < T >											
Node class for LinkList											-

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File Index

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Н	ere i	s a	list (of a	all c	documented	files	with	brief	descriptions
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LinkList.java								
This file contains both the LinkList class and a Node class								11

File Index

Class Documentation

3.1 LinkList < T > Class Template Reference

A simple LinkList class.

Public Member Functions

• void insertFront (T item)

Insert an item to the front of LinkList.

• void insertRear (T item)

Insert an item to the rear of LinkList.

• void removeFront ()

Removes an item (if present) from the front of LinkList.

• void removeRear ()

Removes an item (if present) from the rear of LinkList.

Static Public Member Functions

• static void main (String a[])

Driver class to demonstrate the LinkList class.

Private Attributes

- Node< T > front
- Node< T > rear

3.1.1 Detailed Description

A simple LinkList class.

Author

Shivam Sood

This is a generic class LinkList class. It contains methods to manage the list. The class also contains a driver function called main.

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3.1.2 Member Function Documentation

3.1.2.1 insertFront()

Insert an item to the front of LinkList.

Parameters

item This item is added to the front.

Returns

void

3.1.2.2 insertRear()

Insert an item to the rear of LinkList.

Parameters

item This item is added to the rear.

Returns

void

3.1.2.3 main()

Driver class to demonstrate the LinkList class.

Parameters

a[] This can be used to pass arguments.

Returns

void

3.1.2.4 removeFront()

```
void LinkList < T > .removeFront ( )
```

Removes an item (if present) from the front of LinkList.

Returns

void

3.1.2.5 removeRear()

```
void LinkList< T >.removeRear ( )
```

Removes an item (if present) from the rear of LinkList.

Returns

void

The documentation for this class was generated from the following file:

· LinkList.java

3.2 Node < T > Class Template Reference

Node class for LinkList.

Public Member Functions

```
• Node< T > getPrev ()
```

Getter for prev.

void setPrev (Node < T > prev)

Setter for prev.

Node< T > getNext ()

Getter for prev.

void setNext (Node < T > next)

Setter for next.

• T getValue ()

Getter for value.

• void setValue (T value)

Setter for next.

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Private Attributes

```
    Node< T > prev
```

- Node< T > next
- T value

3.2.1 Detailed Description

Node class for LinkList.

Author

Shivam Sood

This is a generic Node class. It contains methods contains getter and setters for prev and next.

3.2.2 Member Function Documentation

```
3.2.2.1 getNext()
Node<T>Node<T>.getNext()
Getter for prev.
Returns
     Node<t>
3.2.2.2 getPrev()
Node<T> Node< T >.getPrev ( )
Getter for prev.
Returns
     Node<t>
3.2.2.3 getValue()
T Node< T >.getValue ( )
Getter for value.
Returns
     Τ
3.2.2.4 setNext()
void Node< T >.setNext (
             Node < T > next)
```

Setter for next.

Parameters

next	This param is to be set as next.
------	----------------------------------

Returns

void

3.2.2.5 setPrev()

```
void Node< T >.setPrev ( \label{eq:Node} \mbox{Node} < \mbox{T} > \mbox{prev} \mbox{ )}
```

Setter for prev.

Parameters

Returns

Node<t>

3.2.2.6 setValue()

Setter for next.

Parameters

value This	param is to be set as value.
------------	------------------------------

Returns

void

The documentation for this class was generated from the following file:

• LinkList.java

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File Documentation

4.1 LinkList.java File Reference

This file contains both the LinkList class and a Node class.

Classes

```
    class LinkList < T >
        A simple LinkList class.

    class Node < T >
```

Node class for LinkList.

4.1.1 Detailed Description

This file contains both the LinkList class and a Node class.

Author

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```

Version

1.0

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