InLabP2 - LinkList

Generated by Doxygen 1.8.13

Contents

Chapter 1

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 7

Chapter 2

File Index

2.1 File List

Here is a list of all documented files with brief descriptions:

Chapter 3

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.

3.1.2 Member Function Documentation

3.1.2.1 insertFront()

```
void LinkList< T >.insertFront (
             T item )
```

Insert an item to the front of LinkList.

Parameters

item	This item is added to the front.

Returns

void

3.1.2.2 insertRear()

```
void LinkList< T >.insertRear (
             T item )
```

Insert an item to the rear of LinkList.

Parameters

item	This item is added to the rear.

Returns

void

3.1.2.3 main()

```
static void LinkList< T >.main (
             String a[] )  [static]
```

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.

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

T

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 (
            Node< T > prev )
```

Setter for prev.

Parameters

prev	This param is to be set as prev.

Returns

Node<t>

3.2.2.6 setValue()

```
void Node< T >.setValue (
            T value )
```

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

Chapter 4

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

Shivam Sood `ssood@cse.iitb.ac.in`

Version

1.0

Index