

Outlab-07

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Chapter 1

Class Index

1.1 Class List

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

LinkedList< T >	
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Chapter 2

File Index

2.1 File List

Here is a list of all files with brief descriptions:

LinkedList.java	9
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Chapter 3

Class Documentation

3.1 `LinkedList< T >` Class Template Reference

template class representing a linked list

Public Member Functions

- void `insertFront` (T item)
- void `insertRear` (T item)
- void `removeFront` ()
- void `removeRear` ()

Static Public Member Functions

- static void `main` (String a[])

Package Functions

- deque. `removeFront` ()
- deque. `removeFront` ()

Private Attributes

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

3.1.1 Detailed Description

template class representing a linked list

Parameters

<i>T</i>	data type
----------	-----------

3.1.2 Member Function Documentation

3.1.2.1 `void LinkedList< T >.insertFront (T item)` `[inline]`

inserting an element at the front

Parameters

<i>item</i>	the element to be inserted (of type T)
-------------	--

3.1.2.2 `void LinkedList< T >.insertRear (T item)` `[inline]`

inserting an element at the rear

Parameters

<i>item</i>	the element to be inserted (of type T)
-------------	--

3.1.2.3 `static void LinkedList< T >.main (String a[])` `[inline]`, `[static]`

3.1.2.4 `void LinkedList< T >.removeFront ()` `[inline]`

pop an element from the front

3.1.2.5 `deque. LinkedList< T >.removeFront ()` `[package]`

3.1.2.6 `deque. LinkedList< T >.removeFront ()` `[package]`

3.1.2.7 `void LinkedList< T >.removeRear ()` `[inline]`

pop an element from the rear

3.1.3 Member Data Documentation

3.1.3.1 `Node<T> LinkedList< T >.front` `[private]`

[Node](#) pointing to the first member

3.1.3.2 Node<T> LinkedList< T >.rear [private]

[Node](#) pointing to the end

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

- [LinkedList.java](#)

3.2 Node< T > Class Template Reference

template class representing a node in a linked list

Public Member Functions

- [Node< T > getPrev](#) ()
- void [setPrev](#) ([Node< T > prev](#))
- [Node< T > getNext](#) ()
- void [setNext](#) ([Node< T > next](#))
- T [getValue](#) ()
- void [setValue](#) (T [value](#))

Private Attributes

- [Node< T > prev](#)
- [Node< T > next](#)
- T [value](#)

3.2.1 Detailed Description

template class representing a node in a linked list

Parameters

T	data type
-------------------	-----------

3.2.2 Member Function Documentation

3.2.2.1 Node<T> Node< T >.getNext () [inline]

get the next element

3.2.2.2 Node<T> Node< T >.getPrev () [inline]

get the previous element

3.2.2.3 `T Node< T >.getValue ()` `[inline]`

get the value of the node

3.2.2.4 `void Node< T >.setNext (Node< T > next)` `[inline]`

change the next element

Parameters

<i>next</i>	the element to be set as the next node for the current element
-------------	--

3.2.2.5 `void Node< T >.setPrev (Node< T > prev)` `[inline]`

change the previous element

Parameters

<i>prev</i>	the element to be set as the previous node for the current element
-------------	--

3.2.2.6 `void Node< T >.setValue (T value)` `[inline]`

change the value of the node

Parameters

<i>value</i>	new value of the node
--------------	-----------------------

3.2.3 Member Data Documentation**3.2.3.1** `Node<T> Node< T >.next` `[private]`

pointer to the next element

3.2.3.2 `Node<T> Node< T >.prev` `[private]`

pointer to the previous element

3.2.3.3 `T Node< T >.value` `[private]`

value of the node

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

- [LinkedList.java](#)

Chapter 4

File Documentation

4.1 LinkedList.java File Reference

Classes

- class [LinkedList< T >](#)
template class representing a linked list
- class [Node< T >](#)
template class representing a node in a linked list

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