Kolejka

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Chapter 1

Hierarchical Index

1.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

IQueue< E > 7
Queue< E > 9
Node< E > 8

Chapter 2

Class Index

2.1 Class List

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

IQueue< **E** >
Interfejs kolejki 7
Node< **E** >
Klasa węzła kolejki 8
Queue< **E** >
Klasa kolejki 9

Chapter 3

File Index

3.1 File List

Here is a list of all files with brief descriptions:

queue.hh 13
queue1.hh 13
test.cpp 13

Chapter 4

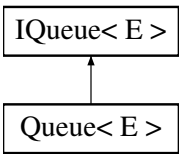
Class Documentation

4.1 IQueue< E > Class Template Reference

Interfejs kolejki.

`#include <queue.hh>`

Inheritance diagram for IQueue< E >:



Public Member Functions

- virtual void **add** (const E &elem)=0
- virtual E **remove** ()=0
- virtual int **size** ()=0
- virtual ~**IQueue** ()

4.1.1 Detailed Description

template<typename E>class IQueue< E >

Interfejs kolejki.

Zawiera metody umożliwiające operacje na kolejce.

Definition at line 10 of file queue.hh.

4.1.2 Constructor & Destructor Documentation

4.1.2.1 template<typename E > virtual IQueue< E >::~IQueue ( ) [inline], [virtual]

Definition at line 17 of file queue.hh.

4.1.3 Member Function Documentation

4.1.3.1 template<typename E > virtual void IQueue< E >::add (const E & *elem*) [pure virtual]

Implemented in **Queue**< **E** > (p. 10).

4.1.3.2 template<typename E > virtual E IQueue< E >::remove ( ) [pure virtual]

Implemented in **Queue**< **E** > (p. 10).

4.1.3.3 template<typename E > virtual int IQueue< E >::size ( ) [pure virtual]

Implemented in **Queue**< **E** > (p. 10).

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

- **queue.hh**

4.2 Node< E > Class Template Reference

Klasa węzła kolejki.

`#include <queue1.hh>`

Private Attributes

- E **elem**
- **Node**< E > * **next**

Friends

- class **Queue**< **E** >

4.2.1 Detailed Description

template<typename E>class Node< E >

Klasa węzła kolejki.

Zawiera element węzła oraz wskaźnik na następny węzeł.

Definition at line 6 of file queue1.hh.

4.2.2 Friends And Related Function Documentation

4.2.2.1 template<typename E> friend class Queue< E > [friend]

Definition at line 18 of file queue1.hh.

4.2.3 Member Data Documentation

4.2.3.1 template<typename E> E Node< E >::elem [private]

Element kolejki

Definition at line 21 of file queue1.hh.

4.2.3.2 template<typename E> Node<E>* Node< E >::next [private]

Wskaźnik na kolejny węzeł

Definition at line 22 of file queue1.hh.

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

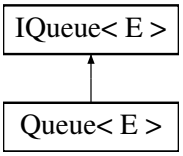
- **queue1.hh**

4.3 Queue< E > Class Template Reference

Klasa kolejki.

`#include <queue1.hh>`

Inheritance diagram for Queue< E >:



Public Member Functions

- **Queue** ()
- ~**Queue** ()
- void **add** (const E &elem)
- E **remove** ()
- int **size** ()
- void **show_queue** ()

Private Attributes

- **Node**< E > * **front**
- **Node**< E > * **end**
- int **queue_size** =0

4.3.1 Detailed Description

template<typename E>class Queue< E >

Klasa kolejki.

Zawiera metody umożliwiające operacje na kolejce.

Definition at line 8 of file queue1.hh.

4.3.2 Constructor & Destructor Documentation

4.3.2.1 template<typename E> Queue< E >::Queue ( ) [inline]

Definition at line 40 of file queue1.hh.

4.3.2.2 template<typename E> Queue< E >::~Queue ( ) [inline]

Definition at line 44 of file queue1.hh.

4.3.3 Member Function Documentation

4.3.3.1 template<typename E > void Queue< E >::add (const E & *elem*) [virtual]

Funkcja dodająca element do kolejki

Parameters

in	*element*	typu E

Implements **IQueue< E >** (p. 8).

Definition at line 81 of file queue1.hh.

4.3.3.2 template<typename E > E Queue< E >::remove ( ) [virtual]

Funkcja usuwająca element z kolejki Wyrzuca wyjątek EmptyQueueException jeśli kolejka jest pusta.

Returns

Element typu E

Implements **IQueue< E >** (p. 8).

Definition at line 99 of file queue1.hh.

4.3.3.3 template<typename E > void Queue< E >::show_queue ( )

Funkcja wyświetlająca kolejkę

Definition at line 120 of file queue1.hh.

4.3.3.4 template<typename E > int Queue< E >::size ( ) [virtual]

Funkcja zwracająca rozmiar kolejki

Returns

Rozmiar kolejki typu int

Implements **IQueue< E >** (p. 8).

Definition at line 115 of file queue1.hh.

4.3.4 Member Data Documentation

4.3.4.1 template<typename E> Node<E>* Queue< E >::end [private]

Wskaźnik na koniec kolejki

Definition at line 36 of file queue1.hh.

4.3.4.2 template<typename E> Node<E>* Queue< E >::front [private]

Wskaźnik na początek kolejki

Definition at line 35 of file queue1.hh.

4.3.4.3 template<typename E> int Queue< E >::queue_size =0 [private]

Rozmiar kolejki

Definition at line 37 of file queue1.hh.

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

- **queue1.hh**

Chapter 5

File Documentation

5.1 queue.hh File Reference

Classes

- class **IQueue**< **E** >

  Interfejs kolejki.

5.2 queue1.hh File Reference

```
#include "queue.hh"
```

Classes

- class **Node**< **E** >

  Klasa węzła kolejki.
- class **Queue**< **E** >

  Klasa kolejki.
- class **Node**< **E** >

  Klasa węzła kolejki.
- class **Queue**< **E** >

  Klasa kolejki.

5.3 test.cpp File Reference

```
#include <iostream>
#include "queue.hh"
#include "queue1.hh"
```

Functions

- int **main** ()

5.3.1 Function Documentation

5.3.1.1 int main ( )

Definition at line 5 of file test.cpp.

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