

Stos

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Chapter 1

Hierarchical Index

1.1 Class Hierarchy

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

IStack< E >	7
Stack< E >	9
Node< E >	8

Chapter 2

Class Index

2.1 Class List

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

IStack< E >	
Interfejs stosu	7
Node< E >	
Klasa węzła stosu	8
Stack< E >	
Klasa stosu	9

Chapter 3

File Index

3.1 File List

Here is a list of all files with brief descriptions:

stack.hh	13
stack1.hh	13
test.cpp	13

Chapter 4

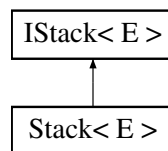
Class Documentation

4.1 IStack< E > Class Template Reference

Interfejs stosu.

```
#include <stack.hh>
```

Inheritance diagram for IStack< E >:



Public Member Functions

- virtual void **push** (const E &elem)=0
- virtual E **pop** ()=0
- virtual int **size** ()=0
- virtual ~IStack ()

4.1.1 Detailed Description

```
template<typename E>class IStack< E >
```

Interfejs stosu.

Zawiera metody umożliwiające operacje na stosie.

Definition at line 10 of file stack.hh.

4.1.2 Constructor & Destructor Documentation

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

Definition at line 17 of file stack.hh.

4.1.3 Member Function Documentation

4.1.3.1 `template<typename E> virtual E IStack<E>::pop () [pure virtual]`

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

4.1.3.2 `template<typename E> virtual void IStack<E>::push (const E & elem) [pure virtual]`

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

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

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

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

- **stack.hh**

4.2 Node<E> Class Template Reference

Klasa węzła stosu.

```
#include <stack1.hh>
```

Private Attributes

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

Friends

- class **Stack<E>**

4.2.1 Detailed Description

```
template<typename E> class Node<E>
```

Klasa węzła stosu.

Zawiera element węzła oraz wskaźnik na następny węzeł.

Definition at line 6 of file stack1.hh.

4.2.2 Friends And Related Function Documentation

4.2.2.1 `template<typename E> friend class Stack<E> [friend]`

Definition at line 18 of file stack1.hh.

4.2.3 Member Data Documentation

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

Element listy

Definition at line 21 of file stack1.hh.

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

Wskaźnik na kolejny węzeł

Definition at line 22 of file stack1.hh.

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

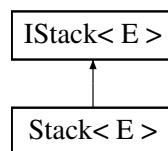
- **stack1.hh**

4.3 Stack< E > Class Template Reference

Klasa stosu.

```
#include <stack1.hh>
```

Inheritance diagram for Stack< E >:



Public Member Functions

- **Stack** ()
- **~Stack** ()
- void **push** (const E &elem)
- E **pop** ()
- int **size** ()
- void **show_stack** ()

Private Attributes

- **Node< E > * top**
- int **stack_size** =0

4.3.1 Detailed Description

```
template<typename E>class Stack< E >
```

Klasa stosu.

Zawiera metody umożliwiające operacje na stosie.

Definition at line 8 of file stack1.hh.

4.3.2 Constructor & Destructor Documentation

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

Definition at line 40 of file stack1.hh.

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

Definition at line 43 of file stack1.hh.

4.3.3 Member Function Documentation

4.3.3.1 `template<typename E > E Stack< E >::pop () [virtual]`

Funkcja usuwająca element ze stosu Wyrzuca wyjątek `EmptyStackException` jeśli stos jest pusty.

Returns

Element typu E

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

Definition at line 89 of file stack1.hh.

4.3.3.2 `template<typename E > void Stack< E >::push (const E & elem) [virtual]`

Funkcja dodająca element na szczyt stosu

Parameters

in	<i>element</i>	typu E
----	----------------	--------

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

Definition at line 80 of file stack1.hh.

4.3.3.3 `template<typename E > void Stack< E >::show_stack ()`

Funkcja wyświetlająca stos

Definition at line 110 of file stack1.hh.

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

Funkcja zwracająca rozmiar stosu.

Returns

Rozmiar stosu typu int

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

Definition at line 105 of file stack1.hh.

4.3.4 Member Data Documentation

4.3.4.1 `template<typename E> int Stack< E >::stack_size=0 [private]`

Rozmiar stosu

Definition at line 37 of file stack1.hh.

4.3.4.2 `template<typename E> Node<E>* Stack< E >::top` [private]

Wskaźnik na szczyt stosu

Definition at line 36 of file stack1.hh.

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

- **stack1.hh**

Chapter 5

File Documentation

5.1 stack.hh File Reference

Classes

- class **IStack**< **E** >
Interfejs stosu.

5.2 stack1.hh File Reference

```
#include "stack.hh"
```

Classes

- class **Node**< **E** >
Klasa węzła stosu.
- class **Stack**< **E** >
Klasa stosu.
- class **Node**< **E** >
Klasa węzła stosu.
- class **Stack**< **E** >
Klasa stosu.

5.3 test.cpp File Reference

```
#include <iostream>  
#include "stack.hh"  
#include "stack1.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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