Stack

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1 Class Index

1.1 Class List

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

2 File Index

2.1 File List

Here is a list of all files with brief descriptions:

3 Class Documentation

3.1 Stack::Node Class Reference

Public Member Functions

- **Node** (**StackElement** value, **Node** ∗link=0)

Public Attributes

- **StackElement data**
- **Node** ∗ **next**

3.1.1 Constructor & Destructor Documentation

3.1.1.1 Node()

```
Stack::Node::Node (
        StackElement value,
        Node * link = 0 )  [inline]
```

3.1.2 Member Data Documentation

3.1.2.1 data

```
StackElement Stack::Node::data
```

3.1.2.2 next

```
Node* Stack::Node::next
```

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

- **Stack.h**

3.2 Stack Class Reference

```
#include <Stack.h>
```

Classes

- class **Node**

Public Member Functions

- **Stack** ()
- **Stack** (const **Stack** &original)
- ∼**Stack** ()
- const **Stack** & **operator=** (const **Stack** &rightHandSide)
- bool **empty** () const
- void **push** (const **StackElement** &value)
- void **display** (ostream &out) const
- **StackElement top** () const
- void **pop** ()

Private Types

- typedef **Node** ∗ **NodePointer**

Private Attributes

- **NodePointer myTop**

3.2.1 Member Typedef Documentation

3.2.1.1 NodePointer `typedef Node* Stack::NodePointer [private]`

3.2.2 Constructor & Destructor Documentation

3.2.2.1 Stack() `[1/2] Stack::Stack ( )`

3.2.2.2 Stack() `[2/2] Stack::Stack ( const Stack & original )`

3.2.2.3 ∼Stack() `Stack::∼Stack ( )`

3.2.3 Member Function Documentation

3.2.3.1 display() `void Stack::display ( ostream & out ) const`

3.2.3.2 empty() `bool Stack::empty ( ) const`

3.2.3.3 operator=() `const Stack & Stack::operator= ( const Stack & rightHandSide )`

3.2.3.4 pop() `void Stack::pop ( )`

3.2.3.5 push() `void Stack::push ( const StackElement & value )`

3.2.3.6 top() `StackElement Stack::top ( ) const`

3.2.4 Member Data Documentation

3.2.4.1 myTop `NodePointer Stack::myTop [private]`

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

- **Stack.h**
- **Stack.cpp**

4 File Documentation

4.1 driver.cpp File Reference

```
#include <iostream>
#include "Stack.h"
#include <cstdio>
```

Functions

- int **main** (void)

4.1.1 Function Documentation

4.1.1.1 main() `int main ( void )`

4.2 Stack.cpp File Reference

```
#include "stack.h"
#include <new>
#include <iostream>
```

4.3 Stack.h File Reference

```
#include <iostream>
```

Classes

- class **Stack**
- class **Stack::Node**

Macros

- #define **STACK**

Typedefs

- typedef int **StackElement**

4.3.1 Macro Definition Documentation

4.3.1.1 STACK `#define STACK`

4.3.2 Typedef Documentation

4.3.2.1 StackElement `typedef int StackElement`

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