

Stack

1

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1 Class Index	1
1 Class Index	1
1.1 Class List	1
2 File Index	1
2.1 File List	1
3 Class Documentation	2
3.1 Stack::Node Class Reference	2
3.1.1 Constructor & Destructor Documentation	2
3.1.2 Member Data Documentation	2
3.2 Stack Class Reference	2
3.2.1 Member Typedef Documentation	3
3.2.2 Constructor & Destructor Documentation	3
3.2.3 Member Function Documentation	4
3.2.4 Member Data Documentation	4
4 File Documentation	5
4.1 driver.cpp File Reference	5
4.1.1 Function Documentation	5
4.2 Stack.cpp File Reference	5
4.3 Stack.h File Reference	5
4.3.1 Macro Definition Documentation	6
4.3.2 Typedef Documentation	6
Index	7

1 Class Index

1.1 Class List

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

Stack::Node	2
Stack	2

2 File Index

2.1 File List

Here is a list of all files with brief descriptions:

driver.cpp	5
Stack.cpp	5

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`

Index

- ~Stack
 - Stack, 3
- data
 - Stack::Node, 2
- display
 - Stack, 4
- driver.cpp, 5
 - main, 5
- empty
 - Stack, 4
- main
 - driver.cpp, 5
- myTop
 - Stack, 4
- next
 - Stack::Node, 2
- Node
 - Stack::Node, 2
- NodePointer
 - Stack, 3
- operator=
 - Stack, 4
- pop
 - Stack, 4
- push
 - Stack, 4
- STACK
 - Stack.h, 6
- Stack, 2
 - ~Stack, 3
 - display, 4
 - empty, 4
 - myTop, 4
 - NodePointer, 3
 - operator=, 4
 - pop, 4
 - push, 4
 - Stack, 3
 - top, 4
- Stack.cpp, 5
- Stack.h, 5
 - STACK, 6
 - StackElement, 6
- Stack::Node, 2
 - data, 2
 - next, 2
 - Node, 2
- StackElement
 - Stack.h, 6
- top
 - Stack, 4