stackarray

0.1.0

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Chapter 1

File Index

1.1 File List

Here is a list of all files with brief descriptions:

Chapter 2

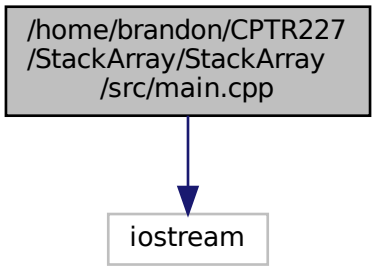
File Documentation

2.1 /home/brandon/CPTR227/StackArray/StackArray/src/main.cpp File Reference

Stack data type implementation.

```
#include <iostream>
```

Include dependency graph for main.cpp:



Functions

- void Push (int S[ ], int &T)
- void Pop (int S[ ], int &T)
- void StackDisplay (int S[ ], int T)
- int main ()

Variables

- const int Max =5

2.1.1 Detailed Description

Stack data type implementation.

This is a implementation of an integer Stack data type using an integer array.

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Date

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2.1.2 Function Documentation

2.1.2.1 main()

```
int main ( )
```

Definition at line 38 of file main.cpp.

```
39 {
40
41 int Stack[Max],Top=-1;
42 char Ch;
43 do
44 {
45     cout«"a[add] d[delete] s[show] q[quit] :";
46     cin»Ch;
47     switch(Ch)
48     {
49         case 'a':Push(Stack,Top);
50                  break;
51         case 'd':Pop(Stack,Top);
52                  break;
53         case 's':StackDisplay(Stack,Top);
54                  break;
55     }
56 }
57 while (Ch!='q');
58 cout«"Thank you for using our program!"«endl;
59 return 0;
60 }
```

2.1.2.2 Pop()

```
void Pop (
              int S[],
              int & T )
```

Definition at line 24 of file main.cpp.

```
25 {
26     if (T!=-1) //Checking for Stack not Empty
27     {
28         cout«S[T--]«" Deleted!"«endl;
29     }
30     else
31         cout«"Stack is Empty!"«endl;
32 }
```

2.1.2.3 Push()

```
void Push (
              int S[],
              int & T )
```

Definition at line 14 of file main.cpp.

```
15 {
16     if (T<Max-1) //Checking for Stack not Full
17     {
18         cout«"Integer:";
19         cin»S[++T];
20     }
21     else
22         cout«"Stack is Full!"«endl;
23 }
```

2.1.2.4 StackDisplay()

```
void StackDisplay (
              int S[],
              int T )
```

Definition at line 33 of file main.cpp.

```
34 {
35     for (int I=T;I>=0;I--)
36         cout«S[I]«endl;
37 }
```

2.1.3 Variable Documentation

2.1.3.1 Max

```
const int Max =5
```

Definition at line 13 of file main.cpp.

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