C:\Users\Dell\Documents\stack operation.cpp - Dev-C++ 5.11

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(globals)

Project Classes Debug

[*] Untitled1 | quea.cpp | maintanace.cpp | binary tree.cpp | fabbnoic without recursion.cpp | fabnocci with recursion.cpp | linked list implementation.cpp | stack operation.cpp

```
1   #include <stdio.h>
2
3   int MAXSIZE = 8;
4   int stack[8];
5   int top = -1;
6
7   int isempty() {
8
9      if(top == -1)
10        return 1;
11     else
12        return 0;
13  }
14
15  int isfull() {
16
17     if(top == MAXSIZE)
18        return 1;
19     else
20        return 0;
21  }
22
23  int peek() {
24     return stack[top];
25  }
26
27  int pop() {
28     int data;
29
30     if(!isempty()) {
31        data = stack[top];
32        top = top - 1;
33        return data;
34     } else {
35        printf("Could not retrieve data, Stack is empty.\n");
36     }
37  }
38
39  int push(int data) {
40
```

Line: 70 Col: 1 Sel: 0 Lines: 70 Length: 1112 Insert Done parsing in 0.016 seconds

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```
31          data = stack[top];
32          top = top - 1;
33          return data;
34      } else {
35          printf("Could not retrieve data, Stack is empty.\n");
36      }
37  }
38
39  int push(int data) {
40
41      if(!isfull()) {
42          top = top + 1;
43          stack[top] = data;
44      } else {
45          printf("Could not insert data, Stack is full.\n");
46      }
47  }
48
49  int main() {
50
51      push(3);
52      push(5);
53      push(9);
54      push(1);
55      push(12);
56      push(15);
57
58      printf("Element at top of the stack: %d\n" ,peek());
59      printf("Elements: \n");
60      while(!isempty()) {
61          int data = pop();
62          printf("%d\n",data);
63      }
64
65      printf("Stack full: %s\n" , isfull()?"true":"false");
66      printf("Stack empty: %s\n" , isempty()?"true":"false");
67
68      return 0;
69  }
70
```

Line: 48 Col: 1 Sel: 0 Lines: 70 Length: 1112 Insert Done parsing in 0.016 seconds

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C:\Users\Dell\Documents\stack operation.exe

```
Element at top of the stack: 15
Elements:
15
12
1
9
5
3
Stack full: false
Stack empty: true

--------------------------------
Process exited after 0.01509 seconds with return value 0
Press any key to continue . . .
```