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Stack using arrays

Problem Submissions Leaderboard Discussions

Certify

Write a Java program to implement the Standard Write push(), pop(), and display() methods to demonstrate its working.

______ Write push(), pop(), and display() methods to demonstrate its working.

Input Format

3 1 53 1 68 1 20 2 2 2 3 4

Constraints

size of stack should be positive

Output Format

pushed element 53 pushed element 68 pushed element 20 Popped element 20 Popped element 68 Popped element 53 Stack Empty

Sample Input 0

3 1

53

1 68

68

20

2

2

Sample Output 0

pushed element 53

pushed element 68

pushed element 20

Popped element 20

Popped element 68

Popped element 53

Stack Empty

f ¥ i

Contest ends in 2 months

Submissions: 107 Max Score: 10 Difficulty: Medium

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```
Java 7
                                                                                                       Ö
 1 //224G1A0553
 2 vimport java.io.∗;
 3 import java.util.*;
 4 import java.text.*;
 5 import java.math.*;
 6 import java.util.regex.*;
 7 ▼public class Solution {
        static int top = -1;
 8
        static int arr[] = new int[50];
 9 🔻
        public void push(int num, int ele) {
10 ₹
11 🔻
            if (top == num - 1) {
                System.out.println("Stack is overflow");
12
13 •
            } else {
14
                top++;
15 ₹
                arr[top] = ele;
                System.out.println("pushed element "+ele);
16
17
            }}
18 ▼
        public void pop() {
19 ▼
            if (top == -1) {
                System.out.println("Stack is underflow");
20
21 ▼
                System.out.println("Popped element " + arr[top]);
22 ▼
23
                top--;
24
            }}
25
26 🔻
        public void display(int[] arr2, int num) {
27 ▼
            if (top < 0) {
                System.out.print("Stack Empty");
28
29 ₹
            } else {
30
                System.out.print("ELEMENTS : ");
31 🔻
                for (int i = top; i >= 0; i--) {
32 🔻
                     System.out.print(arr2[i] + " ");
33
                }}
34
            System.out.println();
35
        }
36
37 •
        public static void main(String[] args) {
38
            Solution su = new Solution();
            Scanner sc = new Scanner(System.in);
39
40
            int num, opt;
41
            //System.out.print("Enter size of stack : ");
42
43
            num = sc.nextInt();
            Boolean kl = true;
44
            //System.out.println("Options\n1.PUSH\t2.POP\t3.DISPLAY\t4.EXIT");
45
46 •
            while (kl) {
47
                //System.out.print("Enter option :");
48
                opt = sc.nextInt();
49 ₹
                switch (opt) {
                case 1:
50
                     //System.out.print("Enter element : ");
51
52
                     ele = sc.nextInt();
53
                    su.push(num, ele);
54
                    break:
55
                case 2:
56
                     su.pop();
57
                    break;
                case 3:
58
59
                     su.display(arr, num);
60
                    break;
```

```
61
                    case 4:
  62
                         kl = false;
  63
                         //System.out.println("EXIT");
                         break;
  64
                    default:
  65
                         //System.out.println("Enter a valid option between 1-4");
  66
  67
                         break;
                    }}}
  68
                                                                                                           Line: 29 Col: 17
<u>♣ Upload Code as File</u> Test against custom input
                                                                                              Run Code
                                                                                                            Submit Code
 Testcase 0 ✓
 Congratulations, you passed the sample test case.
 Click the Submit Code button to run your code against all the test cases.
 Input (stdin)
  3
  1
  53
   1
   68
   1
  20
   2
  2
  2
  3
   4
 Your Output (stdout)
   pushed element 53
  pushed element 68
   pushed element 20
   Popped element 20
   Popped element 68
   Popped element 53
   Stack Empty
  Expected Output
   pushed element 53
   pushed element 68
   pushed element 20
  Popped element 20
   Popped element 68
   Popped element 53
   Stack Empty
```

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