## Stack Operation

```
#include <stdio.h>
 1
    int cap=10;
 3
    int top=-1;
 4
    int isfull(){
         return (top+1) ==cap;
 6
 7
     int isempty(){
 8
       return top==-1;
 9
10
    void push(int *b,int x) {
11
         if(isfull()){
12
             printf("Stack Overflow"); \If it is full show an this message
13
14
        top++;
15
16
       b[top]=x;
17
    int pop(int *b) {
18
19
         if(isempty()){
             printf("Cannot do pop operation");
20
21
             return;
22
23
         top--;
24
2.5
26
    int peek(int *b){
27
     return b[top];
2.8
    void display(int *b) {
       for(int i=0;i<top+1;i++) {</pre>
30
31
         printf("%d ",b[i]);
32
33
    int main() {
3.5
36
         int a,f,m,l;
37
         scanf("%d",&a);
38
39
         int b[cap];
         for(int i=0;i<a;i++) {</pre>
40
41
             scanf("%d",&b[i]);
42
           top++;
43
44
         do {
           printf("Enter 1.push 2.pop 3.peek 4.display 5.Exit\n");
45
46
           scanf("%d",&m);
47
48
           switch (m) {
49
             case 1:
5.0
                  printf("Enter the element you want to push:\n");
                  scanf("%d",&1);
52
                  push(b,1);
53
                 break;
54
             case 2:
5.5
                  pop(b);
                 break;
57
             case 3:
58
                  printf("The peek element is %d\n",peek(b));
59
                 break;
60
             case 4:
                  display(b);
61
62
                  break;
         } while (m!=5);
64
65
66
67
68
69
70
         return 0;
71
    }
72
```

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**CSE** 

## **OUTPUT**

