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main.c
1 #include <stdio.h>
2 #include <stdlib.h>
3 #define STACK_SIZE 5
4 int top=-1;
5 int s[10];
6 int item;
7 void push()
8 {
9     if(top==STACK_SIZE-1)
10    {
11        printf("\nSTACK OVERFLOW\n");
12        return;
13    }
14    top+=1;
15    s[top]=item;
16 }
17 int pop()
18 {
19     if(top==-1)
20         return -1;
21     return s[top--];
22 }
23 void display()
24 {
25     int i;
--     ..
```

```
22 }
23 void display()
24 {
25     int i;
26     if(top==-1)
27     {
28         printf("\nStack is empty\n");
29         return;
30     }
31     printf("The contents fo the stack are:\n");
32     for (i=0;i<=top;i++)
33     {
34         printf("%d\n",s[i]);
35     }
36 }
37 void main()
38 {
39     int item_deleted,choice;
40     while(1)
41     {
42         printf("\n1: Push\n2: Pop\n3: Display\n4: EXIT\n");
43         printf("Enter your choice:");
44         scanf("%d",&choice);
45         switch(choice)
46         {
```



stackwriteup.pdf.pdf

```
44     scanf("%d",&choice);
45     switch(choice)
46     {
47         case 1:
48             printf("\nEnter the item to be inserted:");
49             scanf("%d",&item);
50             push();
51             break;
52         case 2:
53             item_deleted=pop();
54             if(item_deleted== -1)
55             {
56                 printf("\nStack is empty\n");
57             }
58             else
59             {
60                 printf("\nThe item deleted is %d\n",item_deleted);
61             }
62             break;
63         case 3:
64             display();
65             break;
66         default:exit(0);
67     }
68 }
```

main.c

```
58     else
59     {
60         printf("\nThe item deleted is %d\n",item_deleted);
61     }
62     break;
63     case 3:
64     display();
65     break;
66     default:exit(0);
67
68 }
69 }
70 }
71 }
72 }
73 }
```