









The screenshot shows an online C compiler interface. At the top, there is a toolbar with buttons for Run, Debug, Stop, Share, Save, Beautify, and Download. The language is set to C. The code is in a file named main.c and implements a stack using an array.

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 # define STACK_SIZE 3
4 int top = -1;
5 int s[10];
6 int item;
7
8 void push()
9 {
10     if (top==STACK_SIZE-1)
11     {
12         printf("Stack over_flow\n");
13         return;
14     }
15     top=top+1;
16     s[top]=item;
17 }
18
19 int pop()
20 {
21     if (top== -1)
22         return -1;
23     return s[top--];
24 }
25
26 void display()
27 {
28     int i;
29     if(top== -1)
30     {
31         printf("Stack is underflow\n");
32         return;
33     }
34     printf("contents of the stack\n");
35     for (i=top;i>=0;i--)
36     {
```

```
36 {
37     printf("%d\n",s[i]);
38 }
39 }
40
41 void main()
42 {
43     int item_deleted;
44     int choice;
45     printf("Welcome to the stack operation in Data structure\n");
46
47     for(;;)
48     {
49         printf("\n 1:push \n 2:pop \n 3:display \n 4:exit\n" );
50         printf("enter the choice\n");
51         scanf("%d",&choice);
52
53         switch(choice)
54         {
55             case 1: printf("enter the item to be inserted\n");
56                     scanf("%d",&item);
57                     push();
58                     break;
59             case 2: item_deleted=pop();
60                     if(item_deleted==-1)
61                         printf("Stack is empty\n");
62                     else
63                         printf("item_deleted is %d\n",item_deleted);
64                     break;
65             case 3: display();
66                     break;
67             default : exit(0);
68         }
69     }
70 }
71 }
```

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main.c

```
38 }
39 }
40
41 void main()
42 {
```

input

Welcome to the stack operation in Data structure

1:push
2:pop
3:display
4:exit
enter the choice
1
enter the item to be inserted
23
1:push
2:pop
3:display
4:exit
enter the choice
1
enter the item to be inserted
24
1:push
2:pop
3:display
4:exit
enter the choice
1
enter the item to be inserted
24

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```
38     }  
39 }  
40  
41 void main()  
42 {
```

input

```
24  
  
1:push  
2:pop  
3:display  
4:exit  
enter the choice  
1  
enter the item to be inserted  
12  
Stack over_flow  
  
1:push  
2:pop  
3:display  
4:exit  
enter the choice  
2  
item_deleted is 24  
  
1:push  
2:pop  
3:display  
4:exit  
enter the choice  
2  
item_deleted is 24
```



```
38     }  
39 }  
40  
41 void main()  
42 {
```

input

```
1:push  
2:pop  
3:display  
4:exit  
enter the choice  
2  
item_deleted is 23
```

```
1:push  
2:pop  
3:display  
4:exit  
enter the choice  
2  
Stack is empty
```

```
1:push  
2:pop  
3:display  
4:exit  
enter the choice  
3  
Stack is underflow
```

```
1:push  
2:pop  
3:display
```


```
input
3:display
4:exit
enter the choice
3
Stack is underflow

1:push
2:pop
3:display
4:exit
enter the choice
3
Stack is underflow

1:push
2:pop
3:display
4:exit
enter the choice
3
Stack is underflow

1:push
2:pop
3:display
4:exit
enter the choice
4
```

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Run

Debug

Stop

Share

Save

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main.c

```
38 }
39 }
40
41 void main()
42 {
```

input

```
Stack is underflow
1:push
2:pop
3:display
4:exit
enter the choice
3
Stack is underflow
1:push
2:pop
3:display
4:exit
enter the choice
3
Stack is underflow
1:push
2:pop
3:display
4:exit
enter the choice
4
...Program finished with exit code 0
Press ENTER to exit console.
```