



OnlineGDB beta

online compiler and debugger for c/c++

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Language C



main.c

```
1 #include<stdio.h>
2 #define MAX 10
3 void Push(int a[],int *top)
4 {
5     if(*top == MAX-1)
6         printf("Stack full\n");
7     else
8     {
9         *top+=1;
10        printf("Enter num\n");
11        scanf("%d",&a[*top]);
12    }
13 }
14 void Pop(int a[],int *top)
15 {
16     if(*top==1)
17         printf("Stack empty\n");
18     else{
19         printf("%d is getting deleted\n",a[*top]);
20         *top-=1;
21     }
22 }
23 void Peek(int a[],int *top)
24 {
25     if(*top==1)
26         printf("Stack empty\n");
27     else
28         printf("%d is top element\n",a[*top]);
29 }
30 void Display(int a[],int *top)
31 {
32     if(*top==1)
33         printf("Empty\n");
34     else
35         for(int temp=(*top);temp!=-1;temp--)
36         {
37             printf("%d\n",a[temp]);
38         }
39 }
40 int main()
41 {
42     int a[10],top=-1,c=0,temp;
43     do
44     {
```



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Language C



main.c

```
31 {
32     if(*top==1)
33         printf("Empty\n");
34     else
35         for(int temp=(*top);temp!=-1;temp--)
36         {
37             printf("%d\n",a[temp]);
38         }
39 }
40 int main()
41 {
42     int a[10],top=-1,c=0,temp;
43     do
44     {
45         printf("\n stack Operations"
46             "\n 1.Push"
47             "\n 2.Pop"
48             "\n 3.Display"
49             "\n 4.Display"
50             "\n 0.Exit");
51         printf("Enter a choice: ");
52         scanf("%d",&c);
53
54         switch(c)
55         {
56             case 1:
57                 Push(a,&top);
58                 break;
59             case 2:
60                 Pop(a,&top);
61                 break;
62             case 3:
63                 Peek(a,&top);
64                 break;
65             case 4:
66                 Display(a,&top);
67                 break;
68             case 0:
69                 return 0;
70             default:
71                 printf("Wrong choice\n");
72         }
73     }while(c);
74 }
```



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input

```
stack Operations
1.Push
2.Pop
3.Display
4.Display
0.ExitEnter a choice: 1
Enter num
1
```

```
stack Operations
1.Push
2.Pop
3.Display
4.Display
0.ExitEnter a choice: 1
Enter num
2
```

```
stack Operations
1.Push
2.Pop
3.Display
4.Display
0.ExitEnter a choice: 1
Enter num
3
```

```
stack Operations
1.Push
2.Pop
3.Display
4.Display
0.ExitEnter a choice: 3
3 is top element
```

```
stack Operations
1.Push
2.Pop
3.Display
4.Display
0.ExitEnter a choice: 4
```

```
3
2
1
```

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input

```
stack Operations
1.Push
2.Pop
3.Display
4.Display
0.ExitEnter a choice: 1
Enter num
3
```

```
stack Operations
1.Push
2.Pop
3.Display
4.Display
0.ExitEnter a choice: 3
3 is top element
```

```
stack Operations
1.Push
2.Pop
3.Display
4.Display
0.ExitEnter a choice: 4
3
2
1
```

```
stack Operations
1.Push
2.Pop
3.Display
4.Display
0.ExitEnter a choice: 2
3 is getting deleted
```

```
stack Operations
1.Push
2.Pop
3.Display
4.Display
0.ExitEnter a choice: 0
```

```
...Program finished with exit code 0
Press ENTER to exit console.
```



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main.c Run Debug Stop Share Save Beautify

Language C



```
1 #include<stdio.h>
2 #define MAX 10
3 typedef struct{
4     int data;
5 }st;
6 void PUSH(st arr[],int *top)
7 {
8     if(*top==MAX-1)
9         printf("Stack is full\n");
10    else{
11        *top +=1;
12        printf("Enter the element:");
13        scanf("%d",&arr[(*top)].data);
14    }
15 }
16 void POP(st arr[],int *top)
17 {
18     if(*top==0)
19         printf("Stack is empty\n");
20     else
21     {
22         printf("%d is being deleted\n",arr[(*top)].data);
23         *top-=1;
24     }
25 }
26 void PEEK(st arr[],int *top)
27 {
28     if(*top==0)
29         printf("Stack is empty\n");
30     else
31         printf("%d is the top element\n",arr[(*top)].data);
32 }
33 void DISPLAY(st arr[],int *top)
34 {
35     if(*top==0)
36         printf("Stack is full nothing to display\n");
37     else
38         printf("Elements in stack are:\n");
39         for(int i=(*top);i>=0;i--)
40             printf("%d\n",arr[i].data);
41 }
42 int main()
43 {
```

Input

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Language C



main.c

```
30     else
31         printf("%d is the top element\n",arr[*top].data);
32     }
33 void DISPLAY(st arr[],int *top)
34 {
35     if(*top== -1)
36         printf("Stack is full nothing to display\n");
37     else
38         printf("Elements in stack are:\n");
39         for(int i=(*top);i!=-1;i--)
40             printf("%d\n",arr[i].data);
41 }
42 int main()
43 {
44     st arr[MAX];
45     int top=-1,c=0;
46     do
47     {
48         printf("Stack operations:\n1.PUSH\n2.POP\n3.PEEK\n4.DISPLAY\n0.EXIT\n");
49         printf("\nEnter your choice:\n");
50         scanf("%d",&c);
51     }
52     switch(c)
53     {
54         case 1:
55             PUSH(arr,&top);
56             break;
57         case 2:
58             POP(arr,&top);
59             break;
60         case 3:
61             PEEK(arr,&top);
62             break;
63         case 4:
64             DISPLAY(arr,&top);
65             break;
66         case 0:
67             return 0;
68         default:
69             printf("Invalid choice\n");
70     }
71 }while(c);
72 }
```

input



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input

Stack operations:

1.PUSH
2.POP
3.PEEK
4.DISPLAY
0.EXIT

Enter your choice:

1

Enter the element:2

Stack operations:

1.PUSH
2.POP
3.PEEK
4.DISPLAY
0.EXIT

Enter your choice:

1

Enter the element:3

Stack operations:

1.PUSH
2.POP
3.PEEK
4.DISPLAY
0.EXIT

Enter your choice:

1

Enter the element:4

Stack operations:

1.PUSH
2.POP
3.PEEK
4.DISPLAY
0.EXIT

Enter your choice:

2

4 is being deleted

Stack operations:

1.PUSH
2.POP
3.PEEK
4.DISPLAY



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input

Enter the element:4

Stack operations:

1.PUSH

2.POP

3.PEEK

4.DISPLAY

0.EXIT

Enter your choice:

2

4 is being deleted

Stack operations:

1.PUSH

2.POP

3.PEEK

4.DISPLAY

0.EXIT

Enter your choice:

3

3 is the top element

Stack operations:

1.PUSH

2.POP

3.PEEK

4.DISPLAY

0.EXIT

Enter your choice:

4

Elements in stack are:

3

2

Stack operations:

1.PUSH

2.POP

3.PEEK

4.DISPLAY

0.EXIT

Enter your choice:

0

...Program finished with exit code 0

Press ENTER to exit console.