

Program for Stack in C [Push, Pop] ×

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stack overflow and stack underfl ×

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Language C

main.c

```
12 int pop(int a[])
13 { int ele;
14   if(TOP==1)
15     printf("\nStack Underflow");
16   else
17     { ele=a[TOP];
18       TOP--;
19       return ele;
20     }
21 }
22
23 void display(int a[])
24 { printf("The elements are:\n");
25   for(int i=0;i<=TOP;i++)
26     {printf("%d\n",a[i]);}
27 }
28
29 int main()
30 { int ch,ele,a[5],n=20;
31   do
32   {printf("\n1. PUSH\n2. POP\n3. DISPLAY\n4. EXIT\nEnter your choice:\n");
33     scanf("%d",&ch);
34     switch(ch)
35     { case 1 :printf("Enter the element to be pushed: ");
36               scanf("%d",&ele);
37               push(a,ele,n);
38               break;
39               case 2 :ele=pop(a);
40                       printf("\nElement : %d is popped off the stack.",ele);
41                       break;
42               case 3 :display(a);
43                       break;
44               default:if(ch!=4)
45                       printf("Enter valid option.");
46     }
47   }while(ch!=4);
48   return 0;
49 }
```

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main.c

23 void display(int a[])

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Language C

input

Element : 6 is popped off the stack.

1. PUSH

2. POP

3. DISPLAY

4. EXIT

Enter your choice:

2

Stack Underflow

Element : 16 is popped off the stack.

1. PUSH

2. POP

3. DISPLAY

4. EXIT

Enter your choice:

2

Stack Underflow

Element : 16 is popped off the stack.

1. PUSH

2. POP

3. DISPLAY

4. EXIT

Enter your choice:

3

The elements are:

1. PUSH

2. POP

3. DISPLAY

4. EXIT

Enter your choice:

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main.c

23 void display(int a[])

input

1. PUSH  
2. POP  
3. DISPLAY  
4. EXIT  
Enter your choice:  
1  
Enter the element to be pushed: 6  
  
1. PUSH  
2. POP  
3. DISPLAY  
4. EXIT  
Enter your choice:  
1  
< Enter the element to be pushed: 5  
  
1. PUSH  
2. POP  
3. DISPLAY  
4. EXIT  
Enter your choice:  
2  
  
Element : 5 is popped off the stack.  
1. PUSH  
2. POP  
3. DISPLAY  
4. EXIT  
Enter your choice:  
1  
Enter the element to be pushed: 2

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main.c

23 void display(int a[])

Run

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Beautify

Language C

input

3. DISPLAY

4. EXIT

Enter your choice:

1

Enter the element to be pushed: 2

1. PUSH

2. POP

3. DISPLAY

4. EXIT

Enter your choice:

2

Element : 2 is popped off the stack.

1. PUSH

2. POP

3. DISPLAY

4. EXIT

Enter your choice:

2

Element : 6 is popped off the stack.

1. PUSH

2. POP

3. DISPLAY

4. EXIT

Enter your choice:

2

Stack Underflow

Element : 16 is popped off the stack.

1. PUSH

2. POP



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Language C

main.c

```
1 #include <stdio.h>
2 int TOP=-1;
3 void push(int a[],int ele,int n)
4 { if(TOP==n-1)
5   printf("\nStack Overflow");
6   else
7   { TOP++;
8     a[TOP]=ele;
9   }
10 }
11
12 int pop(int a[])
13 { int ele;
14   if(TOP==-1)
15     printf("\nStack Underflow");
16   else
17   { ele=a[TOP];
18     TOP--;
19     return ele;
20   }
21 }
22
23 void display(int a[])
24 { printf("The elements are:\n");
25   for(int i=0;i<=TOP;i++)
26     {printf("%d\n",a[i]);}
27 }
28
29 int main()
30 { int ch,ele,a[5],n=20;
31   do
32   {printf("\n1. PUSH\n2. POP\n3. DISPLAY\n4. EXIT\nEnter your choice:\n");
33     scanf("%d",&ch);
34     switch(ch)
35     { case 1 :printf("Enter the element to be pushed: ");
36               scanf("%d",&ele);
37               push(a,ele,n);
38               break;
```