

C:\Users\Nikita\OneDrive\Desktop\programs\STACK_01.cpp - Dev-C++ 5.11

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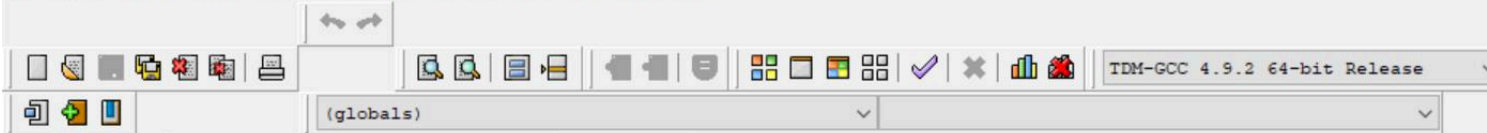


Project Classes [*] STACK_02.cpp [*] STACK_1.cpp STACK_01.cpp

```
1  #include<stdio.h>
2  #include<process.h>
3  #include<conio.h>
4  #define STACK_SIZE 5
5  int top=-1;
6  int s[10];
7  int item;
8  void push()
9  {
10     if (top==STACK_SIZE-1)
11     {
12         printf("stack overflow\n");
13         return;
14     }
15     top=top+1;
16     s[top]=item;
17 }
18 int pop()
19 {
20     if(top==-1)
21         return -1;
22 }
23 return s[top--];
24 }
25
26 void display()
27 {
28     int i;
29     if (top==-1)
30     {
31         printf("stack is empty\n");
32         return;
33     }
34     printf("contents of the stack are:\n");
35     for(i=0;i<=top;i++){
36         printf("%d\n",s[i]);
37     }
```

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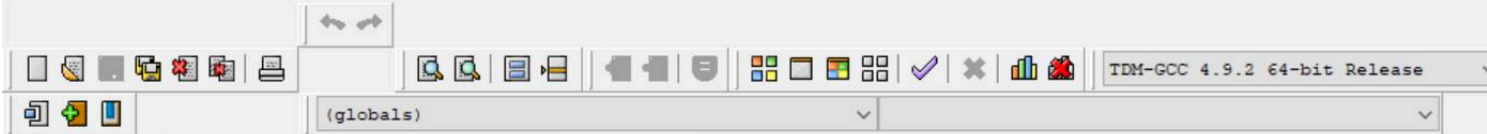


Project Classes [*] STACK_02.cpp [*] STACK_1.cpp STACK_01.cpp

```
26 void display()
27 {
28     int i;
29     if (top==--1)
30     {
31         printf("stack is empty\n");
32         return;
33     }
34     printf("contents of the stack are:\n");
35     for(i=0;i<=top;i++){
36         printf("%d\n",s[i]);
37     }
38 }
39
40 int main()
41 {
42     int item_deleted;
43     int choice;
44     for(;;)
45     {
46         printf("\n1.Push\n2.Pop\n3.Display\n4.Exit\n");
47         printf("enter the choice\n");
48         scanf("%d",&choice);
49         switch(choice)
50         {
51             case 1:
52                 printf("enter the item to be inserted\n");
53                 scanf("%d",&item);
54                 push();
55                 break;
56
57             case 2:
58                 item_deleted=pop();
59                 if(item_deleted==--1)
60                     printf("stack is empty\n");
61                 else
62                     printf("item deleted is %d\n", item_deleted);
```

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Project Classes [*] STACK_02.cpp [*] STACK_1.cpp STACK_01.cpp

```
35     for(i=0;i<=top;i++){
36         printf("%d\n",s[i]);
37     }
38 }
39
40 int main()
41 {
42     int item_deleted;
43     int choice;
44     for(;;)
45     {
46         printf("\n1.Push\n2.Pop\n3.Display\n4.Exit\n");
47         printf("enter the choice\n");
48         scanf("%d",&choice);
49         switch(choice)
50         {
51             case 1:
52                 printf("enter the item to be inserted\n");
53                 scanf("%d",&item);
54                 push();
55                 break;
56
57             case 2:
58                 item_deleted=pop();
59                 if(item_deleted==--1)
60                     printf("stack is empty\n");
61                 else
62                     printf("item deleted is %d\n", item_deleted);
63                 break;
64
65             case 3:
66                 display();
67                 break;
68             default : exit(0);
69         }
70     }
71     getch();
}
```

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Select your choice:

1.Push

2.Pop

3.Display

4.Exit

enter the choice

1

enter the item to be inserted

10

Select your choice:

1.Push

2.Pop

3.Display

4.Exit

enter the choice

1

enter the item to be inserted

20

Select your choice:

1.Push

2.Pop

3.Display

4.Exit

enter the choice

1

enter the item to be inserted

30

Select your choice:

1.Push

2.Pop

3.Display

4.Exit

enter the choice

1

enter the item to be inserted

40

C:\Users\Nikita\OneDrive\Desktop\programs\STACK_01.exe

1
enter the item to be inserted

40

stack overflow

Select your choice:

1.Push

2.Pop

3.Display

4.Exit

enter the choice

2

item deleted is 30

Select your choice:

1.Push

2.Pop

3.Display

4.Exit

enter the choice

2

item deleted is 20

Select your choice:

1.Push

2.Pop

3.Display

4.Exit

enter the choice

2

item deleted is 10

Select your choice:

1.Push

2.Pop

3.Display

4.Exit

enter the choice

2

stack is empty

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```
2.Pop
3.Display
4.Exit
enter the choice
2
item deleted is 20
Select your choice:
```

```
1.Push
2.Pop
3.Display
4.Exit
enter the choice
2
item deleted is 10
Select your choice:
```

```
1.Push
2.Pop
3.Display
4.Exit
enter the choice
2
stack is empty
Select your choice:
```

```
1.Push
2.Pop
3.Display
4.Exit
enter the choice
```

Windows Search bar: Type here to search

Taskbar and system tray area containing various application icons (e.g., Edge, File Explorer, Mail, Chrome, DevTools) and system status indicators (e.g., network, volume, date/time: 12:32, 23-09-2020).