

```

1 • #include <stdio.h>
2 • #include<conio.h>
3 • #define STACK_SIZE 3
4 • int top =-1;
5 • int s[10];
6 • int item;
7 • void push()
8 • {
9 •     if (top==STACK_SIZE-1)
10 •     {
11 •         printf("stack overflow\n");
12 •         return ;
13 •     }
14 •     top= top+1;
15 •
16 •     s[top]=item;
17 •
18 • }
19 •
20 • int pop()
21 • {
22 •     if (top== -1)
23 •     {
24 •         printf("the stack is empty\n");
25 •         return -1 ;
26 •     }
27 •
28 •     return s[top--];
29 • }
30 • void display()
31 • {

```

Line: 1 Col:

[stacks.c](http://www.stacks.c)

```

32     int i;
33     if(top== -1)
34     {
35         printf("the stack is empty\n");
36         return;
37     }
38     printf("the contents of the stack are\n");
39     for(i=top;i>=0;i--)
40     {
41         printf("%d\n",s[i]);
42     }
43 }
44 }
45
46 int main()
47
48
49 {
50
51     int deleted_item;
52     int choice;
53     for(;;)
54     {
55
56         printf("1:push\n 2:pop\n 3:display\n 4:exit\n");
57         printf("enter the choice\n");
58         scanf("%d",&choice);
59         switch(choice)
60         {
61             case 1: printf("enter the item to be inserted\n");
62                     scanf("%d",&item);
63             case 2: printf("enter the item to be deleted\n");
64                     scanf("%d",&deleted_item);
65             case 3: display();
66             case 4: exit(0);
67         }
68     }
69 }

```

Line: 1 Col: 0

```

54 {
55
56     printf("1:push\n 2:pop\n 3:display\n 4:exit\n");
57     printf("enter the choice\n");
58     scanf("%d",&choice);
59     switch(choice)
60 {
61     case 1: printf("enter the item to be inserted\n");
62             scanf("%d",&item);
63             push();
64             break;
65     case 2: deleted_item = pop();
66             if(deleted_item==1)
67                 return ;
68             else
69                 printf("the deleted item is %d\n",deleted_item);
70             break;
71     case 3: display();
72             break;
73     default: exit(0);
74
75
76
77 }
78
79
80 }
81
82 return 0;
83
84 }

```

Line 1 Col 1

```

#include <stdio.h>
#include <conio.h>
#define STACK_SIZE 7
int top = -1;
int s[10];
int item;
void push()
{
    if (top == STACK_SIZE - 1)
    {
        printf("Stack overflow\n");
        return;
    }
    top = top + 1;
    s[top] = item;
}
int pop()
{
    if (top == -1)
    {
        printf("the stack is empty\n");
        return -1;
    }
    return s[top--];
}
void display()
{
    int i;
    if (top == -1)
    {
        printf("the stack is empty\n");
        return;
    }
    printf("the contents of the stack are\n");
    for (i = top; i >= 0; i--)

```



```

{ printf ("%d \n", S[i]);
}
}
int main()
{
    int deleted = item;
    int choice;
    for (;;)
    {
        printf ("1: push \n 2: pop \n 3: display \n 4: exit \n");
        printf ("enter the choice \n");
        scanf ("%d", &choice);
        switch (choice)
        {
            case 1: printf ("enter the item to be inserted \n");
                    scanf ("%d", &item);
                    push ();
                    break;
            case 2: deleted = item = pop();
                    if (deleted == -1)
                        return;
                    else
                        printf ("the deleted item is %d \n", deleted);
                    break;
            case 3: display();
                    break;
            default: exit (0);
        }
    }
    return 0;
}

```