

← StackUsinArrRef.c Saved → ⋮

```
1 #include<stdio.h>
2 #include<conio.h>
3 #define StackSize 5
4 int top=-1;
5 void push(int item,int s[],int *top)
6 {
7     if(*top==StackSize-1)
8     {
9         printf("Stack Overflow\n");
10        return;
11    }
12    *top=*top+1;
13    s[*top]=item;
14}
15int pop(int s[],int *top)
16{
17    int ItmDel;
18    if(*top==--1)
19    {
20        printf("Empty Stack. Cannot Delete Items\n");
21        return 0;
22    }
23    ItmDel=s[*top];
24    *top=*top-1;
25    return ItmDel;
26}
27void display(int top,int s[])
28{
29    int i;
30    if(top==--1)
31    {
32        printf("Empty Stack\n");
33        return;
34    }
35    printf("Contents of Stack\n");
36    for(i=0;i<=top;i++)
37        printf("%d\n",s[i]);
38}
39void main()
40{
41    int item,s[10];
42    int ItmDel;
43    int choice;
44    for(;;)
45    {
46        printf("\n1.Push\n2.Pop\n3.Display\n4.Exit\n");
47        printf("Enter Choice\n");
48        scanf("%d",&choice);
49        switch(choice)
50        {
51            case 1:
52                printf("Enter item to be inserted\n");
53                scanf("%d",&item);
54                push(item,s,&top);
55                break;
56            case 2:
57                ItmDel=pop(s,&top);
58                if(ItmDel!=0)
59                    printf("\nItem Deleted: %d\n",ItmDel);
60                break;
61            case 3:display(top,s);
62                break;
63            default:exit(0);
64        }
65    }
66}
```

⋮ Make public 🌐 

```
× Terminal

1.Push
2.Pop
3.Display
4.Exit
Enter Choice
1
Enter item to be inserted
12

1.Push
2.Pop
3.Display
4.Exit
Enter Choice
1
Enter item to be inserted
14

1.Push
2.Pop
3.Display
4.Exit
Enter Choice
1
Enter item to be inserted
16

1.Push
2.Pop
3.Display
4.Exit
Enter Choice
1
Enter item to be inserted
18

1.Push
2.Pop
3.Display
4.Exit
Enter Choice
1
Enter item to be inserted
20

1.Push
2.Pop
3.Display
4.Exit
Enter Choice
1
Enter item to be inserted
22
Stack Overflow
```



```
1.Push
2.Pop
3.Display
4.Exit
Enter Choice
1
Enter item to be inserted
54
```

```
1.Push
2.Pop
3.Display
4.Exit
Enter Choice
1
Enter item to be inserted
23
```

```
1.Push
2.Pop
3.Display
4.Exit
Enter Choice
3
Contents of Stack
54
23
```



```
2.Pop
3.Display
4.Exit
Enter Choice
1
Enter item to be inserted
45
```

```
1.Push
2.Pop
3.Display
4.Exit
Enter Choice
2
```

```
Item Deleted: 45
```

```
1.Push
2.Pop
3.Display
4.Exit
Enter Choice
2
```

```
Item Deleted: 64
```

```
1.Push
2.Pop
3.Display
4.Exit
Enter Choice
2
```

```
Empty Stack. Cannot Delete Items
```