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1  #include<stdio.h>
2  void push(int val,int *a,int s[]);
3  int pop(int *a,int s[]);
4  int peep(int *a,int s[]);
5  void display(int *a,int s[]);
6
7  int main()
8  {
9      int i,top=-1,p,val,s[50],ch=0,c;
10
11     while(ch==0)
12     {
13         printf("\nEnter choice :");
14         printf("\n1.push \n2.pop \n3.peep \n4.display");
15         scanf("%d",&c);
16         switch(c)
17         {
18             case 1:
19                 printf("\nEnter value :");
20                 scanf("%d",&p);
21                 push(p,&top,s);
22                 break;
23
24             case 2:
25                 val=pop(&top,s);
26                 printf("\n%d",val);
27                 break;
28
29             case 3:
30                 val=peep(&top,s);
31                 printf("\n%d",val);
32                 break;
33
34             case 4:
35                 display(&top,s);
36                 break;
37
38             default :
39                 printf("\nenter valid !");
40                 break;
41         }
42         printf("\nWant to do again ?(0/1) :");
43         scanf("%d",&ch);
44     }
45     return 0;
46 }
47
48 void push(int val,int *a,int s[])
49 {
50     s[*a+1]=val;
51     *a=*a+1;
52 }
53
54 int pop(int *a,int s[])
55 {
56     int x;
57     x=s[*a];
58     *a=*a-1;
59     return x;
60 }
61
62 int peep(int *a,int s[])
63 {
64     int x;
65     x=s[*a];
66     return x;

```

```
67 }
68
69 void display(int *a,int s[])
70 {
71     int i;
72
73     for(i=*a;i>-1;i--)
74     {
75         printf("\n%d",s[i]);
76     }
77 }
```