


Code, Compile & Run

Ide  

Contest Code/Name (e.g. JULY15/PRACTICE)

Problem Code/Name (e.g. TEST)

C (gcc 6.3) 



Code gets autosaved every second

```
1  #include<stdio.h>
2  void main()
3  {
4      int n,a[10],i,pos,ele;
5      char ch;
6      printf("Enter the size of array\n");
7      scanf("%d",&n);
8      printf("%d\n",n);
9      printf("Enter the elements of array\n");
10     for(i=0;i<n;i++)
11     {
12         scanf("%d",&a[i]);
13         printf("%d\t",a[i]);
14     }
15     printf("\nThe array elements are \n");
16     for(i=0;i<n;i++)
17     {
18         printf("%d\t",a[i]);
19     }
20     printf("\nEnter the choice\n 1 for insertion \t 2 for deletion\n");
21     scanf(" %c",&ch);
22     printf(" %c\n",ch);
23     switch(ch)
24     {
25         case '1': printf("Enter the postion where new element is inserted\n");
26                 scanf("%d",&pos);
27                 printf("%d\n",pos);
28                 printf("Enter the element to be inserted\n");
29                 scanf("%d",&ele);
```

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```
27     printf("%d\n",pos);
28     printf("Enter the element to be inserted\n");
29     scanf("%d",&ele);
30     printf("%d\n",ele);
31     for(i=n-1;i>=pos;i--)
32     {
33         a[i+1]=a[i];
34     }
35     a[pos]=ele;
36     n++;
37     printf("The array after insertion\n");
38     for(i=0;i<n;i++)
39     {
40         scanf("%d",&a[i]);
41         printf("%d\t",a[i]);
42     }
43     break;
44
45 case '2':printf("Enter the position where element is deleted\n");
46     scanf("%d",&pos);
47     printf("%d\n",pos);
48     printf("Enter the element to be deleted\n");
49     scanf("%d",&ele);
50     printf("%d\n",ele);
51     ele=a[pos];
52     for(i=pos;i<n-1;i++)
53     {
54         a[i]=a[i+1];
55     }
```

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```
37     printf("The array after insertion\n"),
38     for(i=0;i<n;i++)
39     {
40         scanf("%d",&a[i]);
41         printf("%d\t",a[i]);
42     }
43     break;
44
45     case '2':printf("Enter the position where element is deleted\n");
46             scanf("%d",&pos);
47             printf("%d\n",pos);
48             printf("Enter the element to be deleted\n");
49             scanf("%d",&ele);
50             printf("%d\n",ele);
51             ele=a[pos];
52             for(i=pos;i<n-1;i++)
53             {
54                 a[i]=a[i+1];
55             }
56             n--;
57             printf("The array after deletion of element\n");
58             for(i=0;i<n;i++)
59             {
60                 printf("%d\t",a[i]);
61             }
62             break;
63     default:printf("invalid choice");
64 }
65 }
```

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Custom Input

```
5
10 20 30 40 50 60
2
50
|
```

Status Runtime error **Date** 2020-06-05 05:51:21 **Time** 0 sec **Mem** 9.424 kB

Input

```
5
10 20 30 40 50 60
2
50
```

Output

```
10 20 30 40 50
The array elements are
10 20 30 40 50
Enter the choice
1 for insertion 2 for deletion
6
invalid choice
```

Runtime Error

NZEC

Algorithm

1. start
2. input n
3. display enter array element
for ($i=0; i < n; i++$)
input a[i]
4. enter the choice Z for insertion & deletion
input ch
5. switch (ch)
case '1' : input pos, ele
for ($i=n-1; i >= pos; i--$)
a[i+1] = a[i]
a[pos] = ele
n++
display array after insertion
for ($i=0; i < n; i++$)
output a[i]
case '2' : input pos, ele
ele = a[pos]
for ($i=pos; i < n-1; i++$)
a[i] = a[i+1]
n--
display Array after deletion
for ($i=0; i < n; i++$)
output a[i]
break
default : display invalid choice.
6. stop

Flowchart

