

[Home](#) » [Rakshith K](#)**Rakshith K**

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### Rating Graphs



### CodeChef Rating Distribution



Life ☒ ☐

Context Code/Name (e.g. HWY15/PRACTICE)

Problem Code/Name (e.g. TEST)

Select

```

1 #include<stdio.h>
2 int 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 position 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);

```

```
5
11 22 33 44 55|
2
44
```

**x**

5  
11 22 33 44 55  
2  
44

```
Enter the size of array
5
Enter the elements of array
11 22 33 44 55
The array elements are
11 22 33 44 55
Enter the choice
```



www.codechef.com/ide



## Code, Compile &amp; Run

File × +

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

Problem Code/Name (e.g. TEST)

Select

C++14 (gcc 6.3)



Code gets auto-saved every second



```

37         printf("The array after deletion is: ");
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 }

```

0:0



Open File

✓ Custom Input

Run

## Custom Input

```

5
11 22 33 44 55
2
44

```

Status Successfully executed Date 2020-06-05 09:00:41 Time 0 sec Mem 15.232 kb



## Input

```

5
11 22 33 44 55
2
44

```

## Output

```

2
Enter the position where element is deleted
44
Enter the element to be deleted
0
The array after deletion of element
11 22 33 44

```

## Algorithm:

Step 1: Start

Step 2: Input  $n$

Step 3: Display enter array elements  
for ( $i=0$ ;  $i < n$ ;  $i++$ )  
input  $a[i]$

Step 4: Enter the choice  $z$  for insertion & for deletion  
input  $ch$

Step 5: switch ( $ch$ )

case 'i': Input pos, Ele.

for ( $i=n-1$ ;  $i \geq pos$ ;  $i--$ )

$a[i+1] = a[i]$

$a[pos] = Ele$

$n++$

Display Array after insertion.

for ( $i=0$ ;  $i < n$ ;  $i++$ )

output  $a[i]$

break.

case 'd': 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

Step 6: Stop

# Flowchart

