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# Insert an Element

locked

Problem

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Insert an element at it's exact position in the given sorted array.

## Input Format

Inputs(N & new element) should be an Integer.

Array elements are Integer.

## Constraints

 $1 \leq N \leq 10000$  $-10000 \leq \text{arr}[i] \leq 10000$  $-10000$ 

## Output Format

Output should be desired output.

## Sample Input 0

```
5
1 2 3 4 5
6
```

## Sample Output 0

```
1 2 3 4 5 6
```

## Sample Input 1

```
7
1 2 4 5 6 8 9
3
```

## Sample Output 1

```
1 2 3 4 5 6 8 9
```

[f](#) [t](#) [in](#)Submissions: [60](#)

Max Score: 100

Difficulty: Medium

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C ▾



```
1▼ #include <stdio.h>
2  #include <string.h>
3  #include <math.h>
4  #include <stdlib.h>
5
6
7  void printArray(int array[],int n)
8▼ {
```

```
9     int i;
10    for(i=0;i<n;i++)
11    {
12        printf("%d ",array[i]);
13    }
14 }
15
16 void getArray(int array[],int n)
17 {
18     int i;
19     for(i=0;i<n;i++)
20     {
21         scanf("%d",&array[i]);
22     }
23 }
24
25 int findIndex(int array[],int n,int ele)
26 {
27     //sorted array - so just return where it belongs
28     int i;
29     for(i=0;i<n;i++)
30     {
31         if(ele < array[i])
32         {
33             break;
34         }
35     }
36     return i;
37 }
38
39 void insertElement(int array[],int *n,int index,int elem)
40 {
41     int i,temp;
42     for(i=index;i<*n;i++)
43     {
44         temp=array[i];
45         array[i]=elem;
46         elem=temp;
47     }
48     array[i]=elem;
49     *n=*n+1;
50 }
51
52
53
54
55 int main() {
56
57     /* Enter your code here. Read input from STDIN. Print output to STDOUT */
58     int arr[100],n,temp,index;
59     scanf("%d",&n);
60
61     getArray(arr,n);
62
63     scanf("%d",&temp);
64
65     index=findIndex(arr,n,temp);
66     insertElement(arr,&n,index,temp);
67
68     printArray(arr,n);
69
70
71     return 0;
72 }
73
```

Line: 1 Col: 1

 Upload Code as File ☐ Test against custom input

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