

```
1 //C Program to insert a number in an array that is already sorted in ascending order.
2 #include <stdio.h>
3
4 int main() {
5     int arr[10],n,num;
6     scanf("%d",&n);
7     for(int i=0;i<n;i++){
8         scanf("%d",&arr[i]);
9     }
10    scanf("%d",&num);
11
12    for(int i=0;i<n;i++){
13        if(num<arr[i]){
14            for(int j=n;j>=i;j--){
15                arr[j+1]=arr[j];
16            }
17            arr[i]=num;
18            n=n+1;
19            break;
20        }
21    }
22    for(int i=0;i<n;i++){
23        printf("%d ",arr[i]);
24    }
25
26    return 0;
27 }
28
```

Custom Input

```
5
1 2 3 5 7
4
```

Status Successfully executed    Date 2021-06-22 02:39:31    Time 0 sec    Mem 9.424 kB    ✕

Input

```
5
1 2 3 5 7
4
```

Output

```
1 2 3 4 5 7
```

## Custom Input

```
6
12 22 33 55 76 87
4
```

**Status** Successfully executed

**Date** 2021-06-22 03:00:21

**Time** 0 sec

**Mem** 9.424 kB



### Input

```
6
12 22 33 55 76 87
4
```

### Output

```
4 12 22 33 55 76 87
```

## Custom Input

```
9
2 12 13 15 16 27 28 29 40
38
```

**Status** Successfully executed

**Date** 2021-06-22 03:01:24

**Time** 0 sec

**Mem** 9.424 kB



### Input

```
9
2 12 13 15 16 27 28 29 40
38
```

### Output

```
2 12 13 15 16 27 28 29 38 40
```