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HOME

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WRITE A C PROGRAM FOR SORTING USING INSERTION SORT

```
1. #include<stdio.h>
2. #define true 1
3. #define false 0
4.
5. void insertion(int a[],int n);
6.
7. int main(){
8.     int a[100],i,n;
9.     printf("What's Your limit ? ");
10.    scanf("%d",&n);
11.    for(i=1;i<=n;i++){
12.        printf("Enter %d Data ",i);
13.        scanf("%d",&a[i]);
14.    }
15.    insertion(&a[0],n);
16.    printf("Sorted successfully\n");
17.    for(i=1;i<=n;i++){
18.        printf(" %d ",a[i]);
19.    }
20.    return 0;
21. }
22. void insertion(int *a,int n){
23.     int sorted,k,j,pivot;
24.     for(k=2;k<=n;k++){
25.         pivot=a[k];
26.         j=k-1;
27.         sorted=false;
28.         while(j>=1 &&sorted==false){
29.             if(pivot<a[j]){
```

```
30.         a[j+1]=a[j];
31.         j--;
32.     }
33.     else{
34.         sorted=true;
35.     }
36. }
37. a[j+1]=pivot;
38. }
39. }
```

OUTPUT

```
What's Your limit ? 5
Enter 1 Data 50
Enter 2 Data 20
Enter 3 Data 60
Enter 4 Data 90
Enter 5 Data 10
Sorted successfully
10 20 50 60 90
```

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