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SE-C Comp,Viit,Pune

***CODE:***

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#include<iostream>

using namespace std;

void printArray(int \*arr,int size){

for(inti=0;i<size;i++){

cout<<arr[i]<<" ";

}cout<<endl;

}

void insertionSort(int \*arr,intsize,boolascendingOrder){

intinsertedElement,i,j;

for(i=1;i<size;i++){

insertedElement=arr[i];

for(j=i-1;j>=0;j--){

if(ascendingOrder&&arr[j]<insertedElement)break;

else if(!ascendingOrder&&arr[j]>insertedElement)break;

arr[j+1]=arr[j];

}

arr[j+1]=insertedElement;

cout<<"Pass "<<i<<" :";printArray(arr,size);

}

}

intmain(){

int size;

cout<<"Enter No of Club Members and their membership number\n";

cin>>size;

intarr[size];

for(inti=0;i<size;i++)

cin>>arr[i];

cout<<"\nInsertion Sort\n";

cout<<"Ascending Order\n";

insertionSort(arr,size,true);

cout<<"Descending Order\n";

insertionSort(arr,size,false);

return 0;

}

***Output:***

