**Insertion Sort in C++**

#include<iostream>

using namespace std;

int main()

{

int arr[50], tot, i, j, k, elem, index;

cout<<"Enter the Size for Array: ";

cin>>tot;

cout<<"Enter "<<tot<<" Array Elements: ";

for(i=0; i<tot; i++)

cin>>arr[i];

for(i=1; i<tot; i++)

{

elem = arr[i];

if(elem<arr[i-1])

{

for(j=0; j<=i; j++)

{

if(elem<arr[j])

{

index = j;

for(k=i; k>j; k--)

arr[k] = arr[k-1];

break;

}

}

}

else

continue;

arr[index] = elem;

}

cout<<"\nThe New Array (Sorted Array):\n";

for(i=0; i<tot; i++)

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

cout<<endl;

return 0;

}

