// C++ program for insertion sort

#include <bits/stdc++.h>

using namespace std;

/\* Function to sort an array using insertion sort\*/

void insertionSort(int arr[], int n)

{

    int i, key, j;

    for (i = 1; i < n; i++)

    {

        key = arr[i];

        j = i - 1;

        /\* Move elements of arr[0..i-1], that are

        greater than key, to one position ahead

        of their current position \*/

        while (j >= 0 && arr[j] > key)

        {

            arr[j + 1] = arr[j];

            j = j - 1;

        }

        arr[j + 1] = key;

    }

}