using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace ConsoleApplication2

{

class Program

{

public static void insertionSort(int[] A)

{

var j = 0;

for (var i = 1; i < A.Length; i++)

{

var value = A[i];

j = i - 1;

while (j >= 0 && value < A[j])

{

A[j + 1] = A[j];

j = j - 1;

}

A[j + 1] = value;

}

Console.WriteLine(string.Join(" ", A));

}

static void Main(string[] args)

{

//Console.ReadLine();

//int[] \_ar = (from s in Console.ReadLine().Split() select Convert.ToInt32(s)).ToArray();

int[] \_ar = { 7, 2, 9, 5, 1, 3, 8 };

insertionSort(\_ar);

Console.ReadLine();

}

}

}