using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace ConsoleApplication1

{

class Program

{

static int partition(int[] arr, int low, int high)

{

int pivot = arr[high];

int temp;

int i = (low - 1); // index of smaller element

for (int j = low; j <= high - 1; j++)

{

// If current element is smaller than or

// equal to pivot

if (arr[j] <= pivot)

{

i++;

// swap arr[i] and arr[j]

temp = arr[i];

arr[i] = arr[j];

arr[j] = temp;

}

}

// swap arr[i+1] and arr[high] (or pivot)

temp = arr[i + 1];

arr[i + 1] = arr[high];

arr[high] = temp;

return i + 1;

}

private static void quickSort(int[] array, int start, int end)

{

if (start < end)

{

int pivotIndex = partition(array, start, end);

quickSort(array, start, pivotIndex - 1);

quickSort(array, pivotIndex + 1, end);

}

}

static void Main(string[] args)

{

int n = int.Parse(Console.ReadLine());

int[] arr = Array.ConvertAll(Console.ReadLine().Split(' '), e => int.Parse(e));

quickSort(arr, 0, arr.Length - 1);

Console.ReadLine();

}

}

}