**Arranging the array**

Show Topic Tags   

[Microsoft](http://practice.geeksforgeeks.org/company/Microsoft/)

Rearrange a given array in-place such that all the negative numbers occurs before positive numbers.(Maintain the order of all -ve and +ve numbers as given in the original array).

**Input:**  
The first line of input consists of an integer T denoting the number of test cases Each test case contains an integer N denoting the size of the array. Then in the next line are N space separated elements of the array.  
  
**Output:**  
For each test case , In a new line print the array after rearranging with spaces between the elements of the array.  
  
**Constraints:**  
1<=T<=100  
1<=N<=1000  
-10^9<=Elements of array <=10^9  
  
**Example:**

**Input:**

2  
4  
-3 3 -2 2  
5  
2 -4 7 -3 4

**Output:**  
-3 -2 3 2  
-4 -3 2 7 4

\*\*For More Examples Use Expected Output\*\*

<http://practice.geeksforgeeks.org/problems/arranging-the-array/0>

/\*

\* To change this template, choose Tools | Templates

\* and open the template in the editor.

\*/

package javaapplication244;

import java.io.BufferedReader;

import java.io.IOException;

import java.io.InputStreamReader;

/\*\*

\*

\* @author Administrador

\*/

public class JavaApplication244 {

/\*\*

\* @param args the command line arguments

\*/

public static void main(String[] args) throws IOException {

// TODO code application logic here

BufferedReader br = new BufferedReader(new InputStreamReader(System.in));

int t = Integer.parseInt(br.readLine());

while(t-- > 0) {

int n = Integer.parseInt(br.readLine());

String[] input = br.readLine().trim().split(" ");

int[] arr = new int[n];

for(int i =0; i<n; i++) {

arr[i] = Integer.parseInt(input[i]);

}

for (int i = 1; i < arr.length; i++)

{

int indice = i;

while (indice > 0 && arr[indice - 1] >= 0 && arr[indice] < 0)

{

int temp = arr[indice - 1];

arr[indice - 1] = arr[indice];

arr[indice] = temp;

indice--;

}

}

for(int i =0; i<arr.length; i++) {

System.out.print(arr[i] + " ");

}

System.out.println();

}

}

}