

---

## Sorting with priority queues

P40558\_en

---

Use priority queues to sort a sequence of integer numbers, in nondecreasing order and also in nonincreasing order.

### Input

Input consists of a sequence of integer numbers.

### Output

Print two lines, the first one with the numbers in increasing order, and the second one with the numbers in decreasing order.

### Observation

To solve this exercise, the only containers that you should use are priority queues of integer numbers.

#### Sample input 1

17 2 5 11 19 13 7 3

#### Sample output 1

2 3 5 7 11 13 17 19  
19 17 13 11 7 5 3 2

#### Sample input 2

2 4 6 4 2

#### Sample output 2

2 2 4 4 6  
6 4 4 2 2

### Problem information

Author : Salvador Roura

Translator : Carlos Molina

Generation : 2022-07-24 12:17:05

© Jutge.org, 2006–2022.

<https://jutge.org>