## Jutge.org

The Virtual Learning Environment for Computer Programming

## Sorting with priority queues <br> 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

$\begin{array}{llllllll}17 & 2 & 5 & 11 & 19 & 13 & 7 & 3\end{array}$

## Sample output 1 <br> $\begin{array}{llllllll}2 & 3 & 5 & 7 & 11 & 13 & 17 & 19\end{array}$ <br> $\begin{array}{llllllll}19 & 17 & 13 & 11 & 7 & 5 & 3 & 2\end{array}$

Sample output 2
$\begin{array}{lllll}2 & 2 & 4 & 4 & 6\end{array}$
64422

## Problem information

Author: Salvador Roura
Translator : Carlos Molina
Generation : 2024-05-03 15:53:07
© Jutge.org, 2006-2024.
https://jutge.org

