DMOPC '19 Contest 3 P1 - Mode Finding

Time limit: 2.0s   **Memory limit:** 256M

You are given N numbers, $a_1, a_2, \ldots, a_N$. Output all the modes of this list on a single line from least to greatest. The mode of a list is/are the value(s) that appear(s) the most times relative to the other values in the list. It is guaranteed that at least one mode exists.

Constraints

In all tests,
$1 \le N \le 10^6$
$-10^5 \le a_i \le 10^5$

Input Specification

The first line contains one number, N.
The second line contains N spaced integers, a_i, the numbers in this list.

Output Specification

On one line, output the modes of the N numbers in increasing order.

Sample Input

```
10
9 2 9 6 8 7 1 3 9 6
```

Sample Output

```
9
```