

Smallest

Find the smallest number in a list of natural (integer and positive) numbers.

Input

One line indicating the quantity of numbers in the list, N [$1 \leq N \leq 1.000.000$]

Another line with N natural numbers. Each number n_i is between 0 and 32576 inclusive.

Output

Two lines:

The first line should have the smallest number in the list.

The second one should have how many times the smallest number appears in the list.

Example

Input:

6

6 4 8 2 1 3

Output:

1

1