The most common number

Given an array of integers with values between 0 and 10⁶. Find the most occurring number.

Input

The first line is the number of elements in the array N (N<= 10^6).

The second line contains N integers a_i are the elements in the array (0 <= a_i < 10⁶)

Output

Output the value and the number of times occur in the array. If there are many number have the same frequency, output minimum number.

Example

Input: 4 4343

Output:

32