Most frequent number

Time Limit 1 sec/Memory Limit 256 MB

You are given an integer array. Find the number which appears the most times.
In case of tie, pick the largest number.

Input Format
- The first line of the input contains one integer n.
- The second line contains n integers, $a_1, a_2, \ldots, a_n$.

Output format
- Output two integers, which denote the most frequent number and number of times it appears.

Constraints
- $1 \le n \le 10^5$.
- $0 < a_i \le n$

sample input #1	sample output #1
5 1 1 3 2 1	1 3

sample input #2	sample output #2
7 1 2 3 1 2 3 4	3 2