

A. Voting for Photos

time limit per test: 1 second
memory limit per test: 256 megabytes
input: standard input
output: standard output

After celebrating the midcourse the students of one of the faculties of the Berland State University decided to conduct a vote for the best photo. They published the photos in the social network and agreed on the rules to choose a winner: the photo which gets most likes wins. If multiple photoes get most likes, the winner is the photo that gets this number first.

Help guys determine the winner photo by the records of likes.

Input

The first line of the input contains a single integer n ($1 \leq n \leq 1000$) — the total likes to the published photoes.

The second line contains n positive integers a_1, a_2, \dots, a_n ($1 \leq a_i \leq 1\,000\,000$), where a_i is the identifier of the photo which got the i -th like.

Output

Print the identifier of the photo which won the elections.

Examples

input
5 1 3 2 2 1
output
2

input
9 100 200 300 200 100 300 300 100 200
output
300

Note

In the first test sample the photo with id 1 got two likes (first and fifth), photo with id 2 got two likes (third and fourth), and photo with id 3 got one like (second).

Thus, the winner is the photo with identifier 2, as it got:

- more likes than the photo with id 3;
- as many likes as the photo with id 1, but the photo with the identifier 2 got its second like earlier.