# C. Remove Extra One

time limit per test: 2 seconds memory limit per test: 256 megabytes

input: standard input output: standard output

You are given a permutation p of length n. Remove one element from permutation to make the number of records the maximum possible.

We remind that in a sequence of numbers  $a_1, a_2, ..., a_k$  the element  $a_i$  is a *record* if for every integer j ( $1 \le j \le i$ ) the following holds:  $a_i \le a_i$ .

## Input

The first line contains the only integer n ( $1 \le n \le 10^5$ ) — the length of the permutation.

The second line contains n integers  $p_1, p_2, ..., p_n$  ( $1 \le p_i \le n$ ) — the permutation. All the integers are distinct.

### **Output**

Print the only integer — the element that should be removed to make the number of records the maximum possible. If there are multiple such elements, print the smallest one.

#### **Examples**

input		
1 1		
output		
1		

```
input
5
5 1 2 3 4
output
5
```

#### **Note**

In the first example the only element can be removed.