Problem G. G

Time limit   2000 ms
Mem limit   1048576 kB

Problem Statement

There are N platforms arranged in a row. The height of the i-th platform from the left is H_i.

Takahashi is initially standing on the leftmost platform.

Since he likes heights, he will repeat the following move as long as possible.

- If the platform he is standing on is not the rightmost one, and the next platform to the right has a height greater than that of the current platform, step onto the next platform.

Find the height of the final platform he will stand on.

Constraints

- $2 \leq N \leq 10^5$
- $1 \leq H_i \leq 10^9$
- All values in input are integers.

Input

Input is given from Standard Input in the following format:

```
N
H₁ ... Hₙ
```

Output

Print the answer.

Sample 1

Input	Output
5 1 5 10 4 2	10

Takahashi is initially standing on the leftmost platform, whose height is 1. The next platform to the right has a height of 5 and is higher than the current platform, so he steps onto it.

He is now standing on the 2-nd platform from the left, whose height is 5. The next platform to the right has a height of 10 and is higher than the current platform, so he steps onto it.

He is now standing on the 3-rd platform from the left, whose height is 10. The next platform to the right has a height of 4 and is lower than the current platform, so he stops moving.

Thus, the height of the final platform Takahashi will stand on is 10.

Sample 2

Input	Output
3 100 1000 100000	100000

Sample 3

Input	Output
4 27 1828 1828 9242	1828