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HOME   TOP   CONTESTS   GYM   PROBLEMSET   GROUPS   RATING   EDU   API   CALENDAR   HELP

PROBLEMS   SUBMIT CODE   MY SUBMISSIONS   STATUS   STANDINGS   CUSTOM INVOCATION

E. Globe Line

time limit per test: 1 second

memory limit per test: 256 megabytes

input: standard input

output: standard output

The historic Globe Theatre in London is the well known venue of many of Shakespeare's work. Due to the limited space in the Globe Theatre and the British national hobby of "queuing", the theatre has a very interesting seating procedure, akin to that of an airplane.

To populate the N seats of the Globe, each audience member is given a ticket with a single number $1...N$. As they arrive, they're instructed to queue up, that is, stand in such a way that they are behind all lower tickets and in front of all higher tickets.

To ensure that they join in the correct ordering, the staff have instituted a special rule. As soon as an audience member joins the line, they must declare the ticket held by the person currently in front of them.

Given the order of arrivals, help the staff by determining the expected responses.

Input

A single integer, $1 \le N \le 10^5$, the number of ticketholders.

The next N lines each contain a ticketholder.

Output

For each ticketholder, the ticketholder in line before them, or -1 if no one comes before them.

Example

UTPC Contest 10-15-21 Div. 2 (Beginner)

Finished

Practice

⭐

→ Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.
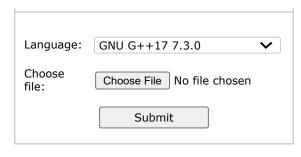
[Start virtual contest]

→ Clone Contest to Mashup

You can clone this contest to a mashup.

[Clone Contest]

→ Submit?

input

Copy

```
5
4
1
3
5
2
```

output

Copy

```
-1
-1
1
4
1
```

Language: GNU G++17 7.3.0   ∨

Choose file: Choose File   No file chosen

Submit

→ **Last submissions**

Submission	Time	Verdict
133723365	Oct/31/2021 08:40	**Accepted**
133714355	Oct/31/2021 05:53	Time limit exceeded on test 10

Supported by

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