



Утегенов Батырхан Елембетұлы [ADS-Lab-01]: Submit a solution

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Submit a solution for B-187147. Nugman and Stack

Time limit: 2 s
Real time limit: 5 s
Memory limit: 256M

Problem B: 187147. Nugman and Stack

One day Nugman was solving problems from LAB1 and he almost solved every problem in the laboratory work. Just one problem left that Nugman couldn't solve. Nugman asks for your help.

You are given N people in the queue, *i*-th person has age *a_i*. Queue starts at position 1. Each person wants to know if there is a younger person before him in a queue, in particular, the age of the closest person that is younger before him, otherwise print −1.

Input format

The first line of input consists of a single integer $1 \leq N \leq 10^5$ that describes the number of people in the queue. The next line contains N integers $1 \leq a_i \leq 10^9$, which describes the age of people in the *i*-th position.

Output format

Output N numbers separated by the whitespaces, where *i*-th number is the answer for the *i*-th person.

Examples

Input

5
2 1 5 8 3

Output

-1 -1 1 5 1

Input

5
1 2 3 4 5

Output

-1 1 2 3 4

Submit a solution

Language:

g++ - GNU C++ 11.4.0

File

Выберите файл

Файл не выбран

Send!

Send!

Previous submissions of this problem

Run ID	Time	Size	Problem	Language	Result	Failed test	View source	View report
2872	259:38:18	447	B	g++	OK	N/A	View	View
2601	246:40:55	437	B	g++	Wrong answer	1	View	View

A

B

C

D

E

F

G

H

I

J

[ejudge 3.10.3+ \(GIT 6da71ff82\) \(2023-08-02 06:59:26\).](#)
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