

Heights

Problem

Submissions

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Problem Statement

You are given the heights of N people who are standing in a line. The i th person wants to know who had the greatest height among the people before and after him. The first person has no one before him, and the last person has no one after him. In that case, you must print -1 .

Input Format

- First line will contain N .
- Second line will contain an array H which are the heights of i th person. Here $0 \leq i < N$

Constraints

- $1 \leq N \leq 10^5$
- $0 \leq H_i \leq 10^9$

Output Format

- For the i th person, the first value denotes the greatest height of people before him, and the second value denotes the greatest height of people after him.

Sample Input 0

```
10
9 1 3 12 7 6 18 9 2 5
```

Sample Output 0

```
-1 18
9 18
9 18
9 18
12 18
12 18
12 9
18 5
18 5
18 -1
```



Contest ends in 2 hours 7 minutes 37 seconds

Submissions: 9

Max Score: 1

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C++20



```
1 #include <cmath>
2 #include <cstdio>
3 #include <vector>
4 #include <iostream>
5 #include <algorithm>
6 using namespace std;
7
8
9 int main() {
10     /* Enter your code here. Read input from STDIN. Print output to STDOUT */
11     return 0;
12 }
13
```

Line: 1 Col: 1

 [Upload Code as File](#)☐ Test against custom input

Run Code

Submit Code