

F D01 - Array as a Hill

Problem

Submissions

Leaderboard

Discussions

Array of integers is a hill, if:

- it is strictly increasing in the beginning;
- after that it is constant;
- after that it is strictly decreasing.
- The first block (increasing) and the last block (decreasing) may be absent. It is allowed that both of this blocks are absent.

For example, the following three arrays are a hill: [5, 7, 11, 11, 2, 1], [4, 4, 2], [7], but the following three are not unimodal: [5, 5, 6, 6, 1], [1, 2, 1, 2], [4, 5, 5, 6].

Write a program that checks if an array is a hill.

Input Format

The first line contains integer n ($1 \leq n \leq 100$) — the number of elements in the array.

The second line contains n integers a_1, a_2, \dots, a_n ($1 \leq a_i \leq 1000$) — the elements of the array.

Output Format

Print "yes" if the given array is a hill. Otherwise, print "no".



Contest ends in 3 days

Submissions: 280

Max Score: 50

Difficulty: Medium

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C++14



```
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

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☐ **Test against custom input**

Run Code

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