Problem A. Maximum Increase

Time limit 1000 ms
Mem limit 262144 kB

You are given array consisting of n integers. Your task is to find the maximum length of an increasing subarray of the given array.

A subarray is the sequence of consecutive elements of the array. Subarray is called increasing if each element of this subarray **strictly greater** than previous.

Input

The first line contains single positive integer n ($1 \le n \le 10^5$) — the number of integers.

The second line contains n positive integers $a_1, a_2, ..., a_n$ ($1 \le a_i \le 10^9$).

Output

Print the maximum length of an increasing subarray of the given array.

Examples

Input	Output
5 1 7 2 11 15	3

Input	Output
6 100 100 100 100 100 100	1

Input	Output
3 1 2 3	3