



# Poisonous Plants ☆

## Problem

## Submissions

## Leaderboard

## Editorial

There are a number of plants in a garden. Each of these plants has been treated with some amount of pesticide. After each day, if any plant has more pesticide than the plant on its left, being weaker than the left one, it dies.

You are given the initial values of the pesticide in each of the plants. Print the number of days after which no plant dies, i.e. the time after which there are no plants with more pesticide content than the plant to their left.

For example, pesticide levels  $p = [3, 6, 2, 7, 5]$ . Using a 1-indexed array, day 1 plants 2 and 4 die leaving  $p = [3, 2, 5]$ . On day 2, plant 3 of the current array dies leaving  $p = [3, 2]$ . As there is no plant with a higher concentration of pesticide than the one to its left, plants stop dying after day 2.

### Function Description

Complete the function `poisonousPlants` in the editor below. It must return an integer representing the number of days until plants no longer die from pesticide.

`poisonousPlants` has the following parameter(s):

- $p$ : an array of integers representing pesticide levels in each plant

### Input Format

The first line contains an integer  $n$ , the size of the array  $p$ .

The next line contains  $n$  space-separated integers  $p[i]$ .

### Constraints

$$1 \leq n \leq 10^5$$

$$0 \leq p[i] \leq 10^9$$

### Output Format

Output an integer equal to the number of days after which no plants die.

### Sample Input

```
7
6 5 8 4 7 10 9
```

### Sample Output

```
2
```

### Explanation

Initially all plants are alive.



Plants = {(6,1), (5,2), (8,3), (4,4), (7,5), (10,6), (9,7)}

Plants[k] = (i,j) => j<sup>th</sup> plant has pesticide amount = i.

After the 1<sup>st</sup> day, 4 plants remain as plants 3, 5, and 6 die.

Plants = {(6,1), (5,2), (4,4), (9,7)}

After the 2<sup>nd</sup> day, 3 plants survive as plant 7 dies.

Plants = {(6,1), (5,2), (4,4)}

After the 2<sup>nd</sup> day the plants stop dying.

Java 7



```
1  import java.io.*;
2  import java.math.*;
3  import java.security.*;
4  import java.text.*;
5  import java.util.*;
6  import java.util.concurrent.*;
7  import java.util.regex.*;
8
9  public class Solution {
10
11      // Complete the poisonousPlants function below.
12      static int poisonousPlants(int[] p) {
13
```

Line: 1 Col: 1

Upload Code as File ☐ Test against custom input

**Run Code****Submit Code**

[Contest Calendar](#) | [Blog](#) | [Scoring](#) | [Environment](#) | [FAQ](#) | [About Us](#) | [Support](#) | [Careers](#) | [Terms Of Service](#) | [Privacy Policy](#) | [Request a Feature](#)

