16/11/2017 HackerRank







Problem Submissions Leaderboard Discussions Editorial
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Laurel and Hardy have n piles of chocolates with each pile containing some number of chocolates. The piles are arranged from left to right in a non decreasing order based on the number of chocolates in each pile. They play the following game.

For every continuous subsequence of chocolate piles (at least 2 piles form a subsequence), Laurel and Hardy will play game on this subsequence of chocolate piles, Laurel plays first, and they play in turn. In one move, the player can choose one of the piles and remove at least one chocolate from it, but the non-decreasing order of the chocolate piles must be maintained. The last person to make a valid move wins.

How many continuous subsequences of chocolate piles will Laurel win if both of them play optimally? The number of chocolates of each pile will be recovered after the game ends for each subsequences.

### **Input Format**

The first line contains an integer n denoting the number of piles.

The second line contains the number of chocolates in each pile, arranged from left to right and separated by a single space between them.

# Constraints

 $2 \le n \le 100000$  $1 \le chocolates in each pile \le 10^9$ 

# **Output Format**

A single integer denoting the number of continuous subsequences of chocolate piles in which Laurel will win.

## Sample Input

5 1 1 2 2 3

### **Sample Output**

5

### **Explanation**

Of the 10 continuous-sub-sequence of chocolate piles,

Laurel loses in [1,1], [1,1,2], [1,1,2,2], [1,2,2,3], [2,2] and wins in [1,1,2,2,3], [1,2], [1,2,2], [2,2,3] and [2,3] and hence 5.

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Submissions: 564

Max Score:90 Difficulty: Hard 16/11/2017 HackerRank



```
Current Buffer (saved locally, editable) & 🗗
                                                                                            Java 7
 1 ▼ import java.io.*;
    import java.util.*;
    import java.text.*;
    import java.math.*;
    import java.util.regex.*;
 6
 7 ▼ public class Solution {
 8
 9 ₹
         public static void main(String[] args) {
             /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. */
10 ▼
11
12
    }
                                                                                                                     Line: 1 Col: 1
                                                                                                                      Submit Code
1 Upload Code as File
                      Test against custom input
                                                                                                        Run Code
```

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