



Almost sorted interval

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Problem

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Shik loves sorted intervals. But currently he does not have enough time to sort all the numbers. So he decided to use *Almost sorted intervals*. An *Almost sorted interval* is a consecutive subsequence in a sequence which satisfies the following property:

1. The first number is the smallest.
2. The last number is the largest.

Please help him count the number of almost sorted intervals in this permutation.

Note: Two intervals are different if at least one of the starting or ending indices are different.

Input Format

The first line contains an integer N .

The second line contains a permutation from 1 to N .

Output Format

Output the number of almost sorted intervals.

Constraints

$1 \leq N \leq 10^6$

Sample Input

```
5
3 1 2 5 4
```

Sample Output

```
8
```

Explanation

The subsequences [3], [1], [1 2], [1 2 5], [2], [2 5], [5], [4] are almost sorted intervals.

[f](#) [t](#) [in](#)Submissions: [2679](#)

Max Score: 100

Difficulty: Expert

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Java 7



```
1 import java.io.*;
2 import java.util.*;
3 import java.text.*;
4 import java.math.*;
5 import java.util.regex.*;
6
7 public class Solution {
8
9     public static void main(String[] args) {
10         /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. */
11     }
12 }
```

Line: 1 Col: 1

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