HARBOUR SPACE



HOME TOP CONTESTS GYM PROBLEMSET GROUPS RATING API HELP FORETHOUGHT FUTURE CUP 🟋 CALENDAR

PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS HACKS STANDINGS CUSTOM INVOCATION

E. Special Segments of Permutation

time limit per test: 2 seconds memory limit per test: 512 megabytes input: standard input output: standard output

You are given a permutation p of n integers 1, 2, ..., n (a permutation is an array where each element from 1 to n occurs exactly once).

Let's call some subsegment p[l,r] of this permutation special if $p_l+p_r=\max_{i=l}^r p_i$. Please calculate the number of special subsegments.

Input

The first line contains one integer n ($3 \le n \le 2 \cdot 10^5$).

The second line contains n integers p_1 , p_2 , ..., p_n ($1 \le p_i \le n$). All these integers are pairwise distinct.

Output

Print the number of special subsegments of the given permutation.

Examples



input	Сору
3 1 3 2	
output	Сору
1	

Note

Special subsegments in the first example are [1, 5] and [1, 3].

The only special subsegment in the second example is [1, 3].

Educational Codeforces Round 64 (Rated for Div. 2) Finished





→ Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ACM-ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

→ Practice

You are registered for practice. You can solve problems unofficially. Results can be found in the contest status and in the bottom of standings.

→ Clone Contest to Mashup

You can clone this contest to a mashup.

Clone Contest

→ Submit?



→ Problem tags

data structures	divide and conquer	dsu
two pointers *	2400	
	No tag	edit access

→ Contest materials

• A	nnouncement #1 (en)	×
• A	nnouncement #2 (ru)	\times
• T	utorial (en)	×

2019/5/8 Problem - E - Codeforces

The only programming contests Web 2.0 platform Server time: May/08/2019 21:13:36^{UTC+8} (g2).

Desktop version, switch to mobile version.

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