

G. Three Occurrences

time limit per test: 5 seconds
memory limit per test: 512 megabytes

You are given an array a consisting of n integers. We denote the subarray $a[l..r]$ as the array $[a_l, a_{l+1}, \dots, a_r]$ ($1 \leq l \leq r \leq n$).

A subarray is considered *good* if every integer that occurs in this subarray occurs there **exactly thrice**. For example, the array $[1, 2, 2, 2, 1, 1, 2, 2, 2]$ has three good subarrays:

- $a[1..6] = [1, 2, 2, 2, 1, 1]$;
- $a[2..4] = [2, 2, 2]$;
- $a[7..9] = [2, 2, 2]$.

Calculate the number of good subarrays of the given array a .

Input

The first line contains one integer n ($1 \leq n \leq 5 \cdot 10^5$).

The second line contains n integers a_1, a_2, \dots, a_n ($1 \leq a_i \leq n$).

Output

Print one integer — the number of good subarrays of the array a .

Examples

input	Copy
9 1 2 2 2 1 1 2 2 2	
output	Copy
3	

input	Copy
10 1 2 3 4 1 2 3 1 2 3	
output	Copy
0	

input	Copy
12 1 2 3 4 3 4 2 1 3 4 2 1	
output	Copy
1	

Educational Codeforces Round 95
(Rated for Div. 2)

Finished

Practice

→ 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 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

→ Clone Contest to Mashup

You can clone this contest to a mashup.

Clone Contest

→ Submit?

Language: GNU G++20 13.2 (64 bit, win

Choose file: Choose File No file chosen

Submit

→ Last submissions

Submission	Time	Verdict
282684350	Sep/23/2024 22:22	Accepted
282681634	Sep/23/2024 21:57	Accepted
282681523	Sep/23/2024 21:56	Wrong answer on test 33
282681372	Sep/23/2024 21:55	Wrong answer on test 33
282681276	Sep/23/2024 21:54	Accepted
282680953	Sep/23/2024 21:51	Wrong answer on test 33
282680838	Sep/23/2024 21:50	Compilation error
282680381	Sep/23/2024 21:47	Wrong answer on test 33
282680223	Sep/23/2024 21:45	Runtime error on test 6

→ Problem tags

data structures divide and conquer hashing two pointers *2500

No tag edit access

→ Contest materials

- Announcement
- Tutorial #1
- Tutorial #2 (en)