

Contest Duration: 2025-11-22(Sat) 23:00 (<http://www.timeanddate.com/worldclock/fixedtime.html?iso=20251122T2100&p1=248>) - 2025-11-23(Sun) 00:40 (<http://www.timeanddate.com/worldclock/fixedtime.html?iso=20251122T2240&p1=248>) (local time) (100 minutes)

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## C - 1122 Substring 2

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Time Limit: 2 sec / Memory Limit: 1024 MiB

Score : 300 points

### Problem Statement

You are given a string  $S$  consisting of digits.

A string  $T$  is called a **1122-string** if it satisfies all of the following conditions. (The definition is the same as in Problem F.)

- $T$  is a non-empty string consisting of digits.
- $|T|$  is even, where  $|T|$  denotes the length of string  $T$ .
- All characters from the 1-st through the  $\frac{|T|}{2}$ -th character of  $T$  are the same digit.
- All characters from the  $(\frac{|T|}{2} + 1)$ -th through the  $|T|$ -th character of  $T$  are the same digit.
- Adding 1 to the digit of the 1-st character of  $T$  gives the digit of the  $|T|$ -th character.

For example, 1122, 01, and 444555 are 1122-strings, but 1222 and 90 are not 1122-strings.

Find the number of **substrings** of  $S$  that are 1122-strings.

Two substrings are counted separately if they are extracted from different positions, even if they are identical as strings.

### Constraints

- $S$  is a string consisting of digits with length between 1 and  $10^6$ , inclusive.

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## Input

The input is given from Standard Input in the following format:

$S$

## Output

Output the number of non-empty substrings of  $S$  that are 1122-strings.

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### Sample Input 1

Copy

1122

Copy

### Sample Output 1

Copy

2

Copy

The following two substrings satisfy the condition.

- 12 extracted from the 2-nd through 3-rd characters of  $S$
- 1122 extracted from the 1-st through 4-th characters of  $S$

Thus, output 2.

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### Sample Input 2

Copy

7788788

Copy

### Sample Output 2

Copy

3

Copy

Note that two substrings are counted separately if they are extracted from different positions, even if they are identical as strings.

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### Sample Input 3

Copy

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Copy

2025

## Sample Output 3

Copy

0

Copy

There may be no substring that is a 1122-string.

## Sample Input 4

Copy

1112222334445556555

Copy

## Sample Output 4

Copy

11

Copy

'#telegram)

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