Problem E. Three Days Ago

Time limit 2000 ms **Mem limit** 1048576 kB

Problem Statement

The string 20230322 can be rearranged into 02320232, which is a repetition of 0232 twice. Similarly, a string consisting of digits is said to be **happy** when it can be rearranged into (or already is) a repetition of some string twice.

You are given a string S consisting of digits. Find the number of pairs of integers (l, r) satisfying all of the following conditions.

- $1 \le l \le r \le |S|$. (|S| is the length of S.)
- The (contiguous) substring formed of the l-th through r-th characters of S is happy.

Constraints

• S is a string consisting of digits whose length is between 1 and 5×10^5 , inclusive.

Input

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

igg[S

Output

Print an integer representing the answer.

Sample 1

Input	Output
20230322	4

We have S = 20230322.

Here are the four pairs of integers (l, r) that satisfy the condition: (1, 6), (1, 8), (2, 7), and (7, 8).

Sample 2

Input	Output
011222333344444555555666666677777778888888889999999999	185

S may begin with 0.

Lista 2 - Soma acumulada, Two pointers e STL Mar 29, 2023

Sample 3

	Input	Output
31	141592653589793238462643383279502884197169399375105820974944	9