

5677. Count Number of Homogenous Substrings

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Given a string *s*, return the number of **homogenous** substrings of *s*. Since the answer may be too large, return it **modulo** $10^9 + 7$.

A string is **homogenous** if all the characters of the string are the same.

A **substring** is a contiguous sequence of characters within a string.

Example 1:

Input: *s* = "abbcccaa"
Output: 13
Explanation: The homogenous substrings are listed as below:
"a" appears 3 times.
"aa" appears 1 time.
"b" appears 2 times.
"bb" appears 1 time.
"c" appears 3 times.
"cc" appears 2 times.
"ccc" appears 1 time.
 $3 + 1 + 2 + 1 + 3 + 2 + 1 = 13$.

Example 2:

Input: *s* = "xy"
Output: 2
Explanation: The homogenous substrings are "x" and "y".

Example 3:

Input: *s* = "zzzzz"
Output: 15

- Constraints:
- $1 \leq s.length \leq 10^5$
 - s* consists of lowercase letters.

Java

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```
1 class Solution {
2     public int countHomogenous(String s) {
3
4     }
5 }
```