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STRINGS

Video-24



Leetcode
- 1759

Medium

Count Number

Of Homogenous

Substrings...

Asked By :- will update soon !!!

1759. Count Number of Homogenous Substrings

Hint ...

Medium

728

46



Companies

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 :- `s = "abbcccaaa"`

Output :- 13

✓
"b" ✓
"b" ✓
"bb" ✓
"c" ✓
"c" ✓
"c" ✓
"cc" ✓
"cc" ✓
"ccc" ✓
"a" ✓
"a" ✓
"aa" ✓

INTUITION

"abbccca" ←

"a a a a"

$len =$

4

Homework

"a"	aa	aaa
"a"	aa	aaa
"a"	aa	aaaa

10

(1+2+3+4)

"a a a"

$len =$

3

"a"	"aa"	"aaa"
"a"	"aa"	
"a"		

6 (1+2+3)

"a a"

$L =$

2

"a"

"aa"

3

→ (1+2) = 3

"a b b c c c a a"
 (The last two 'a's are boxed together)

$l = 2$
 ↓

length = 1 + 1

T.C. $O(n)$.

13

result = 1

{ 1 ← 'c'
 { 2 ← 'b'

{ 1
 { 2
 { 3
 { 1
 { 2

length = 0;

for (i = 0; i < n; i++) {

if (i > 0 && s[i] == s[i-1]) {

length += 1;

} else {

len = 1;

}

result += length;

