

Problem 2067: Number of Equal Count Substrings

Problem Information

Difficulty: Medium

Acceptance Rate: 44.94%

Paid Only: Yes

Tags: Hash Table, String, Sliding Window, Counting

Problem Description

You are given a **0-indexed** string `s` consisting of only lowercase English letters, and an integer `count`. A **substring** of `s` is said to be an **equal count substring** if, for each **unique** letter in the substring, it appears exactly `count` times in the substring.

Return `_` the number of **equal count substrings** in `s`.

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

Example 1:

Input: `s = "aaabcbcc", count = 3` **Output:** `3` **Explanation:** The substring that starts at index 0 and ends at index 2 is "aaa". The letter 'a' in the substring appears exactly 3 times. The substring that starts at index 3 and ends at index 8 is "bcbcc". The letters 'b' and 'c' in the substring appear exactly 3 times. The substring that starts at index 0 and ends at index 8 is "aaabcbcc". The letters 'a', 'b', and 'c' in the substring appear exactly 3 times.

Example 2:

Input: `s = "abcd", count = 2` **Output:** `0` **Explanation:** The number of times each letter appears in `s` is less than `count`. Therefore, no substrings in `s` are equal count substrings, so return 0.

Example 3:

****Input:**** s = "a", count = 5 ****Output:**** 0 ****Explanation:**** The number of times each letter appears in s is less than count. Therefore, no substrings in s are equal count substrings, so return 0

****Constraints:****

$1 \leq s.length \leq 3 \cdot 10^4$ $1 \leq count \leq 3 \cdot 10^4$ * `s` consists only of lowercase English letters.

Code Snippets

C++:

```
class Solution {
public:
    int equalCountSubstrings(string s, int count) {

    }
};
```

Java:

```
class Solution {
    public int equalCountSubstrings(String s, int count) {

    }
}
```

Python3:

```
class Solution:
    def equalCountSubstrings(self, s: str, count: int) -> int:
```