

2067. Number of Equal Count Substrings Premium

Medium Topics Companies Hint

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 = "aaabcbbcc"`, `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 "bcbbcc".
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 "aaabcbbcc".
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 <= s.length <= 3 * 104`
- `1 <= count <= 3 * 104`
- `s` consists only of lowercase English letters.

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Yes No

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Hint 1The brute force solution is to check every substring, which would TLE. How can we improve this solution?

Hint 2In an equal count substring, the first character appears count times, the second character appears count times, and so on.

Hint 3The length of an equal count substring is the number of unique characters multiplied by count.

Hint 4The length of all equal count substrings are multiples of count.

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