

Problem 3297: Count Substrings That Can Be Rearranged to Contain a String I

Problem Information

Difficulty: Medium

Acceptance Rate: 42.21%

Paid Only: No

Tags: Hash Table, String, Sliding Window

Problem Description

You are given two strings `word1`` and `word2``.

A string `x`` is called **valid** if `x`` can be rearranged to have `word2`` as a prefix.

Return the total number of **valid** substrings of `word1``.

Example 1:

Input: `word1 = "bcc"`, `word2 = "abc"`

Output: 1

Explanation:

The only valid substring is `"bcc"` which can be rearranged to `"abcc"` having `"abc"` as a prefix.

Example 2:

Input: `word1 = "abcabc"`, `word2 = "abc"`

Output: 10

Explanation:

All the substrings except substrings of size 1 and size 2 are valid.

****Example 3:****

****Input:**** word1 = "abcabc", word2 = "aaabc"

****Output:**** 0

****Constraints:****

* `1 <= word1.length <= 105` * `1 <= word2.length <= 104` * `word1` and `word2` consist only of lowercase English letters.

Code Snippets

C++:

```
class Solution {
public:
    long long validSubstringCount(string word1, string word2) {

    }
};
```

Java:

```
class Solution {
    public long validSubstringCount(String word1, String word2) {

    }
}
```

Python3:

```
class Solution:
    def validSubstringCount(self, word1: str, word2: str) -> int:
```