

Problem 3084: Count Substrings Starting and Ending with Given Character

Problem Information

Difficulty: Medium

Acceptance Rate: 49.59%

Paid Only: No

Tags: Math, String, Counting

Problem Description

You are given a string `s` and a character `c`. Return the total number of substrings of `s` that start and end with `c`.

Example 1:

Input: `s = "abada", c = "a"`

Output: 6

Explanation: Substrings starting and ending with `"a"` are: `"_a_ bada"`, `"_ _aba_ da"`, `"_ _abada_ "`, `"ab _a_ da"`, `"ab _ada_ "`, `"abad _a_ "`.

Example 2:

Input: `s = "zzz", c = "z"`

Output: 6

Explanation: There are a total of 6 substrings in `s` and all start and end with `"z"`.

Constraints:

`1 <= s.length <= 105` * `s` and `c` consist only of lowercase English letters.

Code Snippets

C++:

```
class Solution {  
public:  
    long long countSubstrings(string s, char c) {  
  
    }  
};
```

Java:

```
class Solution {  
    public long countSubstrings(String s, char c) {  
  
    }  
}
```

Python3:

```
class Solution:  
    def countSubstrings(self, s: str, c: str) -> int:
```