

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_` , `"_aba_` , `"_abada_` , `"_abadaa_` , `"_abad_` .

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:
```