Substrings with same first & last characters

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Difficulty: **Easy**   Accuracy: **50.0%**   Submissions: **26K+**   Points: **2**

Given a string **s** consisting of lowercase characters, the task is to find the **count** of all substrings that **start** and **end** with the same character.

Examples:

> **Input:** s = "abcab"
> **Output:** 7
> **Explanation:** There are 7 substrings where the first and last characters are the same: "a", "abca", "b", "bcab", "c", "a", and "b"

> **Input:** s = "aba"
> **Output:** 4
> **Explanation:** There are 4 substrings where the first and last characters are the same: "a", "aba", "b", "a"

Constraints:

$1 <= |s| <= 10^4$

s contains lower case english alphabets

Try more examples

Expected Complexities

Company Tags

Amazon

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class solution {

public:

    int countSubstring (string &s){
        int n= s.size();

```cpp
unordered_map<int,int> mp;
int ans = 0;
for(int i= 0; i<n; i++){
        mp[s[i]]++;
        ans = ans + mp[s[i]];
}
    return ans; } };
```

T.C. O(n).

S.C. O(n)