☆ Premium

ref=nb_npl)





5809. Unique Length-3 Palindromic Subsequences

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Given a string s, return the number of unique palindromes of length three that are a subsequence of

Note that even if there are multiple ways to obtain the same subsequence, it is still only counted once.

A **palindrome** is a string that reads the same forwards and backwards.

A subsequence of a string is a new string generated from the original string with some characters (can be none) deleted without changing the relative order of the remaining characters.

• For example, "ace" is a subsequence of "abcde".

User Accepted:	0
User Tried:	0
Total Accepted:	0
Total Submissions:	0
Difficulty:	Medium

Example 1:

```
Input: s = "aabca"
Output: 3
Explanation: The 3 palindromic subsequences of length 3 are:
- "aba" (subsequence of "aabca")
- "aaa" (subsequence of "<u>aa</u>bc<u>a</u>")
- "aca" (subsequence of "<u>a</u>ab<u>ca</u>")
```

Example 2:

```
Input: s = "adc"
Output: 0
Explanation: There are no palindromic subsequences of length 3 in "adc".
```

Example 3:

```
Input: s = "bbcbaba"
Output: 4
Explanation: The 4 palindromic subsequences of length 3 are:
- "bbb" (subsequence of "bbcbaba")
- "bcb" (subsequence of "bbcbaba")
- "bab" (subsequence of "bbcbaba")
- "aba" (subsequence of "bbcbaba")
```

Constraints:

- 3 <= s.length <= 10⁵
- s consists of only lowercase English letters.

```
JavaScript
    const counter = (a_or_s) \Rightarrow \{ let map = new Map(); for (const i of a_or_s) map.set(i, map.get(i) + 1 | | 
    1); return map; };
2 v const countPalindromicSubsequence = (s) ⇒ {
3
        let back = counter(s);
4
        let front = new Map();
5
        let se = new Set();
        let n = s.length;
```

```
7 ▼
        for (let i = 0; i < n; i++) {
            let mid = s[i];
 8
            back.set(mid, (back.get(mid) || 0) - 1);
9
10 ▼
            for (let j = 0; j < 26; j++) {
                let c = String.fromCharCode(j + 97);
11
12
                if (front.get(c) && back.get(c)) se.add(c + mid + c);
13
14
            front.set(mid, (front.get(mid) || 0) - 1);
15
        }
16
        return se.size;
17
    };
```

☐ Custom Testcase

Use Example Testcases

Run

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Submission Result: Accepted (/submissions/detail/520619215/) @

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