2083. Substrings That Begin and End With the Same Letter Premium Medium ♥ Topics ♀ Hint You are given a **0-indexed** string s consisting of only lowercase English letters. Return the number of substrings in s that begin and end with the same character. A **substring** is a contiguous non-empty sequence of characters within a string. Example 1: Input: s = "abcba" Output: 7 Explanation: The substrings of length 1 that start and end with the same letter are: "a", "b", "c", "b", and "a". The substring of length 3 that starts and ends with the same letter is: "bcb". The substring of length 5 that starts and ends with the same letter is: "abcba". Example 2: Input: s = "abacad" Output: 9 Explanation: The substrings of length 1 that start and end with the same letter are: "a", "b", "a", "c", "a", and "d". The substrings of length 3 that start and end with the same letter are: "aba" and "aca". The substring of length 5 that starts and ends with the same letter is: "abaca". Example 3: Input: s = "a" Output: 1 Explanation: The substring of length 1 that starts and ends with the same letter is: "a". Constraints: • 1 <= s.length <= 10⁵ s consists only of lowercase English letters. Seen this question in a real interview before? 1/5 Yes No Submissions 17.5K Acceptance Rate 74.1% Accepted 13K ♥ Topics Hash Table Math String Counting Prefix Sum O Hint 1 In the string "abacad", the letter "a" appears 3 times. How many substrings begin with the first "a" and end with any "a"? O Hint 2 There are 3 substrings ("a", "aba", and "abaca"). How many substrings begin with the second "a" and end with any "a"? How about the third? O Hint 3 2 substrings begin with the second "a" ("a", and "aca") and 1 substring begins with the third "a" ("a"). O Hint 4 There is a total of 3 + 2 + 1 = 6 substrings that begin and end with "a". O Hint 5 If a character appears i times in the string, there are i * (i + 1) / 2 substrings that begin and end with that character. **₹** Similar Questions Number of Good Pairs Easy Sum of Beauty of All Substrings Count Pairs in Two Arrays 🚡 Unique Substrings With Equal Digit Frequency 🍖 Discussion (10)

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