2539. Count the Number of Good Subsequences Medium ♥ Topics 🖫 Companies 🗘 Hint A subsequence of a string is good if it is not empty and the frequency of each one of its characters is the same. Given a string s, return the number of good subsequences of s. Since the answer may be too large, return it modulo 109 + 7. A subsequence is a string that can be derived from another string by deleting some or no characters without changing the order of the remaining characters. Example 1: Input: s = "aabb" Output: 11 Explanation: The total number of subsequences is 24. There are five subsequences which are not good: "aabb", "aabb", "aabb", "aabb", and the empty subsequence. Hence, the number of good subsequences is $2^4-5 = 11$. Example 2: Input: s = "leet" Output: 12 Explanation: There are four subsequences which are not good: "leet", "leet", "leet", and the empty subsequence. Hence, the number of good subsequences is 24-4 = 12. Example 3: Input: s = "abcd" Output: 15 Explanation: All of the non-empty subsequences are good subsequences. Hence, the number of good subsequences is 24-1 = 15. Constraints: • 1 <= s.length <= 10⁴ • s consists of only lowercase English letters. Seen this question in a real interview before? 1/5 Yes No Accepted 2.5K Submissions 4.7K Acceptance Rate 52.6% **♦** Topics Hash Table Math String Combinatorics Counting **Companies** 0 - 3 months Nvidia 2 0 - 6 months TuSimple 2 6 months ago Oracle 3 Q Hint 1 Use the frequency array of characters of the string. O Hint 2 For $1 \le m \le s$.length, count the number of subsequences of s where each character occurs exactly m times. O Hint 3 For any n and k, you can calculate (n choose k) mod p in O(log p) using binary exponentiation. **₹** Similar Questions **Number of Music Playlists** Count Ways to Build Rooms in an Ant Colony Discussion (7) Copyright © 2024 LeetCode All rights reserved