2182. Construct String With Repeat Limit

Solved

Medium

Topics

GΠ



You are given a string s and an integer repeatLimit. Construct a new string repeatLimitedString using the characters of s such that no letter appears **more than** repeatLimit times **in a row**. You do **not** have to use all characters from s.

Return the lexicographically largest repeatLimitedString possible.

A string a is **lexicographically larger** than a string b if in the first position where a and b differ, string a has a letter that appears later in the alphabet than the corresponding letter in b. If the first min(a.length, b.length) characters do not differ, then the longer string is the lexicographically larger one.

Example 1:

Input: s = "cczazcc", repeatLimit = 3

Output: "zzcccac"

Explanation: We use all of the characters from s to construct the repeatLimitedString "zzcccac".

The letter 'a' appears at most 1 time in a row.

The letter 'c' appears at most 3 times in a row.

The letter 'z' appears at most 2 times in a row.

Hence, no letter appears more than repeatLimit times in a row and the string is a valid repeatLimitedString.

The string is the lexicographically largest repeatLimitedString possible so we return "zzcccac".

Note that the string "zzcccca" is lexicographically larger but the letter 'c' appears more than 3 times in a row, so it is not a valid repeatLimitedString.

Example 2:

Input: s = "aababab", repeatLimit = 2

Output: "bbabaa"

Explanation: We use only some of the characters from s to construct the repeatLimitedString "bbabaa".

The letter 'a' appears at most 2 times in a row.

The letter 'b' appears at most 2 times in a row.

Hence, no letter appears more than repeatLimit times in a row and the string is a valid repeatLimitedString.

The string is the lexicographically largest repeatLimitedString possible so we return "bbabaa".

Note that the string "bbabaaa" is lexicographically larger but the letter 'a' appears more than 2 times in a row, so it is not a valid repeatLimitedString.

Constraints:

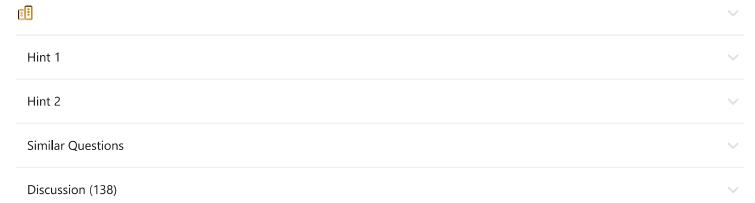
- 1 <= repeatLimit <= s.length <= 10⁵
- s consists of lowercase English letters.

Seen this question in a real interview before? 1/5

Yes No

Accepted 123.418 /174.1K | Acceptance Rate 70.9%

Topics



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