





6014. Construct String With Repeat Limit

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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.

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

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 repeatLimitedStr 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

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 repeatLimitedStr

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

Constraints:

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









const ord = (c) => c.charCodeAt();

2

```
3 v const repeatLimitedString = (s, limit) ⇒> {
        let f = Array(26).fill(0), res = '';
 5
        for (const c of s) f[ord(c) - 97]++;
        for (let i = 25; ~i; i--) {
 6 ▼
 7
            if (f[i] == 0) continue;
 8
            let c = String.fromCharCode(97 + i);
9 ▼
            while (f[i] > limit) {
10
                 res += c.repeat(limit);
                 f[i] -= limit;
11
12
                 let findBridge = false, bridge, j;
13 ▼
                 for (j = 25; \sim j; j--) { // append second larger
14
                     if (j == i) continue;
15 ▼
                     if (f[j] > 0) {
                         findBridge = true;
16
17
                         bridge = String.fromCharCode(97 + j);
18
                         break;
                     }
19
20
                 }
                 if (!findBridge) return res;
21
22
                 // pr(111, res, bridge)
23
                 res += bridge;
24
                 f[j]--;
25
            }
26
            res += c.repeat(f[i]);
27
            f[i] = 0;
28
            // pr(c, res)
29
        }
30
        return res;
31
    };
```

☐ Custom Testcase

Use Example Testcases





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