

3085. Minimum Deletions to Make String K-Special

Solved ●

Medium

Topics



Hint

You are given a string `word` and an integer `k`.

We consider `word` to be **k-special** if $|\text{freq}(\text{word}[i]) - \text{freq}(\text{word}[j])| \leq k$ for all indices `i` and `j` in the string.

Here, $\text{freq}(x)$ denotes the frequency of the character `x` in `word`, and $|y|$ denotes the absolute value of `y`.

Return the **minimum** number of characters you need to delete to make `word` **k-special**.

Example 1:

Input: `word = "aabcbaba"`, `k = 0`

Output: 3

Explanation: We can make `word` 0-special by deleting 2 occurrences of "a" and 1 occurrence of "c". Therefore, `word` becomes equal to "baba" where $\text{freq}('a') = \text{freq}('b') = 2$.

Example 2:

Input: `word = "dabdcdbdcdcd"`, `k = 2`

Output: 2

Explanation: We can make `word` 2-special by deleting 1 occurrence of "a" and 1 occurrence of "d". Therefore, `word` becomes equal to "bdbcdcdcd" where $\text{freq}('b') = 2$, $\text{freq}('c') = 3$, and $\text{freq}('d') = 4$.

Example 3:

Input: `word = "aaabaaa"`, `k = 2`

Output: 1

Explanation: We can make `word` 2-special by deleting 1 occurrence of "b". Therefore, `word` becomes equal to "aaaaaa" where each letter's frequency is now uniformly 6.

Constraints:

- $1 \leq \text{word.length} \leq 10^5$
- $0 \leq k \leq 10^5$
- `word` consists only of lowercase English letters.

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

Yes No

Accepted 83.390/128.5K | Acceptance Rate 64.9%

Topics



Hint 1

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