3412. Find Mirror Score of a String

Solved ●

Medium Topics Companies

You are given a string `s`.

We define the **mirror** of a letter in the English alphabet as its corresponding letter when the alphabet is reversed. For example, the mirror of `'a'` is `'z'`, and the mirror of `'y'` is `'b'`.

Initially, all characters in the string `s` are **unmarked**.

You start with a score of 0, and you perform the following process on the string `s`:

- Iterate through the string from left to right.
- At each index `i`, find the closest **unmarked** index `j` such that `j < i` and `s[j]` is the mirror of `s[i]`. Then, **mark** both indices `i` and `j`, and add the value `i - j` to the total score.
- If no such index `j` exists for the index `i`, move on to the next index without making any changes.

Return the total score at the end of the process.

Example 1:

> **Input:** s = "aczzx"
>
> **Output:** 5
>
> **Explanation:**
>
> - `i = 0`. There is no index `j` that satisfies the conditions, so we skip.
> - `i = 1`. There is no index `j` that satisfies the conditions, so we skip.
> - `i = 2`. The closest index `j` that satisfies the conditions is `j = 0`, so we mark both indices 0 and 2, and then add `2 - 0 = 2` to the score.
> - `i = 3`. There is no index `j` that satisfies the conditions, so we skip.
> - `i = 4`. The closest index `j` that satisfies the conditions is `j = 1`, so we mark both indices 1 and 4, and then add `4 - 1 = 3` to the score.

Example 2:

> **Input:** s = "abcdef"
>
> **Output:** 0
>
> **Explanation:**
>
> For each index `i`, there is no index `j` that satisfies the conditions.

Constraints:

- `1 <= s.length <= 10^5`
- `s` consists only of lowercase English letters.

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

Yes No

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