3805. Count Caesar Cipher Pairs

Solved

Medium Topics Hint

You are given an array `words` of `n` strings. Each string has length `m` and contains only lowercase English letters.

Two strings `s` and `t` are **similar** if we can apply the following operation any number of times (possibly zero times) so that `s` and `t` become **equal**.

- Choose either `s` or `t`.
- Replace **every** letter in the chosen string with the next letter in the alphabet cyclically. The next letter after `'z'` is `'a'`.

Count the number of pairs of indices `(i, j)` such that:

- `i < j`
- `words[i]` and `words[j]` are **similar**.

Return an integer denoting the number of such pairs.

Example 1:

> **Input:** words = ["fusion","layout"]
>
> **Output:** 1
>
> **Explanation:**
>
> `words[0] = "fusion"` and `words[1] = "layout"` are similar because we can apply the operation to `"fusion"` 6 times. The string `"fusion"` changes as follows.
>
> - `"fusion"`
> - `"gvtjpo"`
> - `"hwukqp"`
> - `"ixvlrq"`
> - `"jywmsr"`
> - `"kzxnts"`
> - `"layout"`

Example 2:

> **Input:** words = ["ab","aa","za","aa"]
>
> **Output:** 2
>
> **Explanation:**
>
> `words[0] = "ab"` and `words[2] = "za"` are similar. `words[1] = "aa"` and `words[3] = "aa"` are similar.

Constraints:

- `1 <= n == words.length <= 10^5`
- `1 <= m == words[i].length <= 10^5`
- `1 <= n * m <= 10^5`
- `words[i]` consists only of lowercase English letters.

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

Yes No

Accepted 24,587/48.5K | Acceptance Rate 50.7%

Topics

Hint 1

Hint 2

Hint 3

Discussion (21)

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