## 2306. Naming a Company Hint ⊙



Companies

You are given an array of strings ideas that represents a list of names to be used in the process of naming a company. The process of naming a company is as follows:

Choose 2 distinct names from ideas, call them idea, and idea,

Swap the first letters of idea, and idea, with each other.

If **both** of the new names are not found in the original ideas, then the name  $idea_A$   $idea_B$  (the **concatenation** of  $idea_B$  and  $idea_B$ , separated by a space) is a valid company name.

Otherwise, it is not a valid name.

Return the number of **distinct** valid names for the company.

## Example 1:

```
Input: ideas = ["coffee","donuts","time","toffee"]
Output: 6
Explanation: The following selections are valid:
- ("coffee", "donuts"): The company name created is "doffee conuts".
- ("donuts", "coffee"): The company name created is "conuts doffee".
- ("donuts", "time"): The company name created is "tonuts dime".
- ("donuts", "toffee"): The company name created is "tonuts doffee".
- ("time", "donuts"): The company name created is "dime tonuts".
- ("toffee", "donuts"): The company name created is "doffee tonuts".
```

Therefore, there are a total of 6 distinct company names.

The following are some examples of invalid selections:

- ("coffee", "time"): The name "toffee" formed after swapping already exists in the original array.
- ("time", "toffee"): Both names are still the same after swapping and exist in the original array.
- ("coffee", "toffee"): Both names formed after swapping already exist in the original array.

## Example 2:

Input: ideas = ["lack","back"]

Output: 0

Explanation: There are no valid selections. Therefore, 0 is returned.

## **Constraints:**

- 2 <= ideas.length <=  $5 \times 10^4$
- 1 <= ideas[i].length <= 10
- ideas[i] consists of lowercase English letters.
- All the strings in ideas are unique.

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