6094. Naming a Company

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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:

- 1. Choose 2 distinct names from ideas , call them $idea_A$ and $idea_B$.
- 2. Swap the first letters of $idea_A$ and $idea_B$ with each other.
- 3. If both of the new names are not found in the original ideas, then the name $idea_A$ $idea_B$ (the concatenation of idea_A and idea_B, separated by a space) is a valid company name.
- 4. Otherwise, it is not a valid name.

Return the number of distinct valid names for the company.

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

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 * 10⁴
- 1 <= ideas[i].length <= 10
- ideas[i] consists of lowercase English letters.
- · All the strings in ideas are unique.

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JavaScript
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                                                                                                                        ক
    const initialize2DArray = (n, m) \Rightarrow \{ let d = []; for (let i = 0; i < n; i++) \{ let t = Array(m).fill(0); d.push(t); \} \}
    return d; };
    const char = (ascii) => String.fromCharCode(ascii);
 3
    const ord = (c) => c.charCodeAt();
    const distinctNames = (ideas) => {
 5 ▼
        let se = new Set(ideas), cnt = initialize2DArray(26, 26), res = 0;
 6
 7
        for (const s of ideas) {
8 ,
             for (let i = 97; i <= 122; i++) {
 9
                 let c = char(i), t = c + s.slice(1);
                 if (!se.has(t)) cnt[ord(s[0]) - 97][i - 97]++;
10
11
12
13 ,
        for (let i = 0; i < 26; i++) {
14
             for (let j = 0; j < 26; j++) res += cnt[i][j] * cnt[j][i];
15
16
        return res;
17
   };
```

□ Custom Testcase Use Example Testcases

Submission Result: Accepted (/submissions/detail/720320583/) More Details > (/submissions/detail/720320583/)

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