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2306. 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:	570
User Tried:	2930
Total Accepted:	664
Total Submissions:	5900
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.

Discuss (https://leetcode.com/problems/naming-a-company/discuss)

```
JavaScript
                                                                                                                              C
    const ord = (c) => c.charCodeAt();
2
    const charIthBitValue = (c) => 1 << ord(c) - 97;</pre>
3
    const checkIthBit = (x, i) \Rightarrow x \& (1 << i);
 4
 5 .
    const distinctNames = (ideas) => {
 6
        let m = new Map(), res = 0;
 7 ,
        for (const s of ideas) {
8
             let r = s.slice(1);
9
             m.set(r, (m.get(r) || 0) + charIthBitValue(s[0]));
10
        }:
        for (let i = 0; i < 26; i++) {
11 •
             for (let j = i + 1; j < 26; j++) {
12 •
                 let a = 0, b = 0;
13
14 1
                 for (const [, x] of m) {
```

☐ Custom Testcase

Use Example Testcases

Submission Result: Accepted (/submissions/detail/720311132/) @

More Details ➤ (/submissions/detail/720311132/)

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