## 6183. Sum of Prefix Scores of Strings

My Submissions (/contest/weekly-contest-311/problems/sum-of-prefix-scores-of-strings/submissions/)

Back to Contest (/contest/weekly-contest-311/)

You are given an array words of size n consisting of non-empty strings.

We define the **score** of a string word as the **number** of strings words [i] such that word is a **prefix** of words [i] .

• For example, if words = ["a", "ab", "abc", "cab"], then the score of "ab" is 2, since "ab" is a prefix of both "ab" and "abc".

Return an array answer of size n where answer[i] is the sum of scores of every non-empty prefix of words[i].

Note that a string is considered as a prefix of itself.

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

## Example 1:

```
Input: words = ["abc","ab","bc","b"]
Output: [5,4,3,2]
Explanation: The answer for each string is the following:
- "abc" has 3 prefixes: "a", "ab", and "abc".
- There are 2 strings with the prefix "a", 2 strings with the prefix "ab", and 1 string with the prefix "abc".
The total is answer[0] = 2 + 2 + 1 = 5.
- "ab" has 2 prefixes: "a" and "ab".
- There are 2 strings with the prefix "a", and 2 strings with the prefix "ab".
The total is answer[1] = 2 + 2 = 4.
- "bc" has 2 prefixes: "b" and "bc".
- There are 2 strings with the prefix "b", and 1 string with the prefix "bc".
The total is answer[2] = 2 + 1 = 3.
- "b" has 1 prefix: "b".
- There are 2 strings with the prefix "b".
The total is answer[3] = 2.
```

## Example 2:

```
Input: words = ["abcd"]
Output: [4]
Explanation:
"abcd" has 4 prefixes: "a", "ab", "abc", and "abcd".
Each prefix has a score of one, so the total is answer[0] = 1 + 1 + 1 + 1 = 4.
```

## **Constraints:**

- 1 <= words.length <= 1000
- 1 <= words[i].length <= 1000
- words[i] consists of lowercase English letters.

```
JavaScript
                                                                                                                                  \boldsymbol{z}
                                                                                                                            Ø
                                                                                                                                         ٥
    const ord = (c) => c.charCodeAt();
1
3 ▼
    class Trie {
 4 1
        constructor() {
5
             this.next = Array(26).fill(null);
 6
             this.cnt = 0;
 7
8,
        insert(s) {
 9
             let cur = this;
10 •
             for (const c of s) {
11
                 let idx = ord(c) - 97;
12
                 if (cur.next[idx] == null) cur.next[idx] = new Trie();
13
                 cur = cur.next[idx];
                 cur.cnt++;
14
15
             }
16
        }
17 🔻
        query(s) {
             let cur = this, res = 0;
18
```

```
19 ▼
            for (const c of s) \{
                let idx = ord(c) - 97;
20
                cur = cur.next[idx];
21
22
                res += cur.cnt;
23
24
            return res;
25
        }
    }
26
27
28 v const sumPrefixScores = (a) ⇒ {
        let trie = new Trie(), res = [];
29
30
        for (const s of a) trie.insert(s);
        for (const s of a) res.push(trie.query(s));
31
32
        return res;
33
    };
```

☐ Custom Testcase

Use Example Testcases

**○** Run

Submit

Submission Result: Accepted (/submissions/detail/802678548/) ?

More Details > (/submissions/detail/802678548/)

Share your acceptance!

Copyright © 2022 LeetCode

Help Center (/support) | Jobs (/jobs) | Bug Bounty (/bugbounty) | Online Interview (/interview/) | Students (/student) | Terms (/terms) | Privacy Policy (/privacy)

United States (/region)