





2416. Sum of Prefix Scores of Strings



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.

Example 1:

```
class Node{
    public:
    Node* links[26];
    int precnt;
    public:
    Node(){
        for (int i=0;i<26;i++) {</pre>
           links[i]=NULL;
        precnt=0;
    bool have(char ch) {
       return links[ch-'a'] != NULL;
    void put(char ch, Node* node) {
       links[ch-'a']=node;
    Node* get(char ch) {
       return links[ch-'a'];
};
class Trie{
    Node* root;
    public:
    Trie(){
        root=new Node();
    void insert(string &s){
        Node* curr=root;
        for (int i=0; i < s.size(); i++) {</pre>
            if(!curr->have(s[i])){
                curr->put(s[i], new Node());
            }
            curr=curr->get(s[i]);
            curr->precnt++;
        }
    }
    int count(string &s){
        int cnt=0;
         string temp="";
         Node* curr=root;
         for(int i=0;i<s.size();i++){</pre>
            if(!curr->have(s[i])){
                return cnt;
            curr=curr->get(s[i]);
            cnt+=curr->precnt;
         return cnt;
    }
};
class Solution {
public:
    vector<int> sumPrefixScores(vector<string>& words) {
       Trie trie;
        for (auto &s:words) {
           trie.insert(s);
        vector<int>ans;
        for (auto &i:words) {
            ans.push_back(trie.count(i));
        return ans;
    }
```