Problem 1160: Find Words That Can Be Formed by Characters

Problem Information

Difficulty: Easy
Acceptance Rate: 71.32%
Paid Only: No
Tags: Array, Hash Table, String, Counting

Problem Description

You are given an array of strings `words` and a string `chars`.

A string is **good** if it can be formed by characters from `chars` (each character can only be used once for **each** word in `words`).

Return _the sum of lengths of all good strings in words_.

Example 1:

Input: words = ["cat","bt","hat","tree"], chars = "atach" **Output:** 6 **Explanation:** The strings that can be formed are "cat" and "hat" so the answer is 3 + 3 = 6.

Example 2:

Input: words = ["hello","world","leetcode"], chars = "welldonehoneyr" **Output:** 10 **Explanation:** The strings that can be formed are "hello" and "world" so the answer is 5 + 5 = 10.

Constraints:

* `1 <= words.length <= 1000` * `1 <= words[i].length, chars.length <= 100` * `words[i]` and `chars` consist of lowercase English letters.

Code Snippets

C++:

```
class Solution {
public:
int countCharacters(vector<string>& words, string chars) {

}
};
```

Java:

```
class Solution {
public int countCharacters(String[] words, String chars) {

}
}
```

Python3:

```
class Solution:
def countCharacters(self, words: List[str], chars: str) -> int:
```