Problem 809: Expressive Words

Problem Information

Difficulty: Medium
Acceptance Rate: 46.60%
Paid Only: No
Tags: Array, Two Pointers, String

Problem Description

Sometimes people repeat letters to represent extra feeling. For example:

* `"hello" -> "heeellooo"` * `"hi" -> "hiiii"`

In these strings like `"heeellooo"`, we have groups of adjacent letters that are all the same: `"h"`, `"eee"`, `"ll"`, `"ooo"`.

You are given a string `s` and an array of query strings `words`. A query word is **stretchy** if it can be made to be equal to `s` by any number of applications of the following extension operation: choose a group consisting of characters `c`, and add some number of characters `c` to the group so that the size of the group is **three or more**.

* For example, starting with `"hello"`, we could do an extension on the group `"o"` to get `"hellooo"`, but we cannot get `"helloo"` since the group `"oo"` has a size less than three. Also, we could do another extension like `"ll" -> "lllll"` to get `"helllllooo"`. If `s = "helllllooo"`, then the query word `"hello"` would be **stretchy** because of these two extension operations: `query = "hello" -> "hellooo" -> "helllllooo" = s`.

Return _the number of query strings that are**stretchy**_.

Example 1:

Input: s = "heeellooo", words = ["hello", "hi", "helo"] **Output:** 1 **Explanation:** We can extend "e" and "o" in the word "hello" to get "heeellooo". We can't extend "helo" to get "heeellooo" because the group "ll" is not size 3 or more.

Example 2:

Input: s = "zzzzzyyyyy", words = ["zzyy","zy","zyy"] **Output:** 3

Constraints:

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

Code Snippets

C++:

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

}
};
```

Java:

```
class Solution {
public int expressiveWords(String s, String[] words) {

}
}
```

Python3:

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