Problem 1967: Number of Strings That Appear as Substrings in Word

Problem Information

Difficulty: Easy
Acceptance Rate: 82.24%
Paid Only: No
Tags: Array, String

Problem Description

Given an array of strings `patterns` and a string `word`, return _the**number** of strings in _`patterns` _that exist as a**substring** in _`word`.

A **substring** is a contiguous sequence of characters within a string.

Example 1:

Input: patterns = ["a","abc","bc","d"], word = "abc" **Output:** 3 **Explanation:** - "a" appears as a substring in "_a_ bc". - "abc" appears as a substring in "_abc_ ". - "bc" appears as a substring in "a _bc_ ". - "d" does not appear as a substring in "abc". 3 of the strings in patterns appear as a substring in word.

Example 2:

Input: patterns = ["a","b","c"], word = "aaaaabbbbb" **Output:** 2 **Explanation:** - "a" appears as a substring in "a _a_ aaabbbbb". - "b" appears as a substring in "aaaaabbbb _b_ ". - "c" does not appear as a substring in "aaaaabbbbb". 2 of the strings in patterns appear as a substring in word.

Example 3:

Input: patterns = ["a","a","a"], word = "ab" **Output:** 3 **Explanation:** Each of the patterns appears as a substring in word "_a_ b".

Constraints:

* `1 <= patterns.length <= 100` * `1 <= patterns[i].length <= 100` * `1 <= word.length <= 100` * `patterns[i]` and `word` consist of lowercase English letters.

Code Snippets

C++:

```
class Solution {
public:
int numOfStrings(vector<string>& patterns, string word) {

}
};
```

Java:

```
class Solution {
public int numOfStrings(String[] patterns, String word) {

}
}
```

Python3:

```
class Solution:
def numOfStrings(self, patterns: List[str], word: str) -> int:
```