Problem 1455: Check If a Word Occurs As a Prefix of Any Word in a Sentence

Problem Information

Difficulty: Easy
Acceptance Rate: 68.76%
Paid Only: No
Tags: Two Pointers, String, String Matching

Problem Description

Given a `sentence` that consists of some words separated by a **single space** , and a `searchWord`, check if `searchWord` is a prefix of any word in `sentence`.

Return _the index of the word in_`sentence` _(**1-indexed**) where _`searchWord` _is a prefix of this word_. If `searchWord` is a prefix of more than one word, return the index of the first word **(minimum index)**. If there is no such word return `-1`.

A **prefix** of a string `s` is any leading contiguous substring of `s`.

Example 1:

Input: sentence = "i love eating burger", searchWord = "burg" **Output:** 4
Explanation: "burg" is prefix of "burger" which is the 4th word in the sentence.

Example 2:

Input: sentence = "this problem is an easy problem", searchWord = "pro" **Output:** 2
Explanation: "pro" is prefix of "problem" which is the 2nd and the 6th word in the sentence, but we return 2 as it's the minimal index.

Example 3:

Input: sentence = "i am tired", searchWord = "you" **Output:** -1 **Explanation:** "you" is not a prefix of any word in the sentence.

Constraints:

* `1 <= sentence.length <= 100` * `1 <= searchWord.length <= 10` * `sentence` consists of lowercase English letters and spaces. * `searchWord` consists of lowercase English letters.

Code Snippets

C++:

```cpp
class Solution {
public:
int isPrefixOfWord(string sentence, string searchWord) {


}
};
```

Java:

```java
class Solution {
public int isPrefixOfWord(String sentence, String searchWord) {


}
}
```

Python3:

```python
class Solution:
def isPrefixOfWord(self, sentence: str, searchWord: str) -> int:
```