

Problem 1813: Sentence Similarity III

Problem Information

Difficulty: Medium

Acceptance Rate: 48.51%

Paid Only: No

Tags: Array, Two Pointers, String

Problem Description

You are given two strings `sentence1` and `sentence2`, each representing a **sentence** composed of words. A sentence is a list of **words** that are separated by a **single** space with no leading or trailing spaces. Each word consists of only uppercase and lowercase English characters.

Two sentences `s1` and `s2` are considered **similar** if it is possible to insert an arbitrary sentence (_possibly empty_) inside one of these sentences such that the two sentences become equal. **Note** that the inserted sentence must be separated from existing words by spaces.

For example,

* `s1 = "Hello Jane"` and `s2 = "Hello my name is Jane"` can be made equal by inserting `"my name is"` between `"Hello"` and `"Jane"` in `s1`. * `s1 = "Frog cool"` and `s2 = "Frogs are cool"` are **not** similar, since although there is a sentence `" ~~are"` inserted into `s1`, it is not separated from `"~~

Given two sentences `sentence1` and `sentence2`, return **true** if `sentence1` and `sentence2` are **similar**. Otherwise, return **false**.

Example 1:

Input: sentence1 = "My name is Haley", sentence2 = "My Haley"

Output: true

****Explanation:****

`sentence2` can be turned to `sentence1` by inserting "name is" between "My" and "Haley".

****Example 2:****

****Input:**** sentence1 = "of", sentence2 = "A lot of words"

****Output:**** false

****Explanation:****

No single sentence can be inserted inside one of the sentences to make it equal to the other.

****Example 3:****

****Input:**** sentence1 = "Eating right now", sentence2 = "Eating"

****Output:**** true

****Explanation:****

`sentence2` can be turned to `sentence1` by inserting "right now" at the end of the sentence.

****Constraints:****

* `1 <= sentence1.length, sentence2.length <= 100` * `sentence1` and `sentence2` consist of lowercase and uppercase English letters and spaces. * The words in `sentence1` and `sentence2` are separated by a single space.

Code Snippets

C++:

```
class Solution {
public:
    bool areSentencesSimilar(string sentence1, string sentence2) {
    }
```

```
};
```

Java:

```
class Solution {  
    public boolean areSentencesSimilar(String sentence1, String sentence2) {  
  
    }  
}
```

Python3:

```
class Solution:  
    def areSentencesSimilar(self, sentence1: str, sentence2: str) -> bool:
```