

# 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 `"s are"` inserted into `s1``, it is not separated from `"Frog"` by a space.

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:
```