

Problem List

DescriptionEditorialSolutionsSubmissions

734. Sentence SimilarityPremium

Solved

EasyTopicsCompaniesHint

We can represent a sentence as an array of words. for example, the sentence "I am happy with leetcode" can be represented as arr = ["I","am","happy","with","leetcode"].

Given two sentences sentence1 and sentence2 each represented as a string array and given an array of string pairs similarPairs where similarPairs[i] = [xi, yi] indicates that the two words xi and yi are similar.

Return true if sentence1 and sentence2 are similar, or false if they are not similar.

Two sentences are similar if:

- They have the same length (i.e. the same number of words)
- similarPairs[i] and sentence2[i] are similar.

Notice that a word is always similar to itself, also notice that the similarity relation is not transitive. For example, if the words a and b are similar, and the words b and c are similar, a and c are not necessarily similar.

Example 1:

Input: sentence1 = ["great","acting","skills"], sentence2 = ["fine","drama","talent"], similarPairs = [{"great","fine"},{"drama","acting"},{"skills","talent"}]

Output: true

Explanation: The two sentences have the same length and each word i of sentence1 is also similar to the corresponding word in sentence2.

Example 2:

Input: sentence1 = ["great"], sentence2 = ["great"], similarPairs = []

Output: true

Explanation: A word is similar to itself.

Example 3:

Input: sentence1 = ["great"], sentence2 = ["doubleplus","good"], similarPairs = [{"great","doubleplus"}]

Output: false

Explanation: As they don't have the same length, we return false.

Constraints:

- 1 <= sentence1.length, sentence2.length <= 1000
- 1 <= sentence1[i].length, sentence2[i].length <= 20
- similarPairs[i] and sentence2[i] consist of English letters.
- 0 <= similarPairs.length <= 1000
- similarPairs[i].length == 2
- 1 <= xi.length, yi.length <= 20
- xi and yi consist of lower-case and upper-case English letters.
- All the pairs (xi, yi) are distinct.

Seen this question in a real interview before? 1/5

YesNo

Accepted66.1KSubmissions149.4KAcceptance Rate44.3%

Topics

Companies

Hint1

Similar Questions

Discussion(9)

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</> Code

Python3Auto

```
1 from collections import defaultdict
2
3 class Solution:
4     def areSentencesSimilar(self, sentence1: List[str], sentence2: List[str], similarPairs: List[List[str]]) -> bool:
5
6         if len(sentence1) != len(sentence2):
7             return False
8
9         for a,b in zip(sentence1, sentence2):
10             if a == b:
11                 continue
12             if [a, b] in similarPairs:
13                 continue
14             elif [b, a] in similarPairs:
15                 continue
16             return False
17
18         return True
19
20
```

SavedLn 14, Col 25

TestcaseTest Result

AcceptedRuntime: 44 ms

Case1Case2Case3Case4

Input

sentence1 =

["great"]

sentence2 =

["great"]

similarPairs =

[]