734. Sentence Similarity

Easy · Topics · Companies · Hint

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 x_i and y_i 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)

- `sentence1[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`

- `sentence1[i]` and `sentence2[i]` consist of English letters.

- `0 <= similarPairs.length <= 1000`

- `similarPairs[i].length == 2`

- `1 <= xᵢ.length, yᵢ.length <= 20`

- x_i and y_i consist of lower-case and upper-case English letters.

- All the pairs (x_i, y_i) are **distinct**.

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

Yes   No

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🏷 Topics

Array   Hash Table   String

🏢 Companies

0 - 6 months

Google 2

💡 Hint 1

Two words w1 and w2 are similar if and only if w1 == w2, (w1, w2) was a pair, or (w2, w1) was a pair.

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