737. Sentence Similarity II Premium Medium ∩ 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] = $[x_i, y_i]$ 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 transitive. For example, if the words a and b are similar, and the words b and c are similar, then a and c are similar. Example 1: Input: sentence1 = ["great","acting","skills"], sentence2 = ["fine", "drama", "talent"], similarPairs = [["great", "good"], ["fine", "good"], ["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 = ["I","love","leetcode"], sentence2 = ["I","love","onepiece"], similarPairs = [["manga","onepiece"],["platform","anime"],["leetcode","platform"], ["anime", "manga"]] Output: true Explanation: "leetcode" --> "platform" --> "anime" --> "manga" --> "onepiece". Since "leetcode is similar to "onepiece" and the first two words are the same, the two sentences are similar. Example 3: Input: sentence1 = ["I","love","leetcode"], sentence2 = ["I","love","onepiece"], similarPairs = [["manga","hunterXhunter"],["platform","anime"], ["leetcode", "platform"], ["anime", "manga"]] Output: false Explanation: "leetcode" is not similar to "onepiece", Constraints: 1 <= sentence1.length, sentence2.length <= 1000 1 <= sentence1[i].length, sentence2[i].length <= 20</pre> sentence1[i] and sentence2[i] consist of lower-case and upper-case English letters. 0 <= similarPairs.length <= 2000 similarPairs[i].length == 2 $1 \ll x_i.length, y_i.length \ll 20$ x_i and y_i consist of English letters. Seen this question in a real interview before? 1/5 Yes No Accepted 73.2K Submissions 145.4K Acceptance Rate 50.3% Topics Hash Table String Depth-First Search Breadth-First Search Union Find Array Companies 0 - 6 months Google 2 6 months ago Uber (5) Hint 1 Consider the graphs where each pair in "pairs" is an edge. Two words are similar if they are the same, or are in the same connected component of this graph. **E** Similar Questions Number of Provinces Medium

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