Problem 1258: Synonymous Sentences

Problem Information

Difficulty: Medium
Acceptance Rate: 56.93%
Paid Only: Yes
Tags: Array, Hash Table, String, Backtracking, Sort, Union Find

Problem Description

You are given a list of equivalent string pairs `synonyms` where `synonyms[i] = [si, ti]` indicates that `si` and `ti` are equivalent strings. You are also given a sentence `text`.

Return _all possible synonymous sentences**sorted lexicographically**_.

Example 1:

Input: synonyms = [["happy","joy"],["sad","sorrow"],["joy","cheerful"]], text = "I am happy today but was sad yesterday" **Output:** ["I am cheerful today but was sad yesterday","I am cheerful today but was sorrow yesterday","I am happy today but was sad yesterday","I am happy today but was sorrow yesterday","I am joy today but was sad yesterday","I am joy today but was sorrow yesterday"]

Example 2:

Input: synonyms = [["happy","joy"],["cheerful","glad"]], text = "I am happy today but was sad yesterday" **Output:** ["I am happy today but was sad yesterday","I am joy today but was sad yesterday"]

Constraints:

* `0 <= synonyms.length <= 10` * `synonyms[i].length == 2` * `1 <= si.length, ti.length <= 10` * `si != ti` * `text` consists of at most `10` words. * All the pairs of `synonyms` are **unique**. * The words of `text` are separated by single spaces.

Code Snippets

C++:

```
class Solution {
public:
vector<string> generateSentences(vector<vector<string>>& synonyms, string
text) {

}
};
```

Java:

```
class Solution {
public List<String> generateSentences(List<List<String>> synonyms, String
text) {

}
}
```

Python3:

```
class Solution:
def generateSentences(self, synonyms: List[List[str]], text: str) ->
List[str]:
```