1258. Synonymous Sentences

Medium 179 67 Add to List Share

You are given a list of equivalent string pairs `synonyms` where `synonyms[i] = [s_i, t_i]` indicates that `s_i` and `t_i` 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"]
```

Example 3:

```
Input: synonyms = [["a","b"],["c","d"],["e","f"]], text = "a c e"
Output: ["a c e","a c f","a d e","a d f","b c e","b c f","b d e","b d f"]
```

Example 4:

```
Input: synonyms = [["a","QrbCl"]], text = "d QrbCl ya ya NjZQ"
Output: ["d QrbCl ya ya NjZQ","d a ya ya NjZQ"]
```

Constraints:

- `0 <= synonyms.length <= 10`
- `synonyms[i].length == 2`
- `1 <= s_i.length, t_i.length <= 10`
- `s_i != t_i`
- `text` consists of at most `10` words.
- The words of `text` are separated by single spaces.

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Hide Hint 1

Find all synonymous groups of words.

Hide Hint 2

Use union-find data structure.

Hide Hint 3

By backtracking, generate all possible statements.

Java Autocomplete

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

    }
}
```