140. Word Break II

Difficulty: Hard

https://leetcode.com/problems/word-break-ii

Given a string s and a dictionary of strings wordDict, add spaces in s to construct a sentence where each word is a valid dictionary word. Return all such possible sentences in **any order**.

Note that the same word in the dictionary may be reused multiple times in the segmentation.

Example 1:

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Input: s = "catsanddog", wordDict = ["cat","cats","and","sand","dog"]
Output: ["cats and dog","cat sand dog"]

Example 2:
Input: s = "pineapplepenapple", wordDict = ["apple","pen","applepen","pine","pineapple"]
Output: ["pine apple pen apple","pineapple pen apple","pine applepen apple"]
Explanation: Note that you are allowed to reuse a dictionary word.

Example 3:
Input: s = "catsandog", wordDict = ["cats","dog","sand","and","cat"]
```

Constraints:

Output: []

- 1 <= s.length <= 20
- 1 <= wordDict.length <= 1000
- 1 <= wordDict[i].length <= 10
- s and wordDict[i] consist of only lowercase English letters.
- All the strings of wordDict are **unique**.
- Input is generated in a way that the length of the answer doesn't exceed 10⁵.