Word Break

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:

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"]

Output: []

Constraints:

- 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 10^5.