140. Word Break II

My Submissions

QuestionEditorial Solution

Total Accepted: 59166 Total Submissions: 291290 Difficulty: Hard

Given a string s and a dictionary of words dict, add spaces in s to construct a sentence where each word is a valid

dictionary word.

Return all such possible sentences.

```
For example, given s = \text{"catsanddog"}, dict = [\text{"cat"}, \text{"cats"}, \text{"and"}, \text{"sand"}, \text{"dog"}]. A solution is ["cats and dog", "cat sand dog"].
```

Subscribe to see which companies asked this question

```
//author:ZZW
//C++
class Solution {
public:
void dfs(vector<bool> &space_loc,int loc,string si,string s,vector<string>
&ret,unordered_set<string>& wordDict)
        if(loc==0)
            ret.push_back(si);
        }else
            for(int i=0;i<loc;i++)</pre>
                if(space_loc[i] && wordDict.find(s.substr(i,loc-i))!=wordDict.end())
                    dfs(space_loc,i,s.substr(i,loc-i)+ " "+si,s,ret,wordDict);
                }
            }
        }
    }
vector<string> wordBreak(string s, unordered_set<string>& wordDict) {
        vector<string> ret;
        int n = s.size();
        vector<bool> space_loc(n+1,false);
        space loc[0] = true;
        // compute the max length
        int max_length = -1;
        unordered_set<string>::iterator it;
        for(it = wordDict.begin();it!=wordDict.end();it++)
            int templength = it->length();
            if(templength>max_length)
                max_length = templength;
        for(int i=0;i<n;i++)</pre>
```