

## 139. Word Break

Description

Hints

Submissions

Discuss

Solution

Pick One

Given a **non-empty** string *s* and a dictionary *wordDict* containing a list of **non-empty** words, determine if *s* can be segmented into a space-separated sequence of one or more dictionary words.

**Note:**

- The same word in the dictionary may be reused multiple times in the segmentation.
- You may assume the dictionary does not contain duplicate words.

**Example 1:**

Input: *s* = "leetcode", *wordDict* = ["leet", "code"]  
Output: true  
Explanation: Return true because "leetcode" can be segmented as "leet code".

**Example 2:**

Input: *s* = "applepenapple", *wordDict* = ["apple", "pen"]  
Output: true  
Explanation: Return true because "applepenapple" can be segmented as "apple pen apple".  
Note that you are allowed to reuse a dictionary word.

**Example 3:**

Input: *s* = "catsandog", *wordDict* = ["cats", "dog", "sand", "and", "cat"]  
Output: false

```
public class L127 {  
    /*  
     * 这是一个动态规划的问题。  
     * res[i+1]的意思是从0到i的字符串能不能被包含在wordDict中  
     * str.deleteCharAt是一步试探。  
     * 当res[j] = true 表示前j个字符组成的字符串可以被包含，wordDict.contains(str.toString())表示后面的也可包含  
     * 即代表从0到i组成的字符串都可以被包含，即res[i + 1] = true。  
     */  
    public boolean wordBreak(String s, List<String> wordDict) {  
        if(s == null || s.length() == 0)  
            return false;  
        boolean [] res = new boolean[s.length() + 1];  
        res[0] = true;  
        for(int i = 0; i < s.length(); i++) {  
            StringBuilder str = new StringBuilder(s.subSequence(0, i + 1));  
            for(int j = 0; j <= i; j++) {  
                if(res[j] && wordDict.contains(str.toString())) {  
                    res[i + 1] = true;  
                    break;  
                }  
                str.deleteCharAt(0);  
            }  
        }  
        return res[s.length()];  
    }  
}
```