

# 139. Word Break

## Difficulty : Medium

<https://leetcode.com/problems/word-break>

Given a string `s` and a dictionary of strings `wordDict`, return `true` if `s` can be segmented into a space-separated sequence of one or more dictionary words.

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

### 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 = "catsanddog", wordDict = ["cats","dog","sand","and","cat"]`

**Output:** `false`

### Constraints:

- `1 <= s.length <= 300`
- `1 <= wordDict.length <= 1000`
- `1 <= wordDict[i].length <= 20`
- `s` and `wordDict[i]` consist of only lowercase English letters.
- All the strings of `wordDict` are **unique**.