**139. Word Break**

Medium

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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