# 139. Word Break

## SOLUTION IN JAVA

class Solution {

public boolean wordBreak(String s, List<String> wordDict) {

return wordBreak(s, new HashSet<>(wordDict), new HashMap<>());

}

private boolean wordBreak(final String s, Set<String> wordSet, Map<String, Boolean> mem) {

if (mem.containsKey(s))

return mem.get(s);

if (wordSet.contains(s)) {

mem.put(s, true);

return true;

}

for (int i = 1; i < s.length(); ++i) {

final String prefix = s.substring(0, i);

final String suffix = s.substring(i);

if (wordSet.contains(prefix) && wordBreak(suffix, wordSet, mem)) {

mem.put(s, true);

return true;

}

}

mem.put(s, false);

return false;

}

}