179. Given an input string and a dictionary of words, find out if the input string can be segmented into a space-separated sequence of dictionary words. Consider the following dictionary { i, like, sam, sung, samsung, mobile, ice, cream, icecream, man, go, mango} PROGRAM:

```
def word_break(s, wordDict):
  n = len(s)
  dp = [False] * (n + 1)
  dp[0] = True
  for i in range(1, n + 1):
    for j in range(i):
      if dp[j] and s[j:i] in wordDict:
         dp[i] = True
         break
  return dp[n]
wordDict = {"i", "like", "sam", "sung", "samsung", "mobile", "ice", "cream", "icecream",
"man", "go", "mango"}
input_str1 = "ilike"
input_str2 = "ilikesamsung"
output1 = "Yes" if word_break(input_str1, wordDict) else "No"
output2 = "Yes" if word_break(input_str2, wordDict) else "No"
print(f"Input: {input_str1}\nOutput: {output1}")
print(f"Input: {input_str2}\nOutput: {output2}")
OUTPUT:
```

Input: ilike
Output: Yes

Input: ilikesamsung

Output: Yes

=== Code Execution Successful ===

TIME COMPLEXITY:O(N^2)