Practice (https://practice.geeksforgeeks.org/home/)   ⚡ 176

Problem	Editorial	Submissions	Doubt Support

Word Break 🔖

Medium   Accuracy: **52.15%**   Submissions: **1162**   Points: **4**

Given a string **A** and a dictionary of n words **B**, find out if A can be segmented into a space-separated sequence of dictionary words.

Example 1:

```
Input:
n = 12
B = { "i", "like", "sam", "sung", "samsung", "mobile",
"ice","cream", "icecream", "man", "go", "mango" }
A = "ilike"
Output: 1
Explanation:The string can be segmented as "i like".
```

â€‹**Example 2:**

```
Input:
n = 12
B = { "i", "like", "sam", "sung", "samsung", "mobile",
"ice","cream", "icecream", "man", "go", "mango" }
A = "ilikesamsung"
Output: 1
Explanation: The string can be segmented as
"i like samsung" or "i like sam sung".
```

Your Task:
Complete **wordBreak()** function which takes a string and list of strings as a parameter and returns 1 if it is possible to break words, else return 0. You don't need to read any input or print any output, it is done by driver code.

Expected time complexity: $O(s^2)$
â€‹**Expected auxiliary space:** $O(s)$, where s = length of string A

Constraints:
1 <= N <= 12
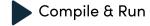1 <= s <=1000 , where s = length of string A
 The length of each word is less than 15.

Company Tags   ⌄

Topic Tags   ⌄

11 Comments   **GeeksforGeeks Practice**   🔒 **Disqus' Privacy Policy**   ① **Login** ⌄

♡ **Recommend**   🐦 **Tweet**   f **Share**   Sort by Best ⌄

👤 | Join the discussion… |

LOG IN WITH   OR SIGN UP WITH DISQUS ⑦

| Name |

Java (1.8) ▼   Test against custom input

```java
24                    System.out.println(obj.wordBreak(line,arr));
25
26                }
27            }
28  }// } Driver Code Ends
29
30
31  //User function Template for Java
32
33  class Sol
34  {
35      static HashMap<String,Boolean> mp= new HashMap<>();
36      static boolean calculate(String s){
37          if(s.length()==0) return true;
38          for(int i=1;i<=s.length();i++){
39              try{
40              if(mp.get(s.substring(0,i)) && calculate(s.substring(i))) return true;
41              }catch(Exception e){}
42          }
43          return false;
44      }
45      public static int wordBreak(String A, ArrayList<String> B )
46      {
47          //code here
48          for(String s: B){
49              mp.put(s,true);
50          }
51          if(calculate(A)) return 1;
52          else return 0;
53      }
54  }
```

Compile & Run   Submit