

Word Break

Question: Given a string *s* and a dictionary of words *dict*, determine if *s* can be segmented into a space-separated sequence of one or more dictionary words.

For example, given

s = "hallmark",

dict = ["hall", "mark"].

Return true because "hallmark" can be segmented as "hall mark".

Solutions:

class Solution:

 # @param s, a string

 # @param dict, a set of string

 # @return a boolean

 def wordBreak(self, s, dict):

 if len(s) == 0 or len(dict) == 0:

 return False

 dp = [0]

 for i in range(1, len(s) + 1):

 for j in range(len(dp) - 1, -1, -1):

 substr = s[dp[j] : i]

 if substr in dict:

 dp.append(i)

 break

 return dp[-1] == len(s)

dict = ["hall", "mark"]

Solution().wordBreak("hallmark",dict)