AlgoExpert Quad Layout Python 12px Sublime Monokai 00:00:00

Prompt Scratchpad Our Solution(s) Video Explanation Run Code

Solution 1 Solution 2

25

```
1 \, # Copyright @ 2020 AlgoExpert, LLC. All rights reserved.
 3 \, # O(2^(n + m)) time \mid O(n + m) space - where n is the length
 4\, # of the first string and m is the length of the second string
 5 def interweavingStrings(one, two, three):
       if len(three) != len(one) + len(two):
           return False
9
       return areInterwoven(one, two, three, 0, 0)
10
11
12 def areInterwoven(one, two, three, i, j):
13
       k = i + j
       if k == len(three):
14
15
16
        if i < len(one) and one[i] == three[k]:</pre>
17
           if areInterwoven(one, two, three, i + 1, j):
18
19
               return True
20
21
        if j < len(two) and two[j] == three[k]:</pre>
22
           return areInterwoven(one, two, three, i, j + 1)
23
24
        return False
```