AlgoExpert

Solution 1 Solution 2

**Quad Layout** 

Python

Sublime

Monokai

00:00:

Run Code

Our Solution(s)

```
Run Code
```

**Your Solutions** 

14рх

Solution 1 Solution 2 Solution 3

```
1 # Copyright © 2020 AlgoExpert, LLC. All rights reserved.
   # O(nm) time | O(nm) space - where n is the length of the
   \ensuremath{\text{\#}} first string and \ensuremath{\text{m}} is the length of the second string
 5 def interweavingStrings(one, two, three):
       if len(three) != len(one) + len(two):
           return False
 8
        cache = [[None for j in range(len(two) + 1)] for i in range(len(o
9
10
        11
12
13
   def areInterwoven(one, two, three, i, j, cache):
14
       if cache[i][j] is not None:
15
           return cache[i][j]
16
17
       k = i + j
       if k == len(three):
18
19
           return True
20
21
       if i < len(one) and one[i] == three[k]:</pre>
22
           cache[i][j] = areInterwoven(one, two, three, i + 1, j, cache)
23
           if cache[i][j]:
               return True
25
26
       if j < len(two) and two[j] == three[k]:</pre>
27
           cache[i][j] = areInterwoven(one, two, three, i, j + 1, cache)
28
           return cache[i][j]
29
30
       cache[i][j] = False
31
        return False
```

```
1 def interweavingStrings(one, two, three):
2  # Write your code here.
3  pass
4
```

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Run or submit code when you're ready.

and searched or sent throughout the co. Inc. the

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