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

Prompt Scratchpad Our Solution(s) Video Explanation Run Code

Solution 1 Solution 2

```
1\, // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
 3 // O(2^{n + m}) time | O(n + m) space - where n is the length
 4 // of the first string and m is the length of the second string
 5 function interweavingStrings(one, two, three) {
    if (three.length !== one.length + two.length) {
      return false;
8
10
    return areInterwoven(one, two, three, 0, 0);
11 }
12
13 function areInterwoven(one, two, three, i, j) \{
14
     const k = i + j;
15
      if (k === three.length) return true;
16
     if (i < one.length && one[i] === three[k]) {</pre>
17
18
       if (areInterwoven(one, two, three, i + 1, j)) return true;
19
20
21
      if (j < two.length && two[j] === three[k]) {</pre>
22
       return areInterwoven(one, two, three, i, j + 1);
23
24
25
     return false;
26 }
27
28 exports.interweavingStrings = interweavingStrings;
```