Solution 1 Solution 2

14px

Our Solution(s)

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Run Code

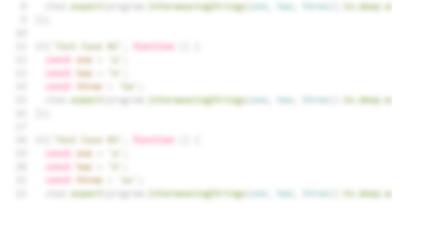
```
Your Solutions Run Code
```

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
   3 // O(nm) time | O(nm) space - where n is the length of the
   4\, // 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
  9
10
                const cache = new Array(one.length + 1).fill(0).map(_ => new Array(
11
                  return areInterwoven(one, two, three, 0, 0, cache);
12 }
13
14
          function areInterwoven(one, two, three, i, j, cache) {
                 if (cache[i][j] !== null) return cache[i][j];
16
17
                  const k = i + j;
                 if (k === three.length) return true;
18
19
20
                  if (i < one.length && one[i] === three[k]) {</pre>
                     cache[i][j] = areInterwoven(one, two, three, i + 1, j, cache);
21
22
                        if (cache[i][j]) return true;
23
24
25
                   \begin{tabular}{ll} \be
26
                      cache[i][j] = areInterwoven(one, two, three, i, j + 1, cache);
27
                        return cache[i][j];
28
29
30
                 cache[i][j] = false;
31
                return false;
32 }
33
```

```
function interweavingStrings(one, two, three) {
   // Write your code here.
}

// Do not edit the line below.
exports.interweavingStrings = interweavingStrings;
```

 Our Tests
 Custom Output
 Submit Code



Run or submit code when you're ready.