Run Code

```
Our Solution(s)
```

Run Code

```
Your Solutions
```

Solution 1 Solution 2

```
import java.util.*;

class Program {
  public static boolean interweavingStrings(String one, String two, St
  // Write your code here.
  return false;
}

8 }
```

Solution 3

```
Solution 1 Solution 2
 1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
   import java.util.*;
   class Program {
     // O(nm) time | O(nm) space - where n is the length of the
      \ensuremath{//} first string and m is the length of the second string
      public static boolean interweavingStrings(String one, String two, S
        if (three.length() != one.length() + two.length()) {
10
         return false;
11
12
13
        Boolean[][] cache = new Boolean[one.length() + 1][two.length() +
14
        return areInterwoven(one, two, three, 0, 0, cache);
15
16
17
      public static boolean areInterwoven(
         String one, String two, String three, int i, int j, Boolean[][]
18
19
        if (cache[i][j] != null) return cache[i][j];
20
21
        int k = i + j;
        if (k == three.length()) {
         return true;
24
26
        if (i < one.length() && one.charAt(i) == three.charAt(k)) {</pre>
27
          cache[i][j] = areInterwoven(one, two, three, i + 1, j, cache);
28
          if (cache[i][j]) return true;
29
30
31
        if (j < two.length() && two.charAt(j) == three.charAt(k)) {</pre>
          var result = areInterwoven(one, two, three, i, j + 1, cache);
33
          cache[i][j] = result;
```

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Run or submit code when you're ready.