

Our Solution(s)

Run Code

Your Solutions

Run Code

Solution 1

Solution 2

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 using namespace std;
4
5 bool areInterwoven(string one, string two, string three, int i, int j)
6
7 // O(2^(n + m)) time | O(n + m) space - where n is the length
8 // of the first string and m is the length of the second string
9 bool interweavingStrings(string one, string two, string three) {
10     if (three.size() != one.size() + two.size()) {
11         return false;
12     }
13
14     return areInterwoven(one, two, three, 0, 0);
15 }
16
17 bool areInterwoven(string one, string two, string three, int i, int j,
18     int k = i + j;
19     if (k == three.size())
20         return true;
21
22     if (i < one.size() && one[i] == three[k]) {
23         if (areInterwoven(one, two, three, i + 1, j))
24             return true;
25     }
26
27     if (j < two.size() && two[j] == three[k]) {
28         return areInterwoven(one, two, three, i, j + 1);
29     }
30
31     return false;
32 }
33
```

Solution 1

Solution 2

Solution 3

```
1 using namespace std;
2
3 bool interweavingStrings(string one, string two, string three) {
4     // Write your code here.
5     return false;
6 }
7
```

Our Tests

Custom Output

Submit Code

Test 1

Passed

Test 2

Passed

Test 3

Passed

Test 4

Passed

Test 5

Passed

Test 6

Passed

Test 7

Passed

Test 8

Passed

Test 9

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Test 10

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Test 11

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Test 12

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Test 13

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Test 14

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Test 15

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Test 16

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Test 200

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```
10 string Word = "W";
11 evenLetterCountingPoints, Yes, Word = Word;
12
13
14 printf("Test Case 2", 2);
15 string s1 = "W";
16 string s2 = "W";
17 string Word = "W";
18 evenLetterCountingPoints, Yes, Word = Word;
19
20
21 printf("Test Case 3", 3);
22 string s1 = "W";
23 string s2 = "W";
24 string Word = "W";
```

Run or submit code when you're ready.