

Our Solution(s)Run Code

Solution 1Solution 2

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 class Program {
4     // O(nm) time | O(min(n, m)) space
5     public static int levenshteinDistance(String str1, String str2) {
6         String small = str1.length() < str2.length() ? str1 : str2;
7         String big = str1.length() >= str2.length() ? str1 : str2;
8         int[] evenEdits = new int[small.length() + 1];
9         int[] oddEdits = new int[small.length() + 1];
10        for (int j = 0; j < small.length() + 1; j++) {
11            evenEdits[j] = j;
12        }
13
14        int[] currentEdits;
15        int[] previousEdits;
16        for (int i = 1; i < big.length() + 1; i++) {
17            if (i % 2 == 1) {
18                currentEdits = oddEdits;
19                previousEdits = evenEdits;
20            } else {
21                currentEdits = evenEdits;
22                previousEdits = oddEdits;
23            }
24            currentEdits[0] = i;
25            for (int j = 1; j < small.length() + 1; j++) {
26                if (big.charAt(i - 1) == small.charAt(j - 1)) {
27                    currentEdits[j] = previousEdits[j - 1];
28                } else {
29                    currentEdits[j] =
30                        1 + Math.min(previousEdits[j - 1], Math.min(previousEdits[j], previousEdits[j + 1]));
31                }
32            }
33        }
```

Your SolutionsRun Code

Solution 1Solution 2Solution 3

```
1 class Program {
2     public static int levenshteinDistance(String str1, String str2) {
3         // Write your code here.
4         return -1;
5     }
6 }
7
```

