

Our Solution(s)

Run Code

Your Solutions

Run Code

Solution 1	Solution 2	Solution 1	Solution 2	Solution 3
<pre>1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved. 2 3 using System; 4 using System.Collections.Generic; 5 6 public class Program { 7 // O(n^2) time O(d) space - where n is the number of 8 // nodes in each array, respectively, and d is the depth 9 // of the BST that they represent 10 public static bool SameBsts(List<int> arrayOne, List<int> arrayTwo) 11 { 12 return areSameBsts(arrayOne, arrayTwo, 0, 0, Int32.MinValue, Int32.MaxValue); 13 } 14 15 public static bool areSameBsts(List<int> arrayOne, List<int> arrayTwo, 16 int rootIdxOne, int rootIdxTwo, int minVal, int maxVal) { 17 if (rootIdxOne == -1 rootIdxTwo == -1) return rootIdxOne == rootIdxTwo; 18 19 if (arrayOne[rootIdxOne] != arrayTwo[rootIdxTwo]) return false; 20 21 int leftRootIdxOne = getIdxOfFirstSmaller(arrayOne, rootIdxOne, minVal); 22 int leftRootIdxTwo = getIdxOfFirstSmaller(arrayTwo, rootIdxTwo, minVal); 23 int rightRootIdxOne = getIdxOfFirstBiggerOrEqual(arrayOne, rootIdxOne, arrayOne[rootIdxOne]); 24 int rightRootIdxTwo = getIdxOfFirstBiggerOrEqual(arrayTwo, rootIdxTwo, arrayTwo[rootIdxTwo]); 25 26 bool leftAreSame = areSameBsts(arrayOne, arrayTwo, leftRootIdxOne, leftRootIdxTwo, minVal, arrayOne[rootIdxOne]); 27 bool rightAreSame = areSameBsts(arrayOne, arrayTwo, rightRootIdxOne, rightRootIdxTwo, arrayOne[rootIdxOne], maxVal); 28 29 return leftAreSame && rightAreSame; 30 } 31 32 private static int getIdxOfFirstSmaller(List<int> array, int startIdx, int minVal) { 33 for (int i = startIdx; i < array.Count; i++) { 34 if (array[i] < minVal) return i; 35 } 36 return -1; 37 } 38 39 private static int getIdxOfFirstBiggerOrEqual(List<int> array, int startIdx, int val) { 40 for (int i = startIdx; i < array.Count; i++) { 41 if (array[i] >= val) return i; 42 } 43 return -1; 44 } 45 }</pre>		<pre>1 using System.Collections.Generic; 2 3 public class Program { 4 public static bool SameBsts(List<int> arrayOne, List<int> arrayTwo) 5 { 6 // Write your code here. 7 return false; 8 } 9 }</pre>		

Run or submit code when you're ready.

Run or submit code when you're ready.