

Prompt	Scratchpad	Our Solution(s)	Video Explanation	Run Code
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Solution 1	Solution 2	Solution 3
<pre>1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved. 2 3 ▼ import java.util.*; 4 5 ▼ class Program { 6 // O(n) time O(n) space - where n is the length of the array 7 ▼ public static BST minHeightBst(List<Integer> array) { 8 return constructMinHeightBst(array, 0, array.size() - 1); 9 } 10 11 ▼ public static BST constructMinHeightBst(List<Integer> array, int startIdx, int endIdx) { 12 if (endIdx < startIdx) return null; 13 int midIdx = (startIdx + endIdx) / 2; 14 BST bst = new BST(array.get(midIdx)); 15 bst.left = constructMinHeightBst(array, startIdx, midIdx - 1); 16 bst.right = constructMinHeightBst(array, midIdx + 1, endIdx); 17 return bst; 18 } 19 20 ▼ static class BST { 21 public int value; 22 public BST left; 23 public BST right; 24 25 ▼ public BST(int value) { 26 this.value = value; 27 left = null; 28 right = null; 29 } 30 31 // We don't use this method for this solution. 32 ▼ public void insert(int value) { 33 ▼ if (value < this.value) { 34 ▼ if (left == null) { 35 left = new BST(value); 36 ▼ } else { 37 left.insert(value); 38 } 39 ▼ } else { 40 ▼ if (right == null) { 41 right = new BST(value); 42 ▼ } else { 43 right.insert(value); 44 } 45 } 46 } 47 } 48 } 49</pre>		

