

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 ▾ class Program { 4     // O(n) time   O(n) space - where n is the length of the array 5     ▾ static func minHeightBST(_ array: [Int]) -&gt; BST? { 6         return constructMinHeightBst(array, 0, array.count - 1) 7     } 8 9     ▾ static func constructMinHeightBst(_ array: [Int], _ startIdx: Int, _ endIdx: Int) -&gt; BST? { 10    ▾ if endIdx &lt; startIdx { 11        return nil 12    } 13 14    var midIdx = (startIdx + endIdx) / 2 15    var bst = BST(value: array[midIdx]) 16    bst.left = constructMinHeightBst(array, startIdx, midIdx - 1) 17    bst.right = constructMinHeightBst(array, midIdx + 1, endIdx) 18    return bst 19 } 20 21 ▾ class BST { 22     var value: Int 23     var left: BST? 24     var right: BST? 25 26     ▾ init(value: Int) { 27         self.value = value 28     } 29 30     // We don't use this method for this solution. 31     ▾ func insert(value: Int) { 32     ▾ if value &lt; self.value { 33     ▾ if let left = self.left { 34         left.insert(value: value) 35     } else { 36         left = BST(value: value) 37     } 38     } else { 39     ▾ if let right = self.right { 40         right.insert(value: value) 41     } else { 42         right = BST(value: value) 43     } 44     } 45 } 46 } 47 } 48</pre>		

