

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 // O(nlog(n)) time O(n) space - where n is the length of the array 4 ▾ function minHeightBst(array) { 5 return constructMinHeightBst(array, null, 0, array.length - 1); 6 } 7 8 ▾ function constructMinHeightBst(array, bst, startIdx, endIdx) { 9 if (endIdx < startIdx) return; 10 const midIdx = Math.floor((startIdx + endIdx) / 2); 11 const valueToAdd = array[midIdx]; 12 ▾ if (bst === null) { 13 bst = new BST(valueToAdd); 14 } else { 15 bst.insert(valueToAdd); 16 } 17 constructMinHeightBst(array, bst, startIdx, midIdx - 1); 18 constructMinHeightBst(array, bst, midIdx + 1, endIdx); 19 return bst; 20 } 21 22 ▾ class BST { 23 ▾ constructor(value) { 24 this.value = value; 25 this.left = null; 26 this.right = null; 27 } 28 29 ▾ insert(value) { 30 ▾ if (value < this.value) { 31 ▾ if (this.left === null) { 32 this.left = new BST(value); 33 } else { 34 this.left.insert(value); 35 } 36 } else { 37 ▾ if (this.right === null) { 38 this.right = new BST(value); 39 } else { 40 this.right.insert(value); 41 } 42 } 43 } 44 } 45 46 exports.minHeightBst = minHeightBst; 47</pre>		

