

Prompt	Scratchpad	Our Solution(s)	Video Explanation	Run Code
Solution 1				
<pre>1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved. 2 3 class Program { 4 class BST { 5 var value: Int? 6 var left: BST? 7 var right: BST? 8 9 init(value: Int) { 10 self.value = value 11 left = nil 12 right = nil 13 } 14 } 15 16 // O(n) time O(d) space 17 func validateBST(tree: BST) -> Bool { 18 var minimum = Int(Int32.min) 19 var maximum = Int(Int32.max) 20 return validateBSTHelper(tree: tree, minimum: &minimum, maximum: &maximum) 21 } 22 23 func validateBSTHelper(tree: BST?, minimum: inout Int, maximum: inout Int) -> Bool { 24 if tree == nil { 25 return true 26 } 27 28 if let tree = tree, let value = tree.value, value < minimum value >= maximum { 29 return false 30 } 31 32 if var treeValue = tree?.value { 33 let leftIsValid = validateBSTHelper(tree: tree?.left, minimum: &minimum, maximum: &treeValue) 34 let rightIsValid = validateBSTHelper(tree: tree?.right, minimum: &treeValue, maximum: &maximum) 35 36 return leftIsValid && rightIsValid 37 } else { 38 return false 39 } 40 } 41 } 42</pre>				

Your Solutions				Run Code
Solution 1	Solution 2	Solution 3		
<pre>1 class Program { 2 // This is an input class. Do not edit. 3 class BST { 4 var value: Int? 5 var left: BST? 6 var right: BST? 7 8 init(value: Int) { 9 self.value = value 10 left = nil 11 right = nil 12 } 13 } 14 15 func validateBST(tree: BST) -> Bool { 16 // Write your code here. 17 return false 18 } 19 } 20</pre>				

Custom Output	Raw Output	Submit Code
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Run or submit code when you're ready.