

Our Solution(s)

Run Code

Your Solutions

Run Code

Solution 1

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 class Program {
4     class BinaryTree {
5         var value: Int
6         var parent: BinaryTree?
7         var left: BinaryTree?
8         var right: BinaryTree?
9
10        init(value: Int, parent: BinaryTree?) {
11            self.value = value
12            self.parent = parent
13        }
14    }
15
16    // O(n) time | O(1) space
17    func iterativeInOrderTraversal(_ tree: BinaryTree, _ callback: (Bi
18        var previousNode: BinaryTree?
19        var currentNode: BinaryTree? = tree
20
21        while currentNode != nil {
22            let nextNode: BinaryTree?
23            if previousNode == nil || previousNode == currentNode?.p
24                if currentNode?.left != nil {
25                    nextNode = currentNode?.left
26                } else {
27                    callback(currentNode!)
28                    nextNode = currentNode?.right != nil ? currentNod
29                }
30            } else if previousNode == currentNode?.left {
31                callback(currentNode!)
32                nextNode = currentNode?.right != nil ? currentNode?.r
33            } else {
```

Solution 1   Solution 2   Solution 3

```
1 class Program {
2     class BinaryTree {
3         var value: Int
4         var parent: BinaryTree?
5         var left: BinaryTree?
6         var right: BinaryTree?
7
8         init(value: Int, parent: BinaryTree?) {
9             self.value = value
10            self.parent = parent
11        }
12    }
13
14    func iterativeInOrderTraversal(_ tree: BinaryTree, _ callback: (Bi
15        // Write your code here.
16    }
17 }
18
```

Our Tests

Custom Output

Submit Code



Run or submit code when you're ready.