

Solution 1

```
1  # Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3  # O(n) time | O(1) space
4  def iterativeInOrderTraversal(tree, callback):
5      previousNode = None
6      currentNode = tree
7      while currentNode is not None:
8          if previousNode is None or previousNode == currentNode.parent:
9              if currentNode.left is not None:
10                 nextNode = currentNode.left
11             else:
12                 callback(currentNode)
13                 nextNode = currentNode.right if currentNode.right is not None else currentNode.parent
14         elif previousNode == currentNode.left:
15             callback(currentNode)
16             nextNode = currentNode.right if currentNode.right is not None else currentNode.parent
17         else:
18             nextNode = currentNode.parent
19         previousNode = currentNode
20         currentNode = nextNode
21
```

