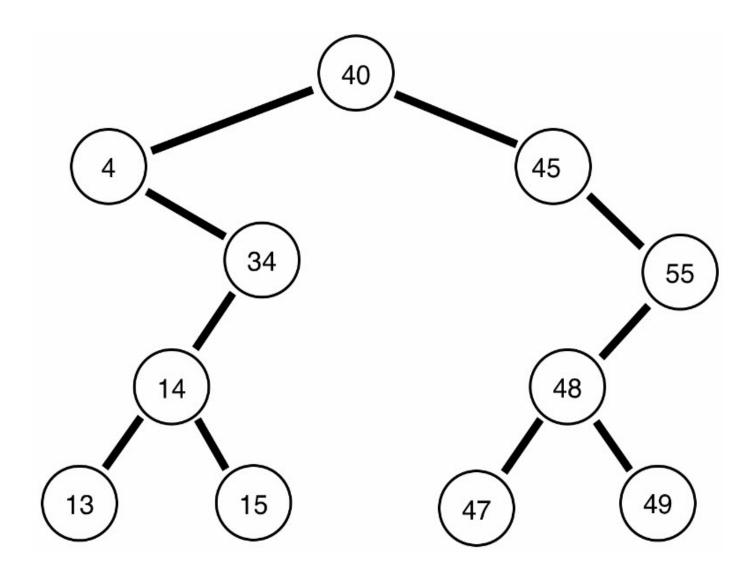


In order traversal => 1-3-4-5-6-7-8-10-13-14

Preorder => 8-3-1-6-4-5-7-10-14-13

Post order => 1-5-4-7-6-3-13-14-10-8



Inorder traversal => 4,13,14,15,34,40,,45,47,48,49,55

Preorder => 4,14,13,15,34,40,48,47,49,55,45

Post order => 13, 15, 14, 34, 4, 47, 49, 48, 55, 45, 40

```
class TreeNode:
    def __init__(self, val=0, left=None, right=None):
        self.val = val
        self.left = left
        self.right = right
class Solution:
   def isSameTree(self, p: TreeNode, q: TreeNode) -> bool:
        # If both nodes are None, they are the same
        if not p and not q:
            return True
        # If one node is None and the other is not, they are different
        if not p or not q:
            return False
        # If the values are not the same, they are different
        if p.val != q.val:
            return False
        return self.isSameTree(p.left, q.left) and self.isSameTree(p.right,
q.right)
p1 = TreeNode(1)
p1.left = TreeNode(2)
p1.right = TreeNode(3)
q1 = TreeNode(1)
q1.left = TreeNode(2)
q1.right = TreeNode(3)
p2=TreeNode(1)
p2.left=TreeNode(2)
q2=TreeNode(1)
q2.right=TreeNode(2)
p3 = TreeNode(1)
p3.left = TreeNode(2)
p3.right = TreeNode(1)
q3 = TreeNode(1)
q3.left = TreeNode(1)
```

```
q3.right = TreeNode(2)
solution = Solution()
print(solution.isSameTree(p1, q1))
print(solution.isSameTree(p2, q2))
print(solution.isSameTree(p3, q3))
                                                                                                                ▷ ~ □ …
X Welcome
               hw1q1.py
                            palindrome.py
                                             hw1dummy.py
                                                              hw3q3binarytree.py X
hw2.py
  ♦ hw3q3binarytree.py > ...
   1
   2
       class TreeNode:
         def __init__(self, val=0, left=None, right=None):
   3
   4
          self.val = val
        self.left = left
   5
        self.right = right
   6
   7
       class Solution:
   8
   9
        def isSameTree(self, p: TreeNode, q: TreeNode) -> bool:
  10
        *** # If both nodes are None, they are the same
  11
        if not p and not q:
  12
        ··· return True
        *** If one node is None and the other is not, they are different
  13
        ··· if not p or not q:
  14
  15
        ··· return False
        .... # If the values are not the same. they are different
                                                                                                        ∨ ≡ A ↑ ∧ ×
 PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
                                                                                        Code
 [Running] python -u "c:\Users\cheth\OneDrive\Desktop\SFBU\SEM3\ALGORITHMS\tempCodeRunnerFile.py"
 True
 False
 False
 [Done] exited with code=0 in 0.187 seconds
                                                                                          Activate Windows
                                                                                          Go to Settings to activate Windows.
                                                    Ln 1, Col 1 (1166 selected) Spaces: 4 UTF-8 CRLF ( Python 3.9.13 64-bit (microsoft store)
                                                                                                                   5:08 PM
           Q Search
                                                                                                   ^ 合 令句) 🗈
                                                                                                                   6/5/2023
```