Problem Statement -1: Given a binary tree, write a program that will return true if the binary tree is a mirror image of itself, and false if it is not.

Input: Tree

The correct output given this binary tree would be true because it is symmetrical else false.

Code:

```
class TreeNode:
  def init (self, val=0, left=None, right=None):
     self.val = val
     self.left = left
     self.right = right
def isMirror(root1, root2):
  if root1 is None and root2 is None:
     return True
  if root1 is None or root2 is None:
     return False
  return (root1.val == root2.val) and isMirror(root1.left, root2.right) and
isMirror(root1.right, root2.left)
def isSymmetric(root):
  if root is None:
     return True
  return isMirror(root.left, root.right)
# Example usage
root = TreeNode(1)
```

```
root.left = TreeNode(2)
root.right = TreeNode(2)
root.left.left = TreeNode(3)
root.left.right = TreeNode(4)
root.right.left = TreeNode(4)
root.right.right = TreeNode(3)
print(isSymmetric(root))
```

OUTPUT:

```
True

...Program finished with exit code 0
Press ENTER to exit console.
```