

Symmetric Binary Tree

```
1 # Definition for a binary tree node.
2 # class TreeNode(object):
3 #     def __init__(self, x):
4 #         self.val = x
5 #         self.left = None
6 #         self.right = None
7 class Solution(object):
8     def isSymmetric(self, root):
9         """
10         input: TreeNode root
11         return: boolean
12         """
13         # write your solution here
14         if not root:
15             return True
16         return self.helper(root.left, root.right)
17
18     def helper(self, root1, root2):
19         if not root1 and not root2:
20             return True
21         if not root1 or not root2:
22             return False
23         if root1.val != root2.val:
24             return False
25         return self.helper(root1.left, root2.right), self.helper(root1.right, root2.left)
```