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# Checking if a binary tree is a full binary tree in Python


# Creating a node
class Node:

    def __init__(self, item):
        self.item = item
        self.leftChild = None
        self.rightChild = None


# Checking full binary tree
def isFullTree(root):

    # Tree empty case
    if root is None:
        return True

    # Checking whether child is present
    if root.leftChild is None and root.rightChild is None:
        return True

    if root.leftChild is not None and root.rightChild is not None:
        return (isFullTree(root.leftChild) and isFullTree(root.rightChild))

    return False


root = Node(1)
root.rightChild = Node(3)
root.leftChild = Node(2)

root.leftChild.leftChild = Node(4)
root.leftChild.rightChild = Node(5)
root.leftChild.rightChild.leftChild = Node(6)
root.leftChild.rightChild.rightChild = Node(7)

if isFullTree(root):
    print("The tree is a full binary tree")
else:
    print("The tree is not a full binary tree")
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 The tree is a full binary tree
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