Problem 5: Given a binary tree, Find the Lowest Common Ancestor for two given Nodes (x,y).

```
class Node:
    def __init__(self, value):
        self.value = value
        self.left = None
        self.right = None


def find_lowest_common_ancestor(root, x, y):
    if root is None:
        return None

    if root.value == x or root.value == y:
        return root.value

    left_lca = find_lowest_common_ancestor(root.left, x, y)
    right_lca = find_lowest_common_ancestor(root.right, x, y)
    if left_lca is not None and right_lca is not None:
        return root.value

    return left_lca if left_lca is not None else right_lca

root = Node(3)
root.left = Node(6)
root.right = Node(8)
root.left.left = Node(2)
root.left.right = Node(11)
root.left.right.left = Node(9)
root.left.right.right = Node(5)
root.right.right = Node(13)
root.right.right.left = Node(7)
```

```
x = 9

y = 5

lca = find_lowest_common_ancestor(root, x, y)

print("Lowest Common Ancestor of", x, "and", y, "is:", lca)
```