Recursive search algorithm for a BST – Question 9

Search(root(48), 50) ⟵   returns true

    50 > 48 —> goRight to node 78

    Search(Node(78), 50) -> return true

        50 < 78 —> goLeft to node 54

        Search(Node(54), 50) -> return true

            50 < 54 —> goLeft to node 50

            Search(Node(50), 50) -> return true

                50 == 50, return true

Recursive algorithm for deleting a node in a BST – Question 10

Delete(root(48), 34) —> root.left = root(31) ⟵   returns root(48)

    34 < 48 —> goLeft to node 31

    Delete(root(31), 34) —> root.right = null ⟵

        34 > 31 —> goRight to node 34

        Delete(root(34), 34)

        34 == 3, return null