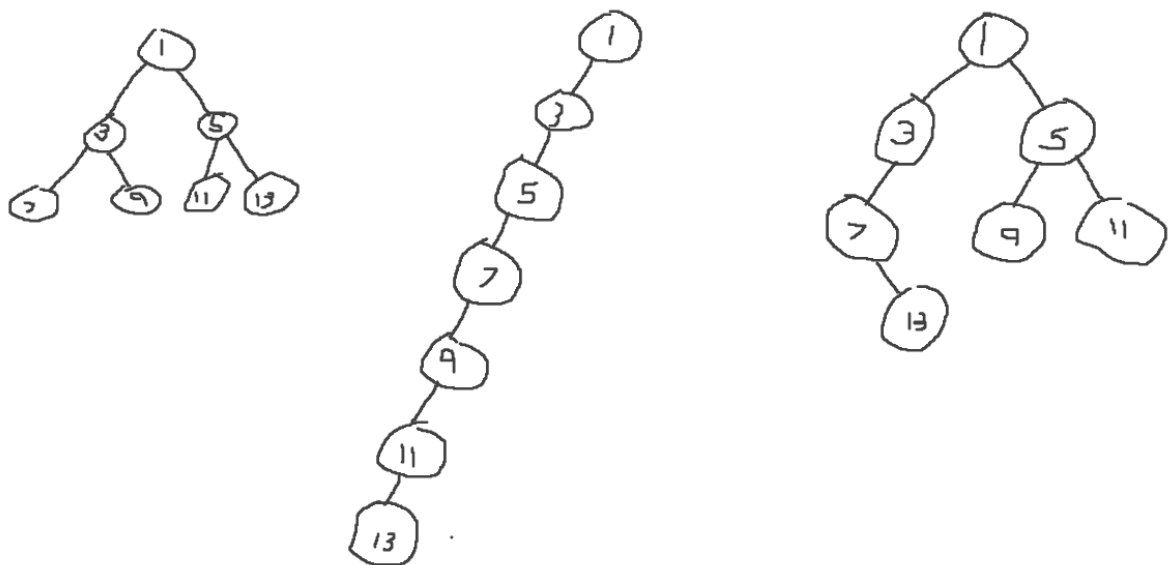
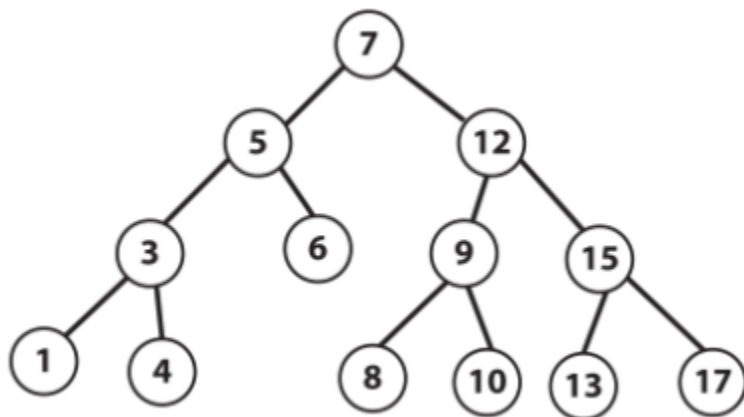


1.



2.



1, 4, 3, 6, 5, 8, 10, 9, 13, 17, 15, 12, 7

3.

non-recursive:

Create empty queue and push root node

While queue is not empty

    Pop node from queue

    If queue is not empty

        Increment counter by 1

    Endif

    Push right child node to queue

    Push left child node to queue

Recursive:

Function getNodeCount(root)

    If root is null

        Return 0

    Else

        Count is zero

        If right child node is not null OR left child node is not null

            Count is one

        Endif

        Return count + getNodeCount(right child node) + getNodeCount(left child node)

    Endif

End function

4.

Function printSearchTree(root, a, b)

    If root is null

        Return

    If root value is greater than a

        printSearchTree(left child node)

    If root value is greater than or equal to a and root value is less than or equal to b

        Print root value

    If root value is less than b

        printSearchTree(right child node)=

    endif

End function

5.

Function sameTree(root1,root2)

    If root1 is null or root2 is null

        Return 1

    If root 1 value equals root 2 value

        If sameTree(root1 left child, root2 left child) == 1

            If sameTree(root1 right child, root2 right child) == 1

                Return 1

        Endif

    Endif

    endif

    Return 0

End function