

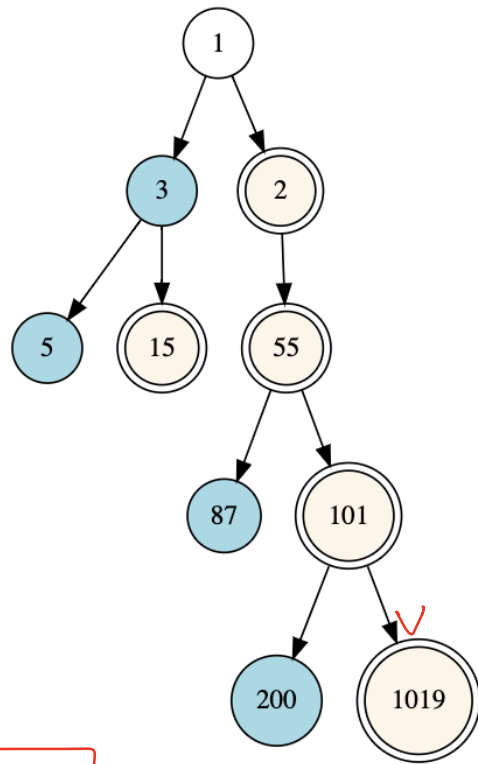
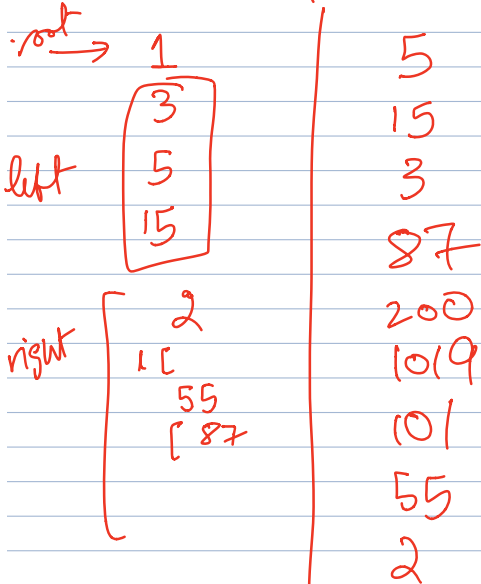
## binary tree

TreeNode  
 - val  
 - left  
 - right

root = TreeNode(5)  
 n1 = TreeNode(2)  
 root.right = n1

## Recursion

Process root  
traverse left  
traverse right



## Depth- first Search (DFS)

T L R

Pre-order traversal

L R T

Post-order traversal

L T R

In-order traversal

~~1, 3, 2, 5, 15, 55, 87, 101,~~  
~~200, 1019~~

1  
3  
2  
5  
15  
55  
87  
101  
200  
1019

Breadth-first Search (BFS)

