Tree diagram with nodes 3, 9, 20, 15, 7

inorder
9 , 3 , 15 , 20 , 7

(1)
preorder : ③, 9 , 20 , 15 , 7
inorder : 9 , 3 , 15 , 20 , 7
root : ③
index : 1

(2)
preorder : ⑨, 20, 15 , 7
inorder : 9
root : ⑨
index : 0

(3)
preorder : ⑳ 15 , 7
inorder : 15 , 20 , 7
root : ⑳
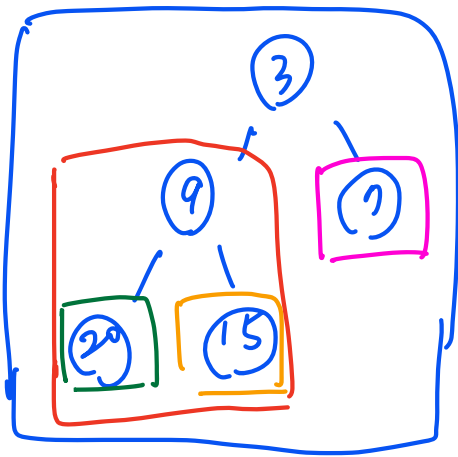index : 1

(4)
preorder : ⑮, 7
inorder : 15
root : ⑮
index : 0

(5)
preorder : ⑦
inorder : 2
root : ⑦
index : 0

**Same preorder**

inorder

20, 9, 15, 3, 2

(1)
preorder: ③, 9, 20, 15, 2
inorder: 20, 9, 15, 3, 2
root: ③
index: 3

(2)
preorder: ⑨, 20, 15, 2
inorder: 20, 9, 15
root: ⑨
index: 1

(5)
preorder: ②
inorder: 2
root: ②
index: 0

(3)
preorder: 20, 15, 2
inorder: 20
root: ㉛
index: 0

(4)
preorder: ⑮, 2
inorder: 15
root: ⑮
index: 0

- preorder rules the node sequence from top to down and left to right.

- Inorder illustrates the subtree nodes with a given node. The left subsequence from that given node in inorder is left subtree. Similarily, the right subsequence from that given node in inorder is right subtree.