Tree diagram (top left):
- Root: 3
- Left child: 9
- Right child: 20
  - Left child: 15
  - Right child: 7

inorder box (top right):
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
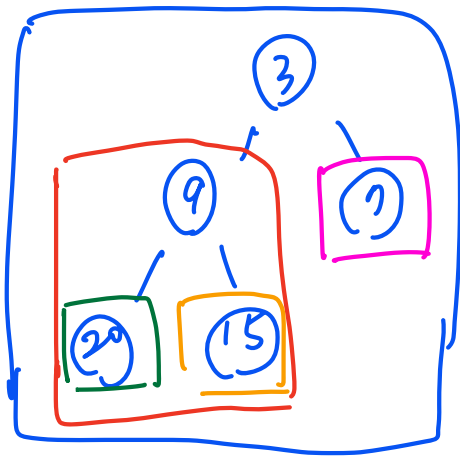index : 1

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

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

(top right) Same preorder

inorder

20, 9, 15, 3, 7

(1)

preorder: ③, 9, 20, 15, 7

inorder: 20, 9, 15, 3, 7

root: ③

index: 3

(2)

preorder: ⑨, 20, 15, 7

inorder: 20, 9, 15

root: ⑨

index: 1

(5)

preorder: ⑦

inorder: 7

root: ⑦

index: 0

(3)

preorder: 20, 15, 7

inorder: 20

root: ⑳

index: 0

(4)

preorder: ⑮, 7

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 sequence in inorder is left subtree, and the right sequence in inorder is right subtree.