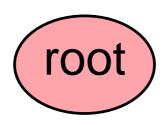
# Pre-lecture Lecture 32

#### Traversal

- Systematic way of visiting/processing all the nodes
- Methods: Preorder, Inorder, and Postorder
- They all traverse the <u>left subtree</u> before the <u>right</u> <u>subtree</u>. It's all about the **position of the root**.

**Preorder** 

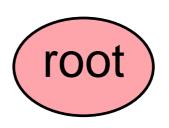


Left subtree

Right subtree

**Inorder** 

Left subtree

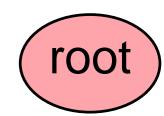


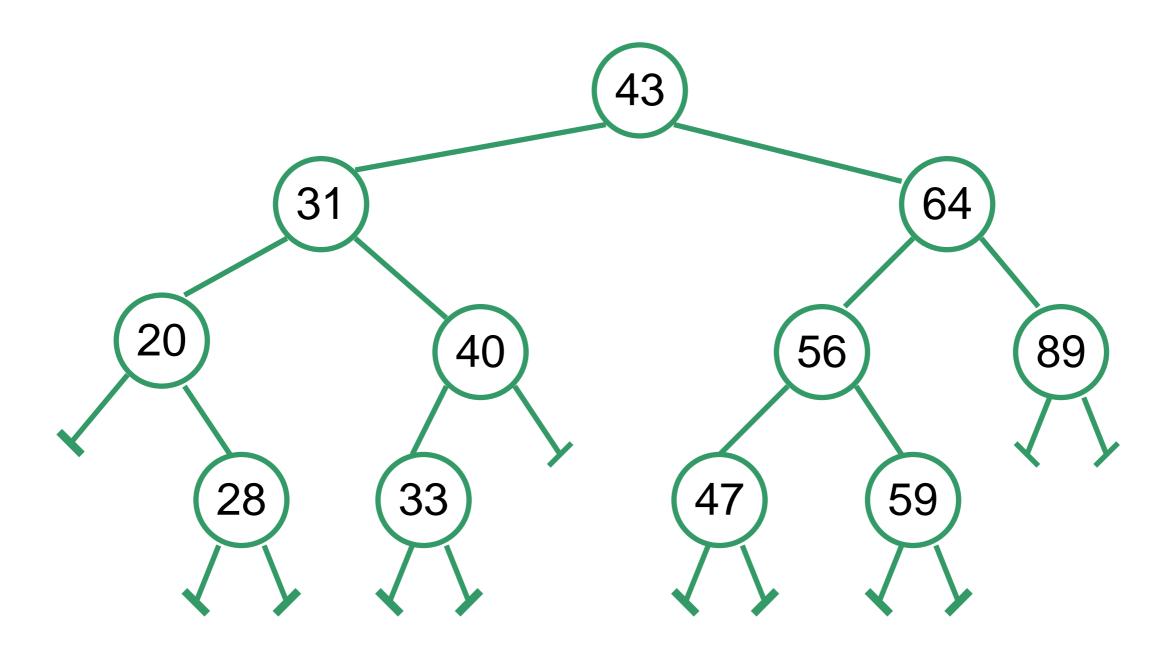
Right subtree

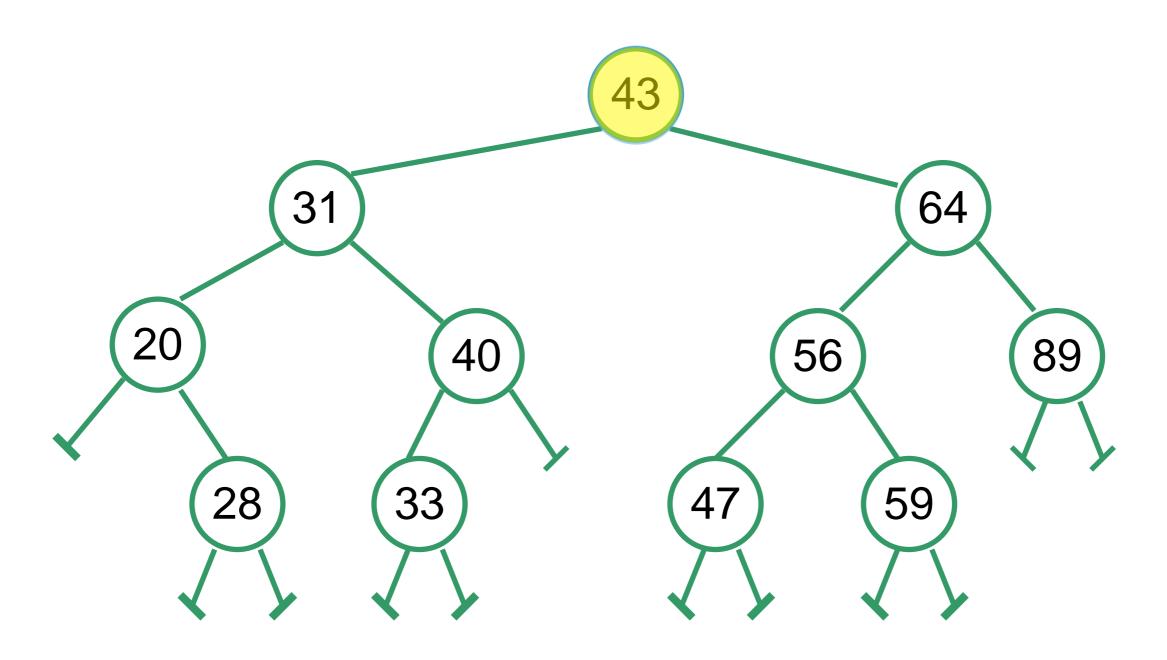
**Postorder** 

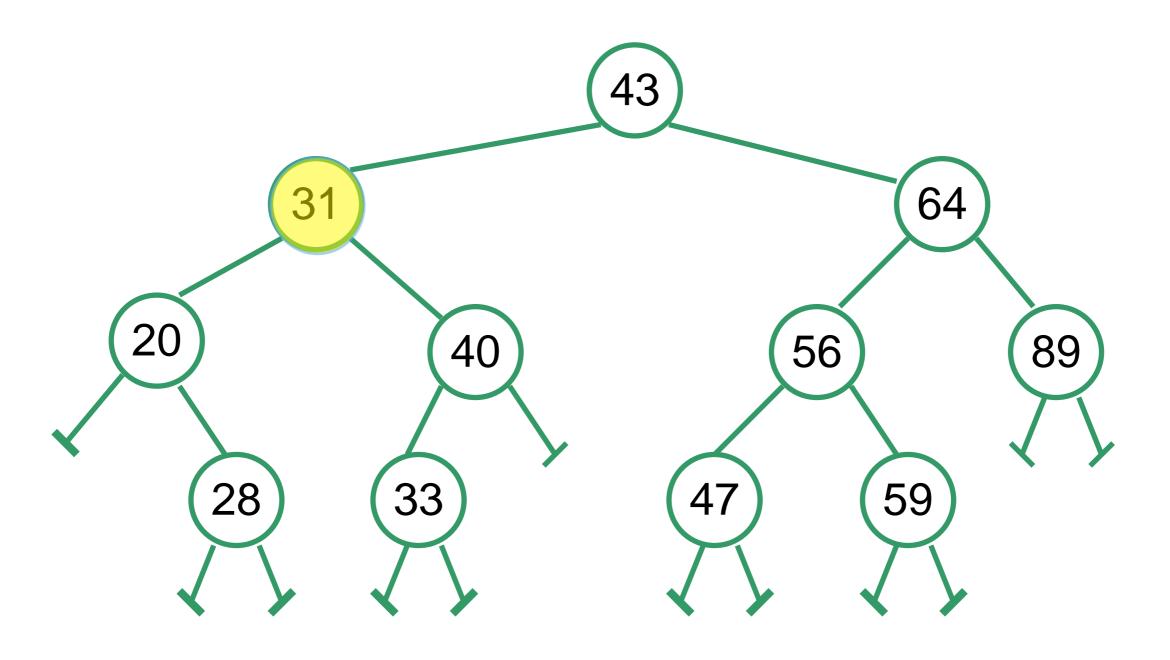
Left subtree

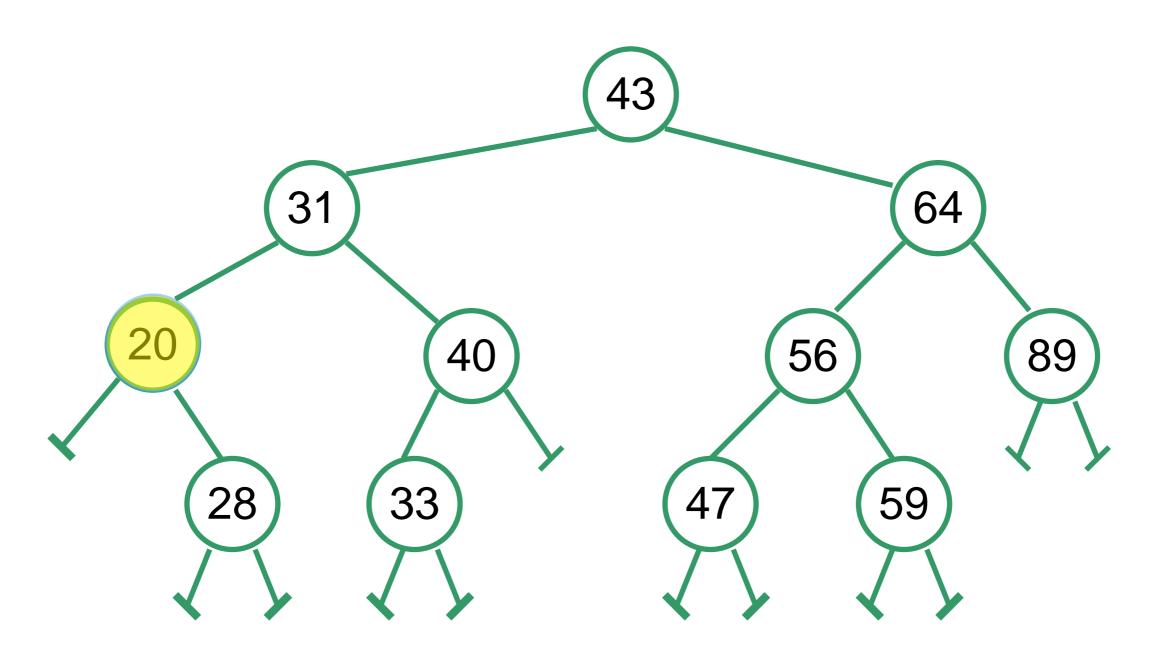
Right subtree

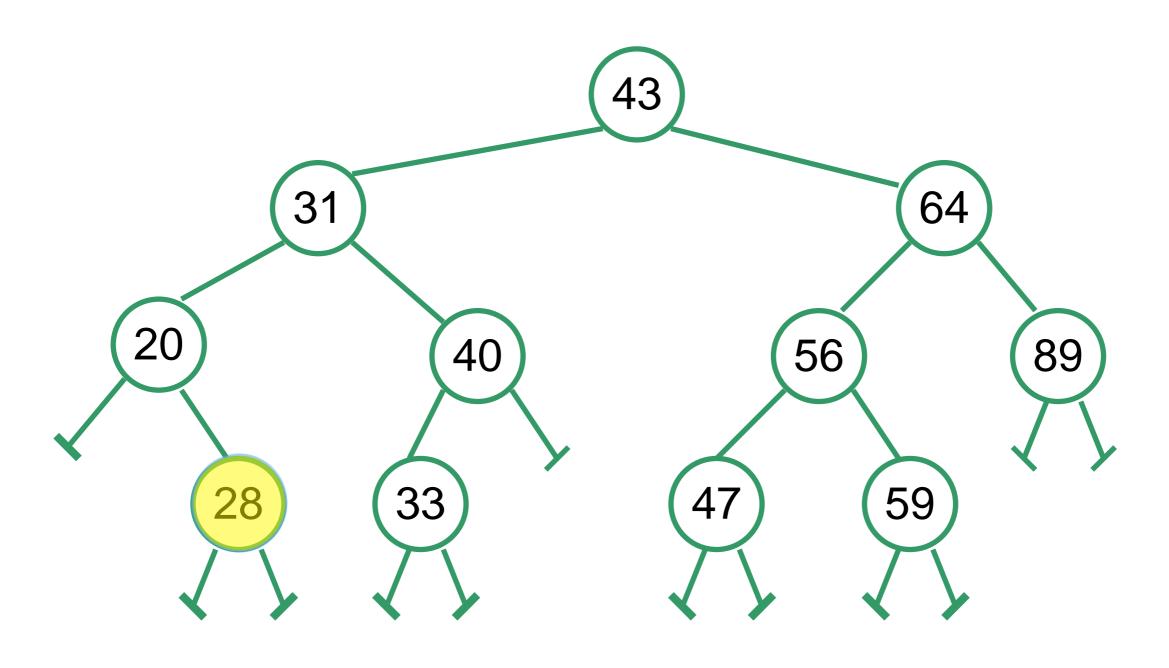




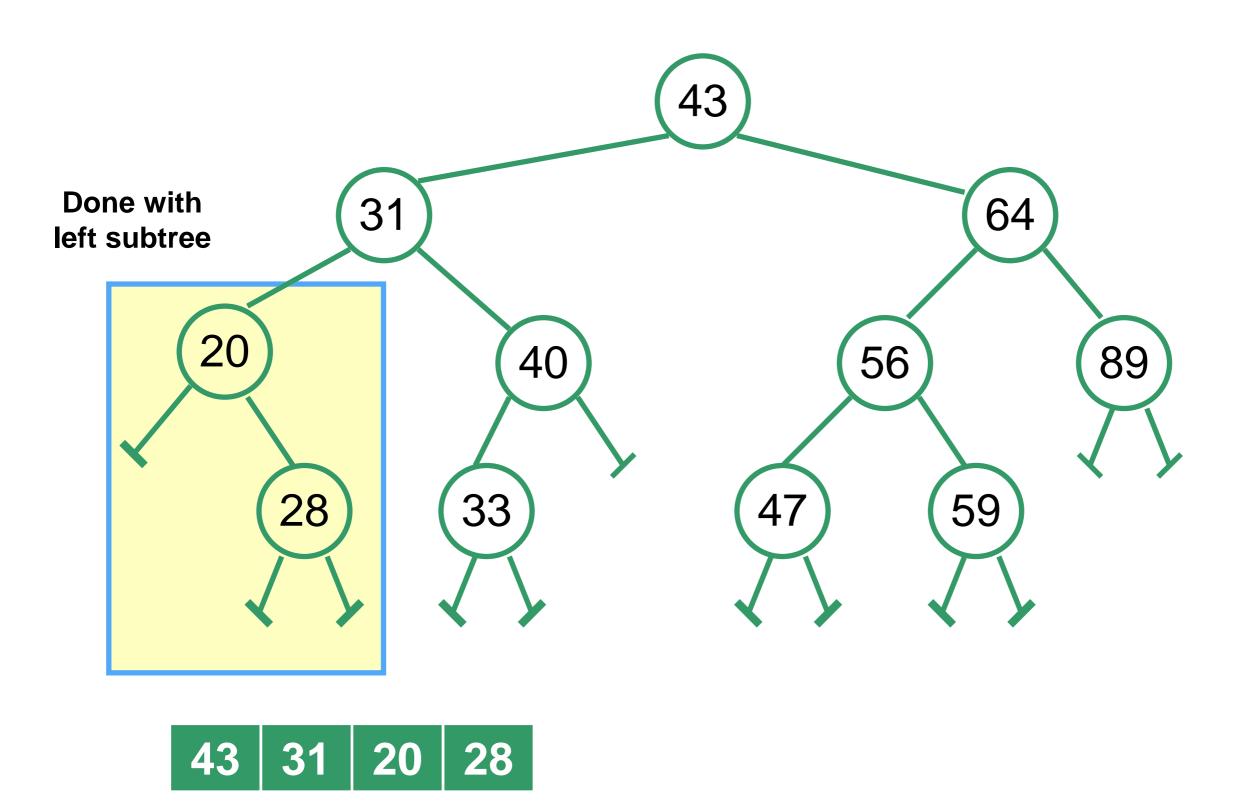


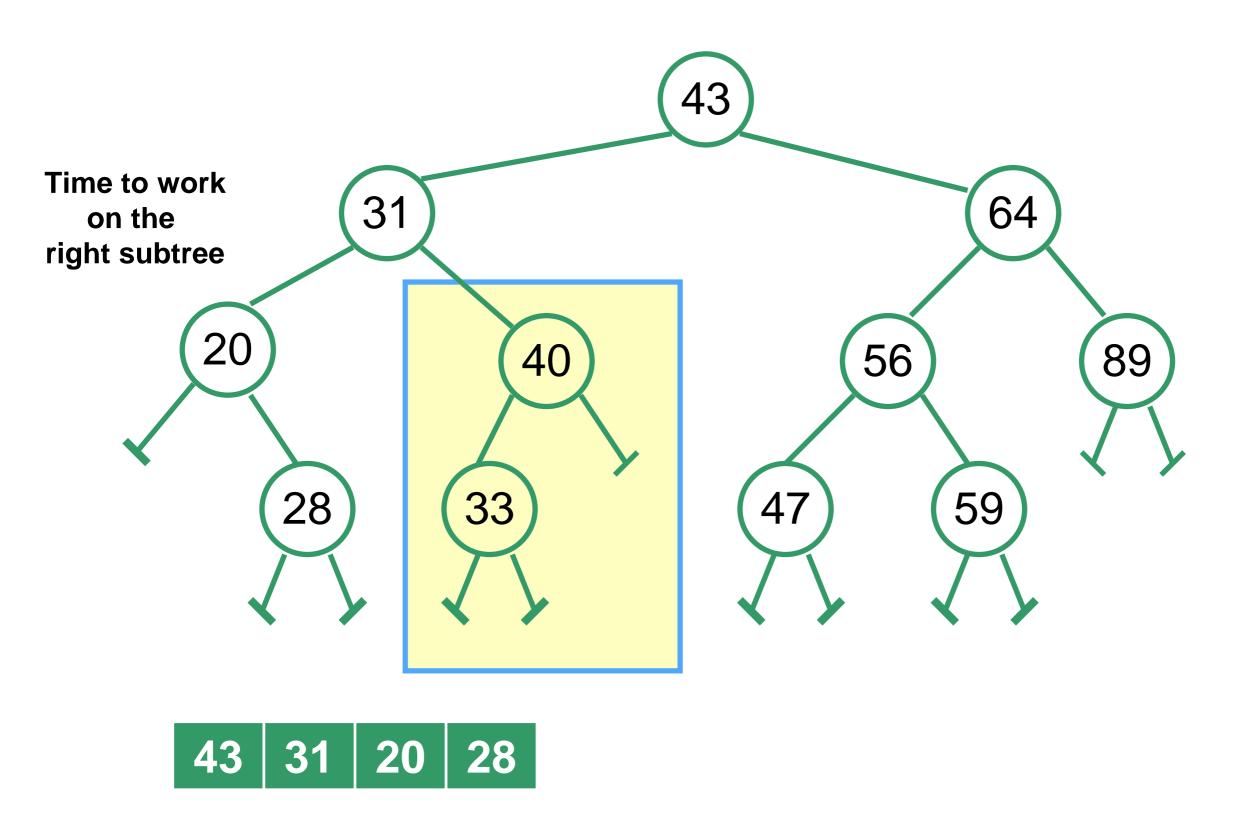


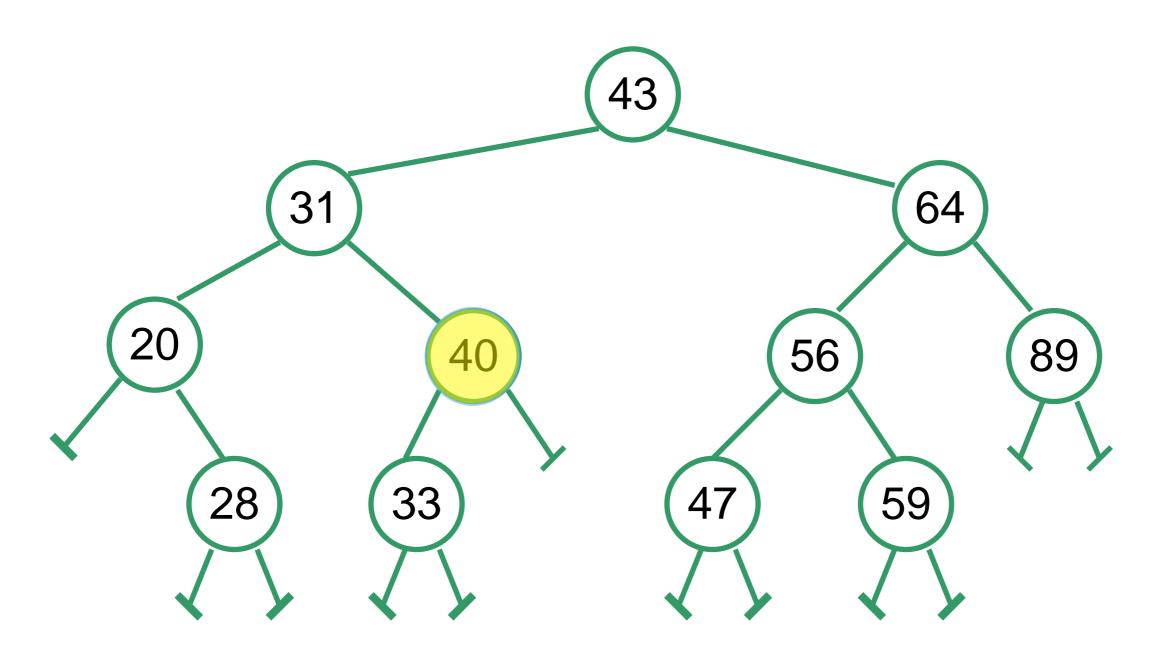




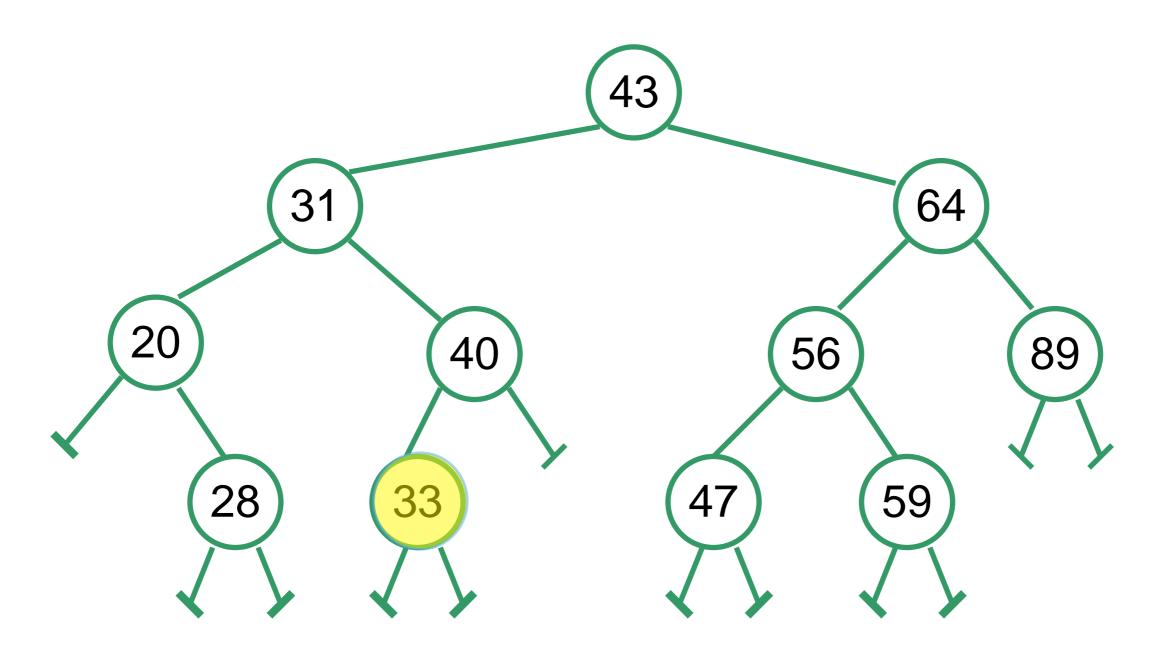
43 31 20 28



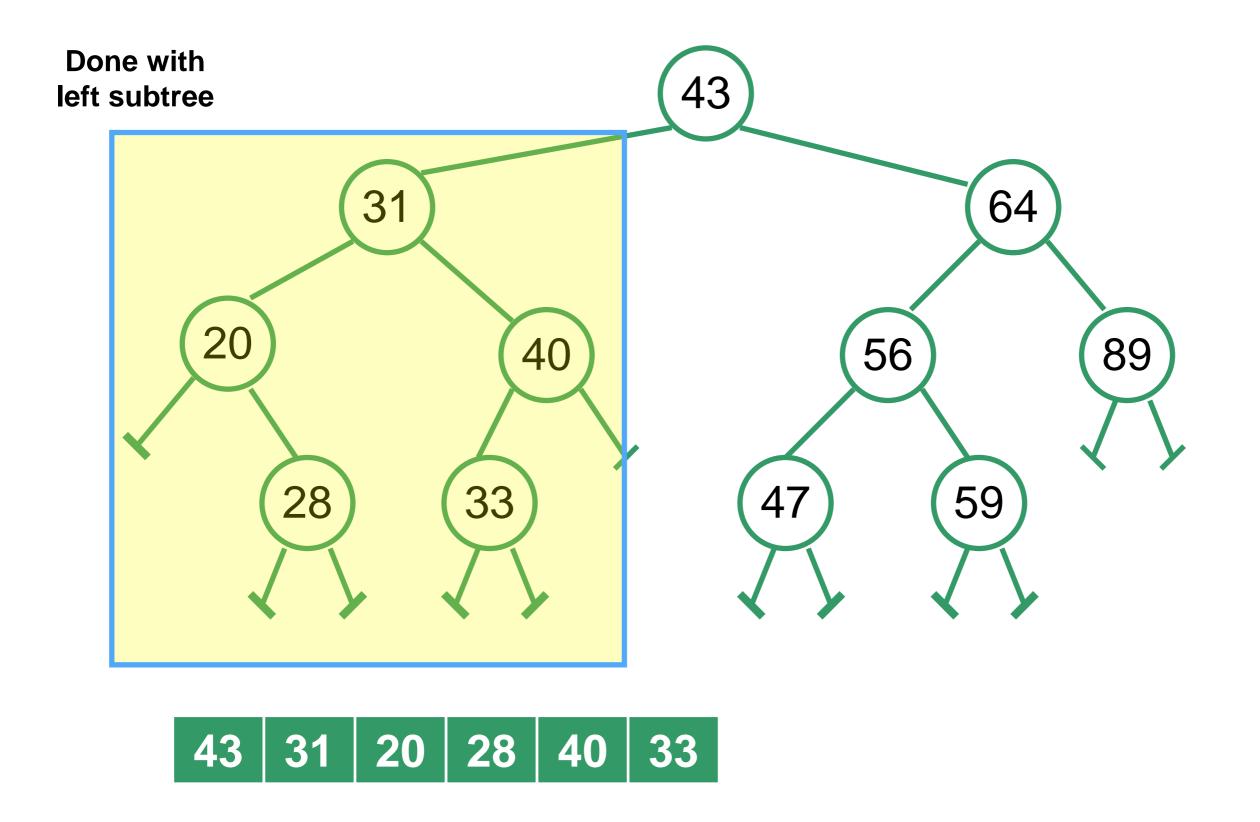


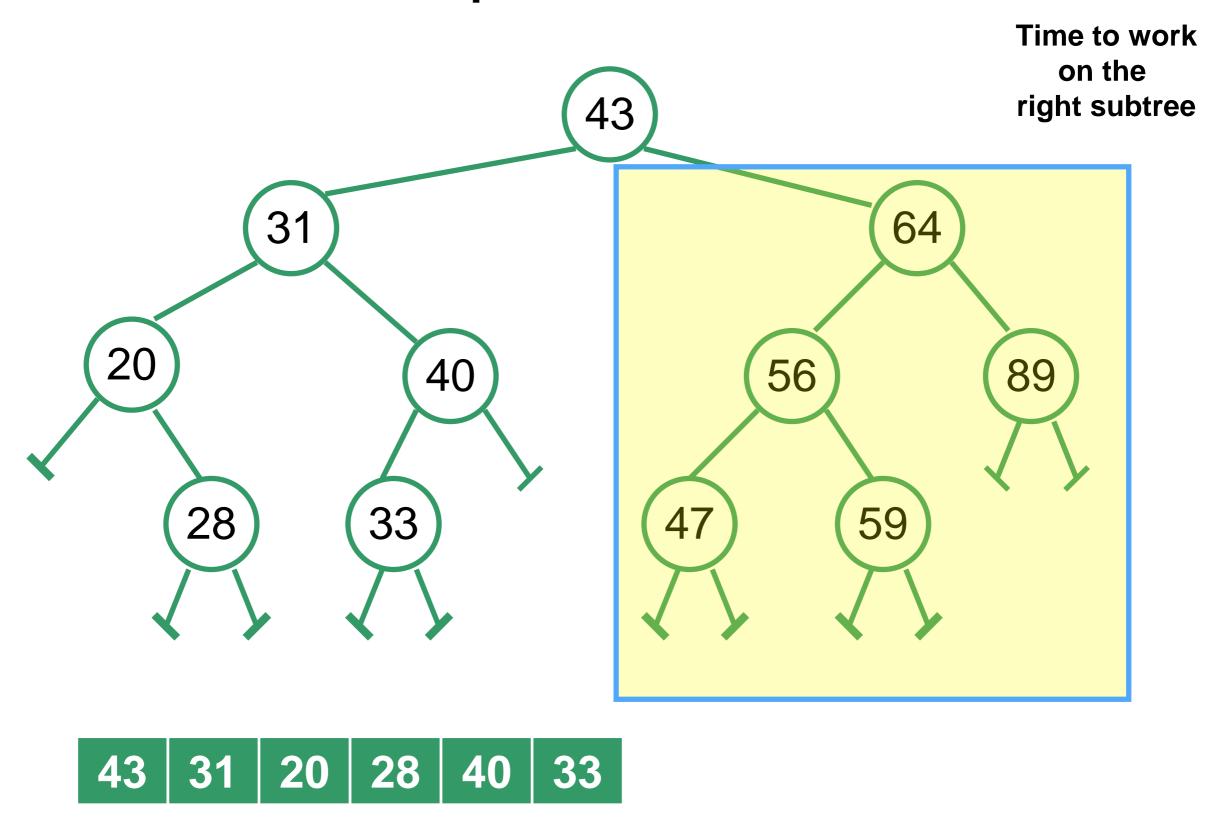


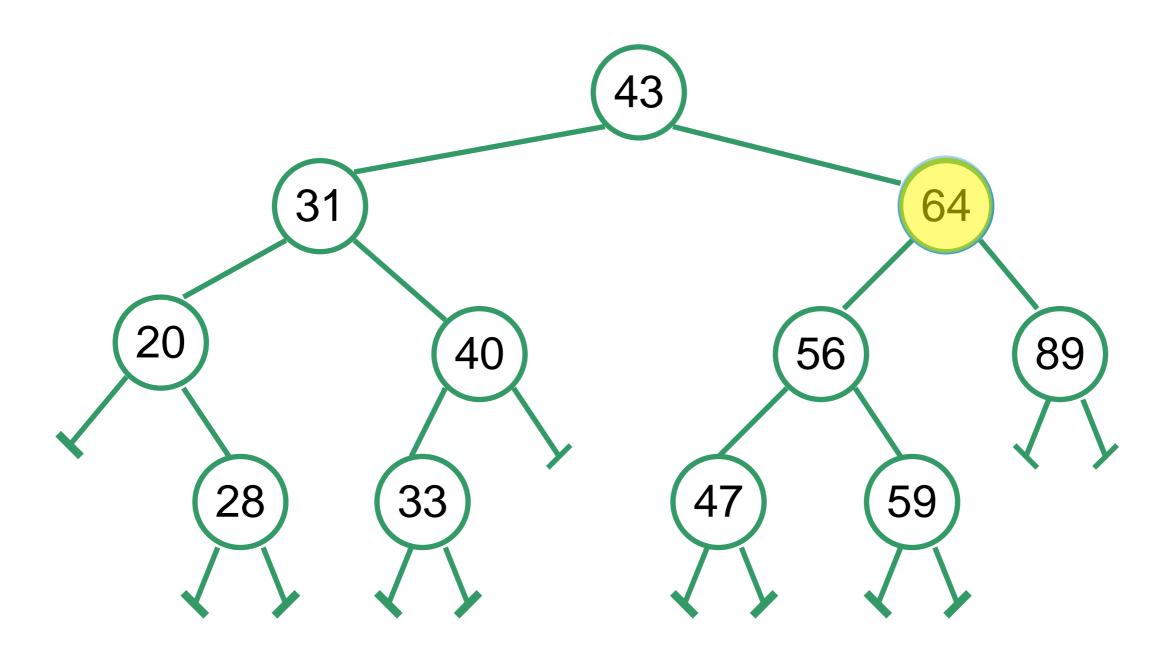
43 31 20 28 40



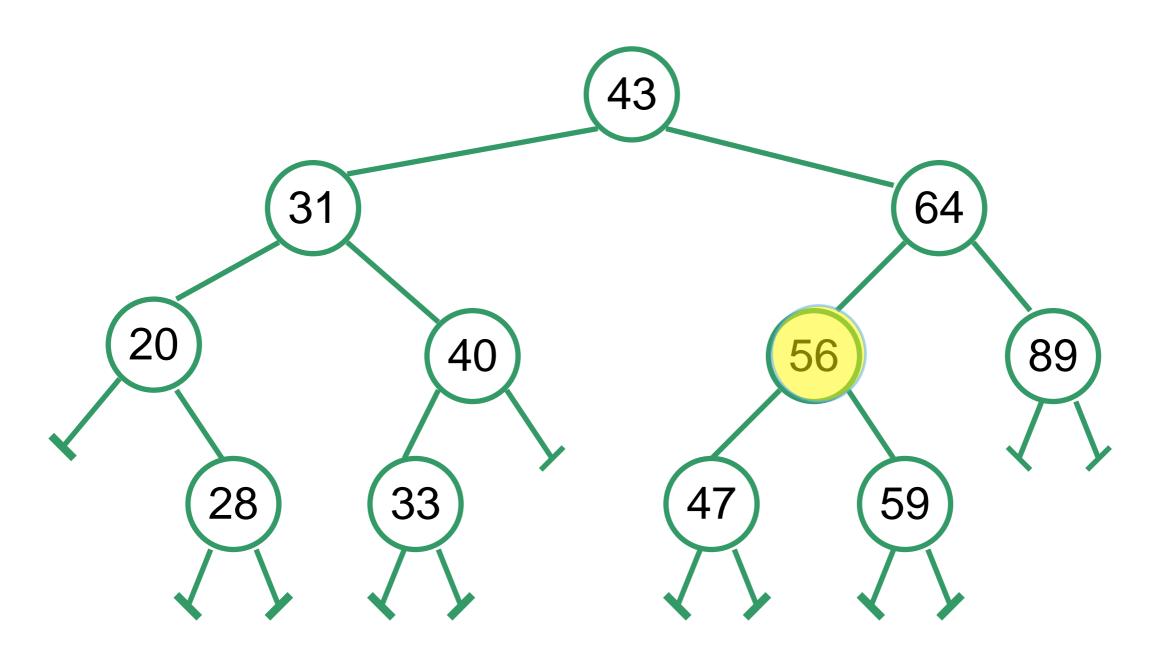
43 31 20 28 40 33



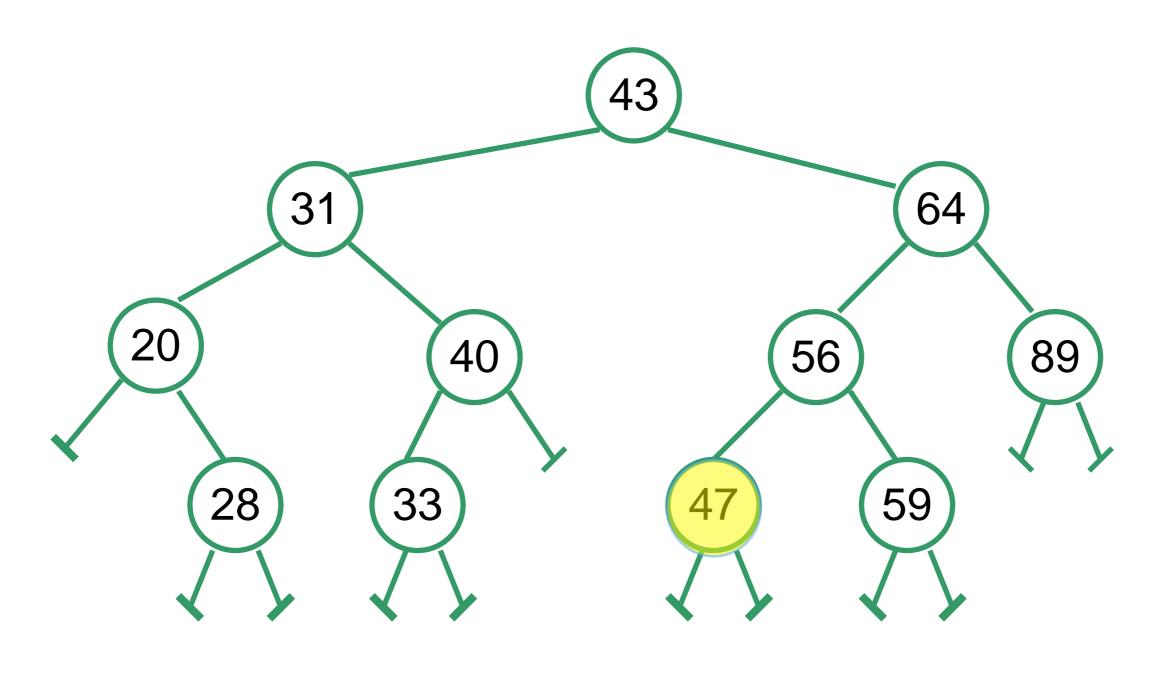




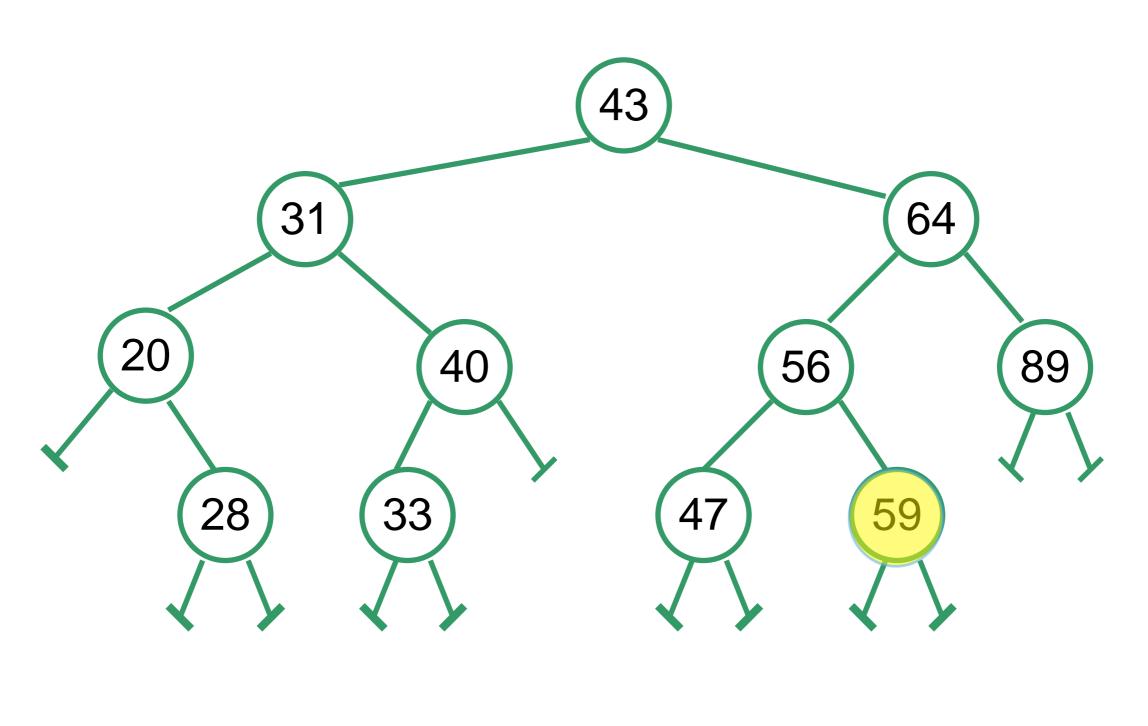
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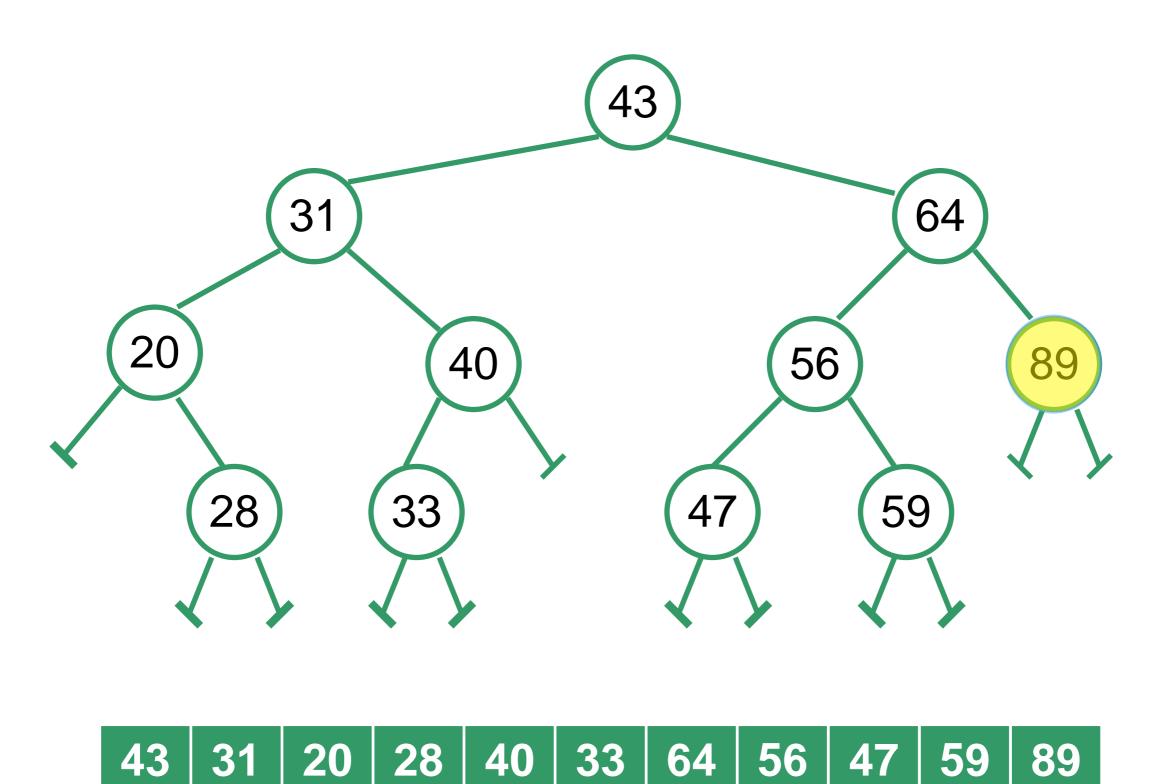


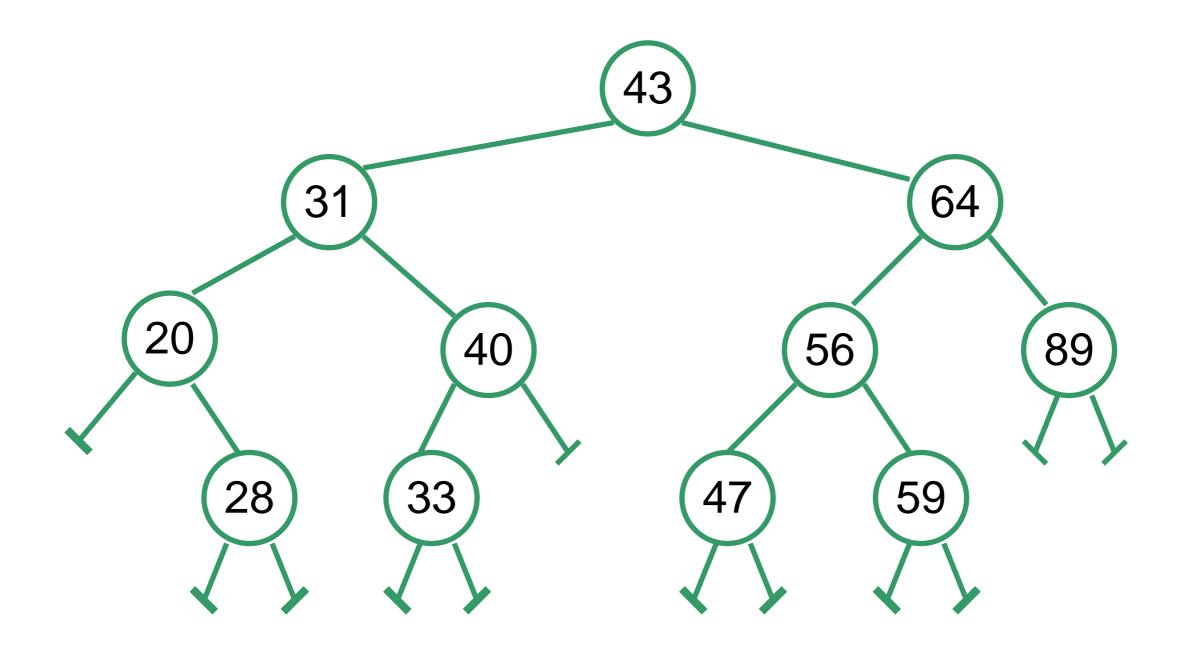
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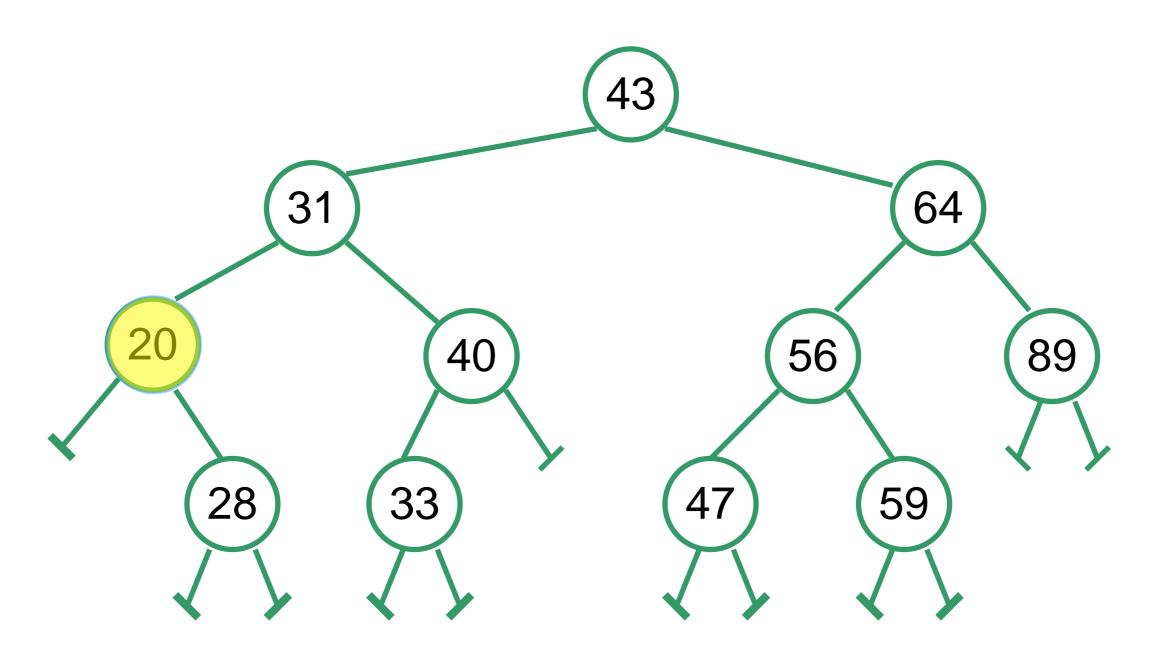


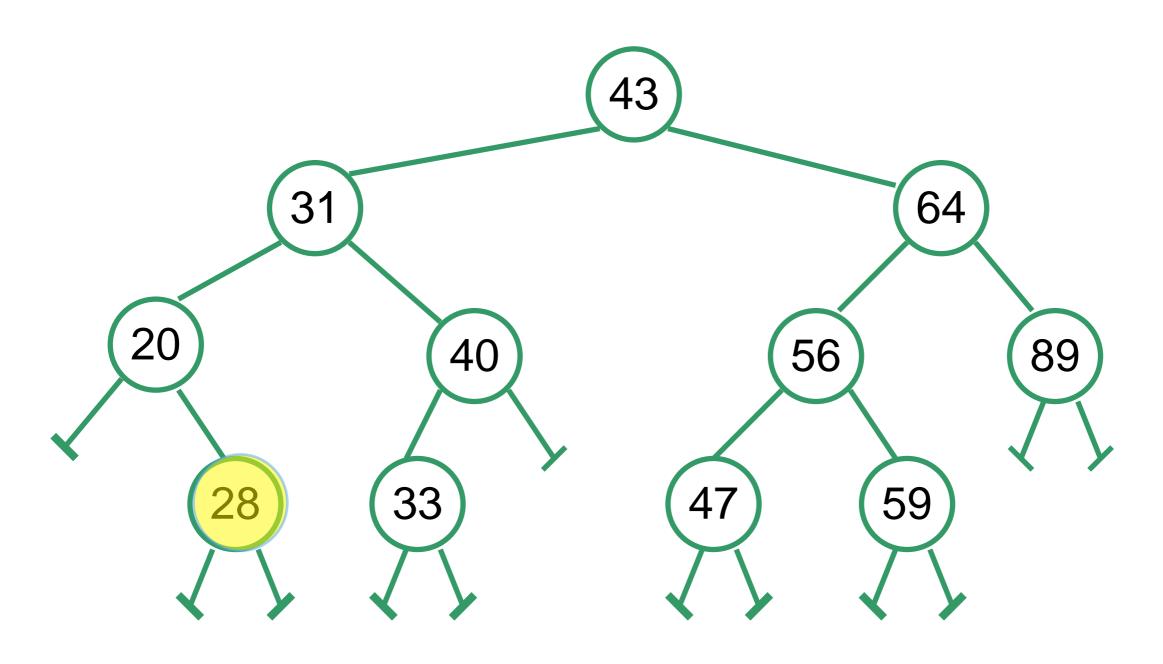
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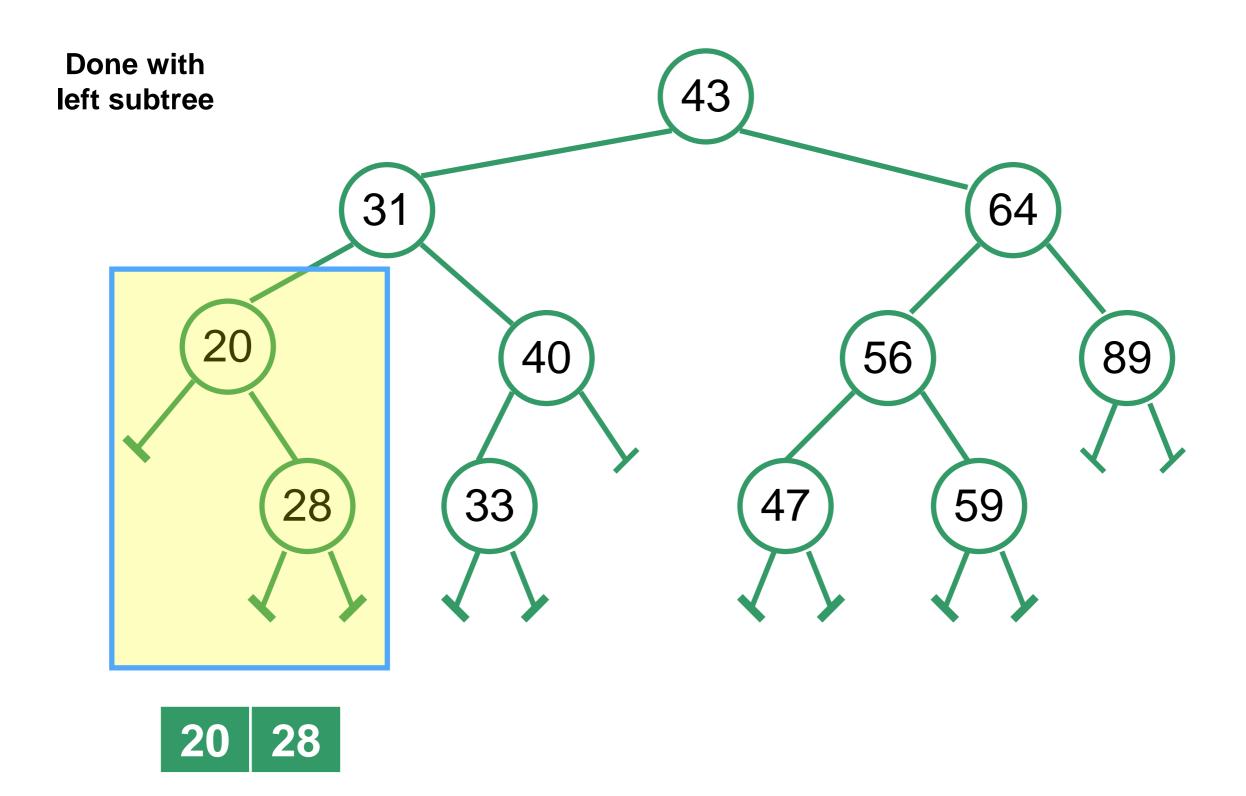


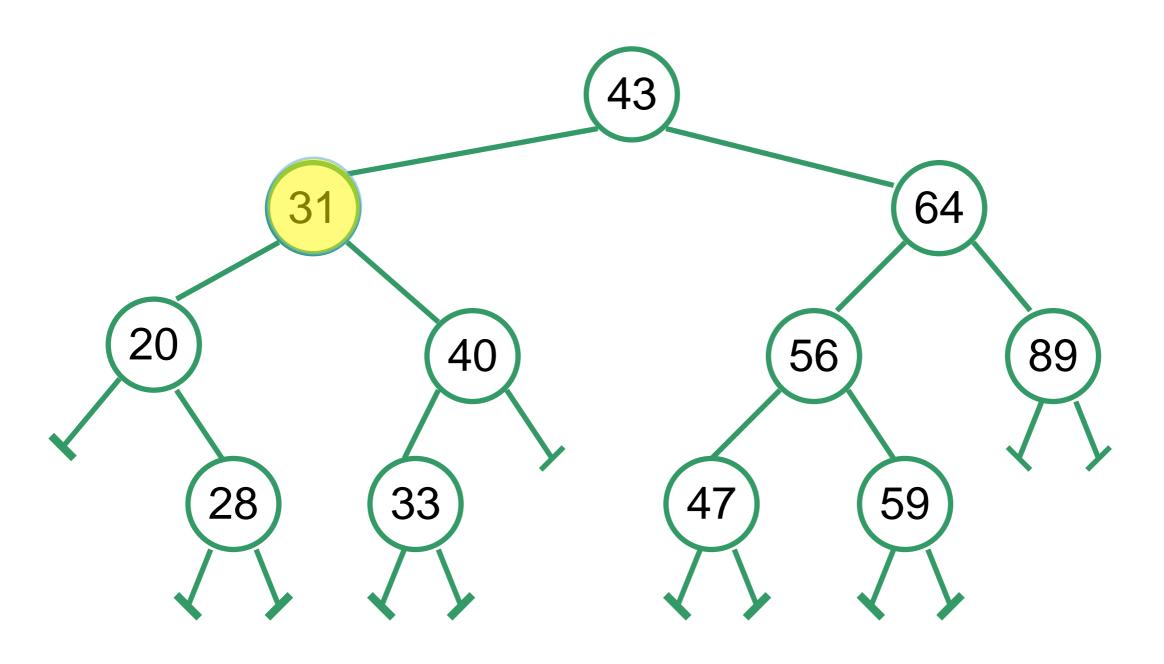


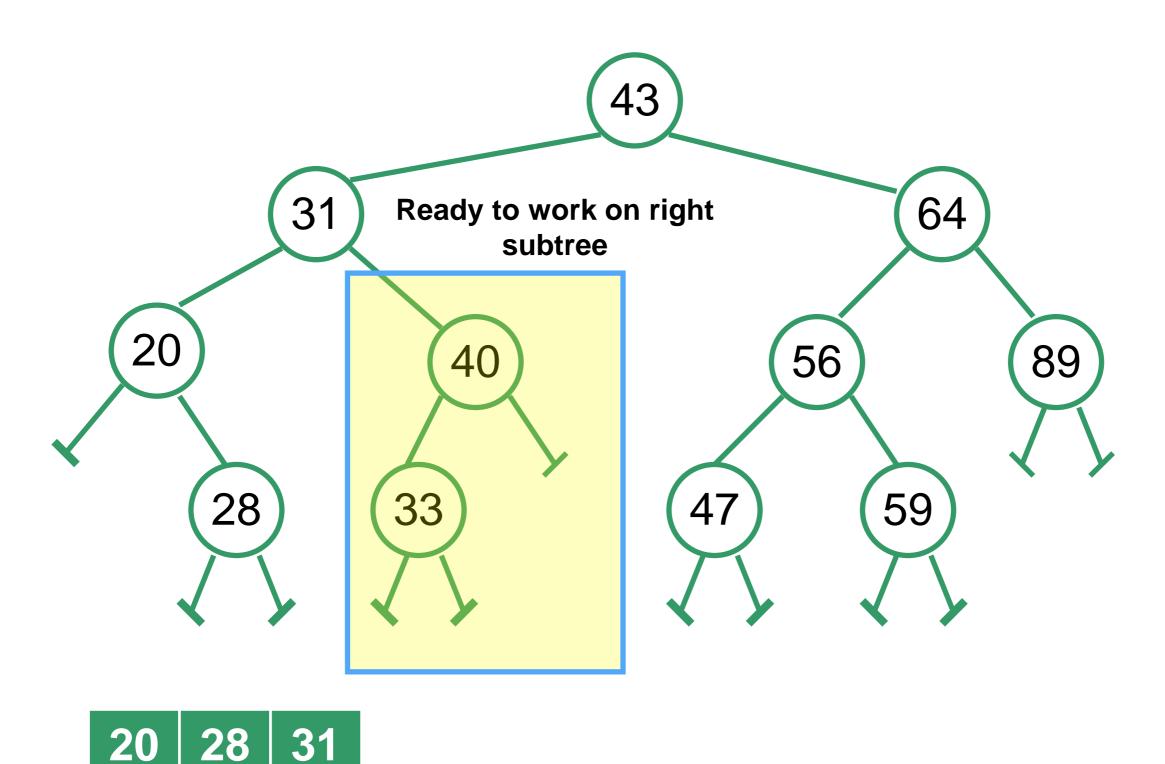


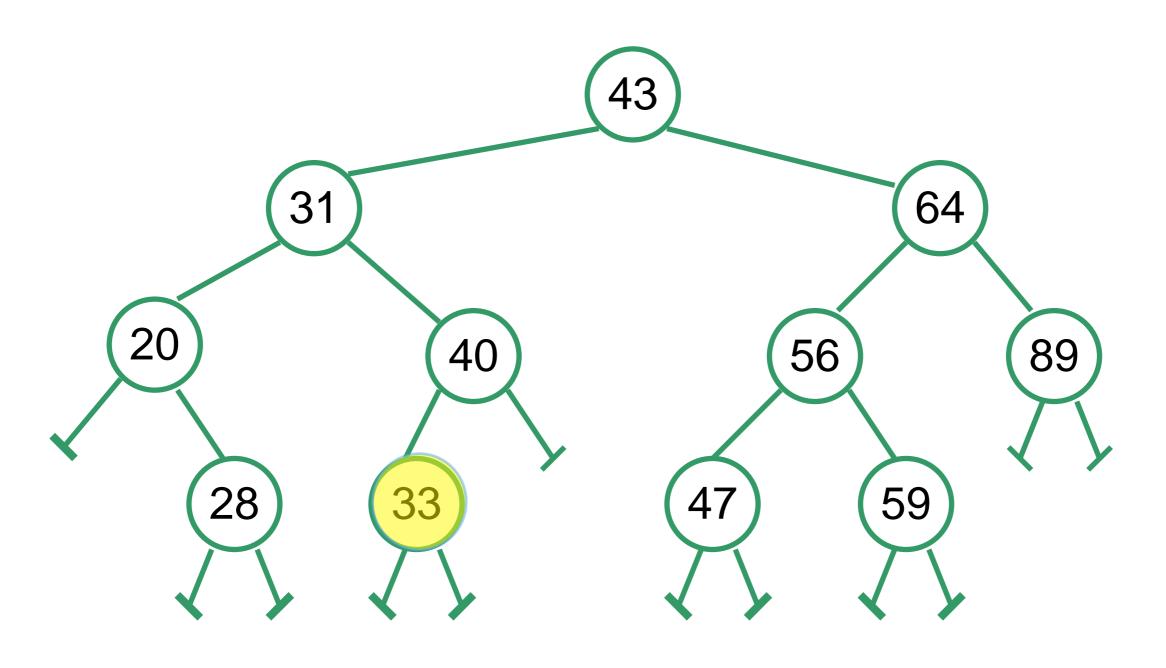




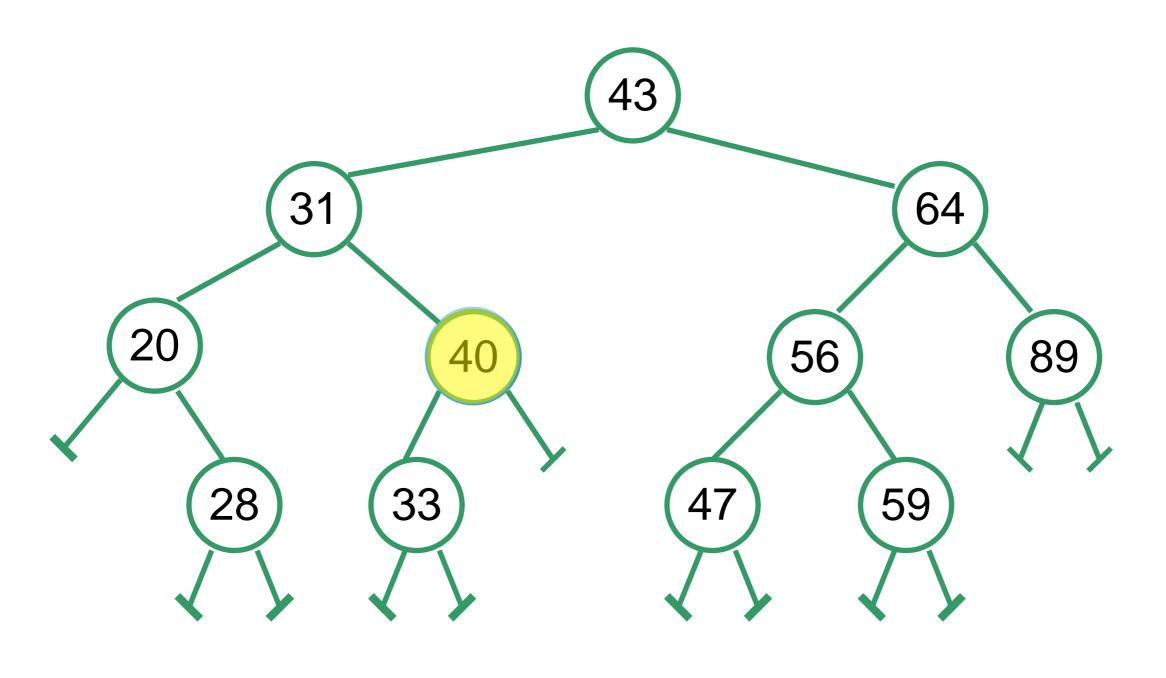




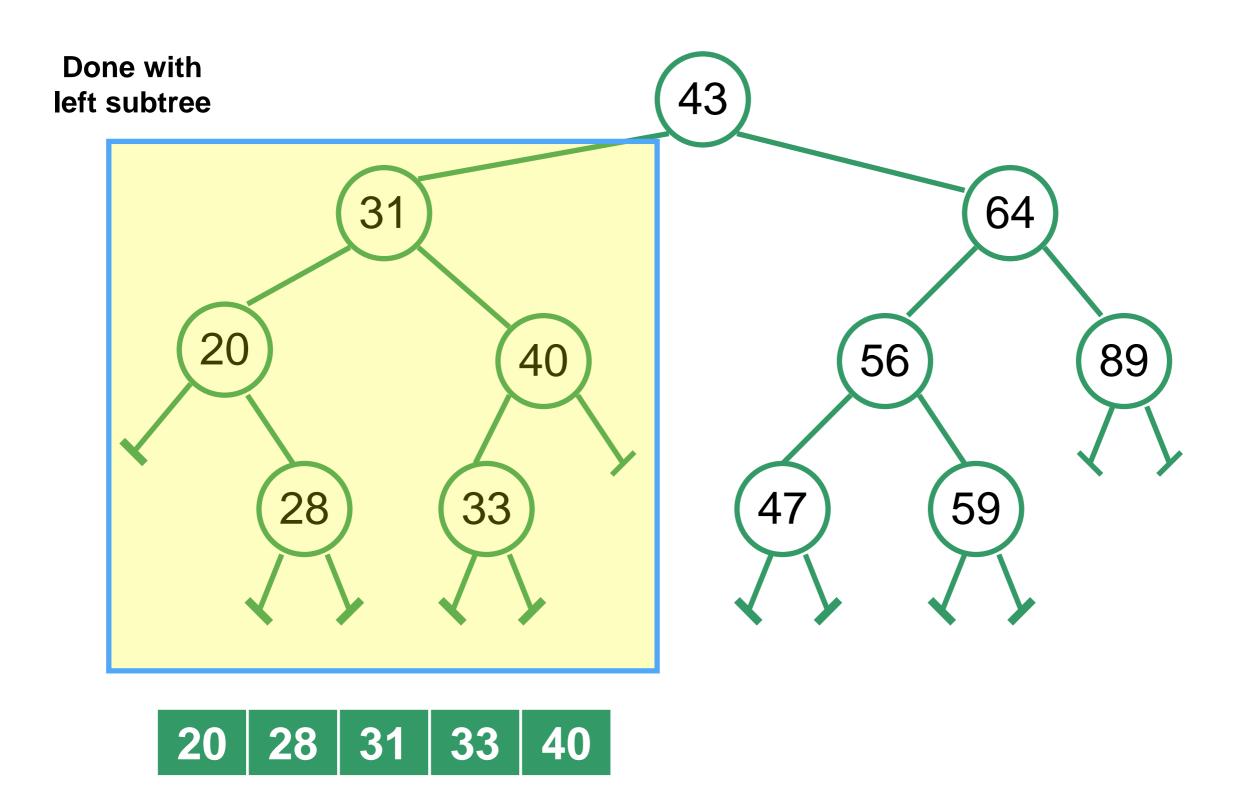


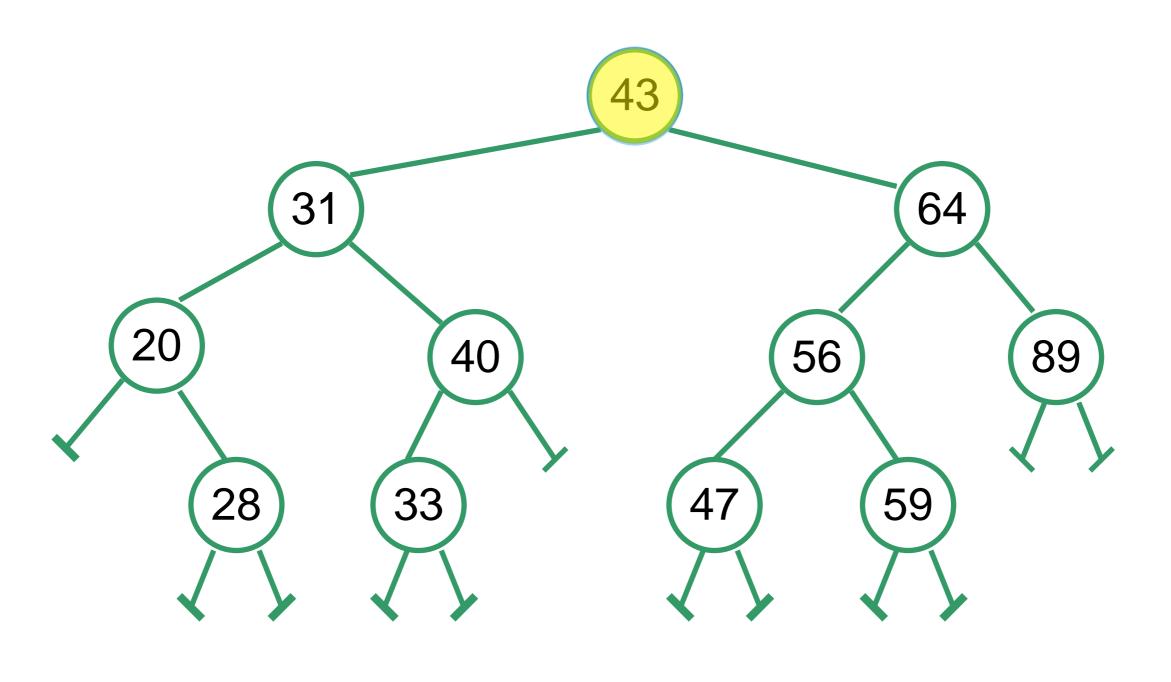


20 28 31 33

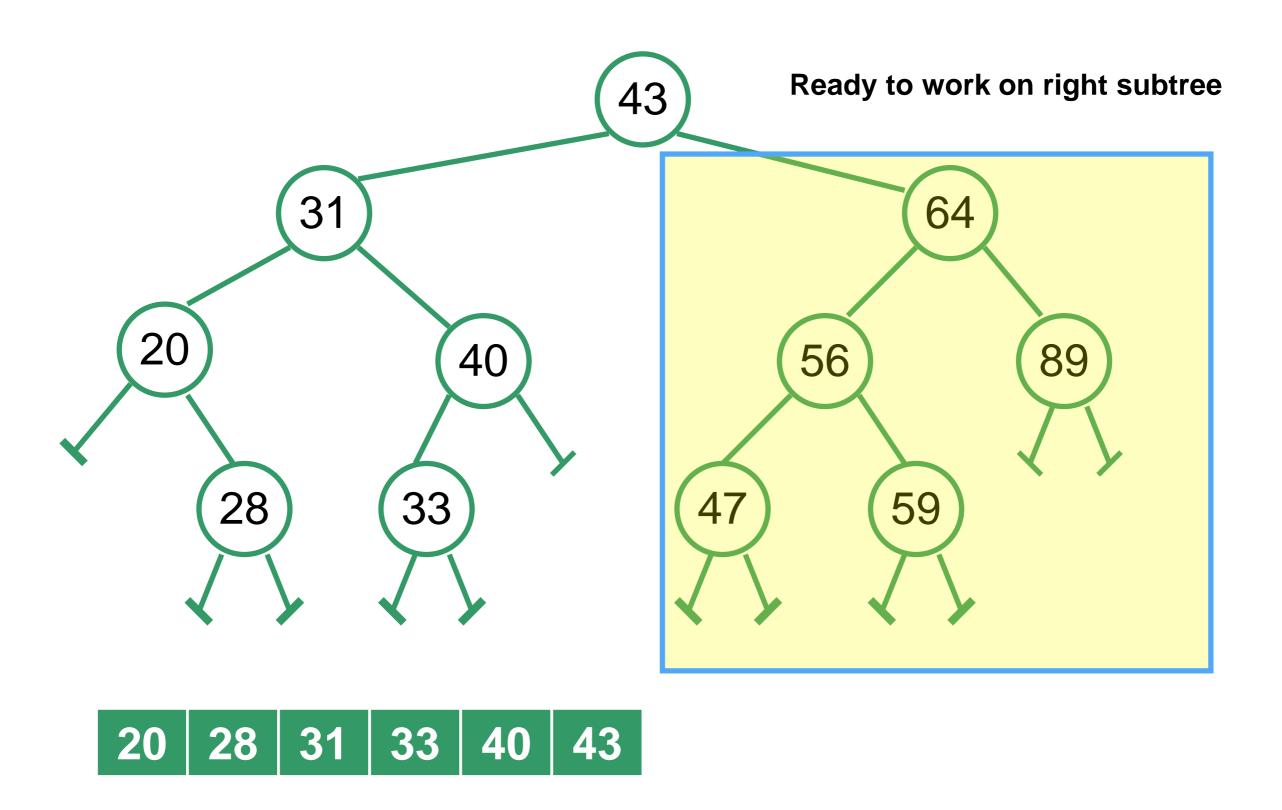


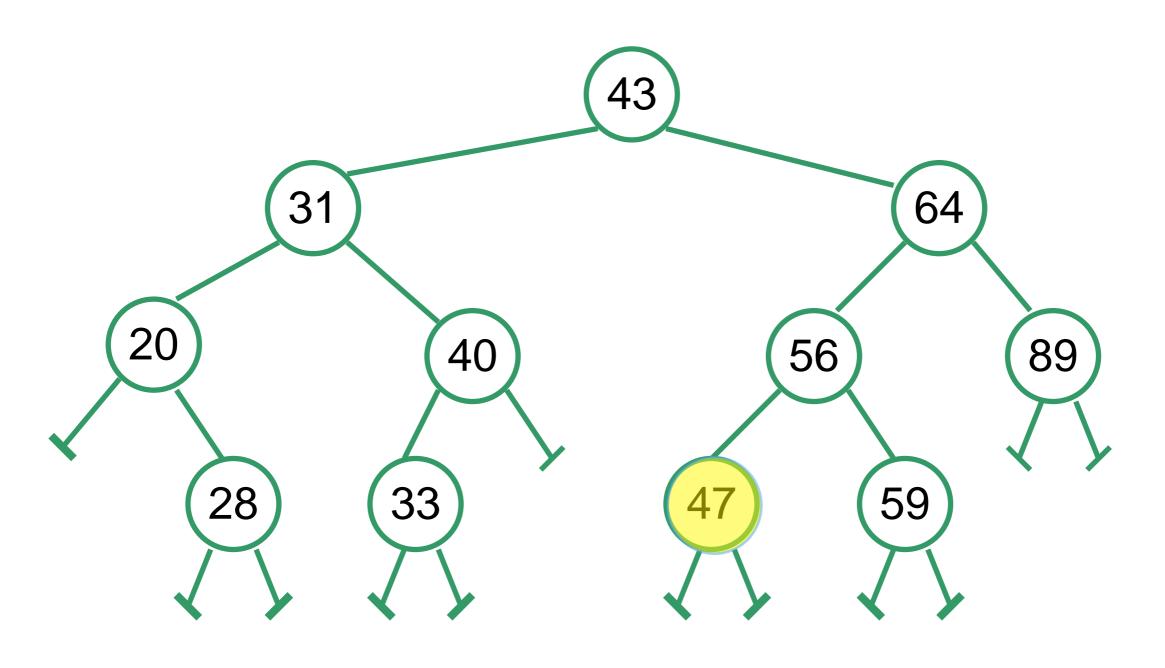
20 28 31 33 40



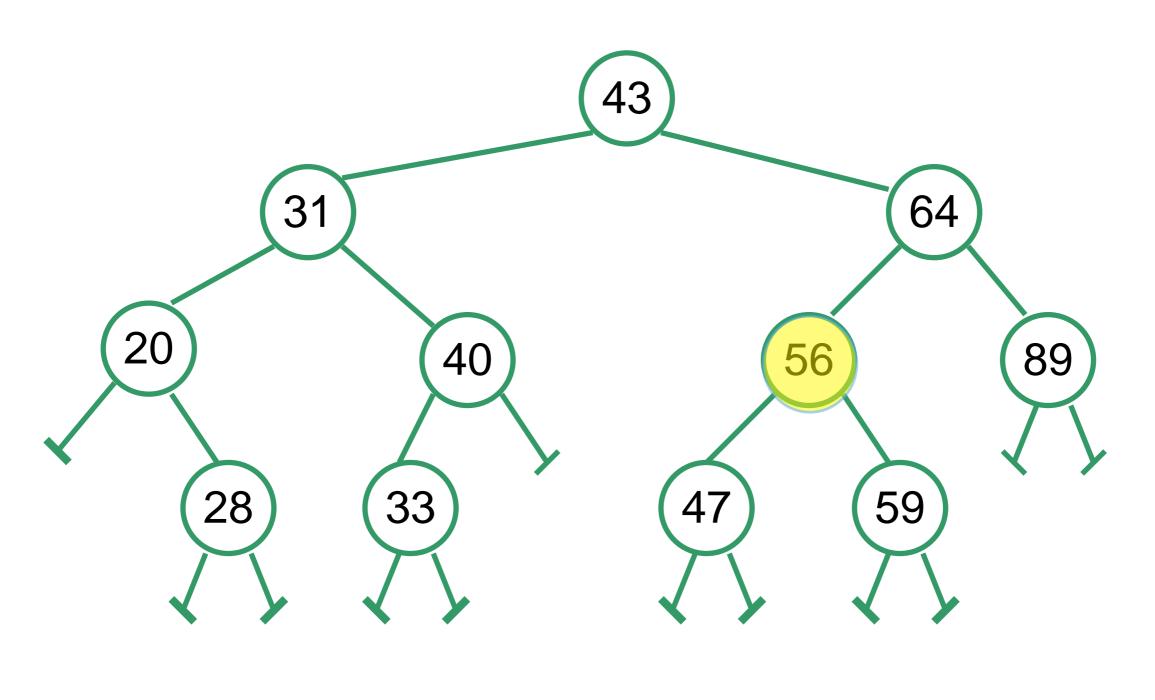


20 28 31 33 40 43





20 28 31 33 40 43 47



20 28 31 33 40 43 47 56

