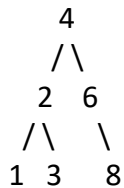


Assignment 4

Within a binary search tree, a predetermined target value has been specified. You are asked to:

- print the path(s) where target value is present and
- find the next greater element of the target value in the binary search tree.
- implement **recursive** methods for inorder, preorder and postorder traversal
- add a method to count the total number of nodes in the binary search tree.

Input:



Target: 6

Path(s) : 4 – 6 - 8

Output: 8 is next greater element of the target value

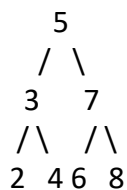
Inorder Traversal: 1 2 3 4 6 8

Preorder Traversal: 4 2 1 3 6 8

Postorder Traversal: 1 3 2 8 6 4

Number of nodes: 6

Input:



Target: 4

Path(s) : 5 – 3 - 4

Output: 5 is next greater element of the target value

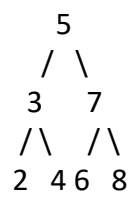
Inorder Traversal: 2 3 4 5 6 7 8

Preorder Traversal: 5 3 2 4 7 6 8

Postorder Traversal: 2 4 3 6 8 7 5

Number of nodes: 7

Input:



Target: 3

Path(s) : 5 – 3 – 2

5 – 3 – 4

Output: 4 is next greater element of the target value

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