Review Test 2-Dec-2022

Max:Marks-10
Time: 10 min

* Required

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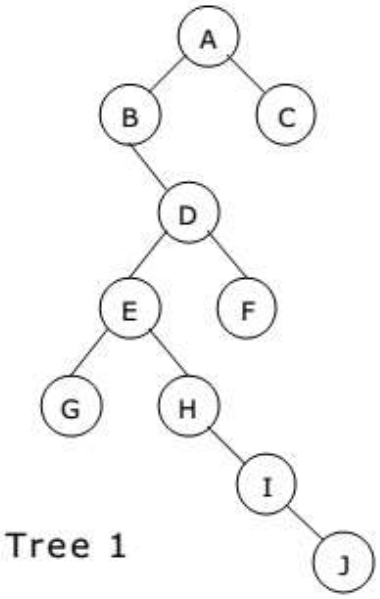
Select the one true statement. * 1 point

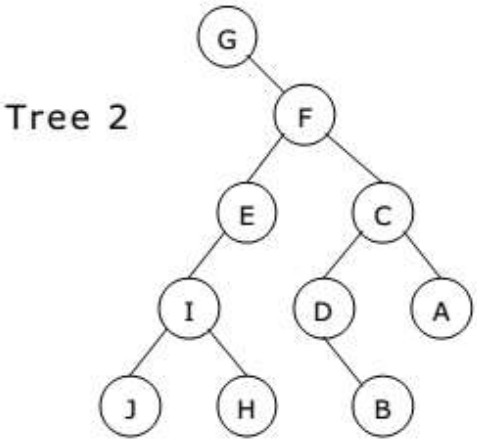
- ○ Every binary tree is either complete or full
- ○ Every complete binary tree is also a full binary tree
- ○ Every full binary tree is also a complete binary tree.
- ◉ No binary tree is both complete and full

Suppose T is a binary tree with 14 nodes.What is the minimum possible depth of T * 1 point

- ○ 0
- ○ 3
- ◉ 4
- ○ 5

Identify the correct tree traversal order from below fig * 1 point



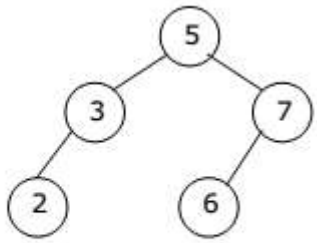


- ◯ Preorder, Post order
- ◯ Post order, Post order
- ◯ Postorder, Inorder
- ◯ Inorder, Inorder

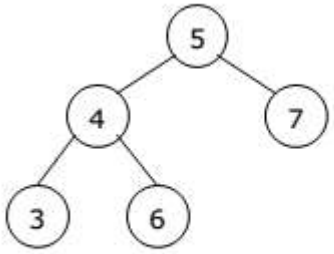
Which among the following is not a binary search tree *

1 point

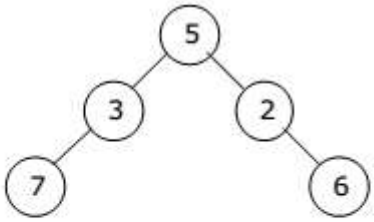
A.



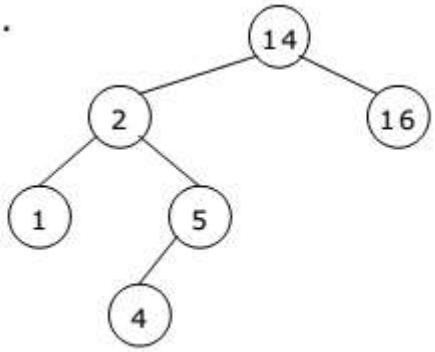
C.



B.



D.



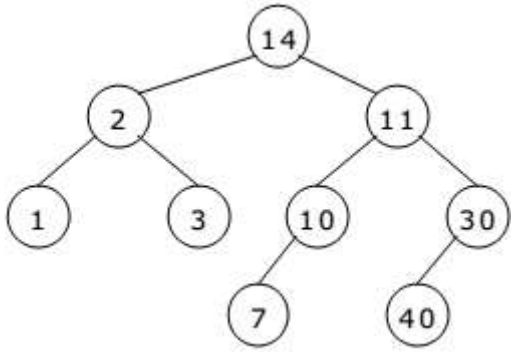
- ○ A
- ◉ B
- ○ C
- ○ D

Which of the following tree traversal visits root node last? *

1 point

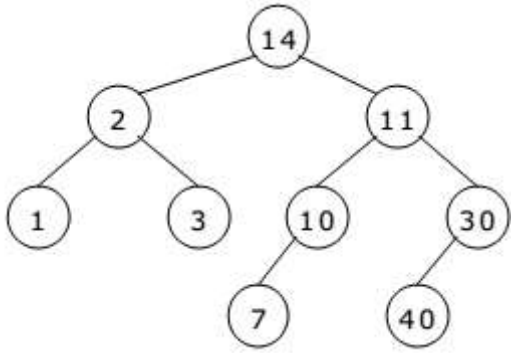
- ○ Inorder
- ◉ Postorder
- ○ Preorder
- ○ None of the above

For the figure shown below, how many leaves does it have? * 1 point



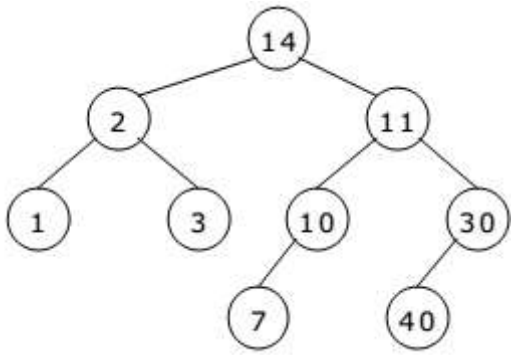
- [ ] 2
- [ ] 4
- [ ] 6
- [x] 8

There is a tree shown in the fig below.what is the order of nodes visited using a pre-order traversal? * 1 point



- [ ] 1 2 3 7 10 11 14 30 40
- [ ] 1 2 3 14 7 10 11 40 30
- [ ] 1 3 2 7 10 40 30 11 14
- [x] 14 2 1 3 11 10 7 30 40

There is a tree shown in the fig below .What is the order of nodes visited using a in-order traversal * 1 point



- (●) 1 2 3 7 10 11 14 30 40
- ( ) 1 2 3 14 7 10 11 40 30
- ( ) 1 3 2 7 10 40 30 11 14
- ( ) 14 2 1 3 11 10 7 30 40

If the node contains any sub-node, then that node is called____ * 1 point

- ( ) Sibling
- (●) Parent
- ( ) Child node

In .....tree the value of the left node must be smaller than the parent node, and the value of the right node must be larger than the parent node * 1 point

- (●) Binary Search Tree
- ( ) B-Tree and B+Tree
- ( ) Root Tree
- ( ) Routing Tree

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