



## Review Test Submission: Quiz 3: Trees (Binary, BST, AVL)

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Course	UML Computing II - Sec MW1 SU19 JMwaura
Test	Quiz 3: Trees (Binary, BST, AVL)
Started	8/10/19 10:37 PM
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Due Date	8/12/19 11:30 PM
Status	Completed
Attempt Score	11 out of 13 points
Time Elapsed	16 minutes out of 30 minutes

### Question 1

1 out of 1 points

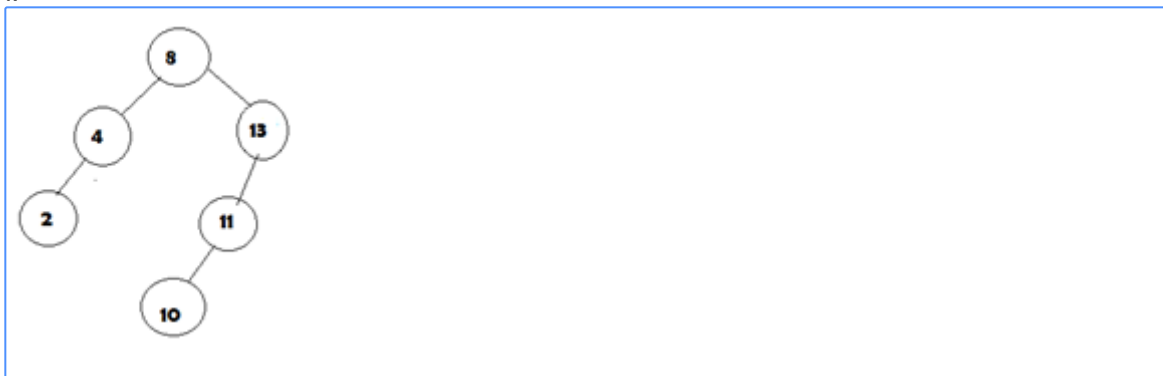
What is an AVL tree?

### Question 2

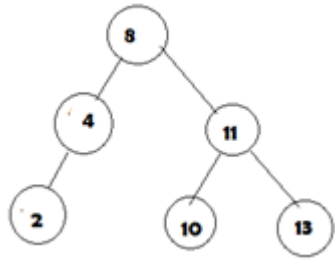
1 out of 1 points

Which of the below diagram is following AVL tree property?

i.



ii.

**Question 3**

1 out of 1 points

To restore the AVL property after inserting a element, we start at the insertion point and move towards root of that tree. is this statement true?

**Question 4**

1 out of 1 points

Given an empty AVL tree, how would you construct AVL tree when a set of numbers are given without performing any rotations?

**Question 5**

1 out of 1 points

What are the worst case and average case complexities of a binary search tree?

**Question 6**

1 out of 1 points

What is the speciality about the inorder traversal of a binary search tree?

**Question 7**

1 out of 1 points

What does the following function do:

```
void funcTraverser(treeNode* root){  
    if (root ==NULL) return;  
    funcTraverser(root->left);  
    funcTraverser(root->right);  
    printf("%d \n",root->data);  
    return ;  
}
```

**Question 8**

1 out of 1 points

Which of the following function finds the minimum element in a binary search tree?

**Question 9**

0 out of 1 points

What is the time complexity for finding the height of the binary tree?

**Question 10**

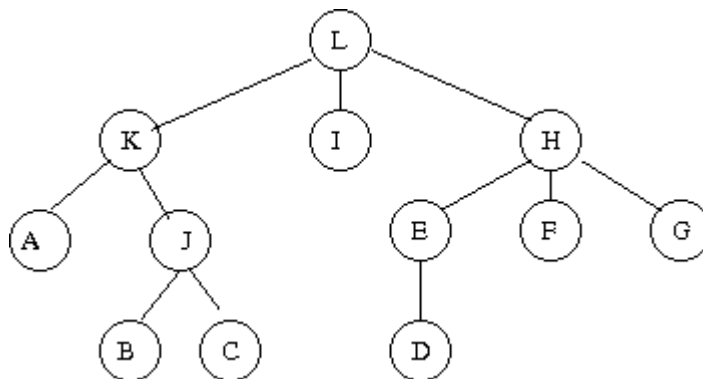
1 out of 1 points

In a full binary tree if number of internal nodes is I, then number of leaves L are?

**Question 11**

1 out of 1 points

List the nodes of the tree below in [A] pre order, [B] postorder, [C] breadth-first order

**Question 12**

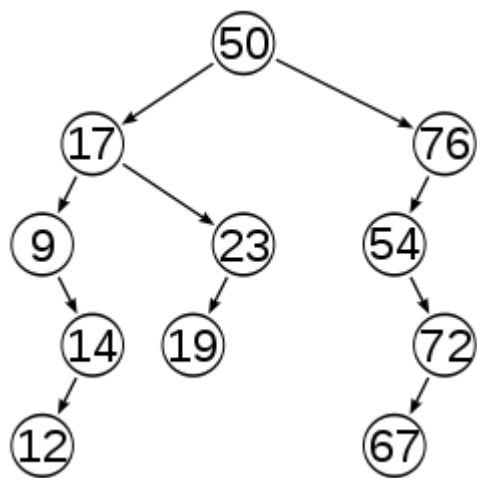
1 out of 1 points

Select the one FALSE statement about binary trees:

**Question 13**

0 out of 1 points

Consider this binary search tree:



Suppose we remove the root, replacing it with something from the left subtree. What will be the new root?

Saturday, August 10, 2019 10:54:13 PM EDT

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