Review Test 10- Algorithm and Data

Structures
Max:Marks-10 Time: 10 min
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Consider the following array A, and the searching element is X. How many comparisons are required to search an element X in array A using Sequential Search.

A[]= {25, 45, 87, 21, 18, 49, 13, 115, 83, 65}

X = 83

- 10

Choose true statement:

* 1 point

- I Binary search is faster than linear search.
- II Binary search may not be applied on all the input lists on which linear search can be applied
- Only I
- Only II
- Both I and II
- Neither I nor II

In binary search, the key to be searched is compared with the element in the 1 point of a sorted list.		
○ End		
Front		
Middle		
O None of these		
	Clear selection	
Choose correct option *	1 point	
Balance factor = height of right sub tree - height of left sub tree		
Balance factor = height of left sub tree - height of right sub tree		
Balance factor = height of left sub tree - height of root tree		
Balance factor = height of root tree - height of right sub tree		
	1 point	
What is an AVL tree?		
a tree which is balanced and is a height balanced tree		
a tree which is unbalanced and is a height balanced tree		
a tree with three children		
a tree with at most 3 children		
	Clear selection	

The number of rotations required to insert a sequence of elements 9,6,5,8,7,10 into an empty AVL tree is?

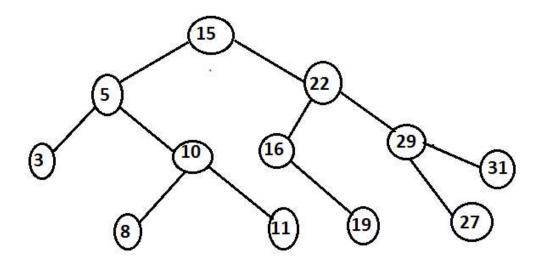
2 points

Clear selection

Consider the following AVL tree.

2 points

How many number of rotations required for deleting 3?



Clear selection

Construction of AVL tree with height 4	1 point
What is the Minimum number of nodes	
O 4	
O 8	
12	
O 16	
Clear sel	ection

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