CS301P

FINAL TERM

VU SPARKY

Version (1.1)

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CS301P GRADED QUIZ#4

Which of the following bit stream represents the string ‘cab’ in the given Huffman tree?

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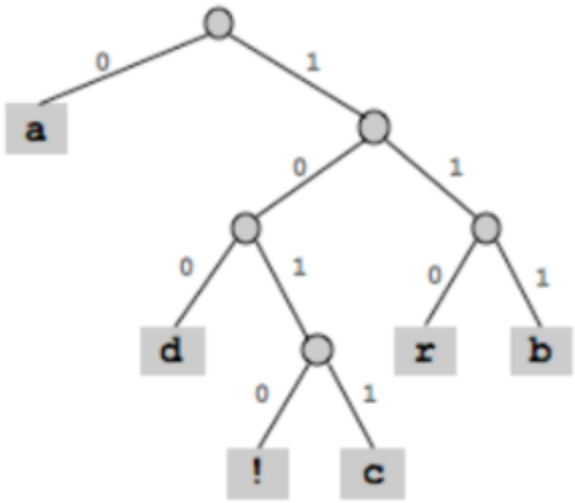
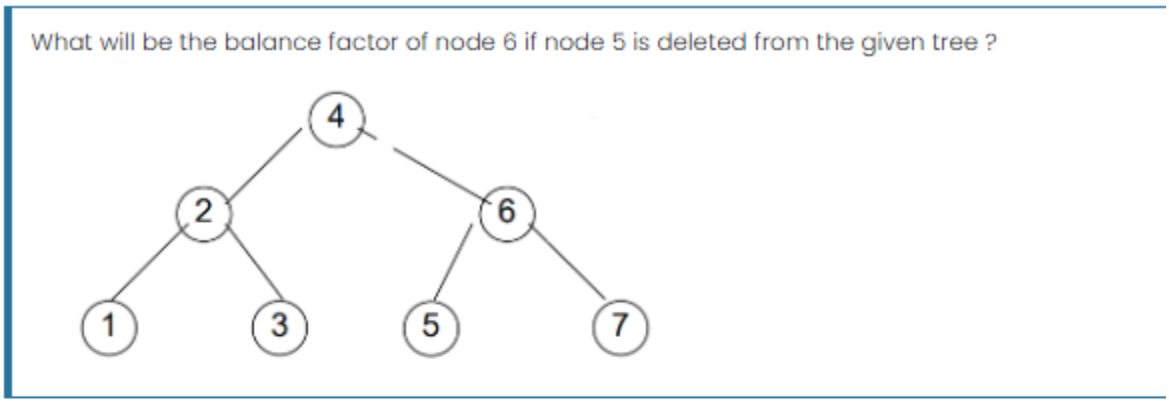


elect the correct option

- 100 110 111
- 1011 0 111
- 110 1011 0
- 1011 0 110

What will be the balance factor of node 6 if node 5 is deleted from the given tree ?



A binary tree will not be considered an AVL tree if the difference between left and right subtree of each node is not more than :

a. 3

b. 2

c. 1 ✔ ***SPARKY***

d. 0

The ASCII value for character 'A' is:

a. 66

b. 68

c. 65 ✔SPARKY

d. 67

Which of the following represents frequency of all characters in Huffman Encoding tree?

a. Root Node

b. Right Branch

c. Left Branch

d. Leaf Node ✔SPARKY

If the tree becomes unbalance after deleting a node then we use _____ to rebalance it.

a. Rotations ✔SPARKY

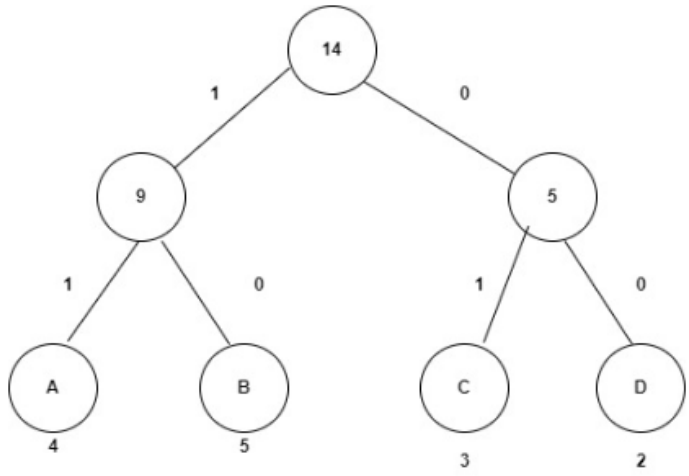
b. Stack

c. Heap

d. Insertions

What is the total frequency of character 'B' in the given Huffman encoding tree?

What is the total frequency of character 'B' in the given Huffman encoding tree?



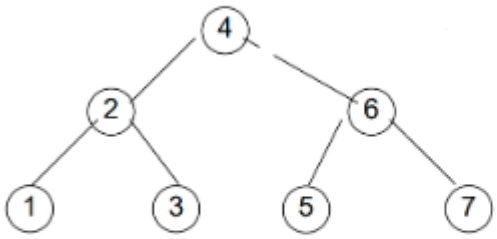
Select the correct option

Reload Math Ec

- 5
- 14
- 9
- 0

What will be the balance factor of node 2 if node 1 is deleted from the given tree ?

What will be the balance factor of node 2 if node 1 is deleted from the given tree ?



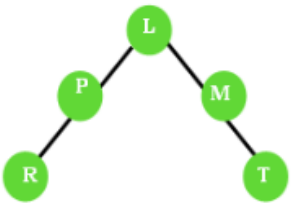
elect the correct option

Reload M

- 2
- -1
- 1
- 0

Which node will become unbalanced if a node is inseted as child of the nodee R in the given tree?

Which node will become unbalanced if a node is inserted as child of the node R in the given tree?



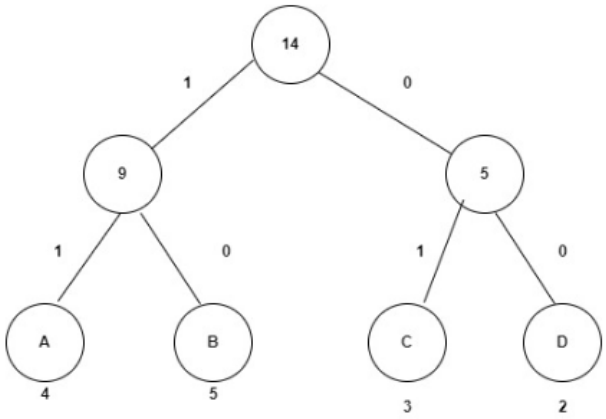
Select the correct option

Reload Math Equations

- ○ M
- ○ P
- ○ R
- ◉ L

What is the encoding of character ‘C’ in the given Huffman encoding tree?

What is the encoding of character 'C' in the given Huffman encoding tree?

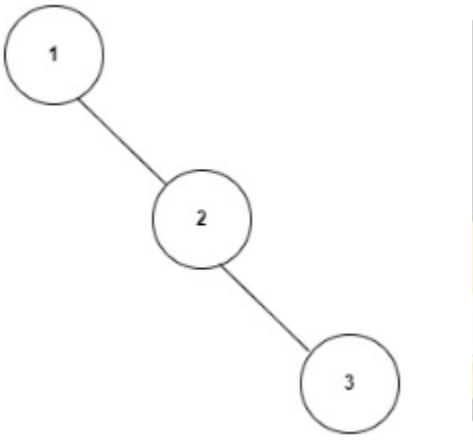


Select the correct option

Reload Math Equ

○	00
○	11
○	10
●	01

1. If values 10,20,15 are used to build AVL tree then which type of rotation can balance the AVL tree?
    a. Double right-left
    b. Double left-right ✔SPARKY
    c. Single left
    d. Single right
2. In the given BST, the balance factor of root node is:



    a. 1
    b. -2 ✔SPARKY
    c. -1
    d. 0
3. If you create a BST with data that is sorted in an ascending or descending order , it will be similar to :
    a. AVL tree
    b. Complete Binary Tree
    c. Linked List ✔SPARKY
    d. Strictly Binary Tree
4. Which of the following function prototype is declaring the function as constant?
    a. EType& findMin(const int a);
    b. const EType& findMin( );

c. const EType& findMin( ) const; ✔SPARKY
d. void EType& findMin(const int a);

5. A tree will be an AVL tree if _____ of the tree fulfills the AVL conditions.
   a. Non-leaf nodes
   b. Root node
   c. Every node ✔SPARKY
   d. Leaf nodes
6. Which of the following will be used to avoid the problems caused by the BST generated using sorted data?
   a. Stack
   b. Linked list
   c. Queue
   d. AVL Tree ✔SPARKY
7. If values 9,5,7 are used to build AVL tree then which type of rotation can balance the AVL tree?
   a. Single left
   b. Single right
   c. Double right-left
   d. Double left-right ✔SPARKY
8. What will be the height of an empty AVL tree?
   a. 0
   b. 1
   c. -1 ✔SPARKY
   d. 2
9. An AVL tree is identical to _____.
   a. Binary Search Tree ✔SPARKY
   b. Stack
   c. Linked list

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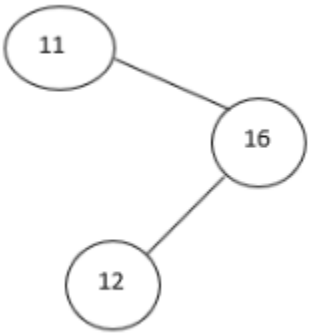
d. Queue

10. Which type of rotation can balance the following AVL tree?



a. Single left
b. Single right
c. Double left-right
d. Double right-left ✔*SPARKY*

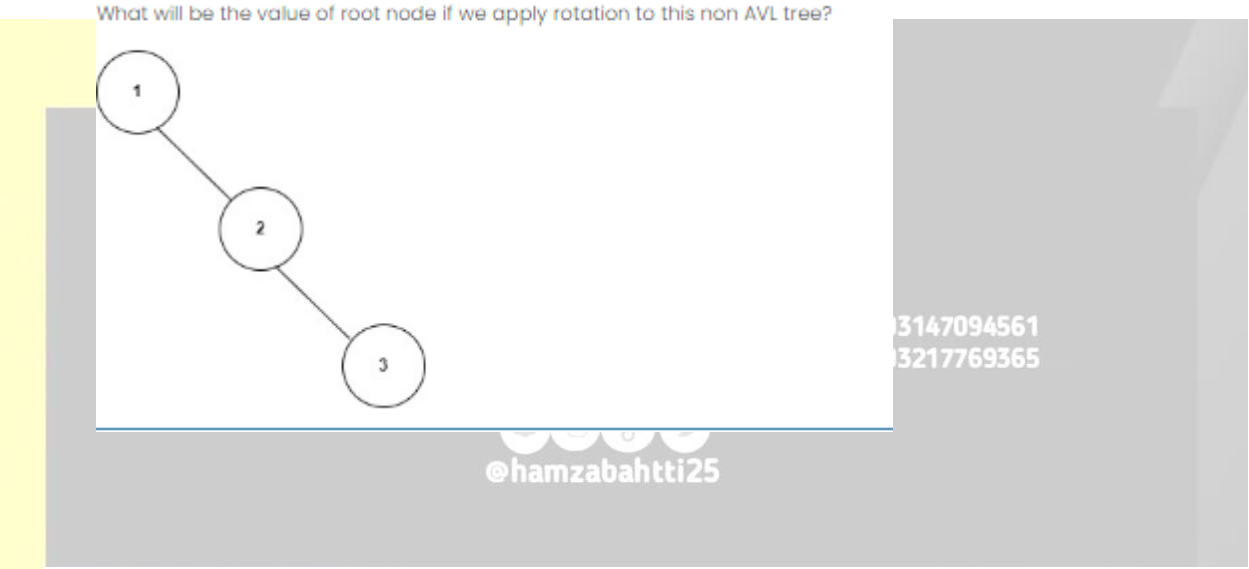
1. If you create a BST with data that is sorted in an ascending or descending order , it will be similar to :

a. Strictly Binary Tree

b. Complete Binary Tree

c. Linked List @studywithhamza25

d. AVL tree



2. What will be the value of root node if we apply rotation to this non AVL tree?

a. 3

b. 2

c. Rotation is not required @studywithhamza25

d. 1

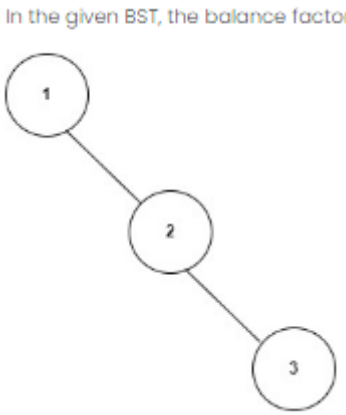
3. An AVL tree is identical to _____.

a. Queue

b. Binary Search Tree @studywithhamza25

c. Linked list
d. Stack

4. **In the given BST, the balance factor of root node is:**



a. -2
b. -1
c. 1
d. 0 @studywithhamza25

5. **What will be the height of an empty AVL tree?**

a. 1
b. 2
c. 0
d. -1 @studywithhamza25