DATA STRUCTURES

UG1
[DEADLINE MAY 20, 2020: 11.59 PM]

ASSIGNMENTS CODE: assign_tree

INSTRUCTIONS: [Total Marks: 10]

i) Read all assignments and each problem has to be answered in the same c file.
ii) Create a .c file following the file name convention: abc-assign_tree.c
Where abc is your roll number and assign_tree is the assignment code

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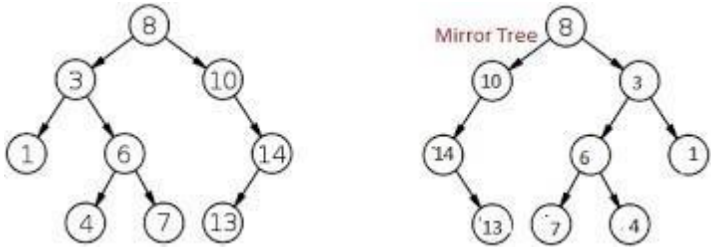
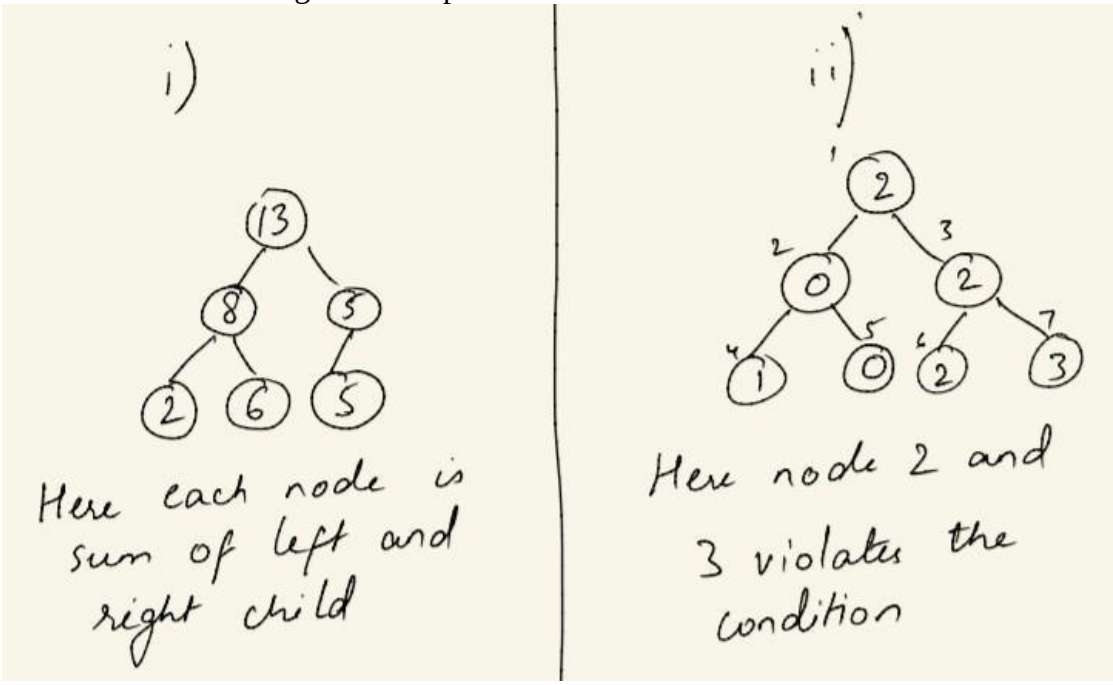
PROBLEMS:

1) [Marks: 3.5 marks]
Construct a mirror tree for the following binary tree



Use linked list implementation

2) [Marks: 3.5 marks]
Write a function for the following property in a binary tree
Property: The node value is equal to the sum of values of left and right child If the value is correct, print 1 else 0.
Enter the two given examples and check for them.



3) **[Marks: 3 marks]**

WAP to create a level-order tree for the given input and do the following operations:

1) List Preorder, Inorder, Postorder traversal and draw the level-order tree for each
2) Find the level of any given node
3) Insertion, deletion of any given element

For example, the level-order tree of given input array of elements 1, 2, 3, 4, 5 is