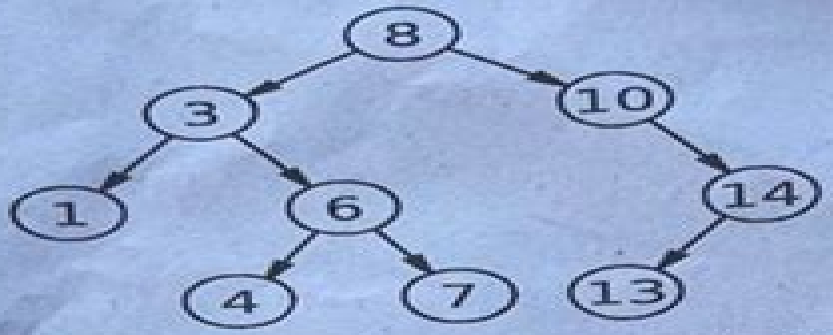
3. (a) Consider the following binary search tree T (8)



Draw the resulting binary search tree if the following operation is performed to the tree T

(i) Insert element 19 in T

(ii) Insert element 15 in T

(iii) Insert element 2 in T

(iv) Delete element 14 from T.

(v) Delete element 3 from T

(b) Explain row and column major representation of a two dimensional array. (7)

4. (a) What is a binary tree? Mention some of the application of binary tree. (5)

(b) The in order and post order traversal of a binary tree are as follows (5)

In Order: 4, 7, 2, 8, 5, 1, 6, 9, 3

Pre order: 1, 2, 4, 7, 5, 8, 3, 6, 9

Construct the binary tree

(c) Prove that for any non empty binary tree T if n_0 is the number of leaf node and n_2 is the number of internal node then $n_0 = n_2 + 1$. (5)

5. (a) Consider the following sequence of operations on an empty stack. (5)

push(54); push(52); pop(); push(55); push(62); s = pop(). where push means insertion and pop means deletion

Also consider the following sequence of operations on an empty queue.

enqueue(21); enqueue(24); dequeue(); enqueue(28); enqueue(32); q = dequeue();. where enqueue means insertion and dequeue means deletion

Find the value of s + q.

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