Mo. Shakil Hossain_
Roll-2023
ICT-2101- Data Structure
Date: 25-01-2021

Answer to the question no-1

For Searching element 1. Searching in binary

Search tree has worst case complexity of

O(n). In general time complexity is O(n)

where h is height of BSTATAM - SIM

Deletion in binary tree has worst case Complexity of O(n). In general time complexity is O(h).

the following proceedience neturns a pointer to the maximum element in the sub-tnee nooteds at I diven node x. which we assume to be non nucle.

Answer to the question no -14 1000 in 10

the following Procedure returns a Pointers
to the minimum element in the Subtree rooted at a given node x which
we assume to be non-NULL.

Thee - Minimum (n) Indian of I market

- 1. while n. left # NULL
- 2: Terrow n = n. left granid ni noit olos
- 3. return n.

the following Procedure returns a Pointer to the maximum element in the sub-tree nooted at a given node X. which we assume to be non-NULL.

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Tree Maximum (n)

- 1. While ninight & NULL
- 3. neturn u.

O(n). In general time complexity Answer to the question no -3

The in-order treversal sequence of the resultant tree is (c) 0 1 2 3 4 5 6 7 89.

Bruse we know in-order true traversal is

- 1. Thavense left Sub-tree
- 2. Process the root node. 11
- 3. traverse right sub-tree.

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