HAGE NO.

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DSA Lab 10: Theory

what is binary search tree ?

A binary search tree (BST) is a binary tree where each node has a Comparable key lam associated value) and satisfies the restriction that the key in all in any node is larger than the keys in all nodes in that nodes left subtree and smaller than the keys in all nodes in that nodes in all nodes in that nodes in gut subtree.

12. What are the members of structure of tree and what is the size of structure?

A free structure is an algorithm for placing and locating files (called records an keys) in a dotabase. The algorithm finds data by repeatedly making chaice at decision points called node.

A node can have as few as two branches lalso couled children, or as many as several dozen. The structure is straightfarward, but in terms of the number of nodes and children, a tree can



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93. What are the rules to construct Binary Search tree!

-> 1) Each parent node has at most 2 child 11) left child node is always lesser than parent node.

parent node.

search tree.

1) There are no duplicate nodes.

84. Hour General tree le converted into Binon Bearch tree.

General mee can be converted into Binary tree using fallowing Algorithm:



8 Insert to right at on Jame conching sibling from

== child Emay e except to its left most oflepang 7

Clearly Rotale left to obtain thee 450 to t mgm sayous make

50 top we af Horace ار اح traversal of

36

make normally 8 HOCKET OF it without stack and mant du la pointer that w 130 rde 8 idea to of threaded tree node (if exist) hardersal faster and pointer that wants without reccurion inorder

055 What 60 binary threaded tree ?

in thread binary tree is faster compare to extra data structure loke queue, stack Don store refrence of successor and predecessor A threaded binary tree is binary to threaded bin any back 10 is · Traveral