

SNS COLLEGE OF TECHNOLOGY

Coimbatore-35 An Autonomous Institution



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COURSE NAME : 19ITT201 & Data Structures

II YEAR/ III SEMESTER

UNIT – I LINEAR DATA STRUCTURES & TREES

Topic: Tree traversals

S.R.Janani

Assistant Professor

Department of Computer Science and Engineering







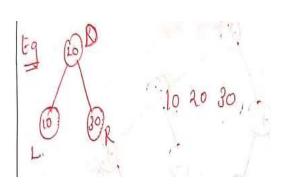
- Visiting nodes in a tree only once
- Three types of tree traversal
 - Inorder Traversal (LS,R,RS)
 - Preorder Traversal(R,LS,RS)
 - Postorder Traversal(LS,RS,R)



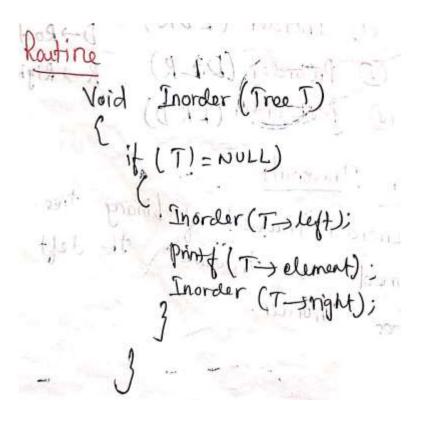
Inorder Traversal



- Order of tree traversal is performed as follows
 - Traverse Left Subtree
 - Root
 - Traverse Right Subtree



Right subfree !! in order Travelse the left 1000 Hain, DGBAHEICF

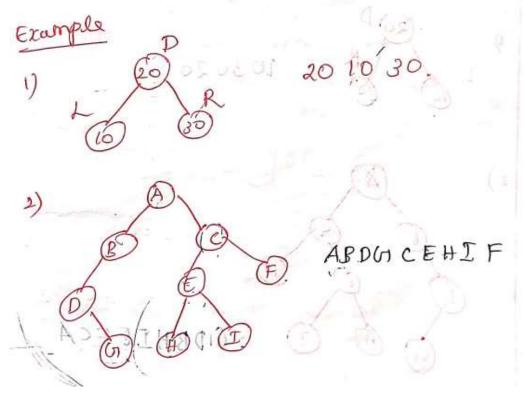




Preorder Traversal



- Order of tree traversal is performed as follows
 - Root
 - Traverse Left Subtree
 - Traverse Right Subtree



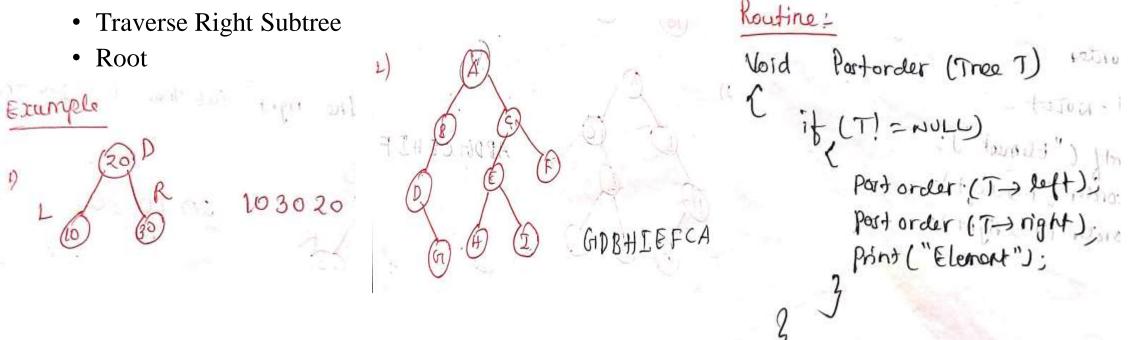
Routine Preorder Void (T!=NULL) printf ("Element"); pre:order (T-j left); pre:order (T-j right); 2



Postorder Traversal



- Order of tree traversal is performed as follows
 - Traverse Left Subtree
 - Traverse Right Subtree





References



• Java : the complete Reference (Eleventh Edition), Herbert Schildt, 2018.





