Introduction to non-linear Data Structures: Trees: > (Recursion) A tree is a non-linear data structure which consists of nodes. Each node has data associlated with itself be printers to "it's shildren nodes. If any node does not have children, it is called a lief * A normal tree can have multiple dildren * Adirary tre con have at most 2 dil don or zero hildren (light) node root Tree Representation: > 1: -> Topolation&L->R Breath First Traversal of Level Order Traversal) 0/P: 1,2,3,4,5,6,7,9,15 Overe (STL) #indude(quere) * Depth First Traversal: > 1) Tre-Order DLR (11) In-Order LDR (11) Post-Order SLDR Y OUT UP DES p 4,9,5,2, 0/p:=1,2,4,5,9,0/p:4,2,9,5,16,15,7,3,1 6,3,15,7 3,6,7,15 BFS or Level Order Traversals 5.4 O/P -) T-B/L-R 1,2,3,4,5,6,7quemo (Tree Nilox) POP - Voi nt Tree Data Structure: > Important Ovedsons for Company Placement Drives: > BFS of Level Orden Traversel -> HCl, TCS, (2022, 23)(2024) Accent me D Mirror of a Biraly Tree : TCS, Aalent me, Capquini, IBM, Oracle →2025 Jan (3) Identical Binary Trees : >
Accenture, Cappenini, Inforys, Ted Malandra
Wipro, HU, Bosch -> Feb -> 2025 July -> 202 4 Recursion / Lest Code
Cooling Ninger Sup -) 2024 * Mirror of a Binay Tree (rost) (1) inOsch (sost) Tree No dex temp = rost. Ut; inta, into; 2008-144-2008-308; temp = a; رط = ن rost-) right = temp; b = temp; Inorder: In Order? 4, 2,5, 1,6, 3,7 7-,3,6,1,5,2,4 * Gren two binary trees: treel & touz & Waite a C++ Pogram to check whither the two trees are I dentical ex not a If they are identical, return Test Case 2 tree 1 tree 2 tree 1 tree 2 Op - fdae test Linch: -> Standard Template Library (STL) * set * * * priority-quene Carabhe