210003,24.89 Lah-7 PRe-lah: 1A) Parkage P1; Public Node Sevouh (Node Goot, int. key) ? if (noot == null 11 root, key == . Key) return Proot; it (root · Key Z Key) neturn -search (noot right, key); return search (noot. left, key); 2A) Package PI; etass Node ? int key;

Node left, right;

Pullic Node (int item)?

- Key: Item;

left: right: null;

class binarytace z

. Node noot;

Binary Toree () 3

root = null;
roid printpostorder (Node node) {

31000 38489 of (node == null) point post order (node. left); print postoider (node. right); System out. pount (node. Key +""); voil point Inoider (Node node) ? if (node == null) acturn; Point Inorder (node left); System, out. println (node-trey+""); print Inorder (nøde, sûght); void print preorder (Node node) { if (node == noul) neturn; System out. pountly (no de. Key +""); printpreorder (node. left); print Predicer (node. right); public static void main (storing [] args) { Binary Tree tree = new Binary Tree (); tree. proof = new Mode (1); tree noot left = new Node (2); tree. root-sight = new Made (3); System out pointh (priender toraverbal?), toree . Point Porender ();

21000 32 489. In-law! (A) class Solution ? Public Torce Node town BST (Torce Node R, int L, int 11) { if (R == null) retion R; if (R val (1) return town BST (K. right, 1, H); else if (R. Val > H) return toum BST(R. left, L, H); R. deft = townssT(R-left, L, H); Ranight = town BST (R. right, L, H); · network : and import java, for *; class Node q int data; Mode left, swight; . Node (int x){ data = x; left = light = null; Class GFG3 statil int count = 0; Pullic state Node insert 1 Node Proot, int x/3 if (Proot = = mill).

2100032489 return new Node (se); pullie static Node Kth Smallest (Node not, entry) if lorost == null) return null; Node left = 4th Smallest (2000t. left, K); if (left 1, = null). return left; Count++; Public static void main (Storing [] orgs) { Node noot = null; int keys [] = 280, 30, 8, 22, 4, 12, 143; th (int &: Keys) nost = insert (nost, se); int **K**=3; Point Ath smallest (not, k); 3A) Package p1; class Node ? int data; Node Left, sight; Node (int. item) \$ data = item;

2100032489 left = night = null; llass BinaryTree ? Node noot; . diodean has path sum (No de no de, int sum) ? if (root == null) return gale; Liodean ans = false; int sulsum = Sum - node data; . If Chilirim = -0 & & node, left == null & & node. sight = = null) return (ans = tome); it (node . left! = null). ans = ans 11 has Path Sum (node, left, sulisum); Public static void main Estoung [] orgs) { int sum = a1; Birrary Thee stree = new Birrary Tree (); tree, root = new node (10) toree. Prost-left = new Node (e); tree . root right = new Mode (3); if I tree has Path Sum (toree . Froot, Sum) System. out pointly (" leaf path" + Sum);

post-lali. (A) Package PI) Mass Gr FG1 2 statie class Node ? int key; Node left, eight; Pullic Node 112 3 public Node (int key) 3 } this, key = trey; statu void find pere suc (Node noot, int key) 3 ep (root == mill) netwn; if (900t-Key = = 1844) & To (noot. lept] = AULL & miles and Node timp = Proot-left; time = time right; 3 Pre = tmp; if (noot key 7 key) } Suc = Propt; findporesue (moot left, key) Pre = nost; z 3 find presu (noot. Kight, key);

21000 32189. rublic static void main (stown [] 20198) ? int key = 65; Node Proot = now Node () root = insert (root, 50); insert (root, 30); insert (root, 90); insort (900t, 40) insoit (rest, 50); Find Presuc (root, key)? 24) close Solution & war in the start of int sum = 0 x man your and Public Tree Node ConvertBST (Tree Node 9000) } if (noot = = null) { 2 return null; Convert BST (noot- light); Proot- val + = sum; hum = Proot. Val; Converst BST (scot left). z 'sieturn noot;