Man Mittel 18M1818000 AVI Tree Node* insert (Node * node, int keg) } it (inode) return new Node(K); if (key knode sky) nodesleft = insest (node-sleft, kes) ((cey > node > 10g) node snight = insest (node & bights, leg) node sheight = 1 + man (node = left > height. rode +right -> height); if (get balance (node) > 1) L if (key & node sleft > ke) return. right Rotate (node); eise 4 lef Rot ate (node >left) return Rishtsotate (node); erse if (getbance (node) 2-1) 1 if (way snode + sight > key) serve leftotete (node): rish+ Potate (node soight) return left Rotate (nodě);

retur node;

Agay Mittur Date AVL Trec Page No. Expt. No. Node * delete (Node * 800+, int key) 1 if (1800+) seturn soot; if (key 2000+->10g) 500+ >1eft = delete (800+>1eft, Key) eve if (key > noot-skey) root soight = decete (root soight, key) else 1 it (1800+21ef+&(1/800+2xight) } Node * temp = 800+ >1est) mootsleft: 800+ 1 milly if (! temp) & & scot ; delete (temp) ; eised return root; linuic * 800+ = * temp; delete temp. Pise L nodex temp = inoxdexSuccessor (root > right root-> key = temp-> key; root-> right = delete (root-> right, temp root-sheight = 1 + man (root-> left-sheight 800+snight sheight) int bt = getbalance (root) if (b(> 1) } 17 (get balance (80017875td) >=0) seturn sight Dotate (800+); lefilotate (2007-siefi) seturn right sot extects (500+)
Teacher's Signature:

(666-1) 5 (BMIRCROOF rese (soot snight) 2=0)

left Rotate (soot > sight)

erse (

Right Rotate (soot > sight) left sotate (2001)