14/10/2020 18m18c3153 Lab4 Vinay Kumas DATE: PAGE: Investion & deletion operation on AVI trees Proces Note insert (Note note int key) ? if Inode == null) Leturn (new Node (Key)); if (Key < node · Key) note left = incest (node left , kex) Else it (Key > node · Key) (xxx typic shoot love = typic shor else geturn rode; node height = 1 + max (height (node left), height had sight int bolonie = get Balance (node); if I balance I && Key crode lettekey) return sight Antale Inode); it (balance < 1 22 Key mode light . Key) Setur retratage (rode); it I balance > 1 & l key > node left . Key } node left = left Rotate (node); Letur elastrotate (mode)

it (bolome e - > 11 Lox cross 250 2 + xex) & redering to eight points was type Labour last formata (made) shor austal Delete Node deleterade (Node 2005, int key) & (11117 == +0011) 2i Intern most; 1+ 1 Yex < goot · Kex) Acot left = delete Node (Acot left, Key); else if (Kex >400t. Kcx) LOOK - Light = delete Nodel Root jight , was ! else ? + ((2004 . Ject == mull) [1 (2007 sight == mull) Wede temp = mull if I temb == root-left temps host hight elso temps soot telt;

DATE: if (temp== null) temp = lost: soot = null: soot = temps Node temp = minualue Node (200 t. light): root. Key = temp. Key 900t, sight = delete Node (800t sight tempty) if (goot = null) setuen sooti Sout . height = max (height (sout) left). neight (soot ight) Its int balance = get Balance (200+ it Ibalance > 1 && getBalance (900t 161t) > 20 getien sight Rotate (sout); if Ibalance >-1 El getBalance (root 144) co) 2001-10th = left batale (2001-10th); leturn light Rotate (goot);

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HI balance <-1 28 retBalance		
Setula lettletate (300	100t. 8/94	
3 Redian root:		