18M18CS093 Insert and Delet in Auc wee Node * insert (Node * rode, int key)

if (node == NOLL)

return (new Node (Key)), node + left = insert (node + left, key); else if (key > mode > key)

mode > right = insert (mode > right, key else return node; node - height = 1 + max (height (wide - left), height (node - right)) int balance = get Bolonce (node);

If (balance > 1 & key < node > left > key)

Yeturn right sofete (node);

If (bolonce < - 1 & key > node > night > key)

Yeturn left robote (node);

If (bolonce > 1 & key > node > left > key)

If (bolonce > 1 & key > node > left > key) vode - left = left nofete (usde - left); veturn right rofete (usde);

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Sargeer Kennan Singh classmate
1BM 18CS093

Date (belonce (-1 & Key (wde + right - key ochern mode for santon and so (Ent & mode + 184 Delete Node delete node (node to root, int ky 1) (Key & root -> Key)
root -> left = delete Node (root -> left, Key) else if (Key > root -> Key)

clse if (Key > root -> Key)

clse if (Key > root -> Key) root - right = delete Node (root - right, key ((root -) left = = NULL) | 1 (root -right == NULL) Node of temp = root of left? root of left i root of the Jenp= 200 t * root = * temp;

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Sengeer Kuman Cingh classmate 1BMIECS093 Node * keup = min Volve Node (200t - 2 orght)

800t - Key = temp - Key;

200t - right = deleterode (200t - 2ight, temp- Key) if (root = = NULL) return root; root + height = 1+ mex (height (root + left),

height (root - right));

I'nt belonce = get Bolonce (root);

i'f (bolonce > 1 & get Bolonce (root - left) >=0)

return right Rojete (root);

I'f (bolonce > 1 & get Bolonce (root - left) ? 0)

g not reft = left Rote (root - left) refug right Robete (soot) if (bolonce <-1 let get Bolonce (svot - ngut) < 20)
return left rockt (svot) 1) (belong <-1 Ab get Belonce (roots right) 10) return left Rojote (root + organt) geturn root;

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