AVL Trus Node + insert (Node + node, Ont key) if (node == NULL) return (newNote (keg)); if (key c node 7 key)

node 7 left = insert (node > left + key);

else if (key > node > key)

node > right = insert (node > right, key);

else node - height = 1 t max (height (node - left), height (nodernight))
Int balance = get Balance (node); if (balance < - 1 &k key> node 7 gright - key)

return left Rotate (node);

if (balance > 1 &k key> node - left - key) node - left = left Rotate (node - left); return right Rotate (node); if (balance <- 1 xx key < mle - right + key) node > right = night Rotate (node > night);
return left Rotate (node); return nodi;

Nede tright Retate (Node ty) - height = max (height (y - left), height - height = max (height (2 - left), height Nøde Hefthotate (Node +2)

Deletion Node * delete Node (Note +000), but key) if (root == NUI) if (key (root - ky) che if (key > 900t 7 key) root - right = deleterade (root > oight, key): else if Groot - left == NULL) | (not - right == NULL) Node feng = opot - left ? goot - left: goot - right ! (temp==NULL) temp = root; nort = NULY topt = +tempi free (temp); else Node * temp = mls Value Node (root > right);
nort > key = temp > key;
root > right = delete Mode (Root > right, temp > key); ((Most = 2 NOLL) netwon rost;

nort > height = 1 + max (height (root > beff), height (root > right);

int balance = getbalance (root);

y (balance > 1 Ak getbalance (root > left) >= 6)

getling right hotate (root); XX get Balance (root-left) <0) Most > left = left Rotate (nost > left); netway leftRotate (groot); As getBalance (Prost - right) >0) noot - night = night Rotate (noot - night); Meturn loft Rotate (noot); Motion nort! SHA LINE P 1BM19C5406