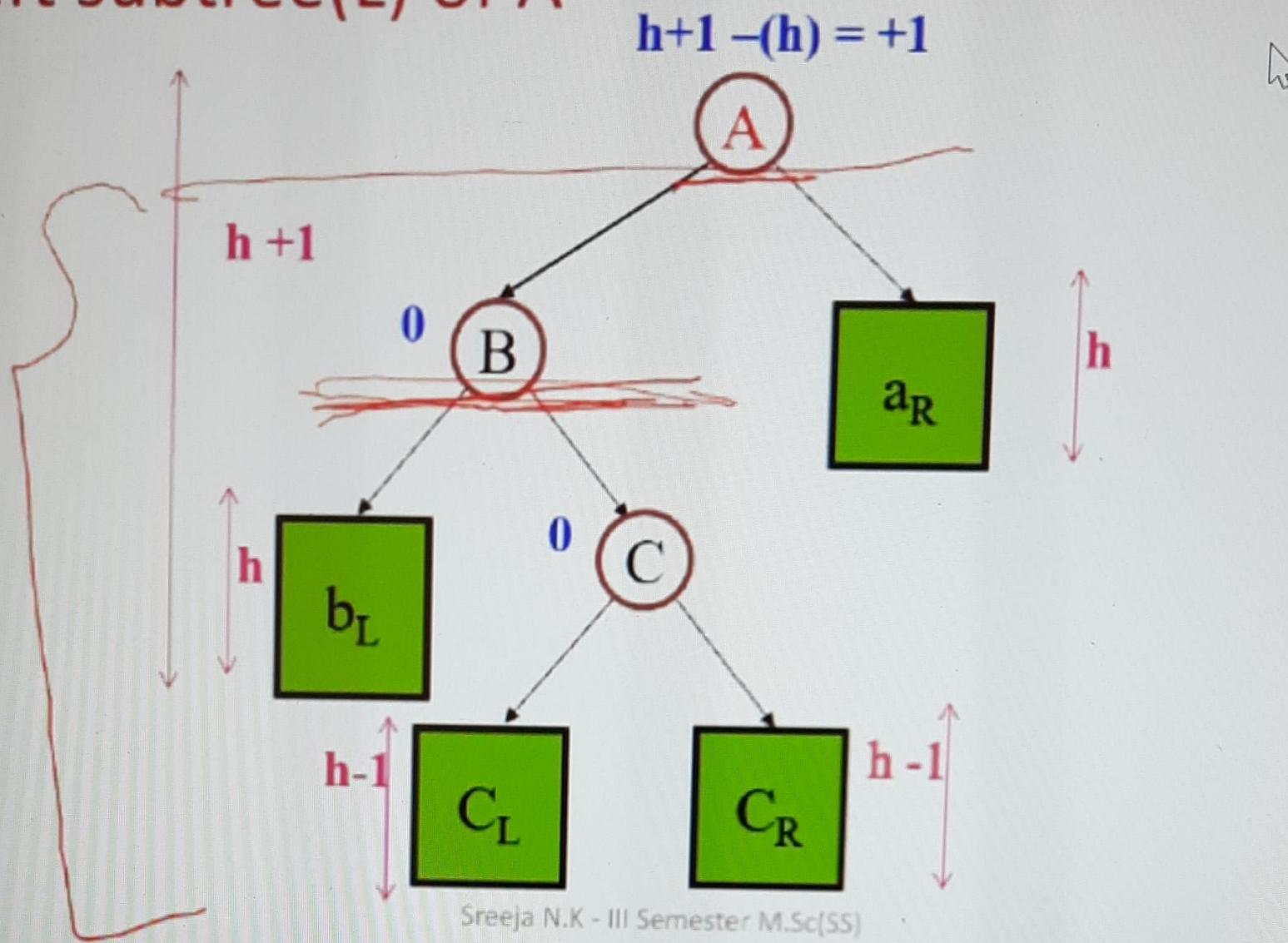
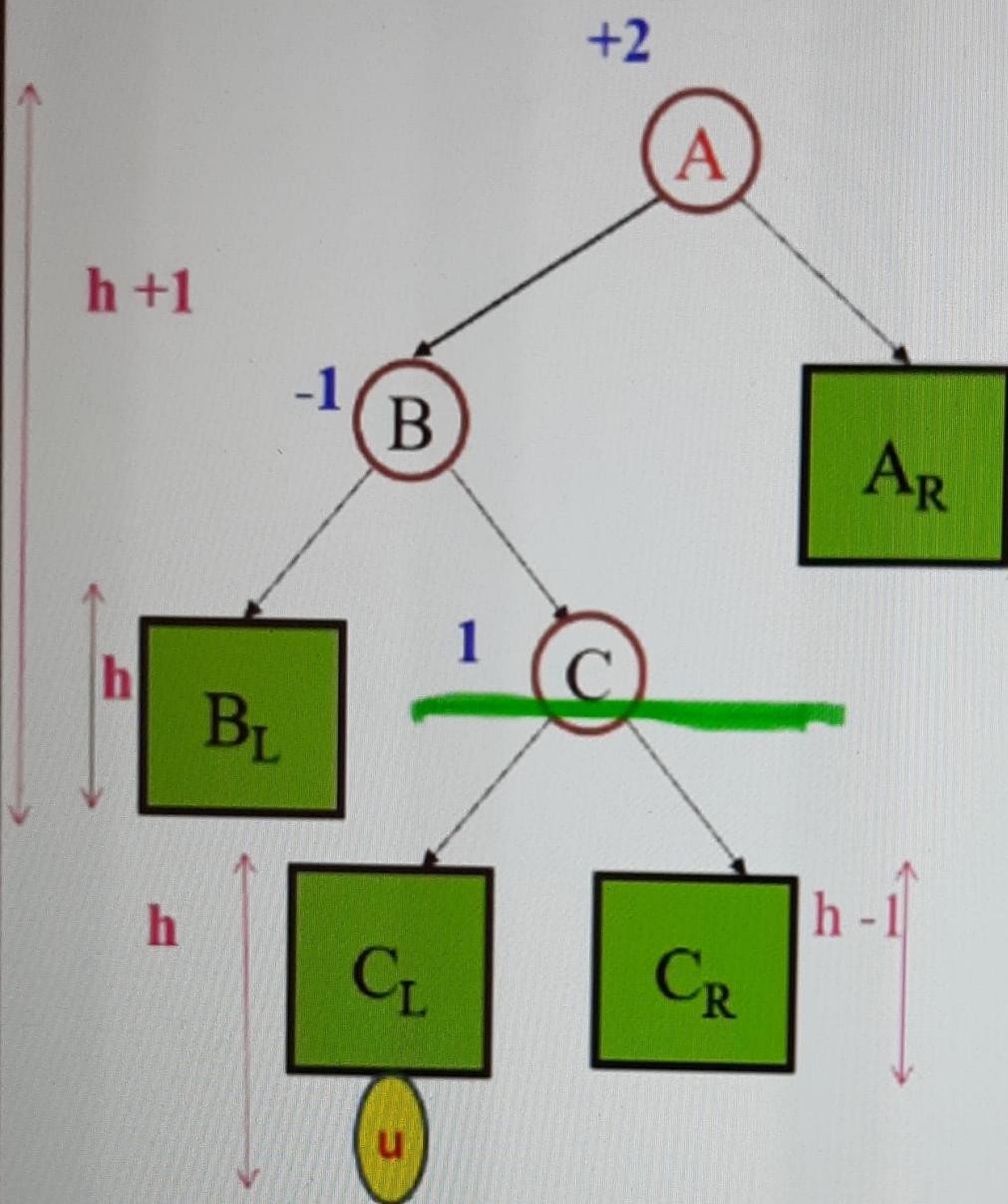


LR Rotation

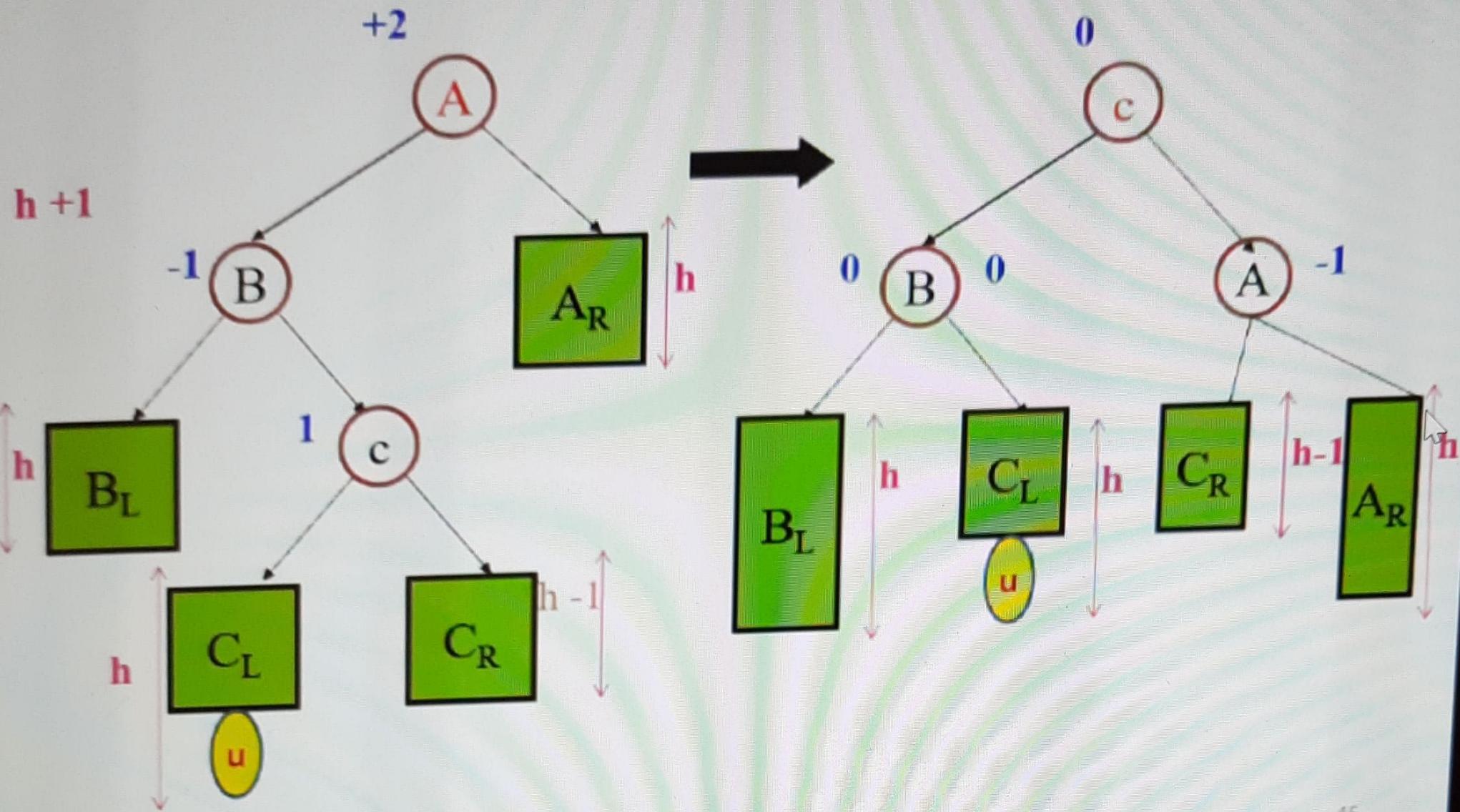
- Insert a node in the Right subtree(R) of the left subtree(L) of A



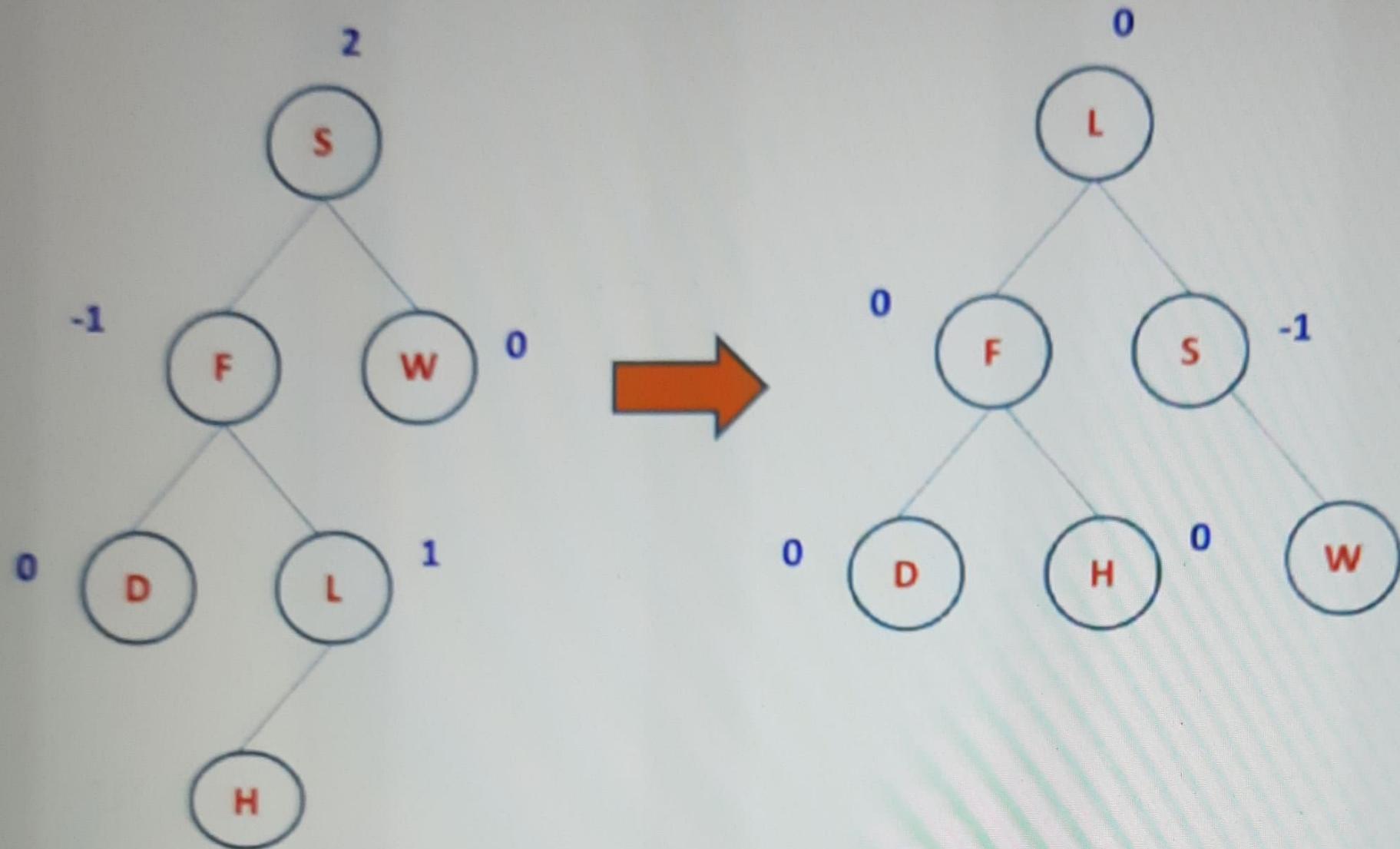
LR rotation



LR rotation



LR Rotation



LR Rotation

Node LR (Node A)

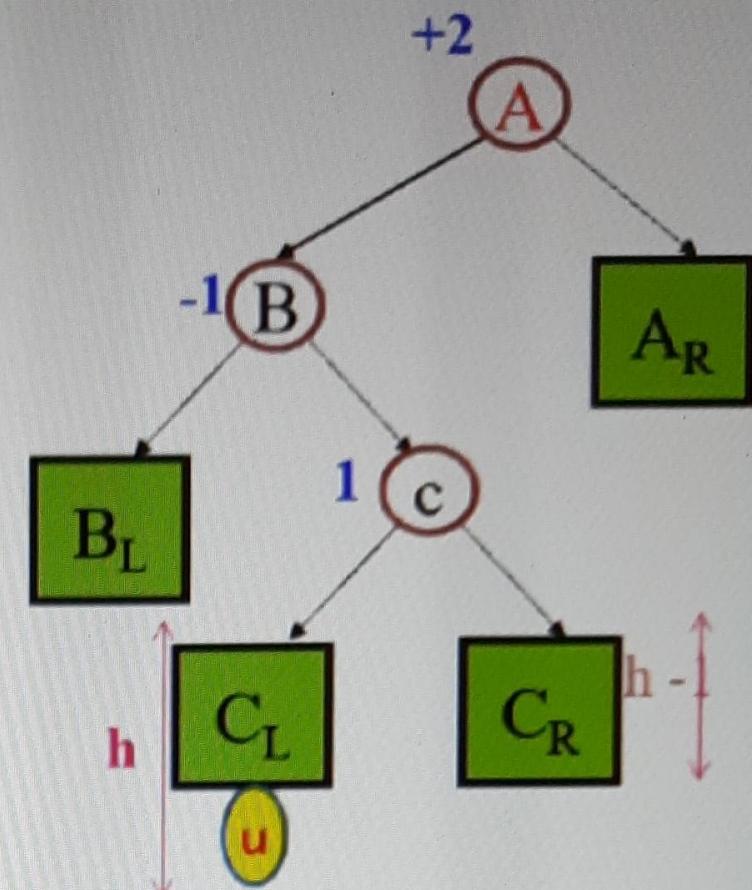
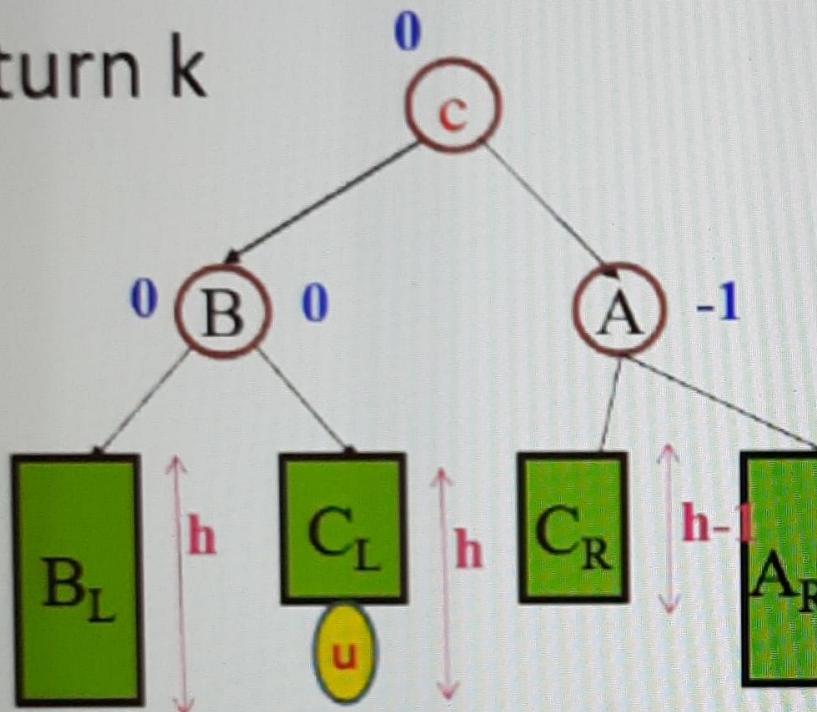
{

left(A)= RR(left(A))

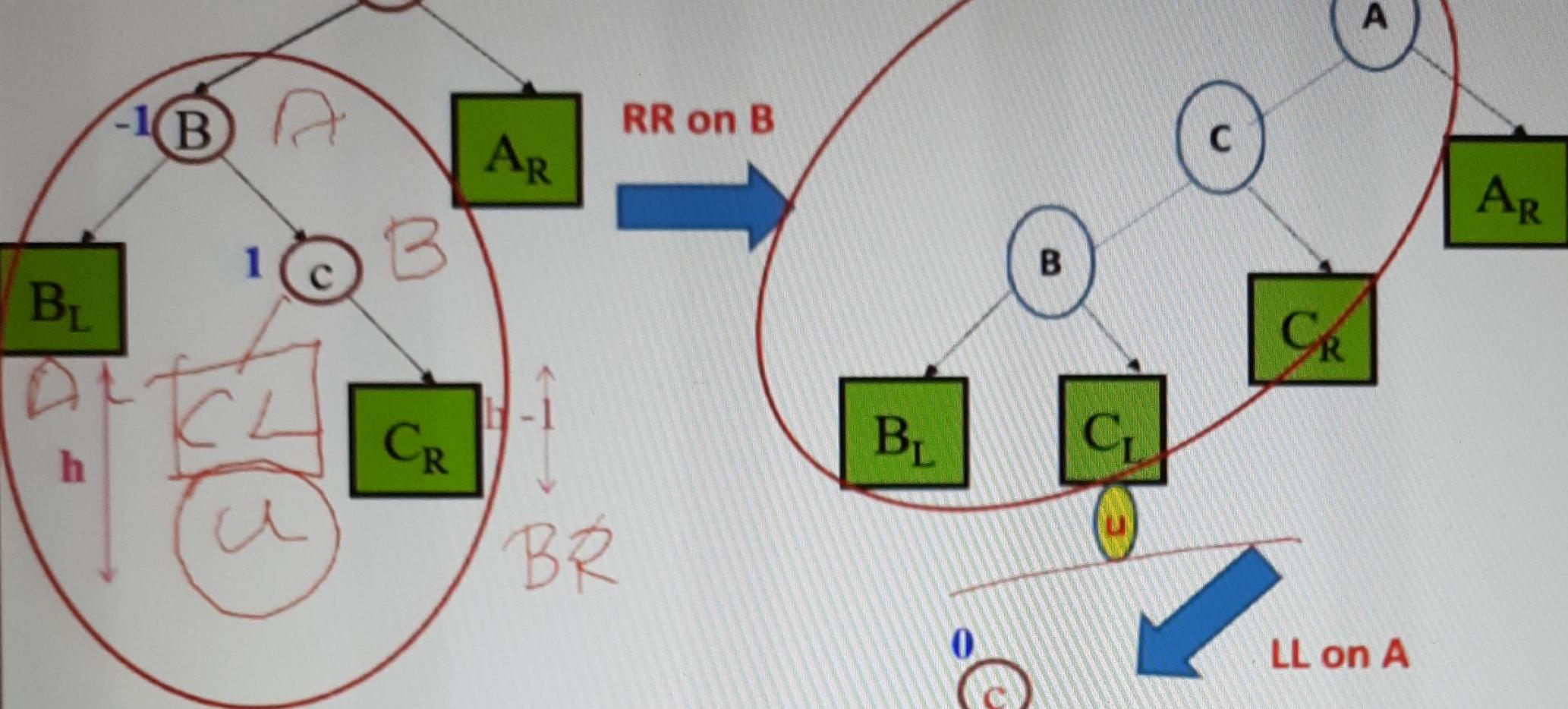
node(K)= LL (A)

return k

}

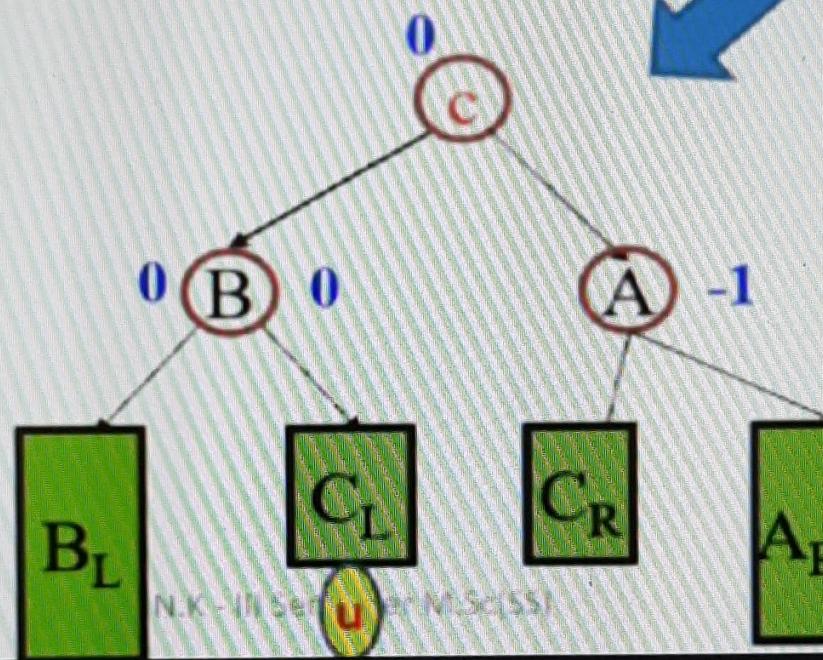


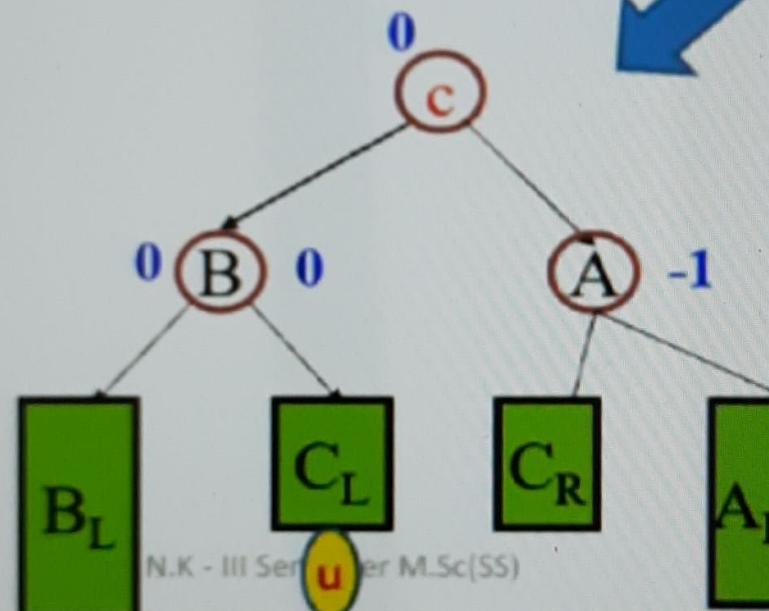
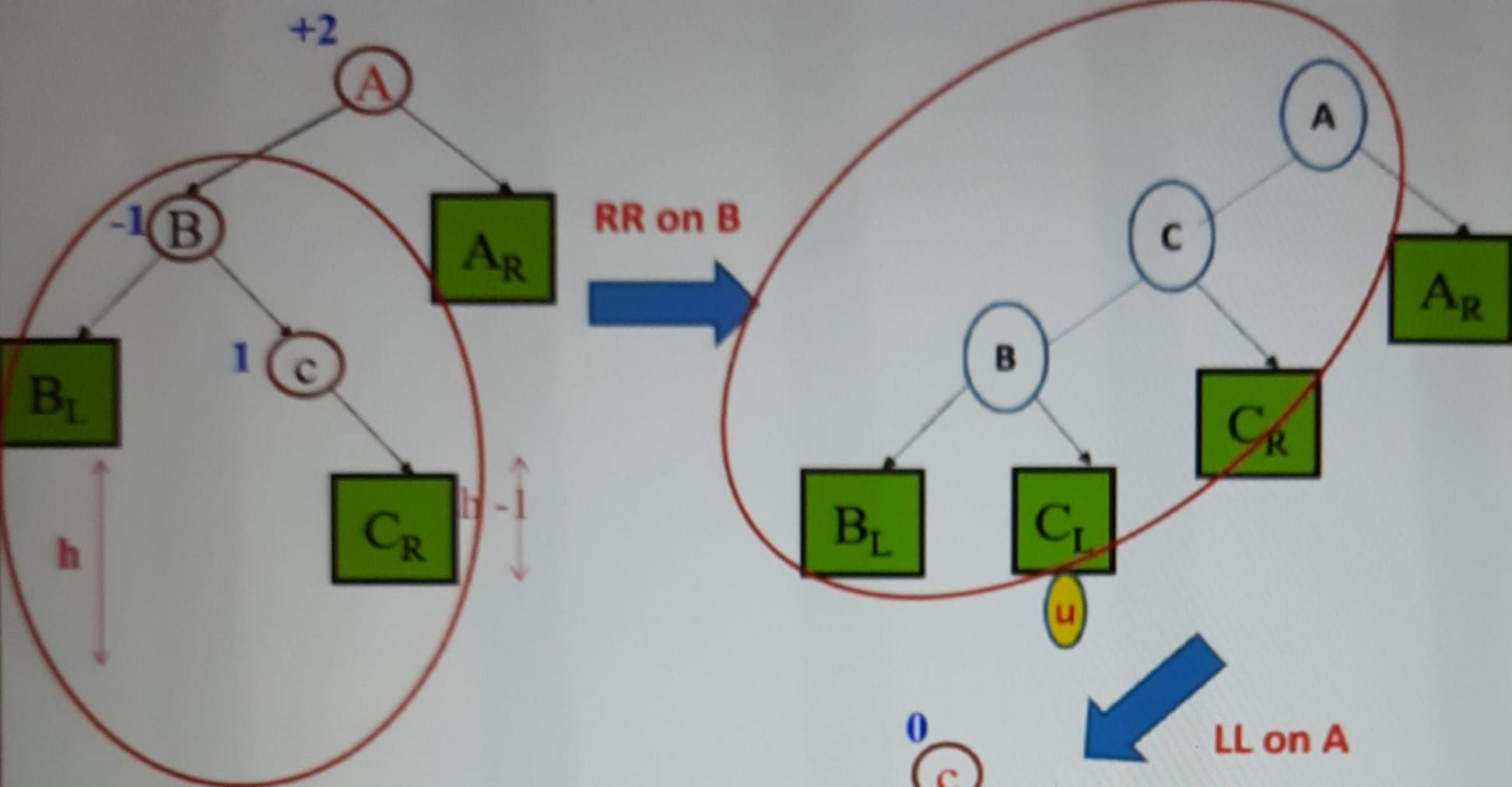
1. Perform RR on B
2. Perform LL on A

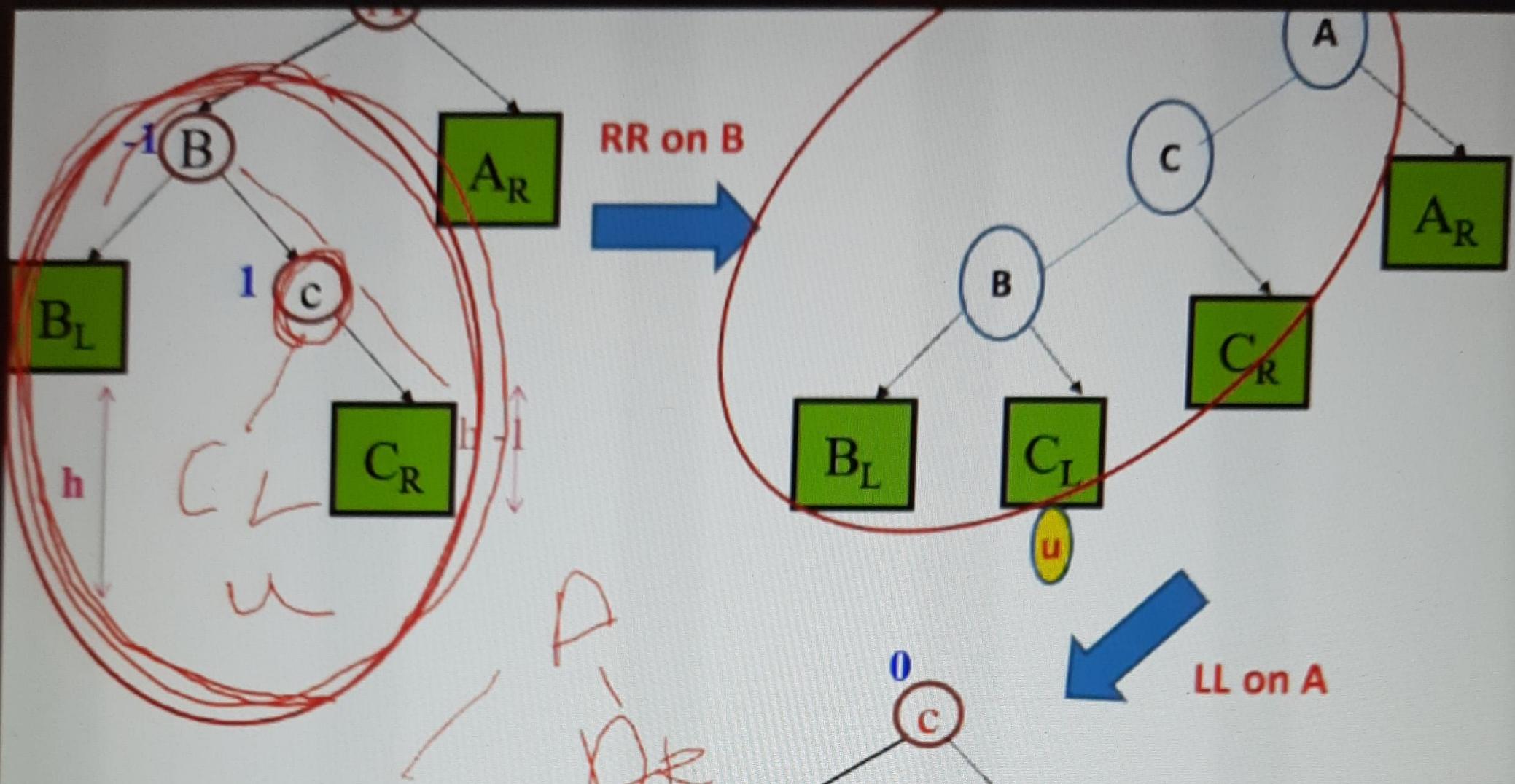


$B \leftarrow C \leftarrow C_R$

B_L

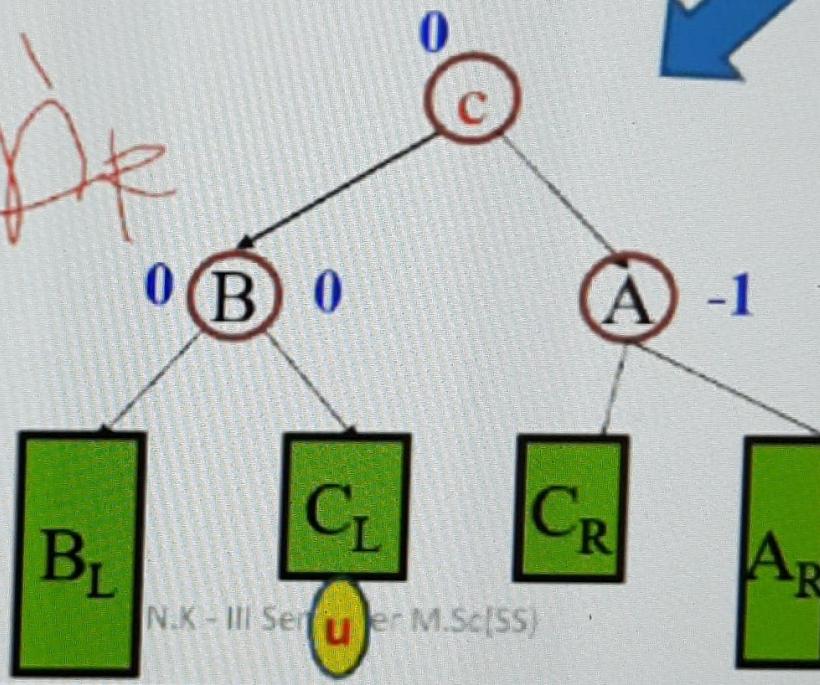






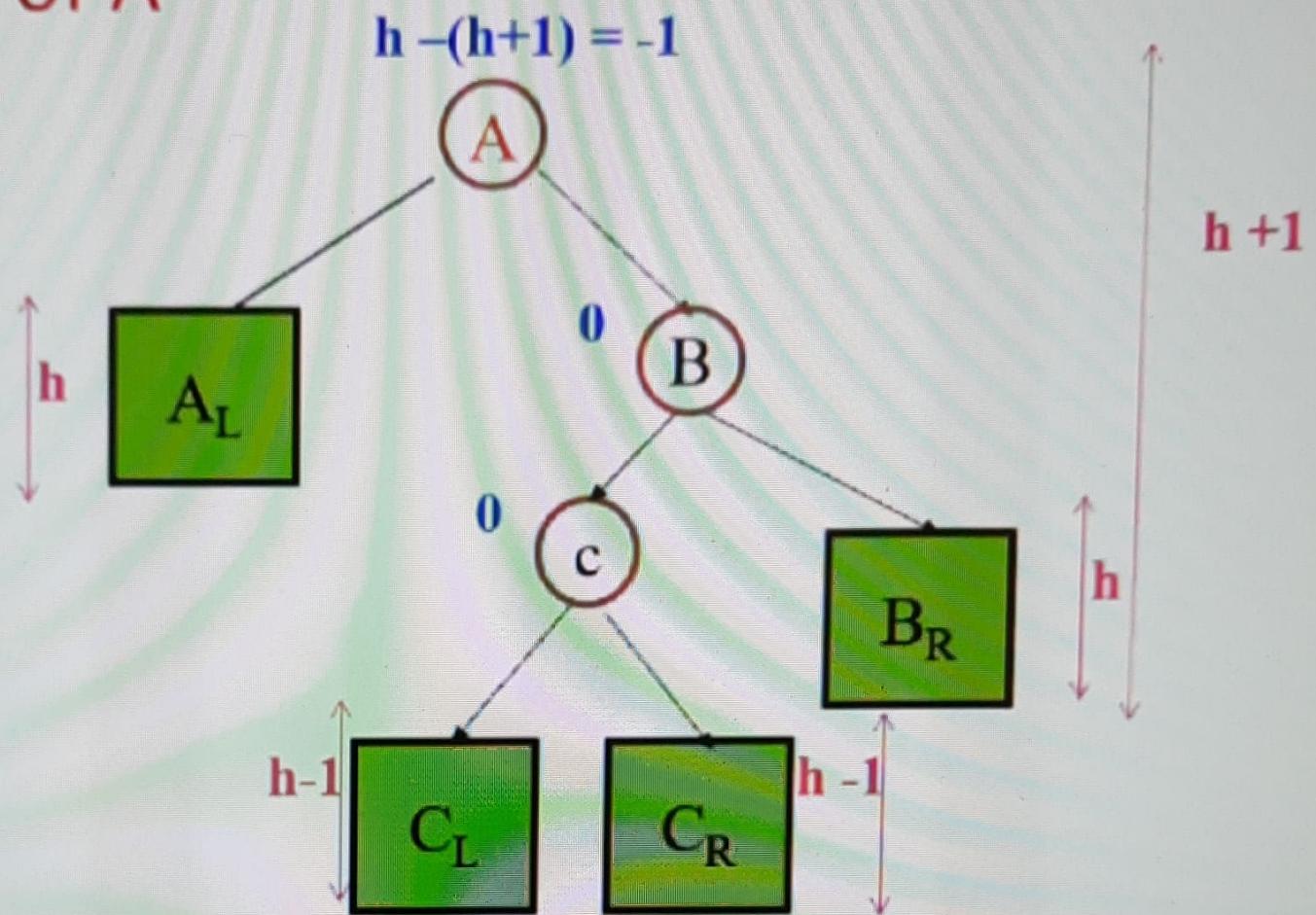
B_L C_L C_R

B C



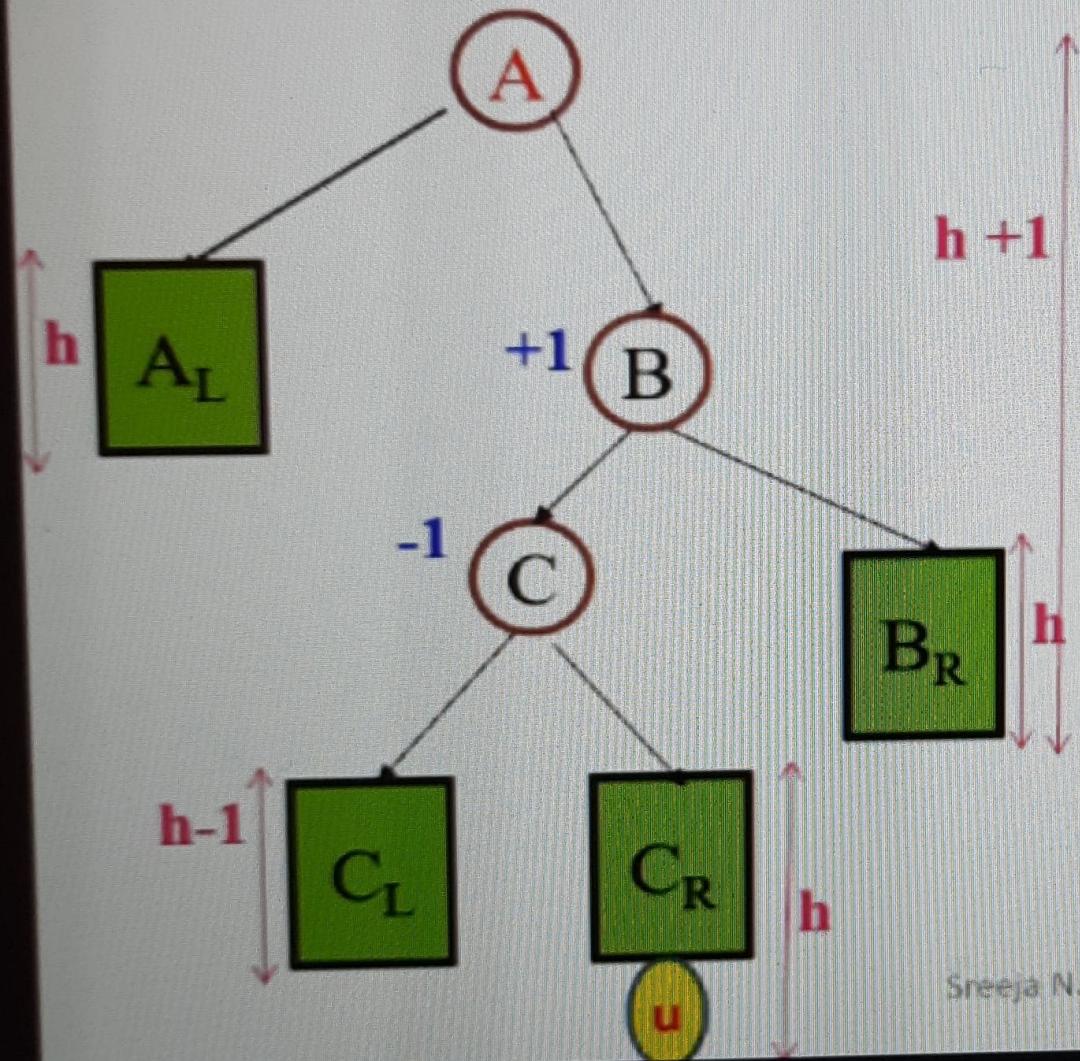
RL Rotation

- Insert a node in the Left subtree(L) of the right subtree(R) of A

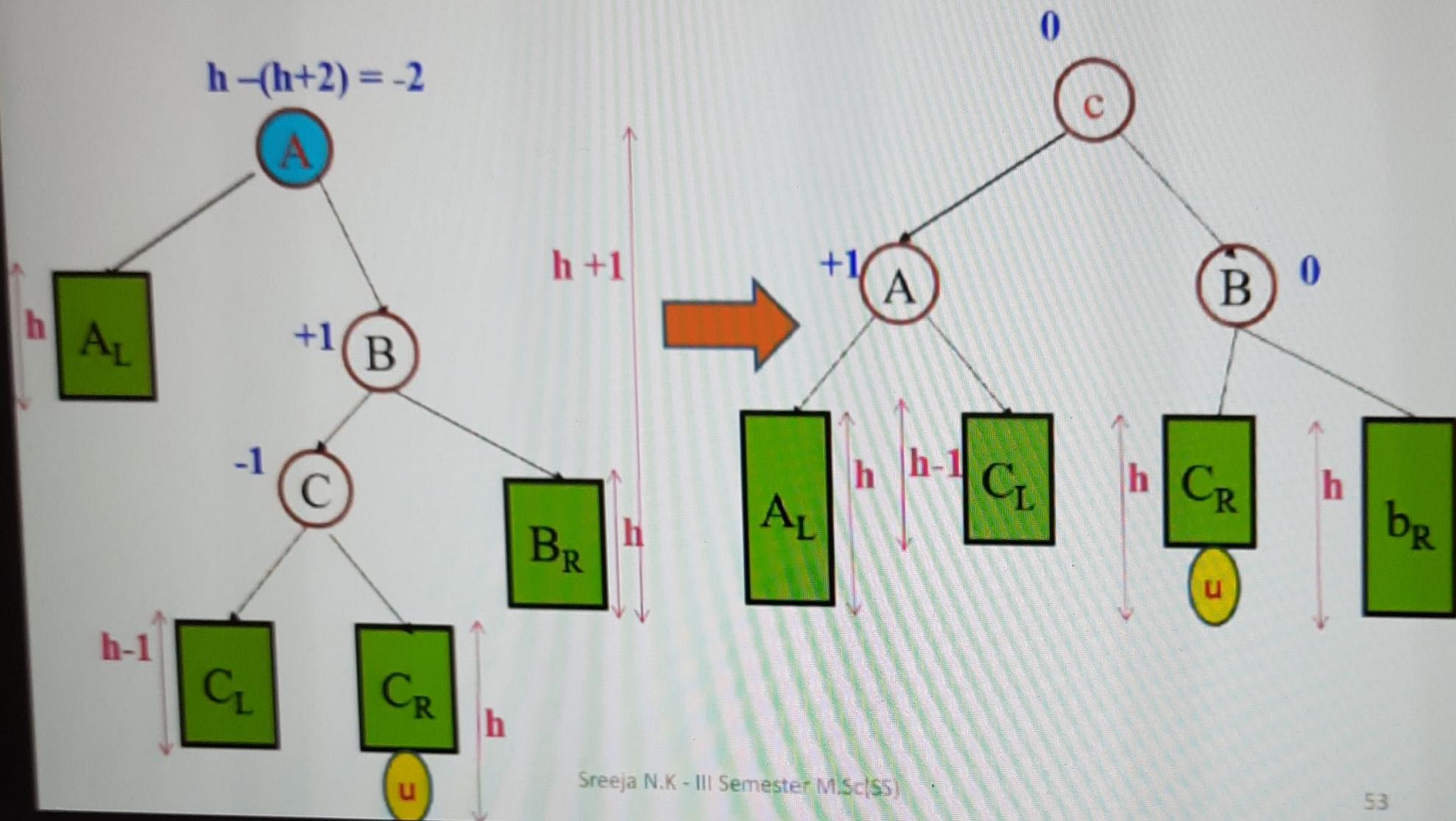


RL Rotation

$$h - (h+2) = -2$$



RL Rotation



RL Rotation

Node RL (Node A)

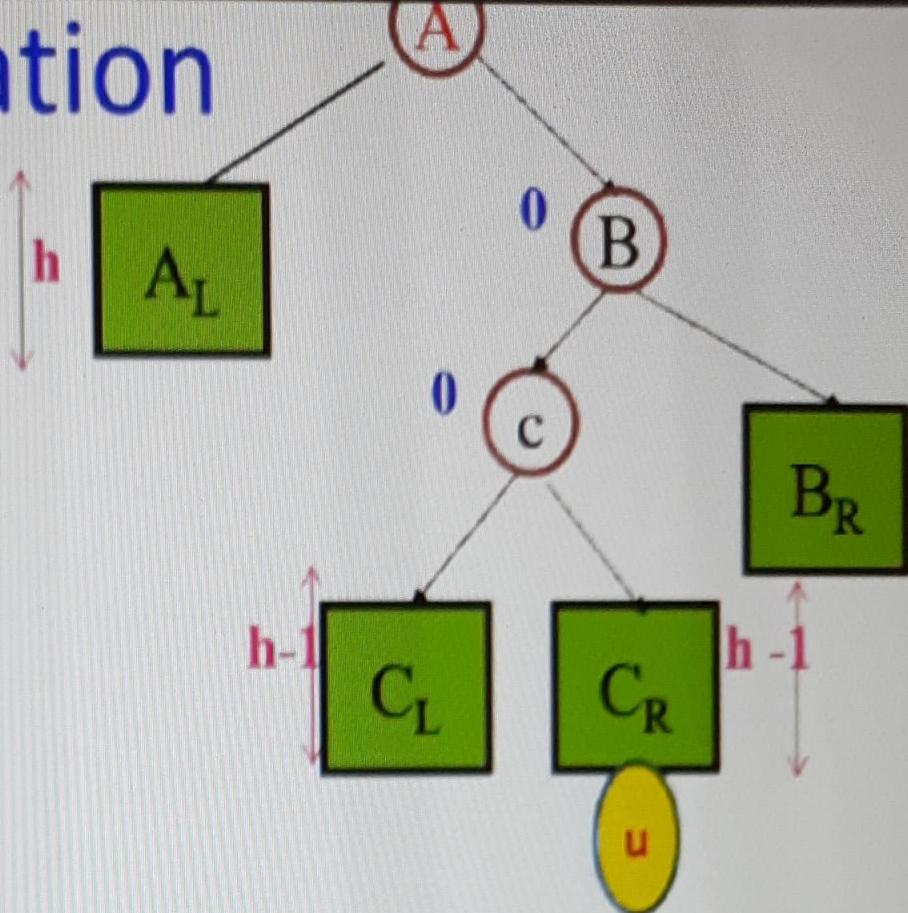
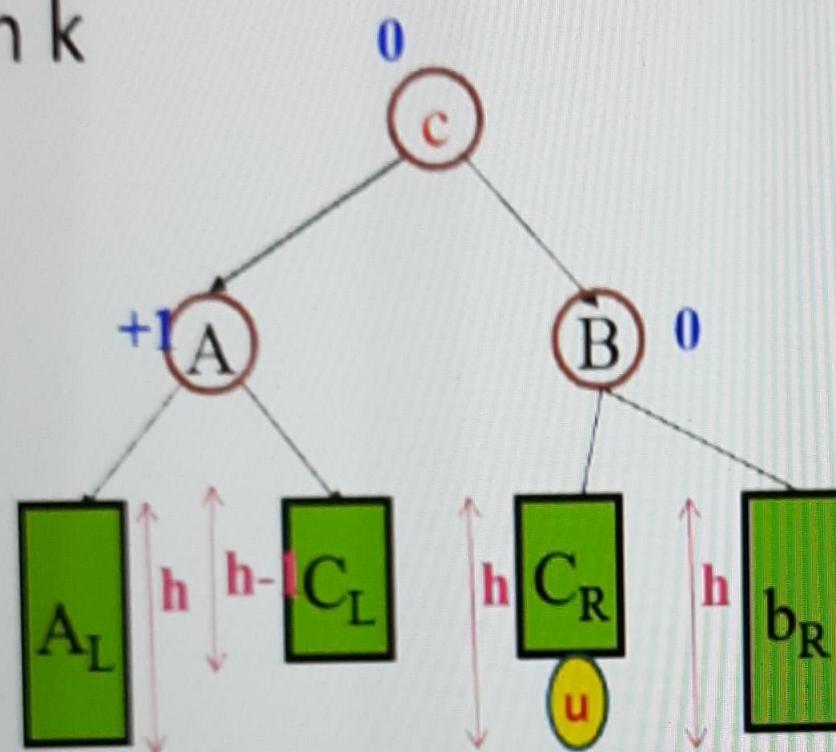
{

right(A)= LL(right(A))

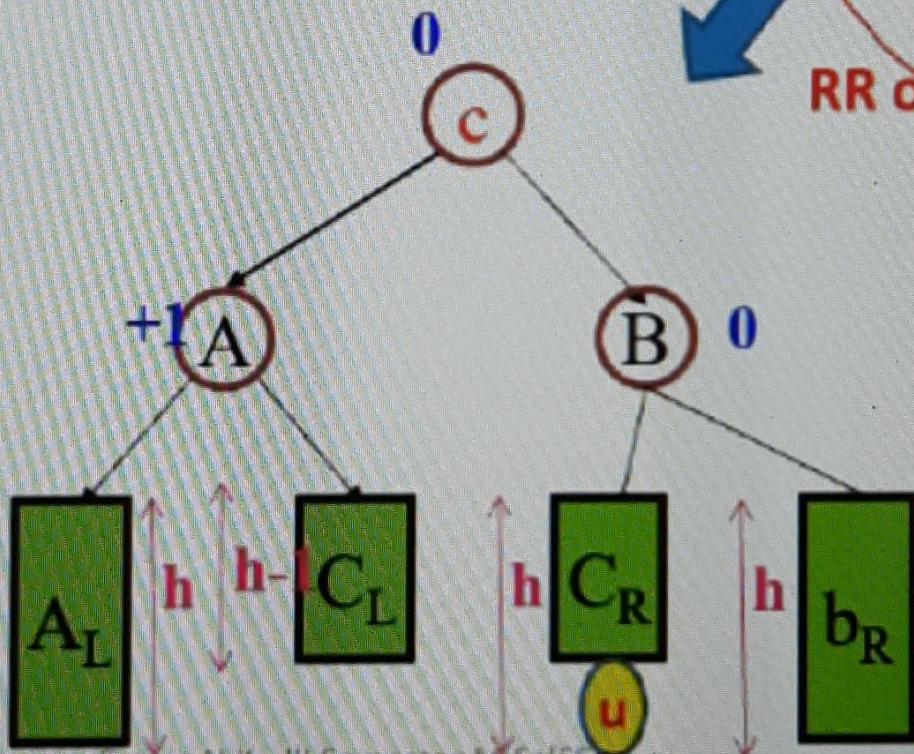
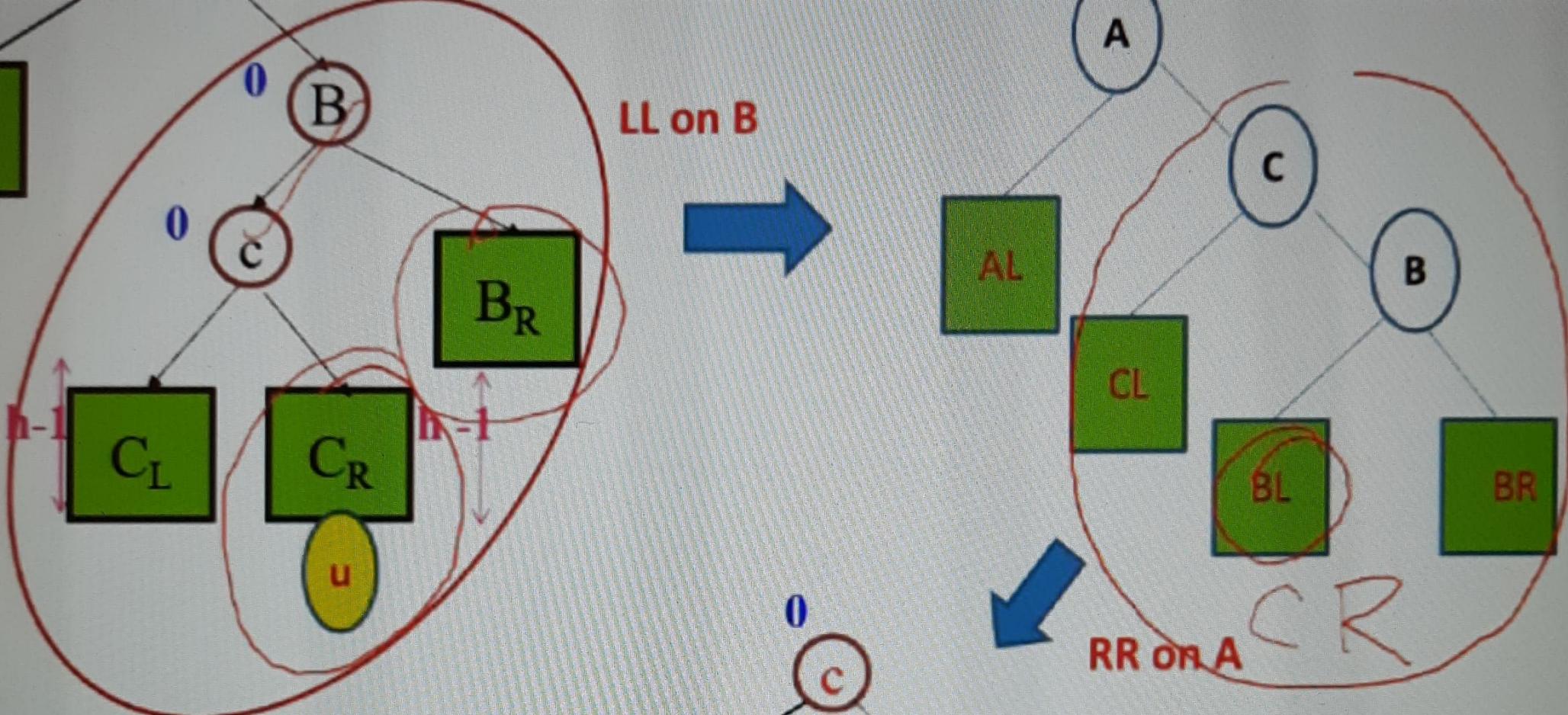
node(K)= RR (A)

return k

}



1. Perform LL on B
2. Perform RR on A



RL Rotation

