13.09,2029 Procedure Delete (Mode n) sullest. Successor is a right

m E # Succossor (n) m. left c. n.left n. left-parent = Nuru) 2 vetur 2 if (n. panent = Nuru) 2 vetur 2 n= n. parel- left) m pour left Em n parant Enparant. n. panl-nzh- < m m. part = n.panel-.

Core nl Ln L NR, m, MR. K 1357 onlering is preserved. m < nr/m. MR > M m left E h, left n, left, parel = M. m might parent a m parent  $) \subseteq m, m \leq M$ 

minight & ninght. n. n'gut. paral- = m. if (n, pant=NUL) retur. m. parent. Em. parent. M. panl. (left fright) Em.

Skewed

Tree Robertons improve ment to · Resglot (NULI) = Def ('Reight of BST) S' herset (left-child) Chersut (volut-child)? volager. Volid AUL tree., vidation

Start Node & 2

int Key;

struct wode \* left;

struct;

pant;

August

3.

abile (terp # NULL) fend Elenp. pant. ord-height - Jerp. height. terp. height = It max { few. lef. breight Texp. vr slow height If (old = heght. = temp. herstr)

Defr [AVL Tree] ABST with the following additional property: - | herset (node left) - Ereglet (node right) | < \( \)

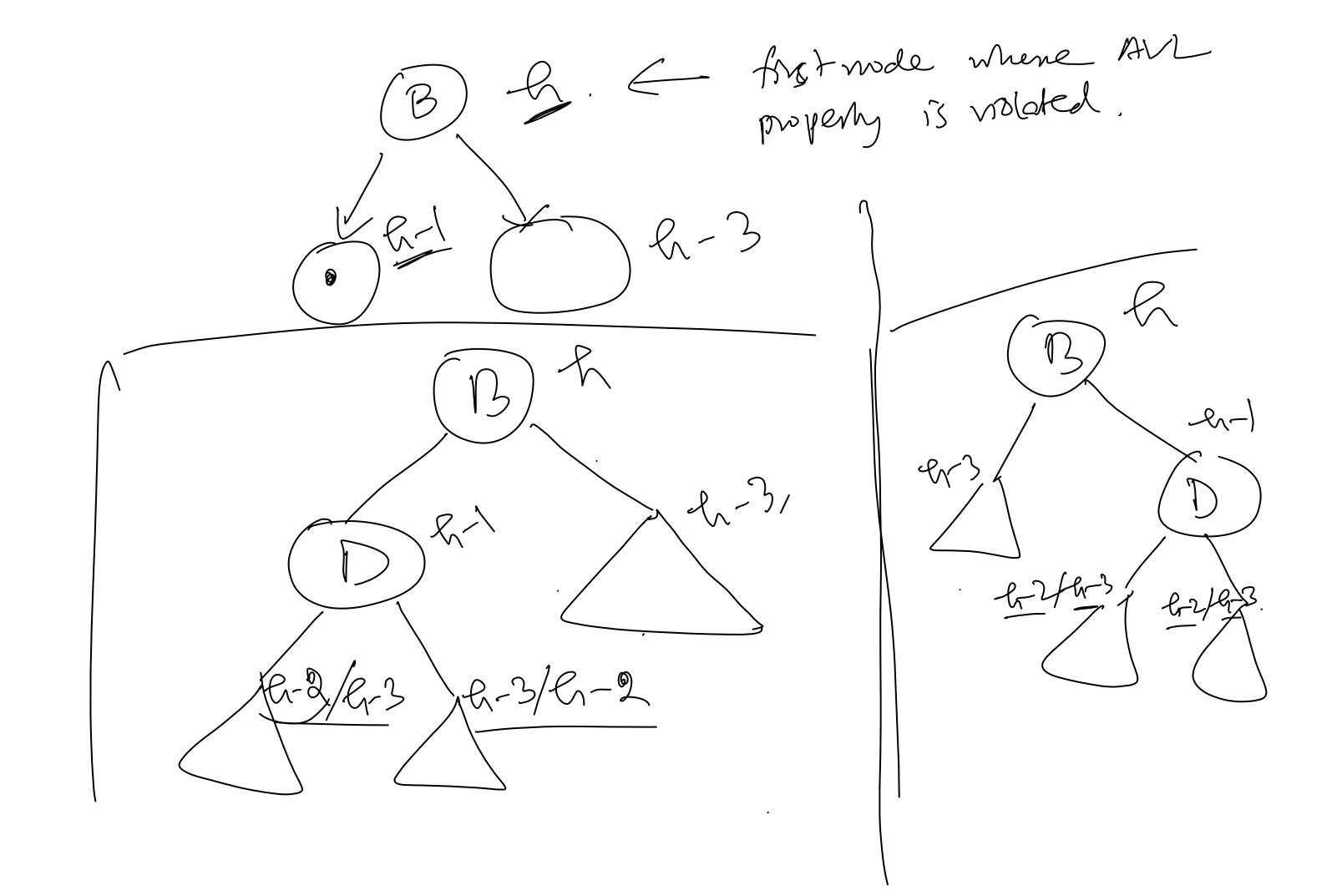
Y wide \( \) Tree. - Malle a parts from newly inserted mode to the Any true it violates Aux property. break & not of tree. John fle mde.

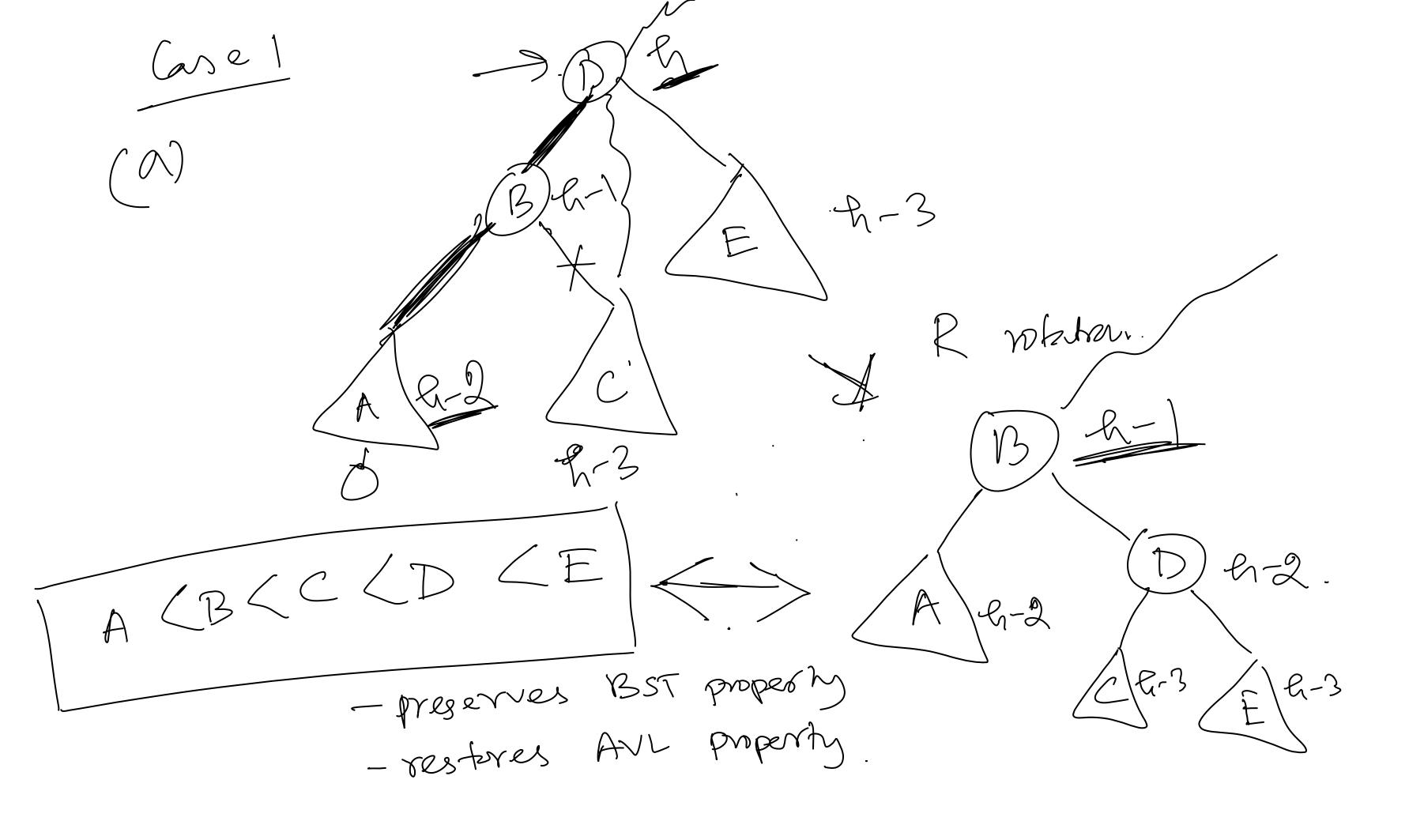
Restere All property

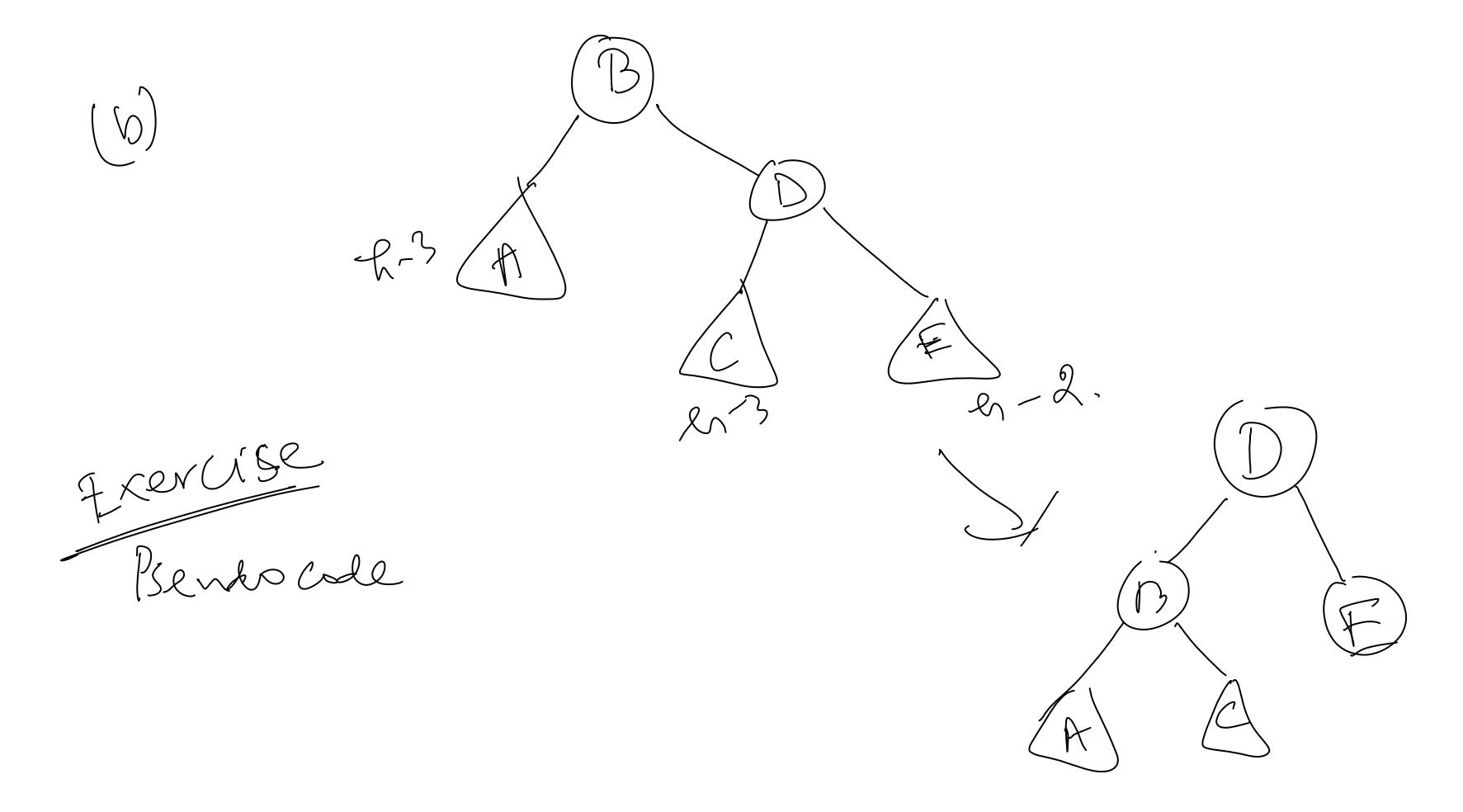
(L) (2) (3)

restoration

•







Pemark:

Insert followed by notation. will never increase the height.

Example

[15]

Care 2 2 )h-5-2

