

COP3502 10/31/25

1) Class Vote

23 - Keep Same

9 - Quiz in Class validate HMK (Program Grades)

↳ Don't use hmk for students' grade calculations

0 - drop all HMK from grade for all

0 - let everyone use AI remainder assign.

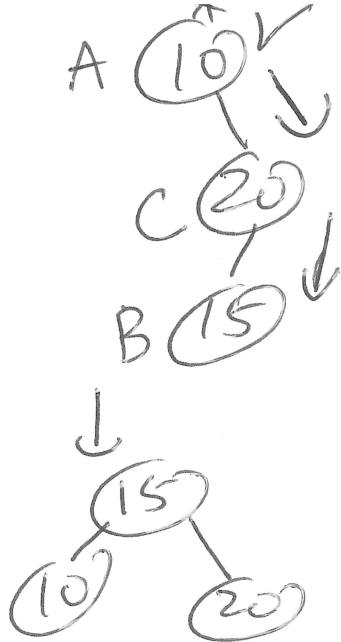
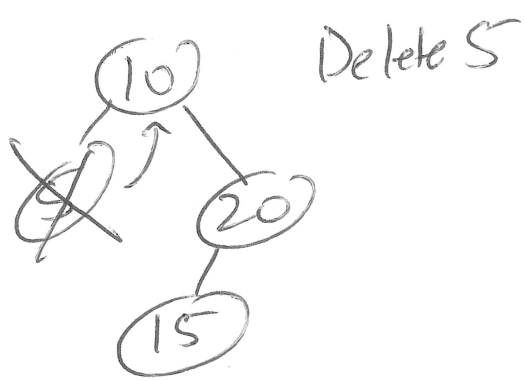
3 - ~~question~~ not sure → live coding.

11 - Reweight assignments

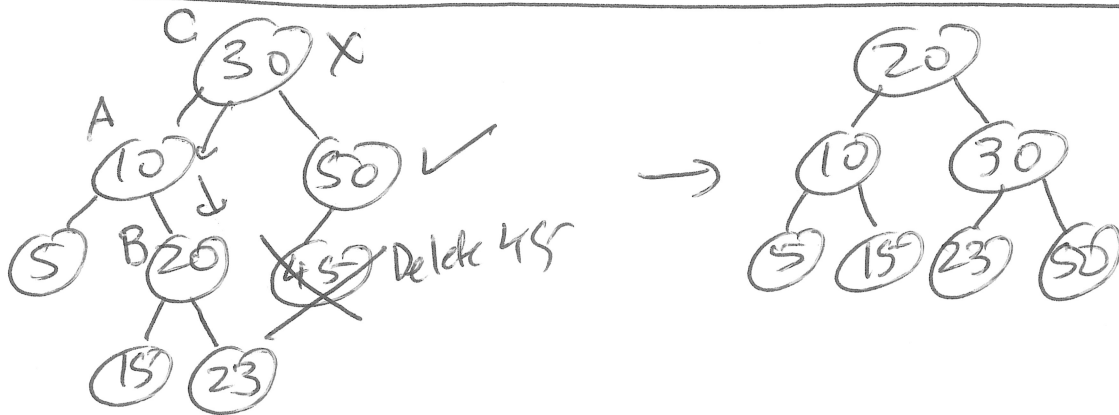
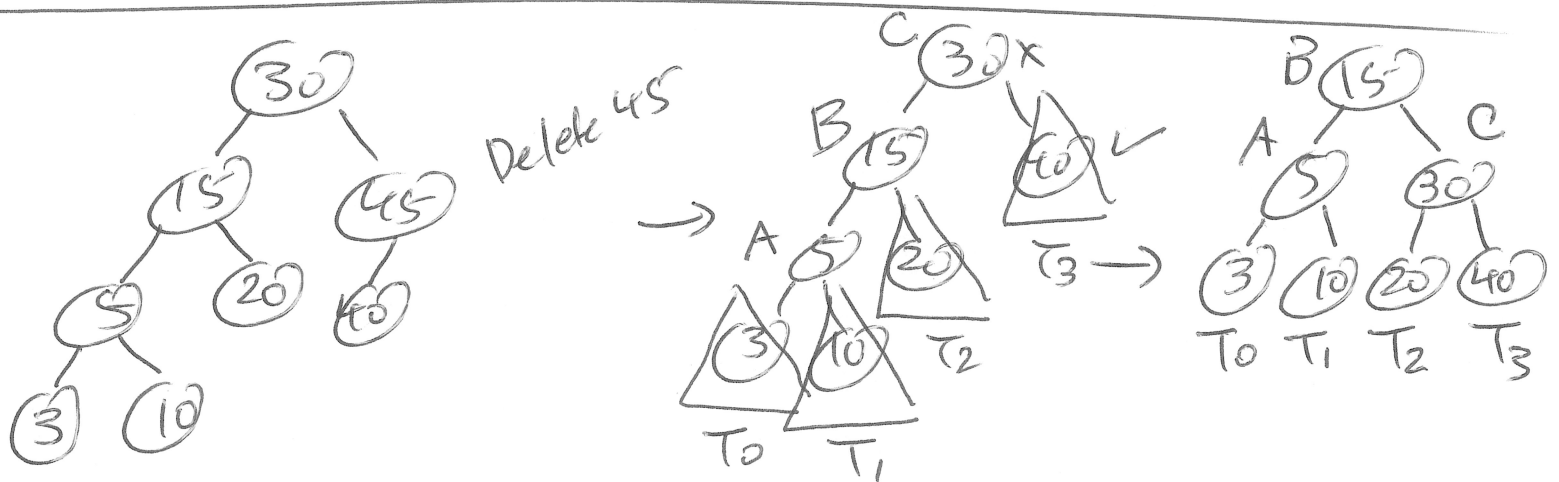
AVL Tree Delete

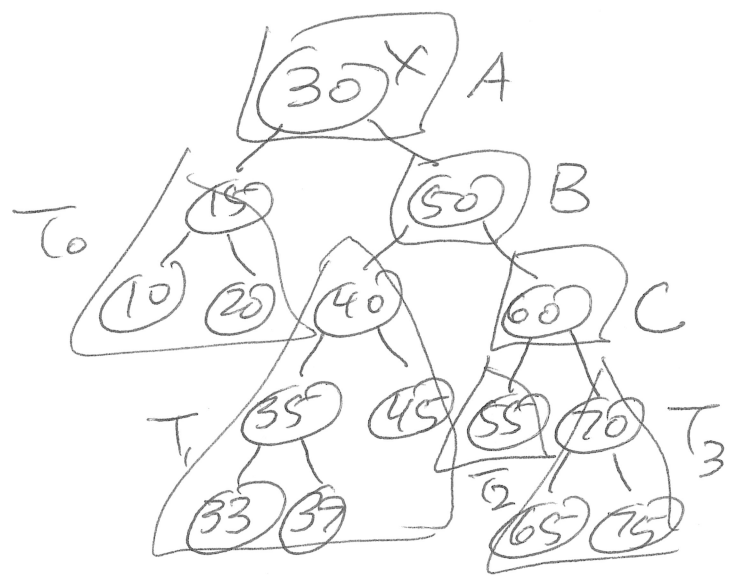
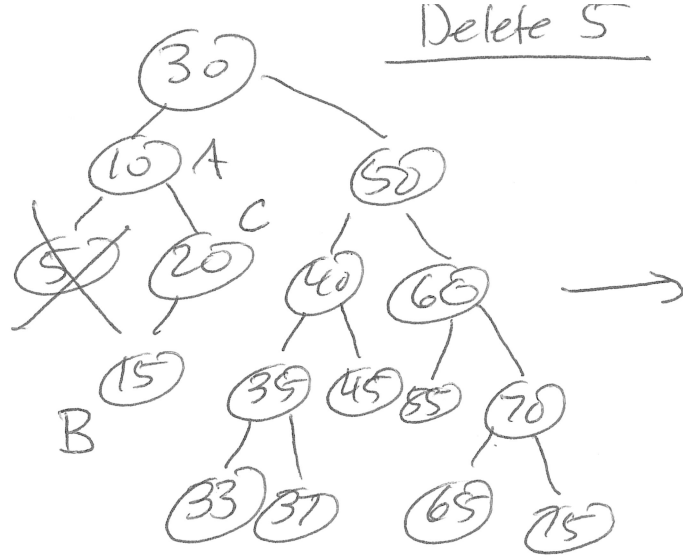
1) Same as regular BST delete BUT
this may cause an imbalance!

2) Trace up the ancestral path, fixing
imbalances as necessary. There may be
more than 1 fix necessary!



How to ID
A, B, C?
mark imbalanced
node, then go
to side w/ max H
twice





Here is where I made the error in class. When choosing nodes for the set $\{A, B, C\}$, you always choose the node that is down the "taller" side. So, (30) and (50) are part ~~of~~ of $\{A, B, C\}$. Now to decide the last element, if both sides of (50) are the same height, you HAVE to go in the same direction you previously went. Thus, since 50 is right of 30, we MUST choose 60 (right of 50) to complete the set $\{A, B, C\}$. So there is NO choice in this algorithm at all. Here is the final tree:

