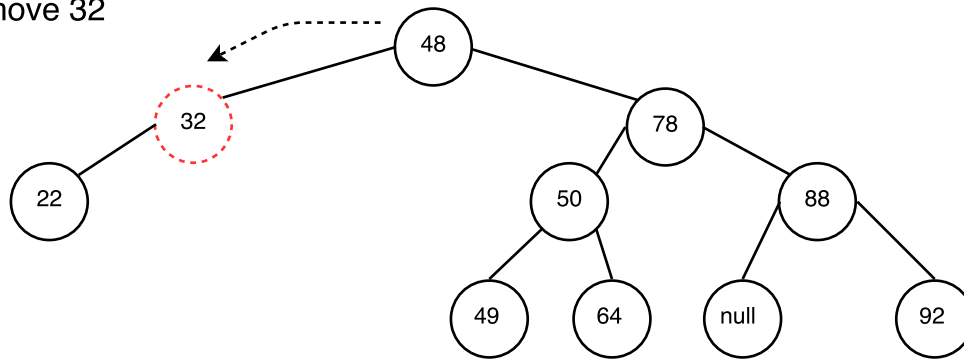


2 AVL TREE

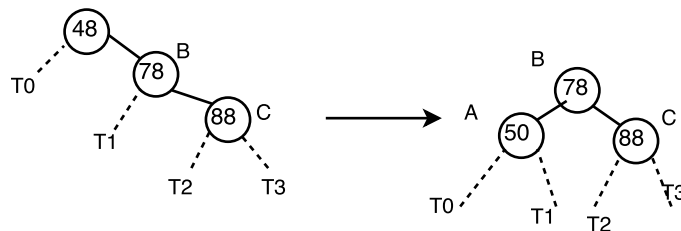
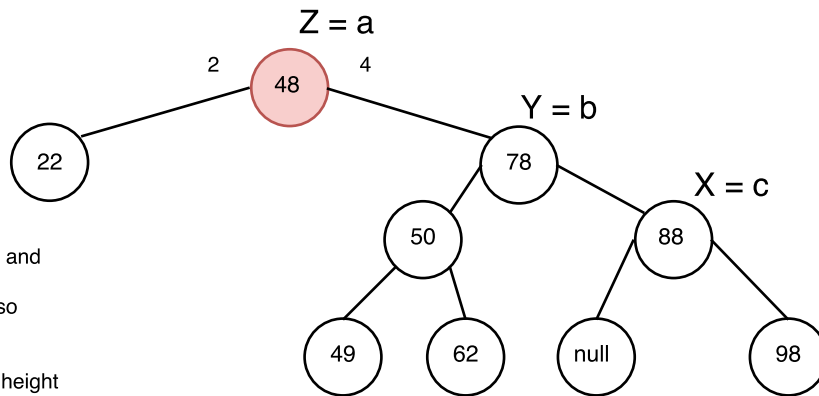
Remove 32



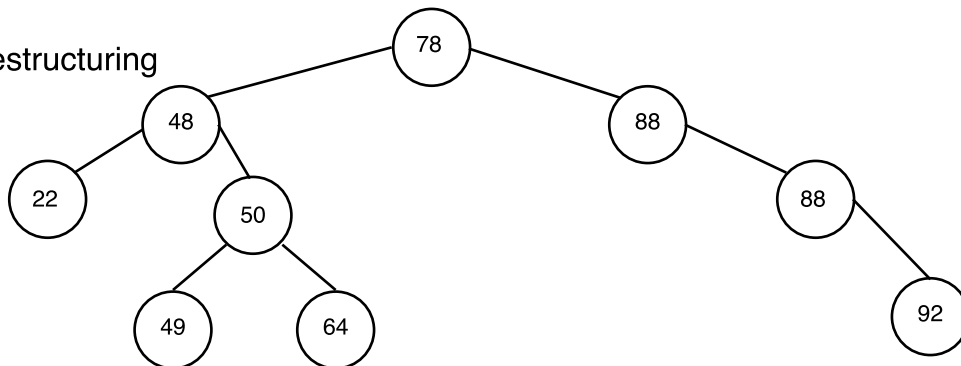
Tree is now unbalanced
Left of 48 is 2, right is 4

*height cannot differ by more than 1

- Starting at the removed node W and going up towards root
The first unbalanced node is 48 so
 $Z = 48$
- The child of Z (48) with a greater height is 78 so $Y = 78$
- The child of Y (78) with a greater height is 88 so $X = 88$.



After Restructuring



Tree is now
Balanced