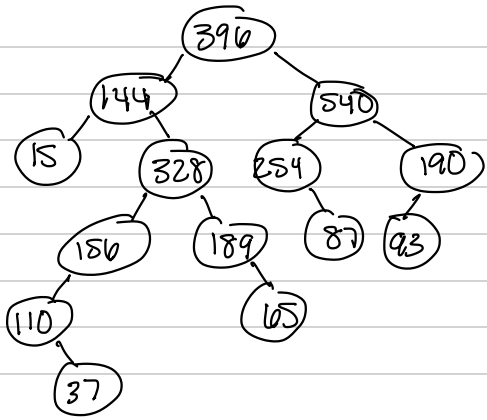
Inorder: left, root, right

TREE ⇒



15 + 0 + (2×0) = 15

21 + 15 + (2×54) = 144

36 + 0 + (2×37) = 110

37 + 0 + (2×0) = 37

46 + 110 + (2×0) = 156

54 + 156 + (2×59) = 328

59 + 0 + (2×65) = 189

65 + 0 + (2×0) = 65

68 + 144 + (2×92) = 396

80 + 0 + (2×87) = 254

87 + 0 + (2×0) = 87

92 + 254 + (2×97) = 540

93 + 0 + (2×0) = 93

97 + 93 + (2×0) = 190

2b) No, the values are no longer left < root < right order due to the arithmetic modifications.

2c) No. AVL trees must be height-balance, and this tree wasn't rebalanced - some branches are clearly deeper than others.