

Devoir 6 (2.5% - 10 points) CSI2110/CSI2510 (Automne 2022)

Question 1.

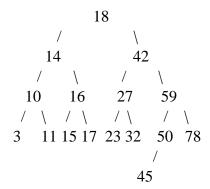
Key 17:

After balancing:

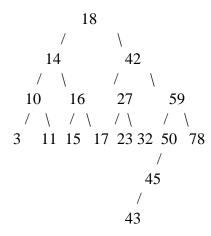
Key 50 (no balancing required):

Benzekri Omar 300262795

Key 45 (no balancing required):

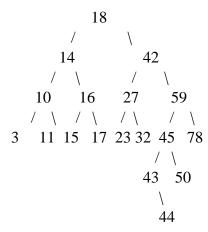


Key 43:

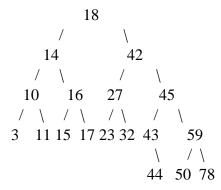


After balancing:

Benzekri Omar 300262795 Key 44 :

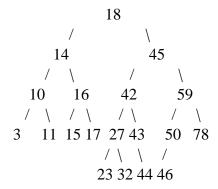


After balancing:



Key 46:

300262795 After balancing:



Question 2

After removing 40 from the AVL tree, the balance factor for the root node is 1 and so it is balanced which is no longer the case for the right subtree of node 50, the balance factor is -2 hence a rotation is performed: