

CS-202

Fundamental Structures of
Computer Science II

Section: 1

Homework 2

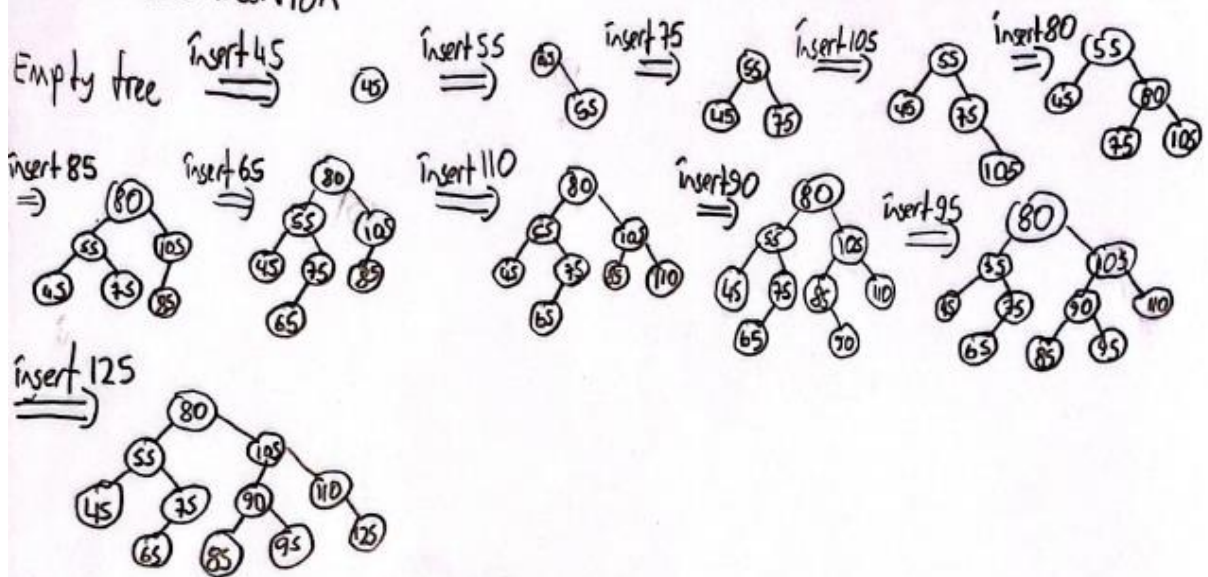
Mehmet Hasat Serinkan

21901649

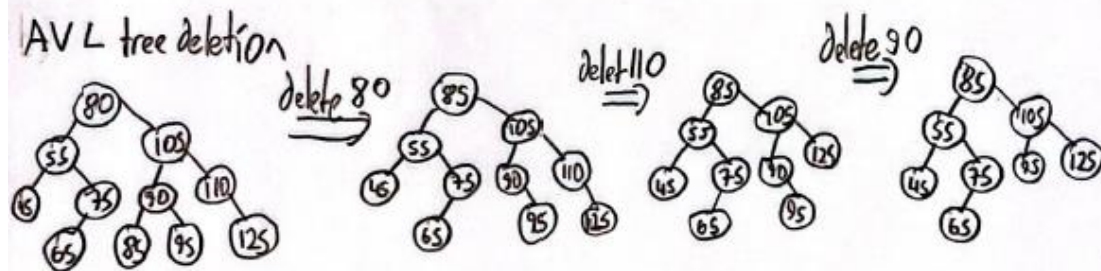
02.07.2022

Question 1:

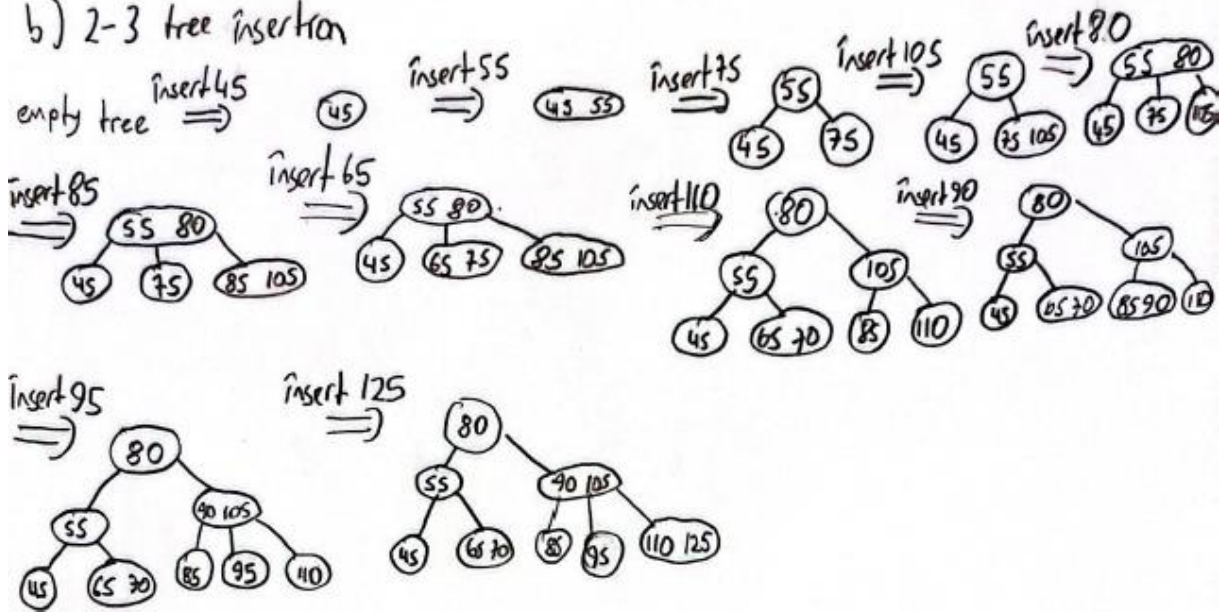
a) AVL tree insertion



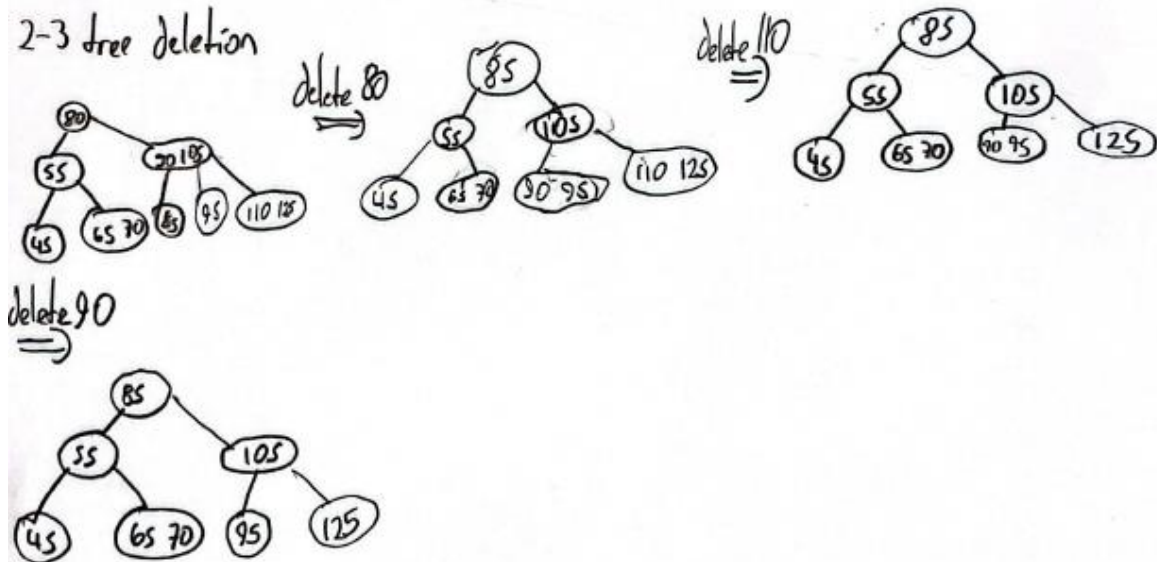
AVL tree deletion



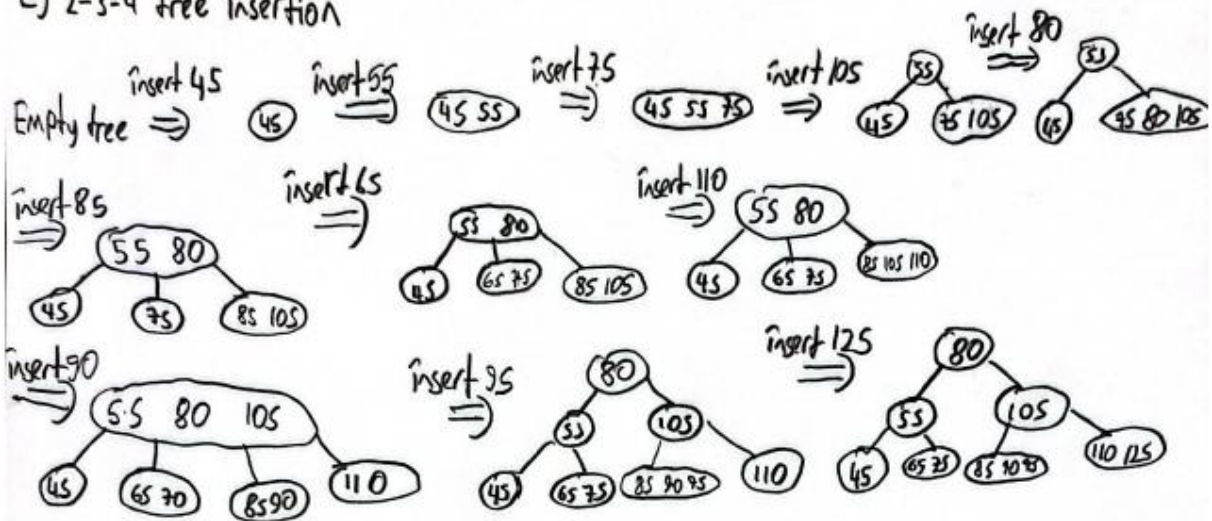
b) 2-3 tree insertion



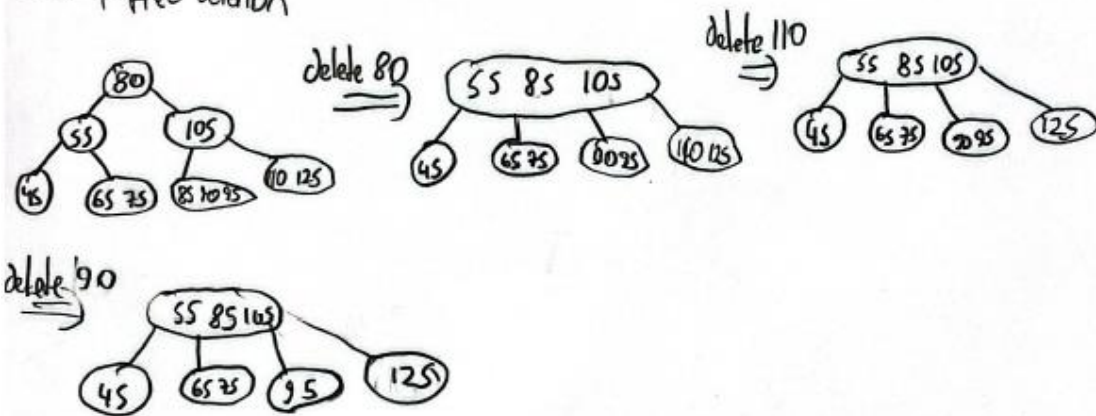
2-3 tree deletion



c) 2-3-4 tree insertion



2-3-4 tree deletion



d) Red-Black tree insertion. Now assume that \otimes is black node and \otimes is red node

