CS 202

Spring 2021

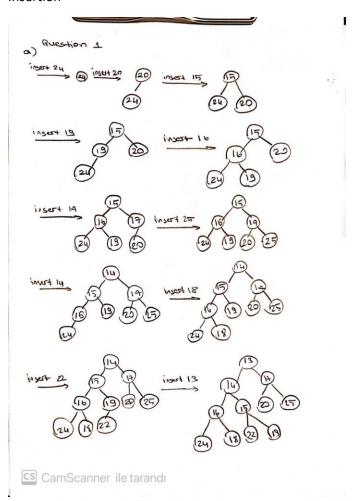
Homework 3 – Heaps, Priority Queues and AVL Trees

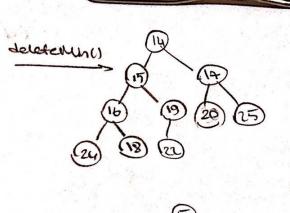
Funda Tan - 21801861 - Section 3

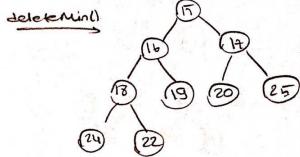
Question 1

A)

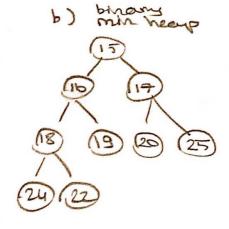
Insertion











Keys as excountered in preased traversels
15, 16, 18, 19, 24, 22, 17, 20, 25
Output is not sorted.

Keys as encountered in inorder traversal:

24,18,22, 16,19, 15, 20,17,25

Keys as encountered in postorder traversal:

24,22,18,19,16,20,25,17,17,15

CS CamScanner ile tarandı

C) CS CamScanner ile tarandı

Question 3

Instead of increasing printer number by 1, we can multiply the printer number by 2 in each iteration. By that way, we will calculate the optimum number of printers more effectively in very large librarires with a large number of printers and large number of requests.