

CS202: FUNDAMENTALS OF COMPUTER SCIENCE II

HOMEWORK - 3

Balanced Search Trees and Heaps

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Question 1

a) ANL THE

inserting = 30, 45, 60, 16, 22, 36, 20, 25

step = notation

30

30 45

30/45/60

30 60

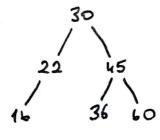
41

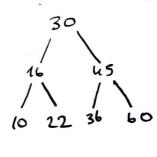
#2

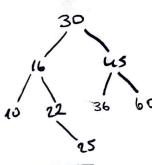
#3

華了

22 60







#5

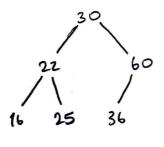
#6

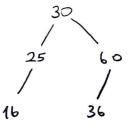
#1

#8

deletting 10, 45, 22

30 22 45 16 25 36 60



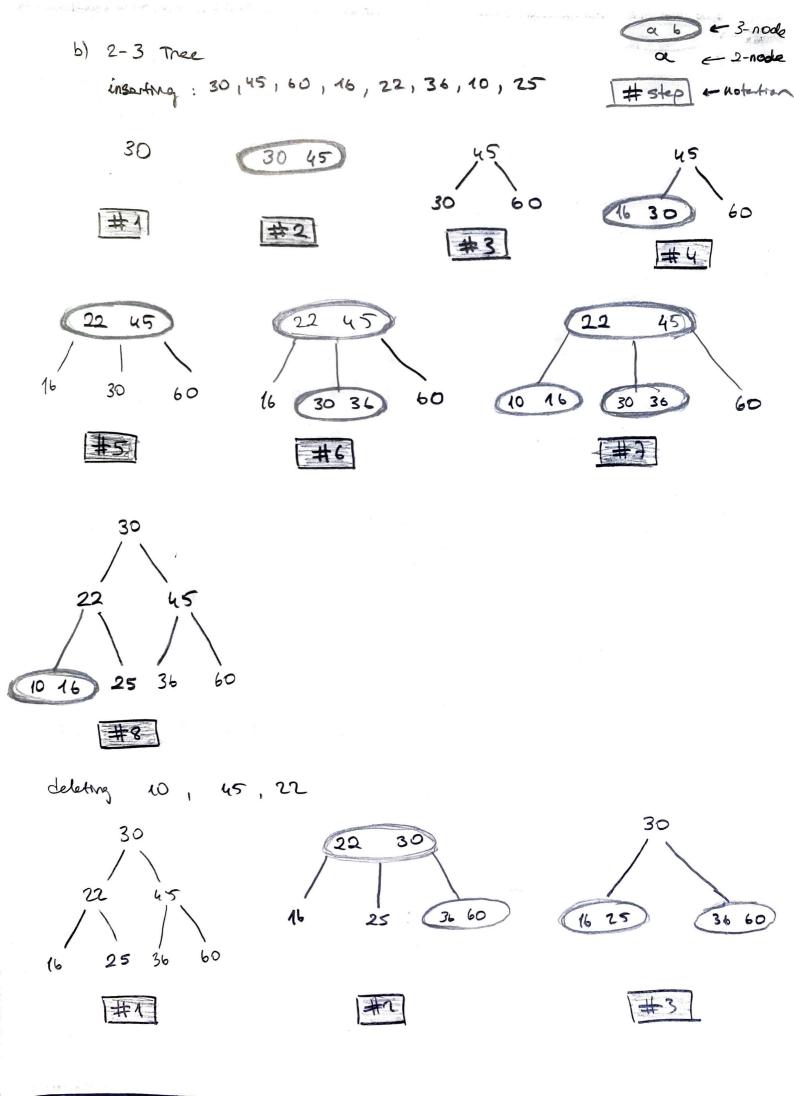


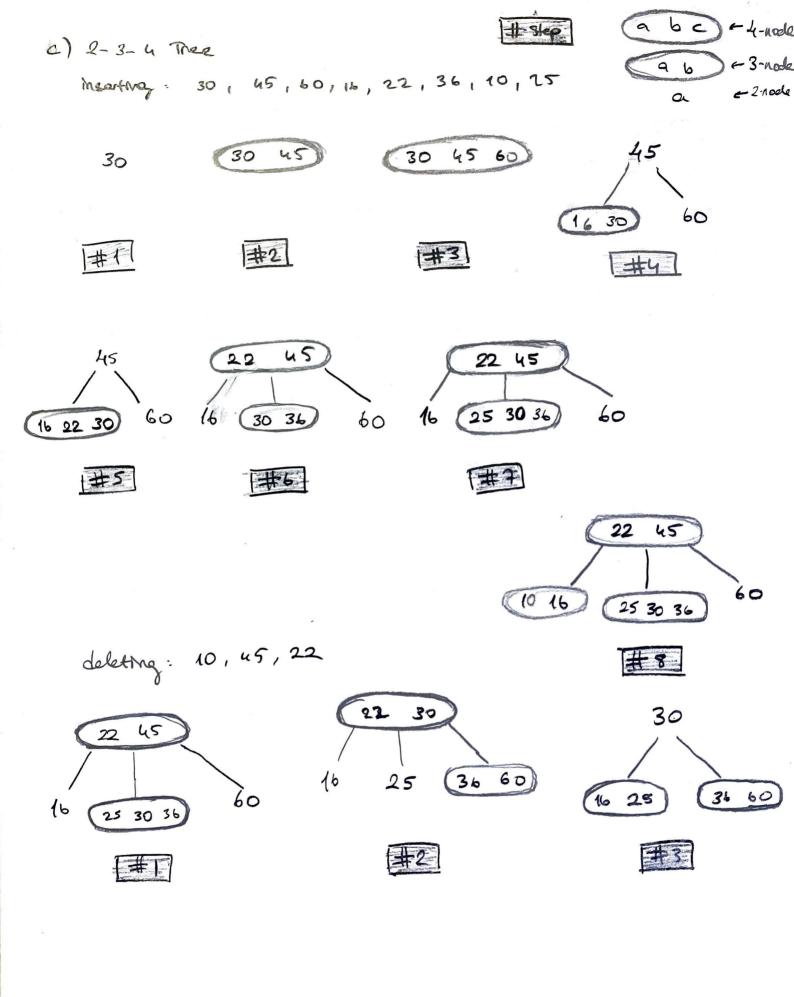
#1

#2

#3

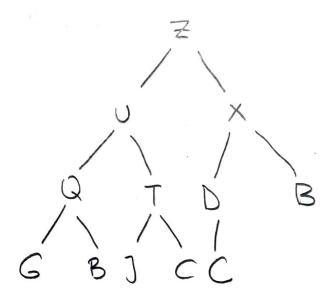
on "3





Question Z

a) leap Insert (); resulting new - heaps



b) heap Relouitd (); resulting max-heap

