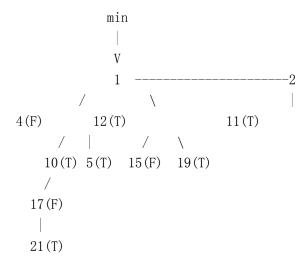
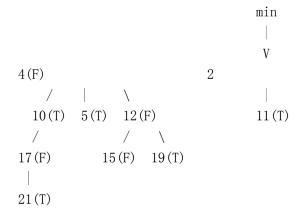
ExamO2\_solution Summer , 2005

question 1.

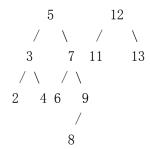
DecreaseKey operation by changing 9 by 2

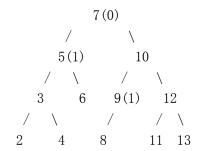


DeleteMin operation.

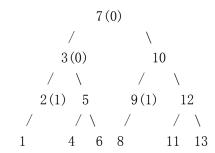


## 2) insert 8 (LR)





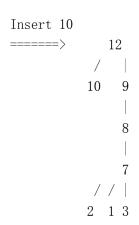
insert 1 (LL)

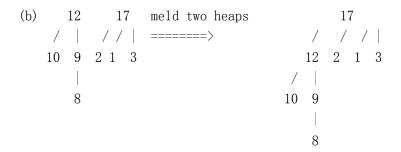


3)

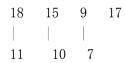
(a) tree with smaller root becomes leftmost subtree.



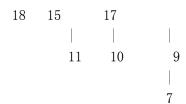




(c) two-pass meld after remove min pass 1: start subtrees left to right.



the number of subtrees was odd, meld remaining original subtree with newly generated subtree.



Pass 2: start with rightmost subtrees of pass 1

(4)

(a)

(b) if red node is deleted, then no rebalancing needed

delete 14

