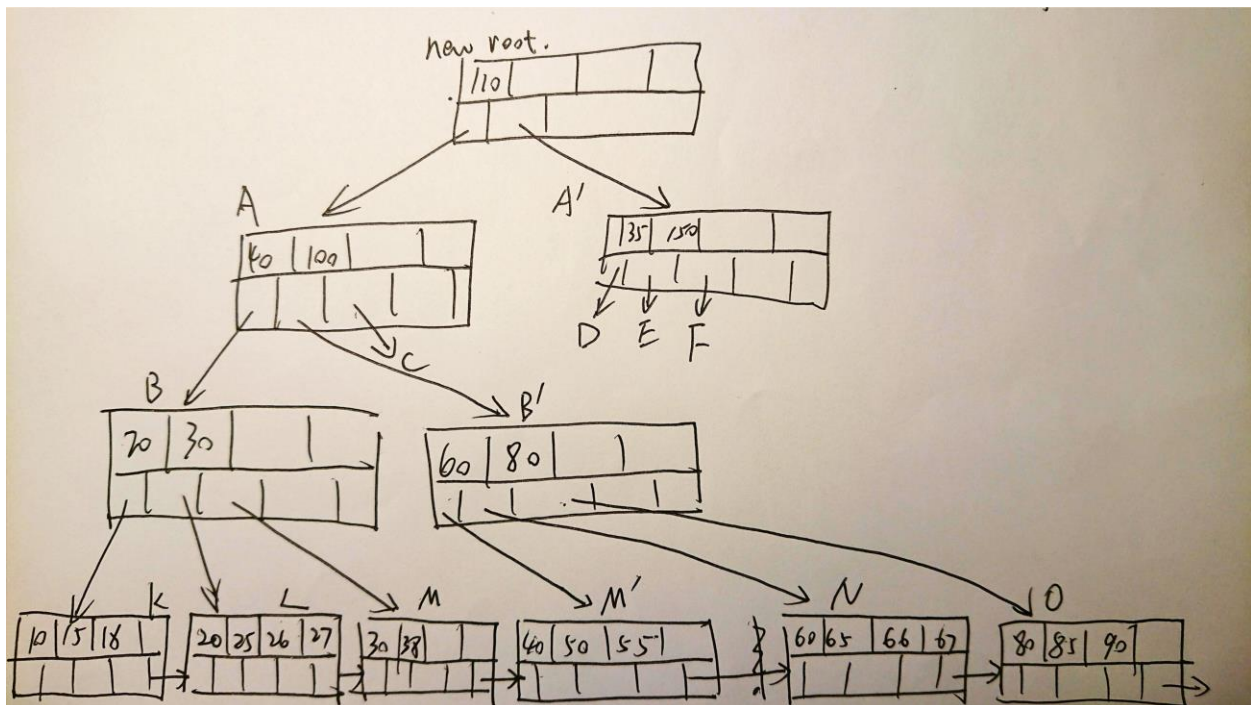
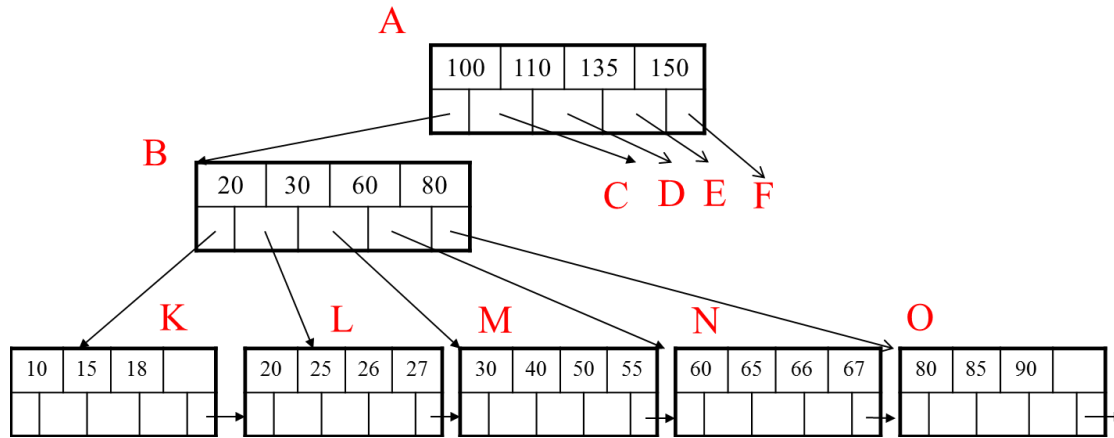


INF 551 – Spring 2018

Quiz 8: B+-tree (10 points), 15 minutes

1. [8 points] Draw the updated B+-tree after inserting **38** into the following tree.



2. [2 points] What is the **cost** of this insertion (i.e., the number of block I/O's)? How many of them are read and how many are write? Assume that none of nodes of the tree is in memory when the insertion starts.

Read A, B, M : 3 block I/O's.

Write New Root, A, A', B, B', M, M' : 7 block I/O's

10 block I/O's in total.