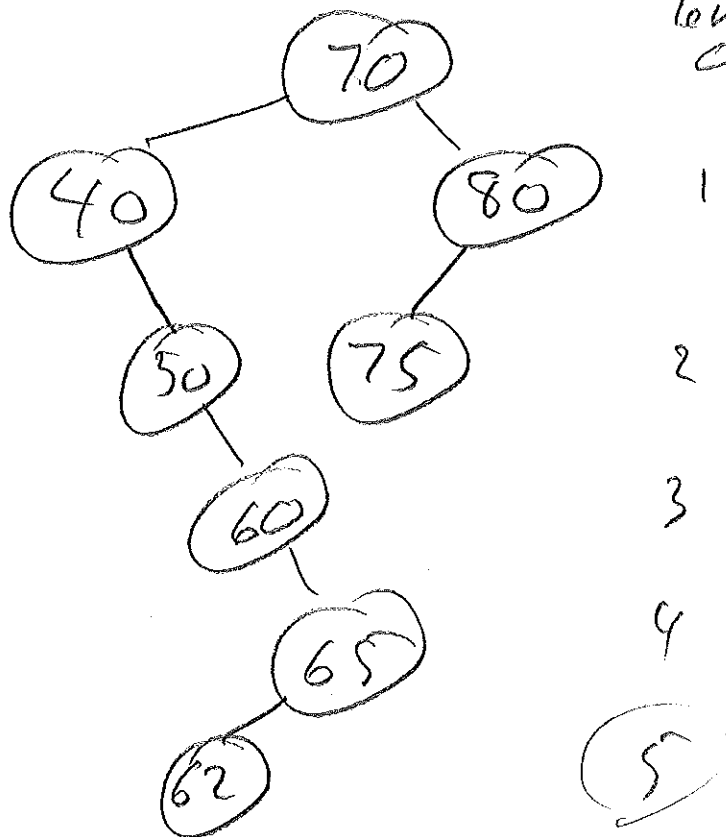


BST

70, 80, 75, 40, 50, 60, 65, 62
level
0



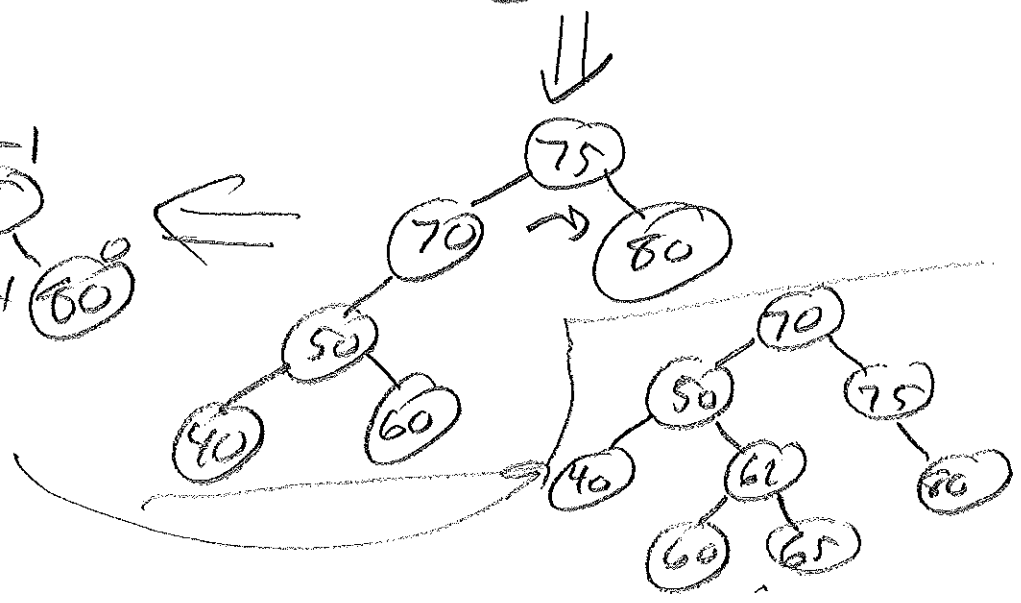
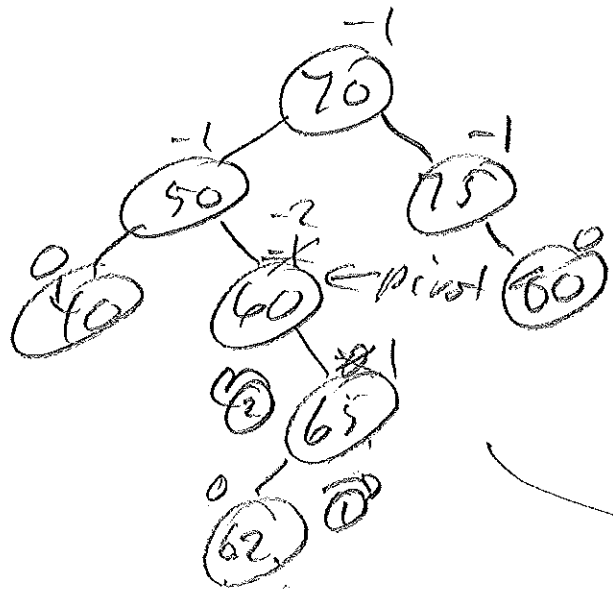
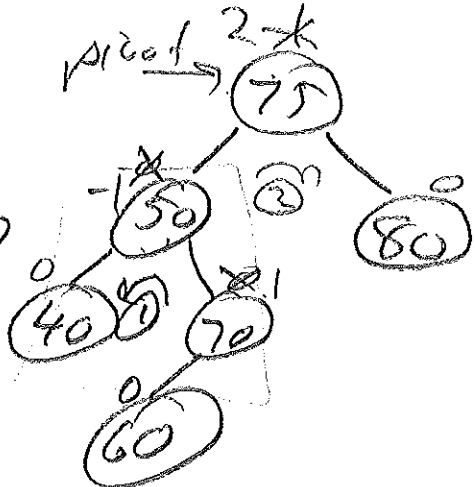
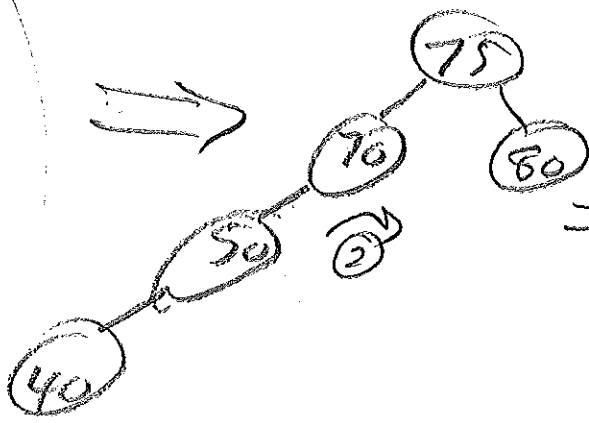
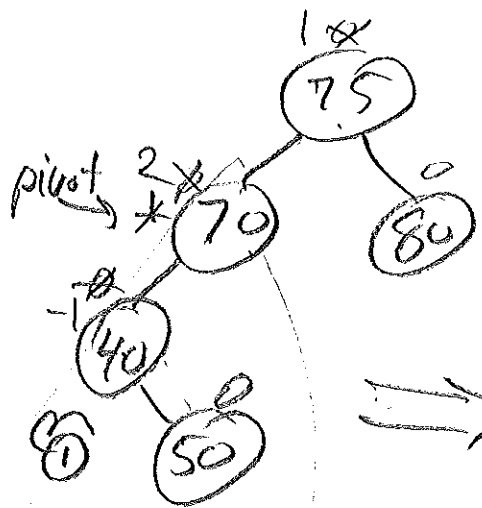
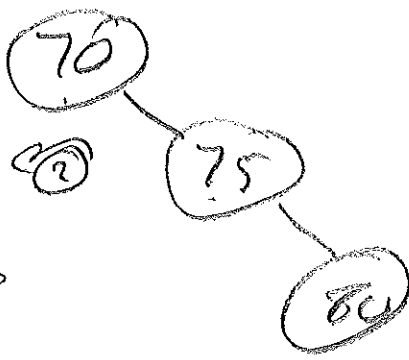
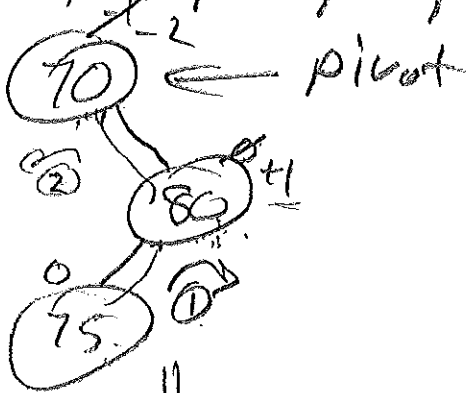
Search worst-case $O(n)$

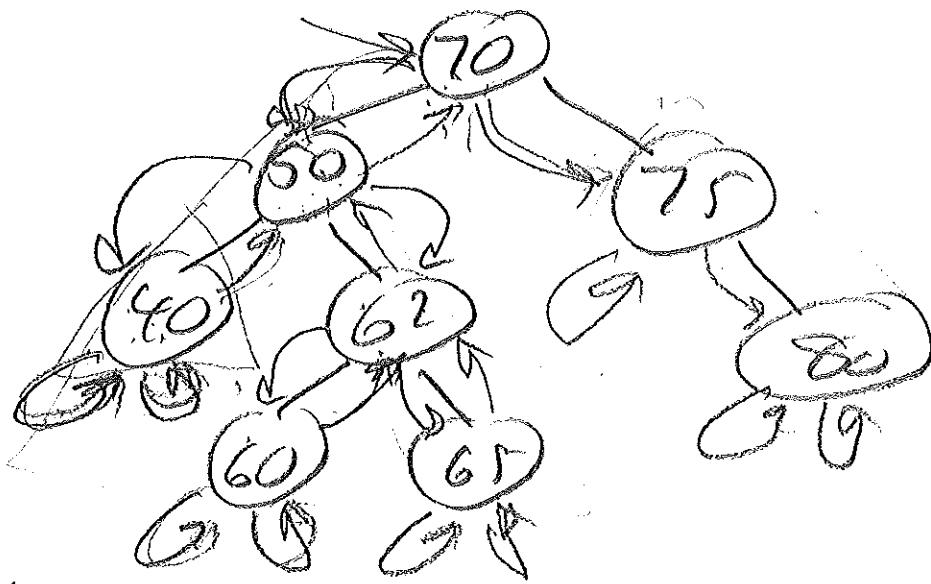
AVL - height - balance $1.44 \log_2 n$

$O(\log_2 n)$

AVL

70, 80, 75, 40, 50, 60, 65, 62

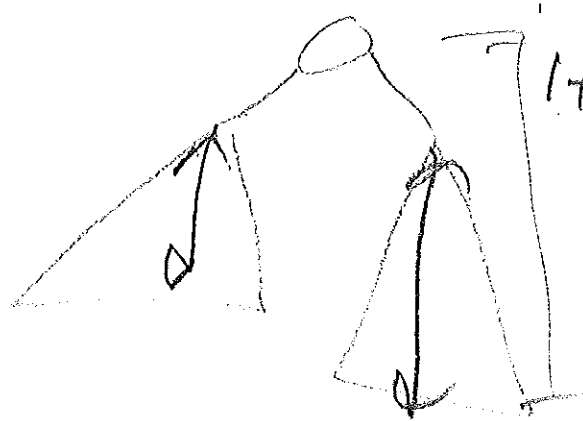




inorder: ascending order

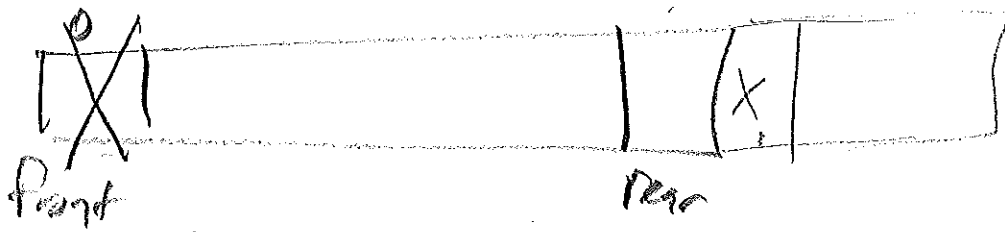
preorder: 70, 50, 40, 62, 60, 65, 75, 80

postorder: 40, 60, 65, 62, 50, 80, 75, 70

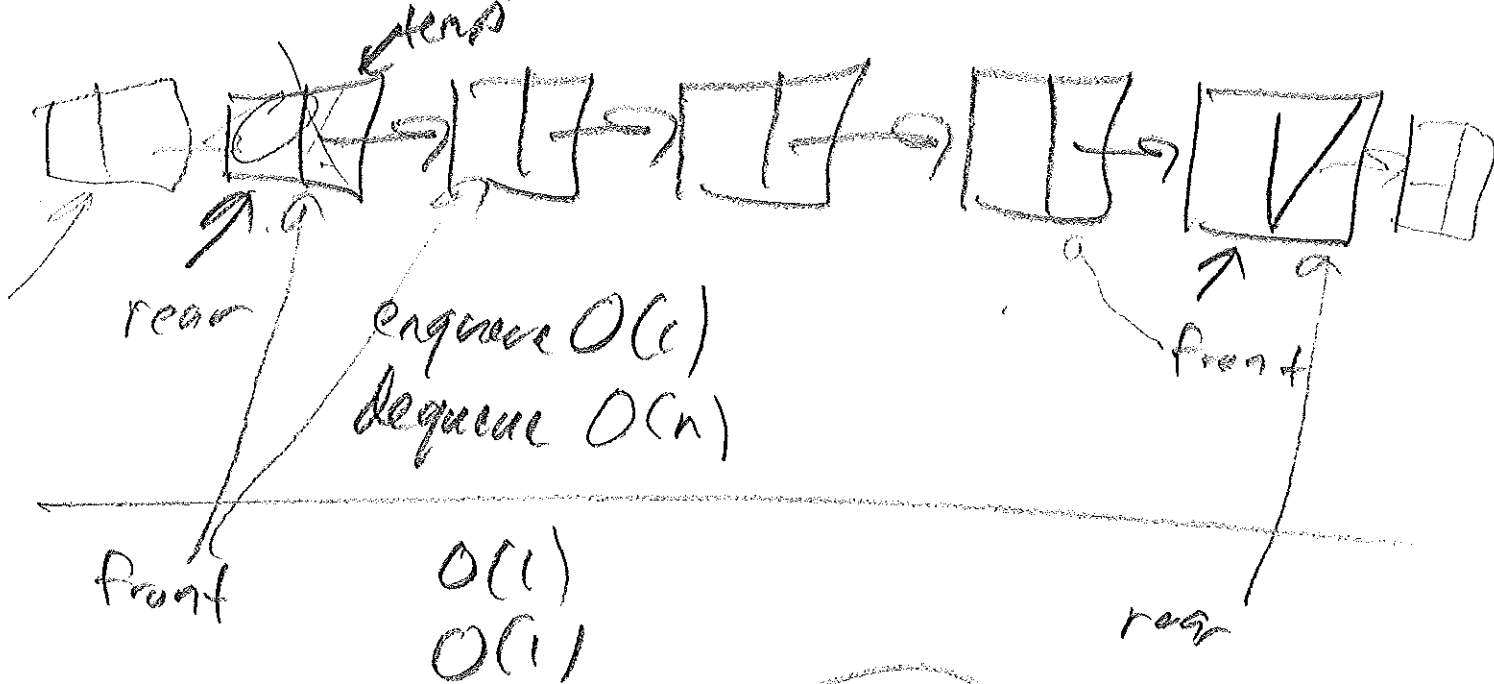


$1 + \max(\text{height(Lt)}, \text{height(Rt)})$

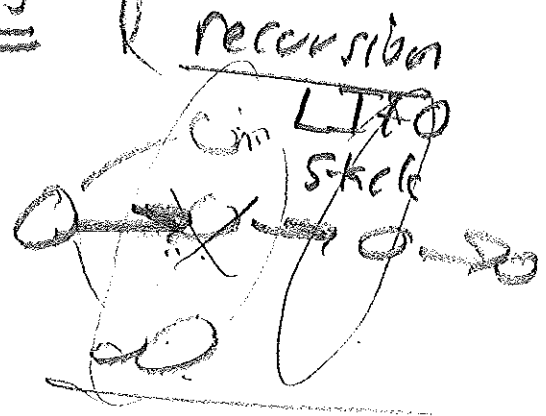
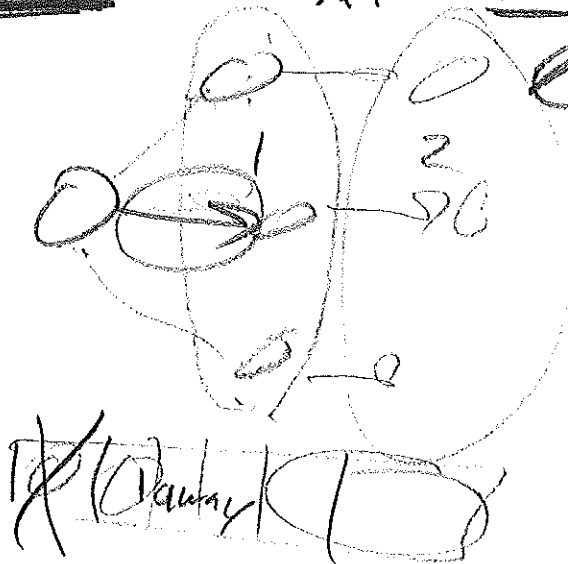
FIFO Queue - "line"



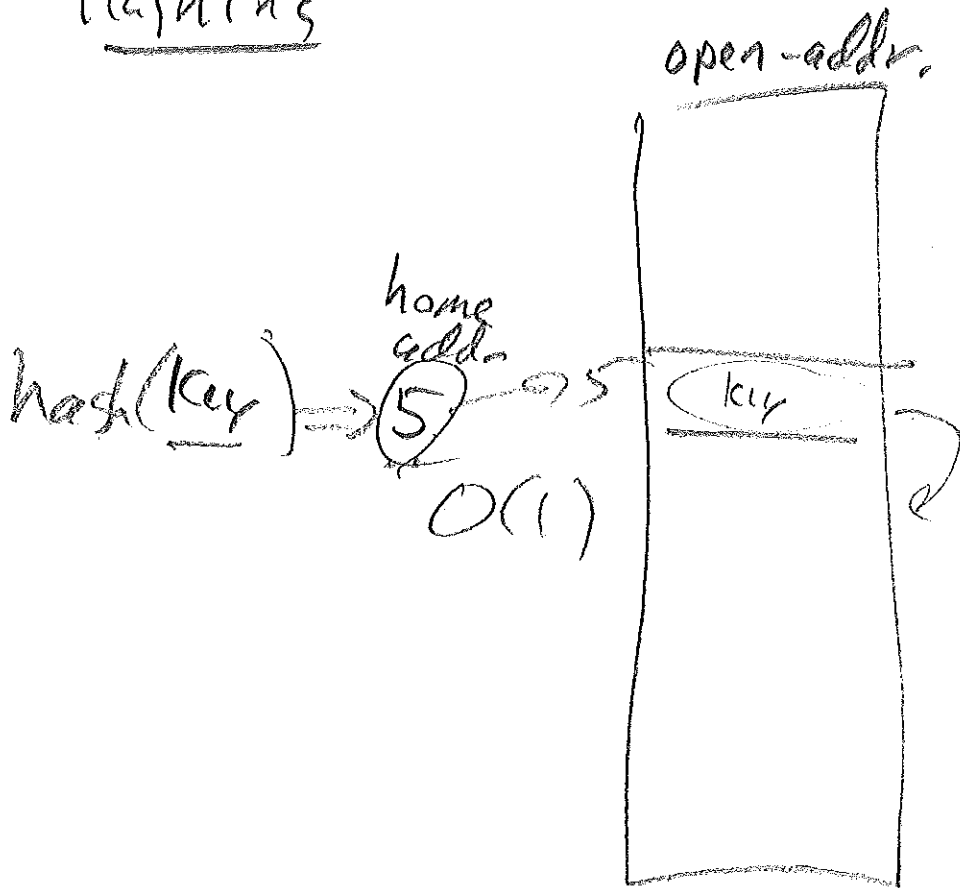
average
 enqueue $O(1)$
 dequeue $O(n)$



Graph traversal → DFS, BFS



Hashing



chainDict

