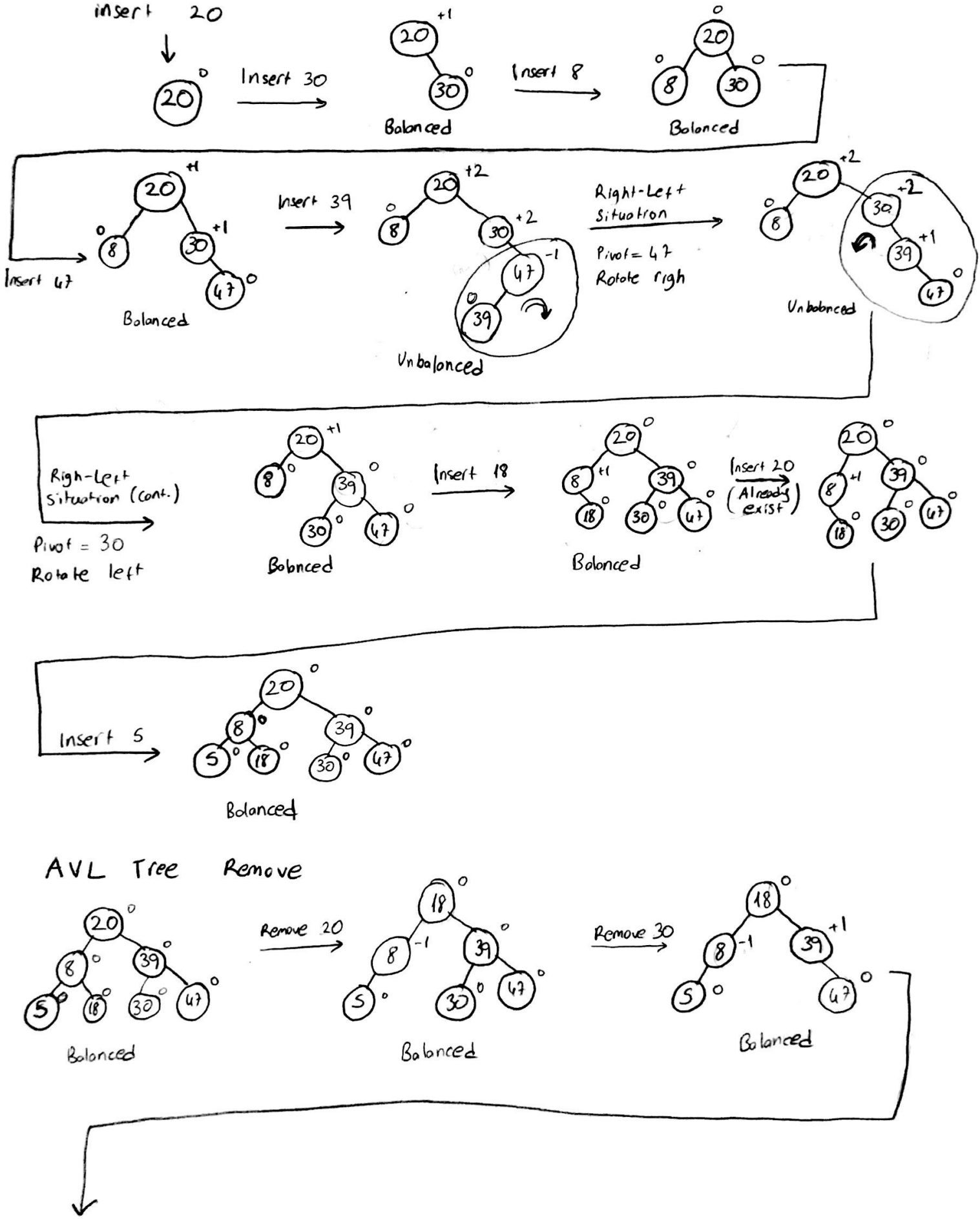
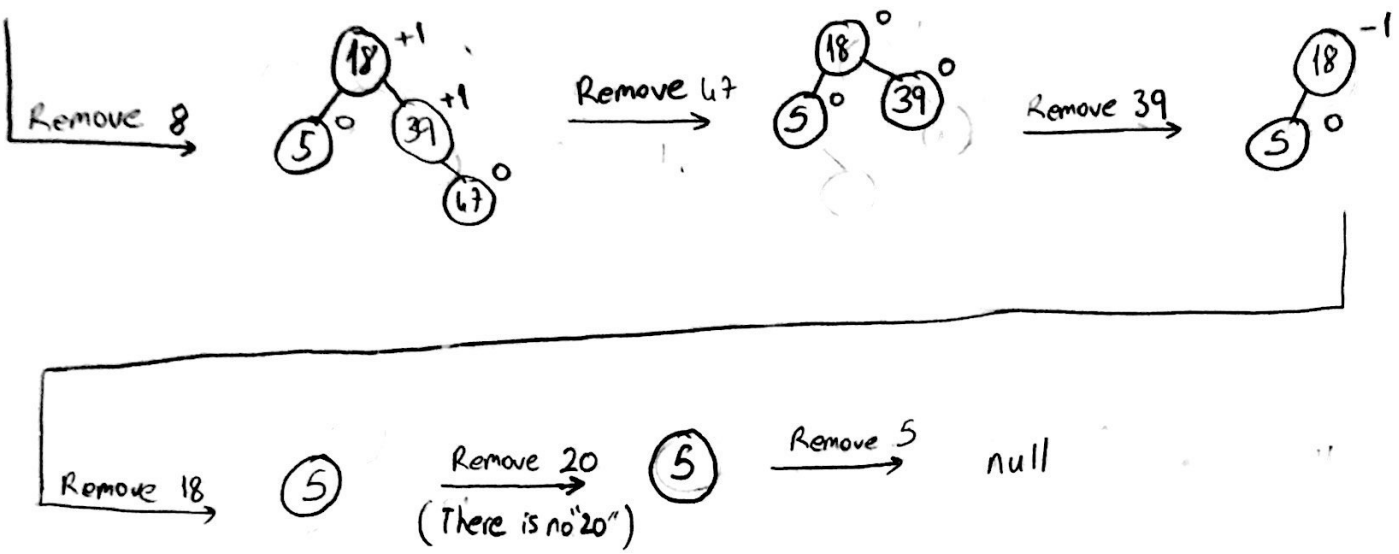
# AVL Tree Insertion



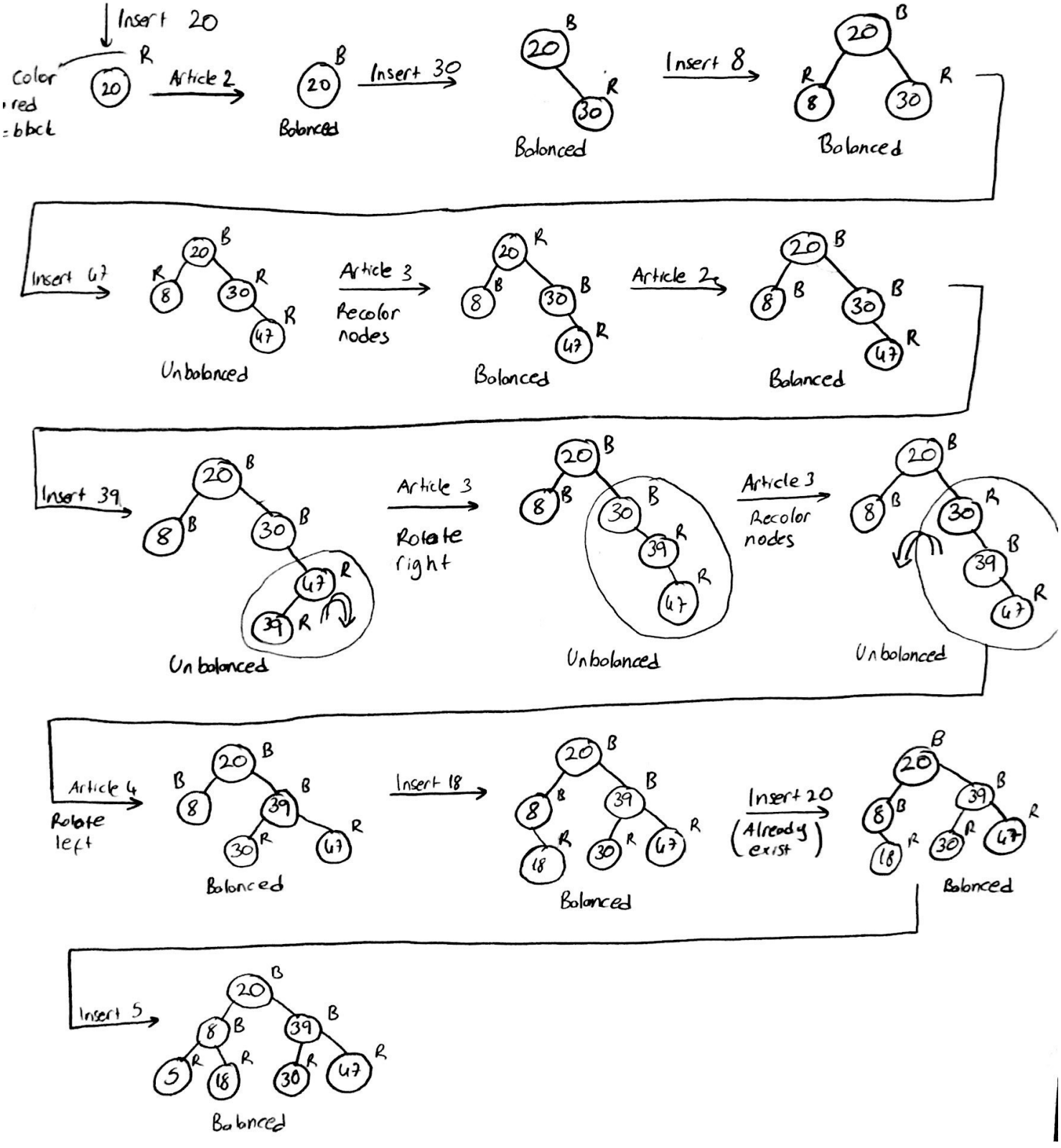

# AVL Tree Remove



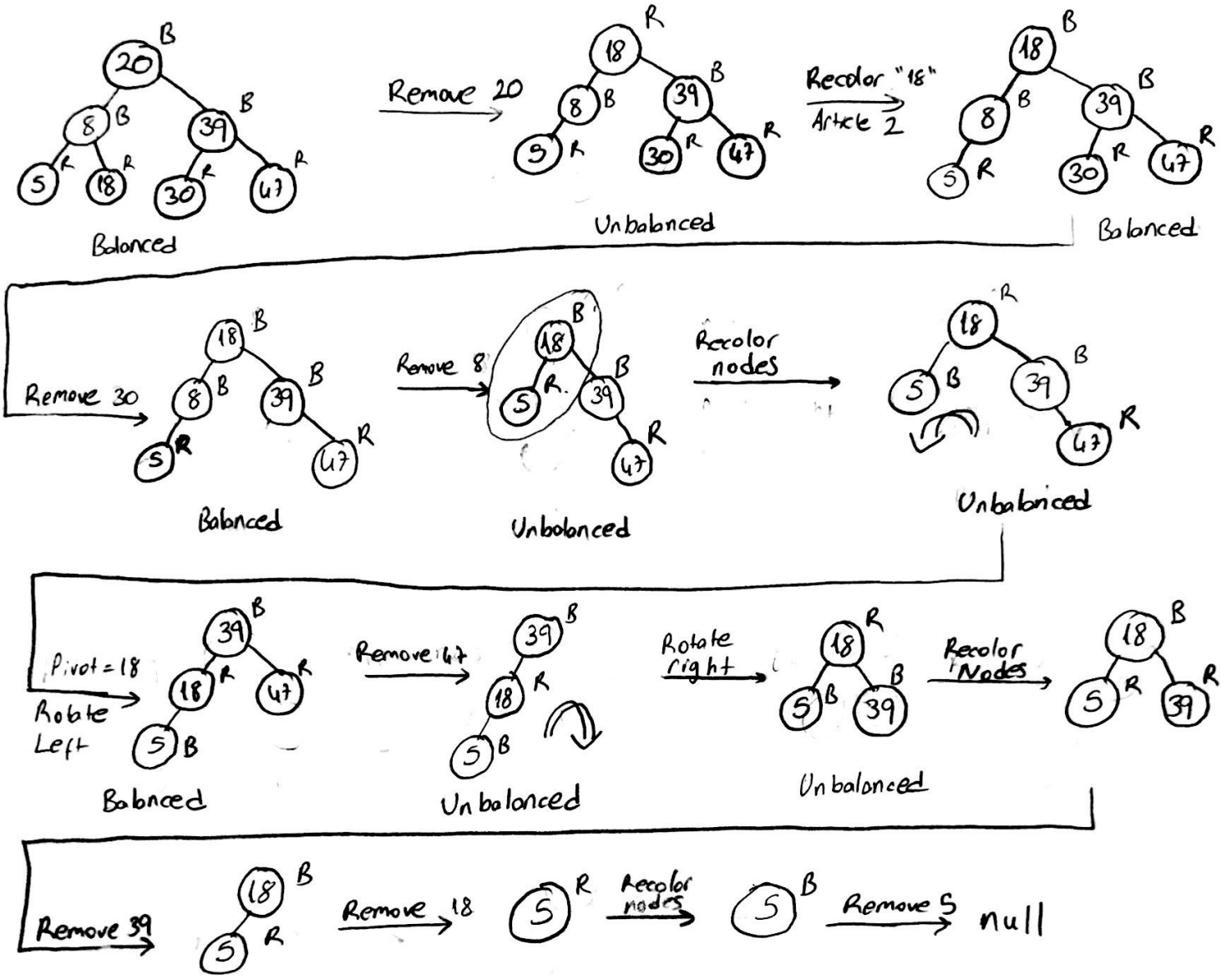
# Red - Black Tree

1- A node is either red or black
2- The root is always black
3- A red node always has black children (a null reference is considered to refer to a black node)
4- The number of black nodes in any path from the root a leaf is the same.

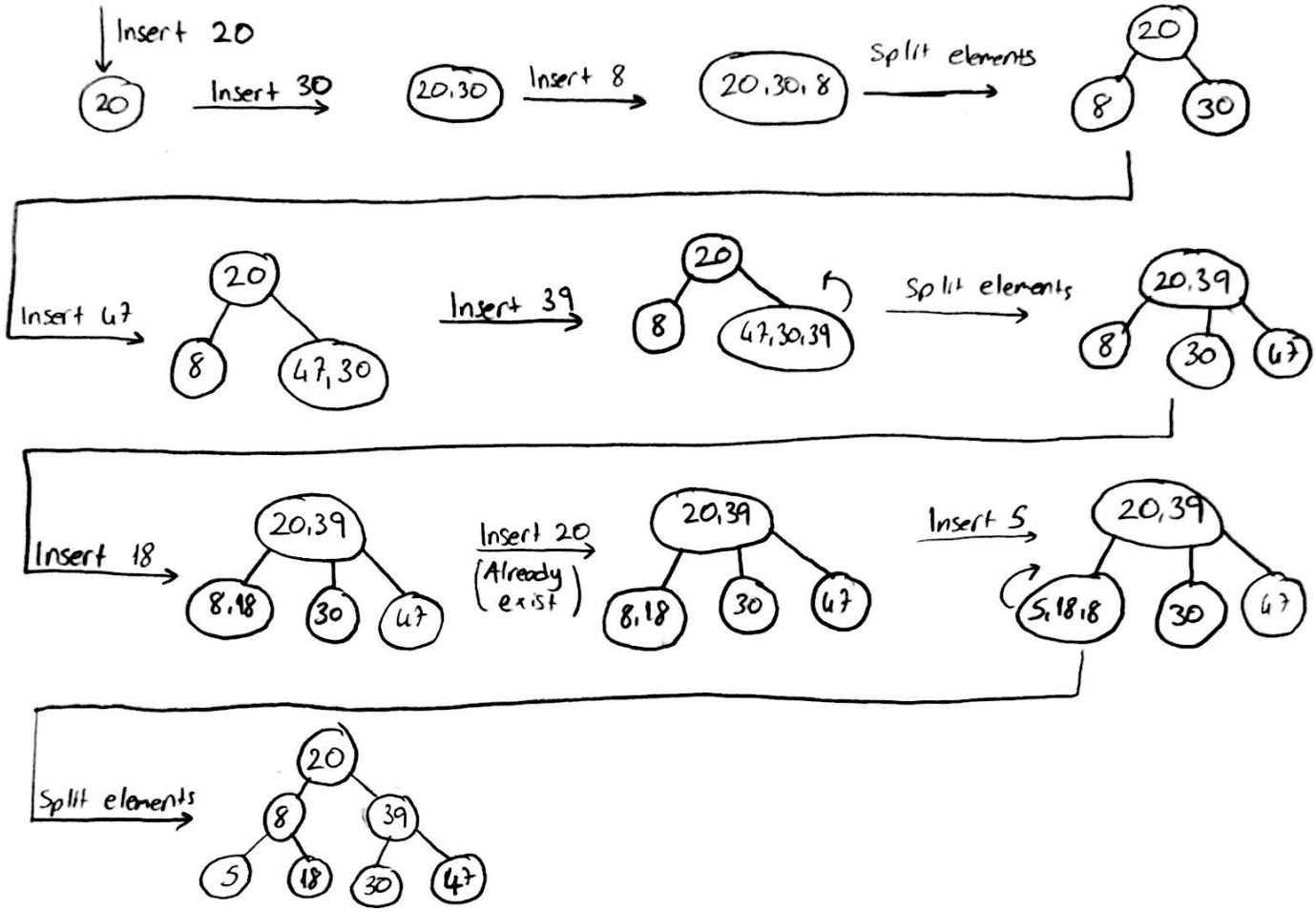
## Red - Black Tree Insertion



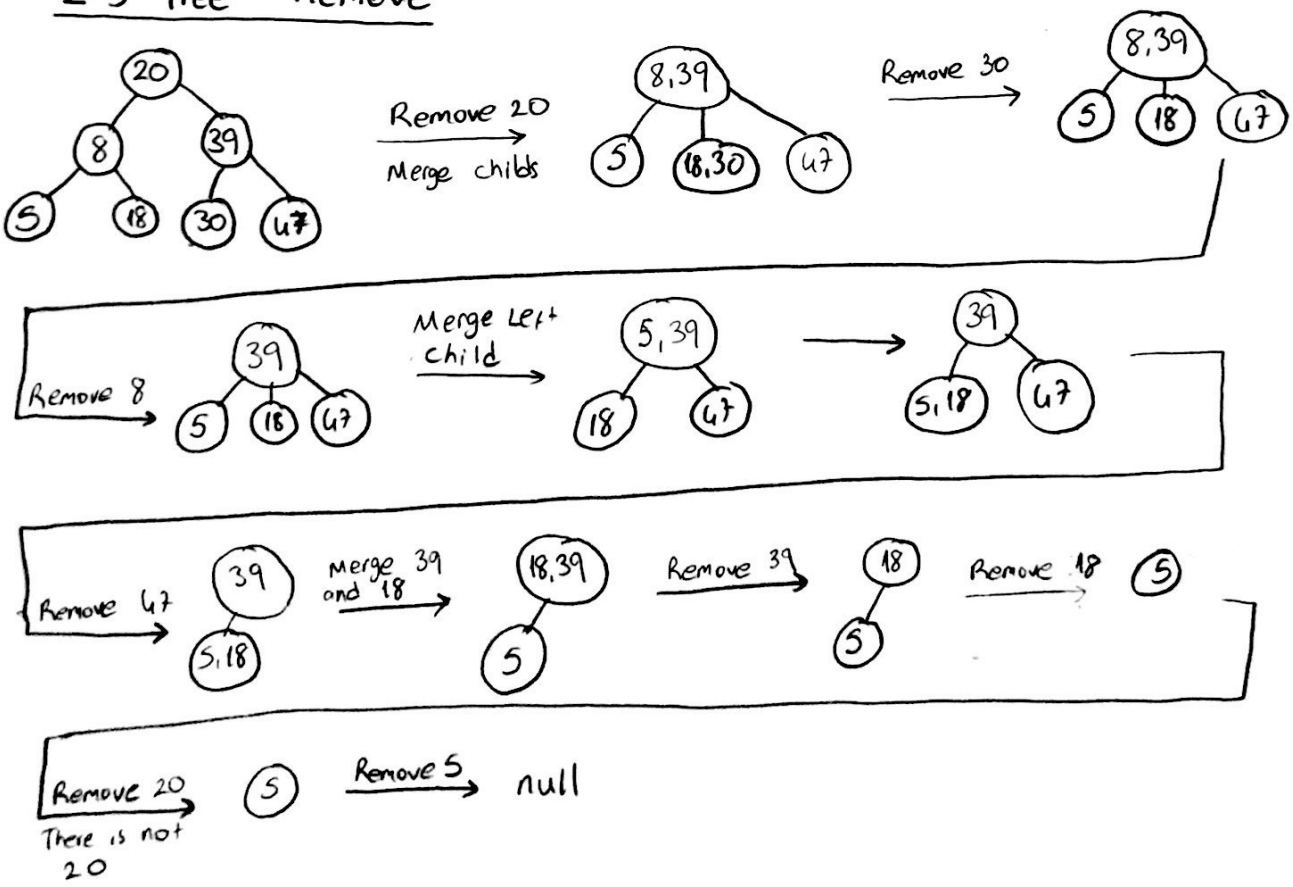
# Red – Black Tree Remove



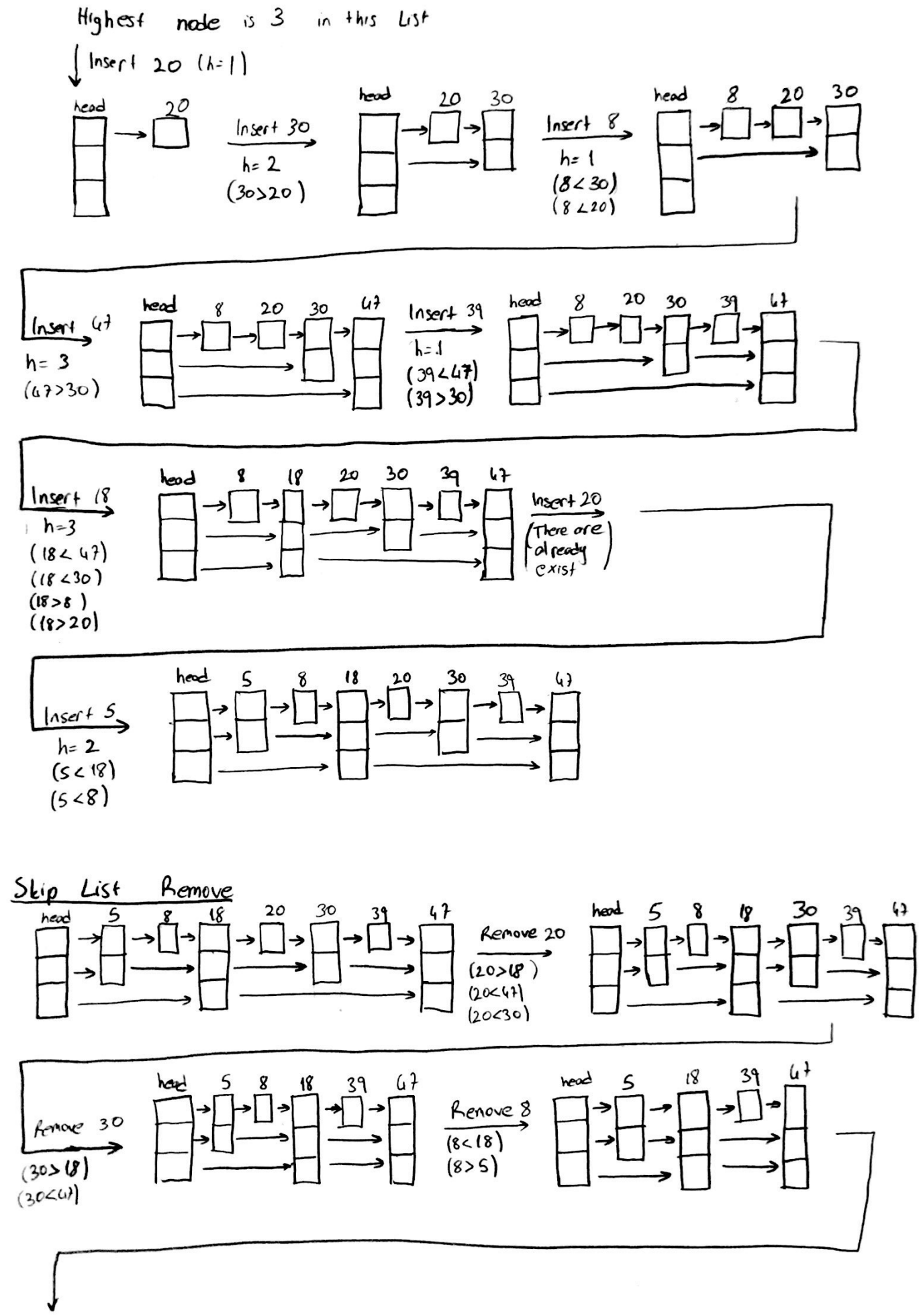
# 2-3 Tree Insertion



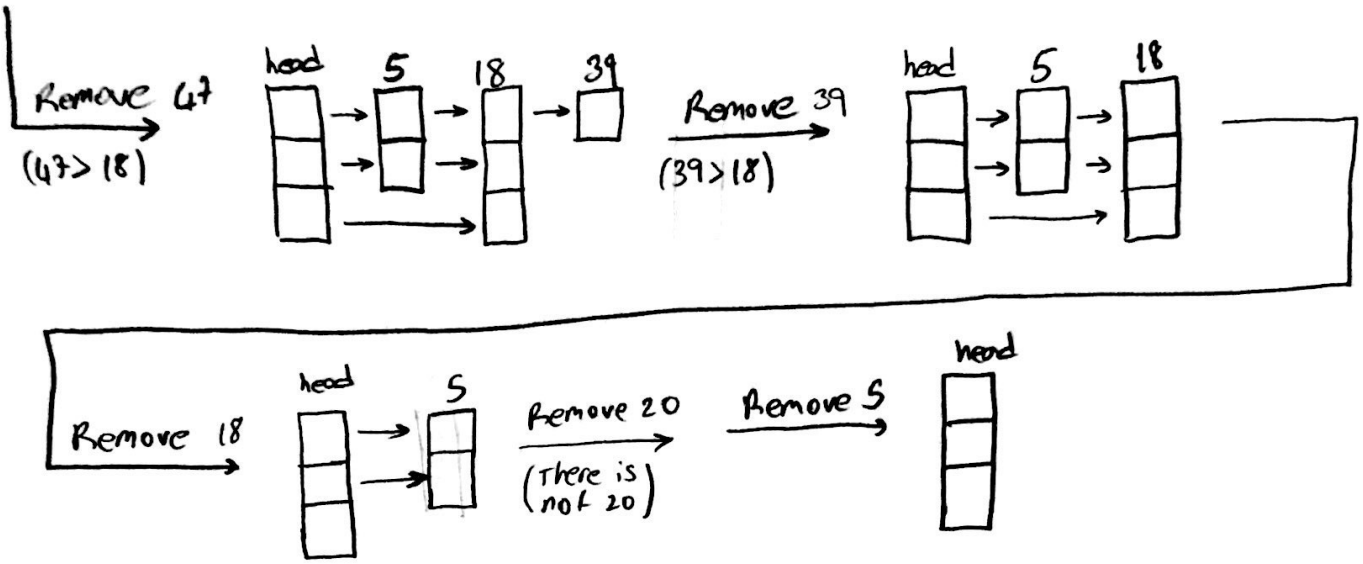

# 2-3 Tree Remove



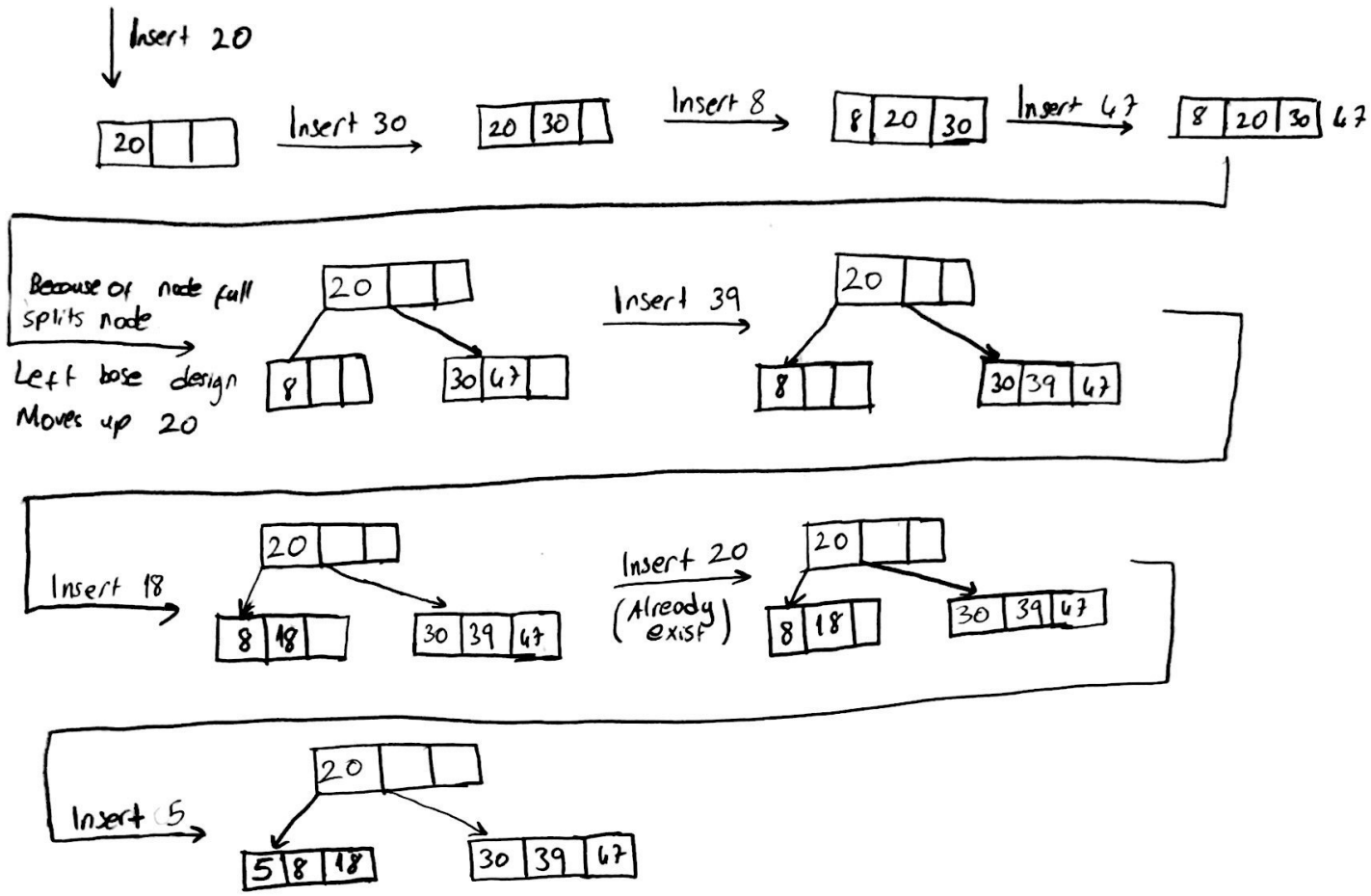
# Skip List Insertion




# Skip List Remove



# B-Tree with Order 4 Insertion




# B-Tree with Order 4 Remove