

1. 10, 20, 5, 6, 12, 30, 7, 19

Insert 10: → insert 20: → insert 5: (can not)

because the leaf is a 3-node.

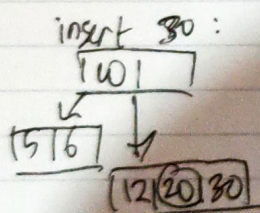
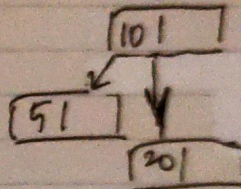
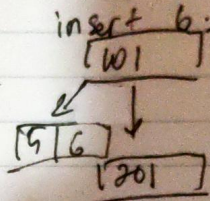
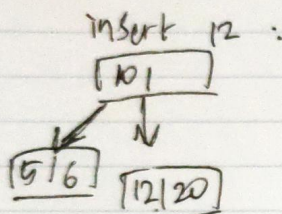
[10]

[10|20]

[5|10|20]



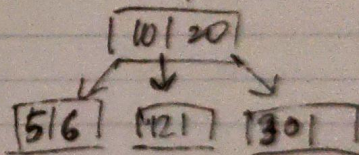
so, splitting the middle val (10)



(can not) because the leaf is a 3 node



so, splitting the middle val (20)

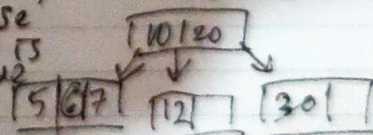
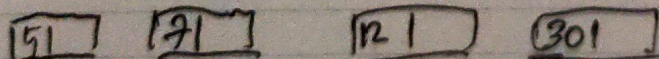


so, Splitting the middle value (6): (can't)

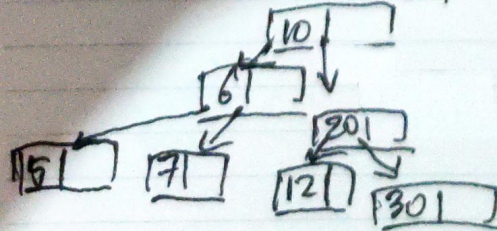
the leaf is a 3-node

(can not) because the leaf is a 3-node

insert 7:



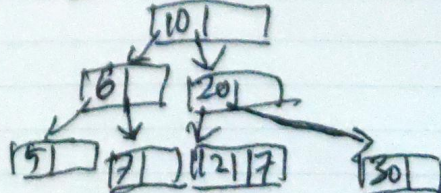
so, Splitting the middle value (10)



~~so, the result is~~



insert 17:



So, the result :

