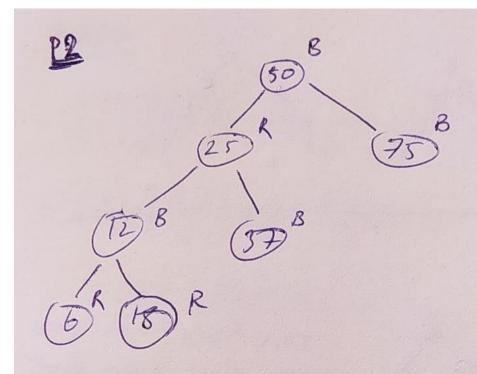
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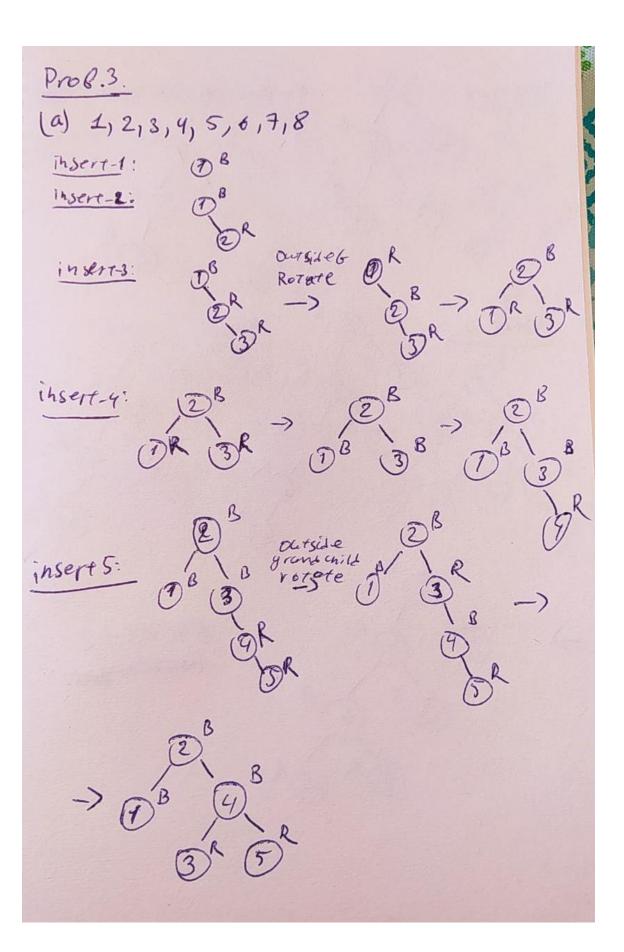
This Red-Black tree but is a valid tree but we can not obtain

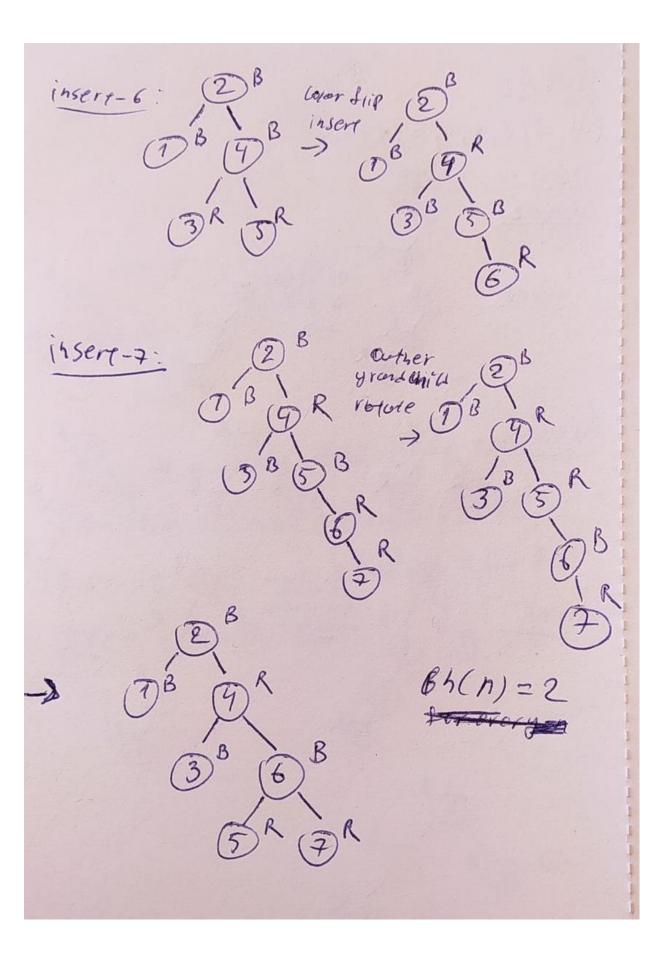
this tree with any in sertion sequence.

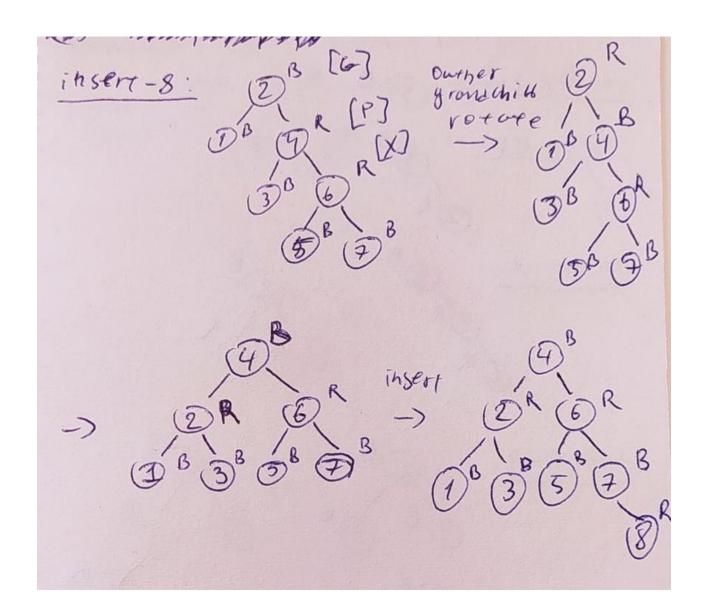
The last inserted mode must be
a red to 2 lead node. But in the
tree above there is not a single red
1 last mode.



this is a Valid Red-Block tree from the lecture (lecture-6, P.25) But it does not suffice the AVL tree requirements.







4. The algorithm that I'm proposing uses only a Binary search. Hence the running time of the algorithm is O(log N) which is o(N)

Algorithm Problem ( atr): input: Gorted array of distinct integers output: is there engineers an that arrinJin 1 60 R & arr. length While L < R: midz (LtR)/2 if an[nil] = 2 nil then refurn true if arremil] < mid then L& mid + 1 e15e R& mid -1 return false