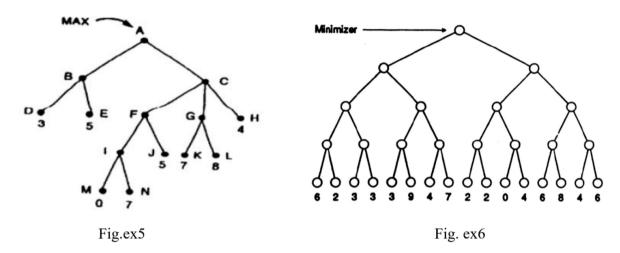
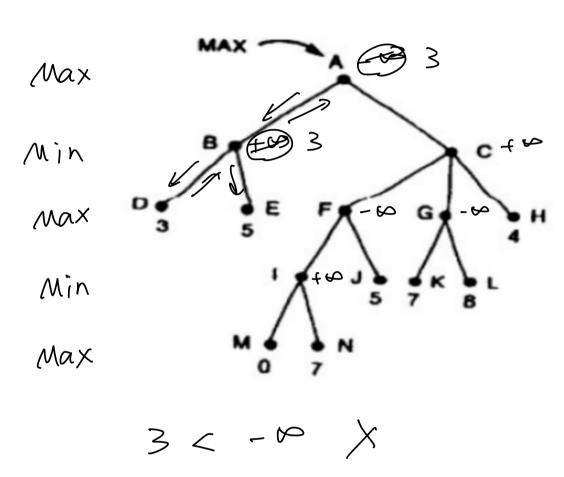
3.5.4.8 Exercise 5

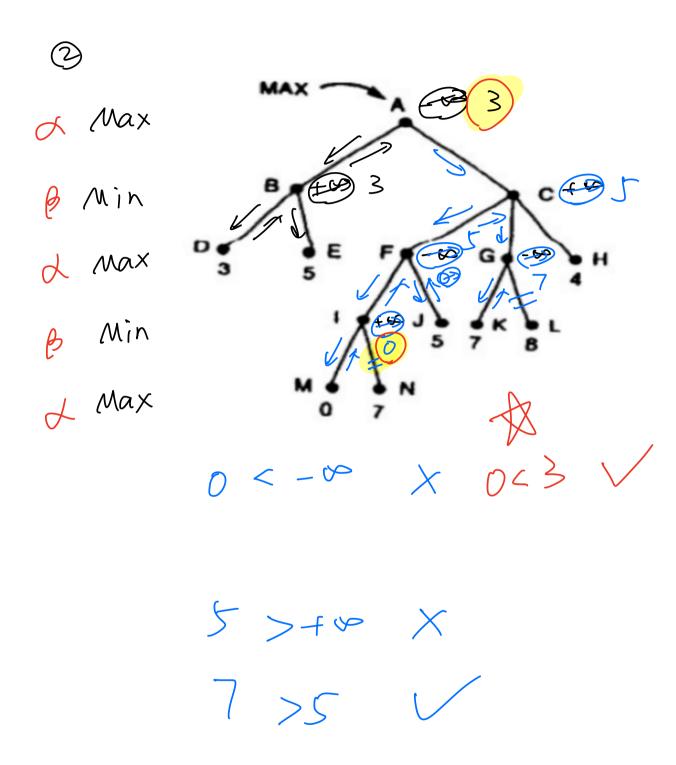
Exercise 5 and 6

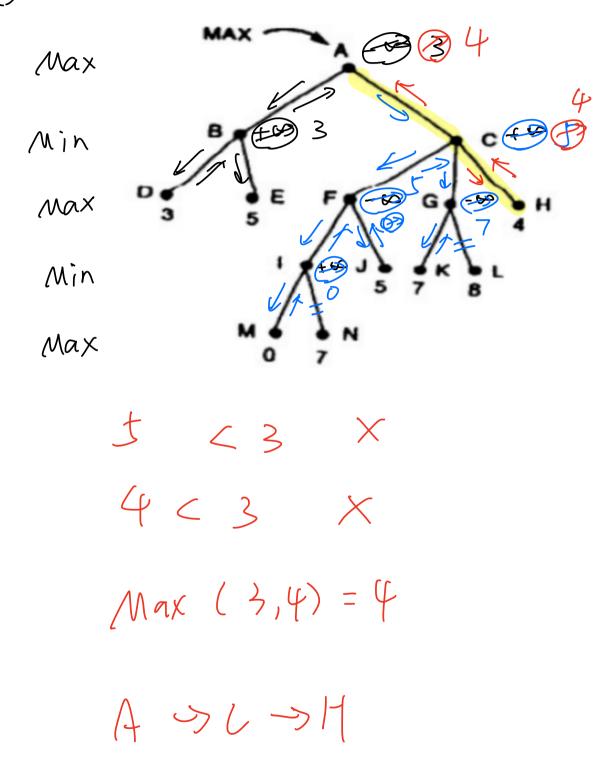
- 5. Perform (i) a **left to right** alpha-beta prune on the tree of Fig.ex5; (ii) **right to left** alpha-beta prune on the same tree. Discuss why different pruning occurs.
- Consider the game tree in Fig. ex6. Explore the tree using left to right alpha-beta pruning. Indicate all nodes of the tree that are cut off. Indicate the winning path or paths.



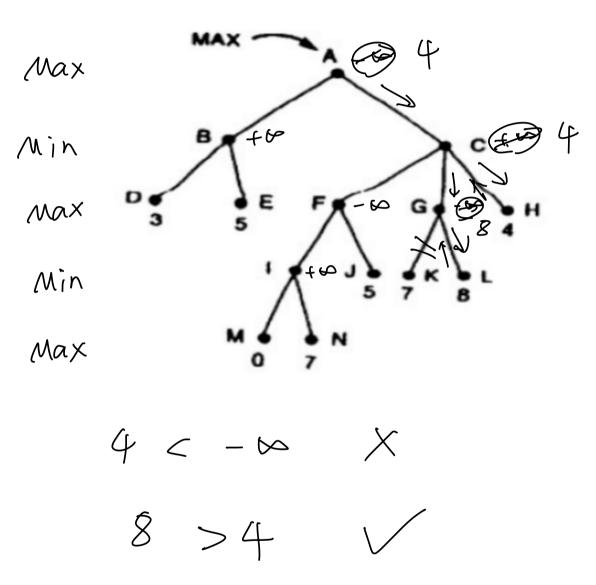
Solution (i) left -> réglet pinitiate



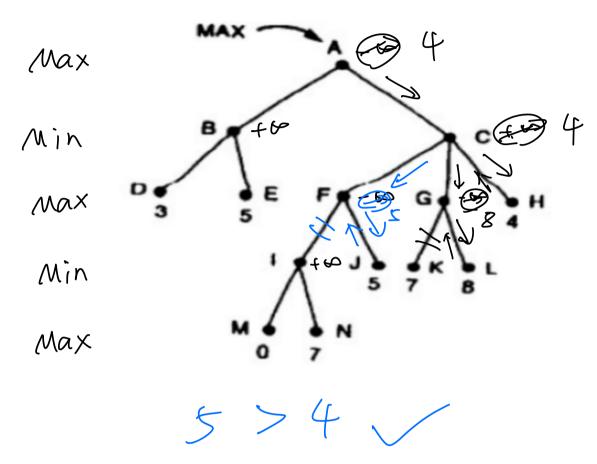


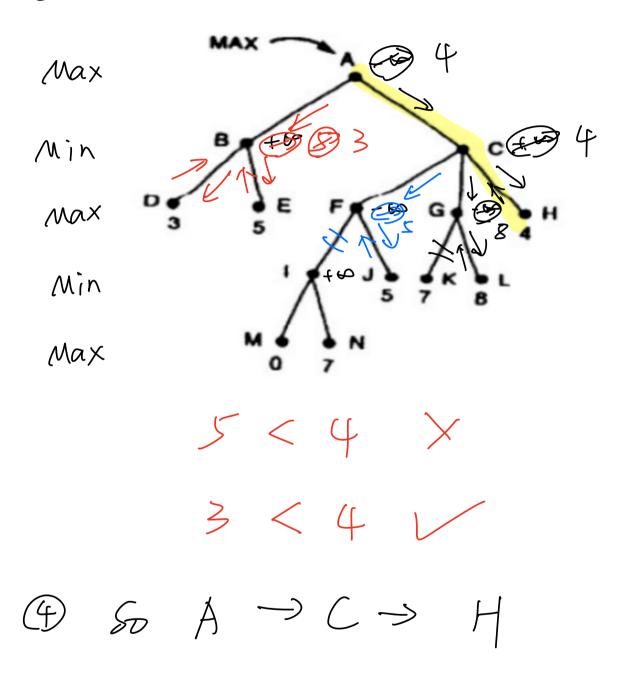


Solution (ii) right to left Dinitiate

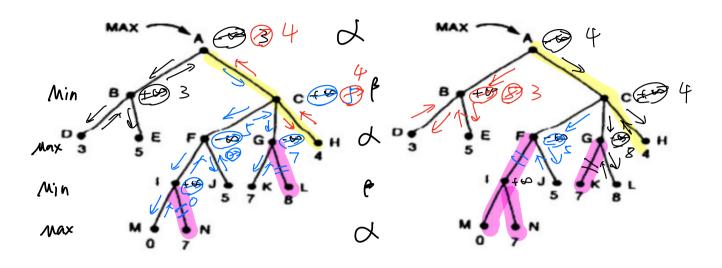








Solution: Why the pruning differs?



- OAlpha Beta catoff depends heavily on the order in which children are visited.
- 2) In the left-to-right, we happened to soe the subtree gave us x = 3 -first, so we never shut down the search in q
 - 3 In the right to-left, we discovered an 8 immediately in G while 8 was only 4 So we gruned.
 - @ The final value at the root is

the same 4, but the amount and location of pruning differs because the same tree is traversed in the opposite or der