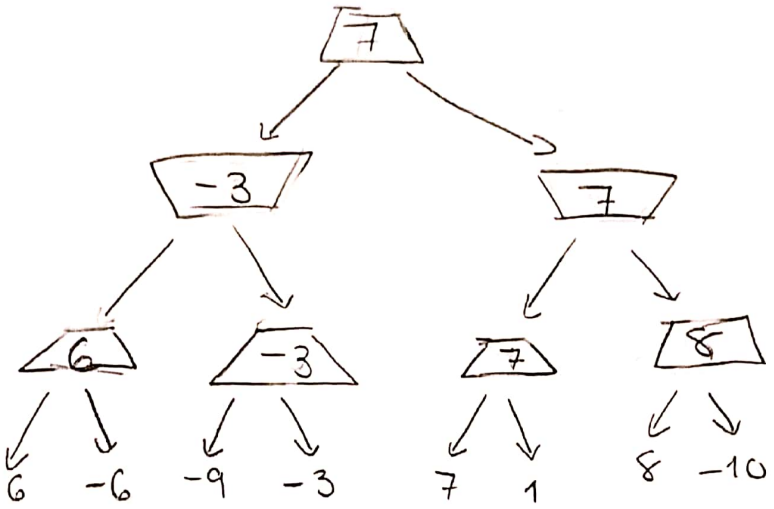
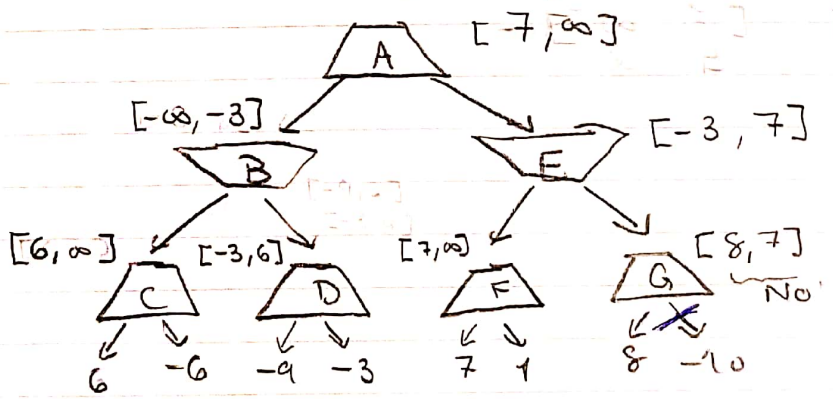
AlphaBeta A



1) maximize
2) α/β pruning
3) optimize the exploration (optimize where the values are to prune more values.

1) Above you can see the values for each of the nodes with the MINIMAX algorithm. In layer 3 we see that each of the nodes want to maximize the output, and the highest outputs are therefore chosen. On the layer 2 the lowest values of them are chosen, and on the first layer the highest value of those are chosen. So 7 is the highest value.

2)



Using α/β I also found the best value to be 7. The only one I could prune away was the -10.

3) The best solution should come first, and the highest values should be in the left of the leaf node. I won't draw arrows because it looks really bad, but I'll draw it so that it will be searched from the left first.