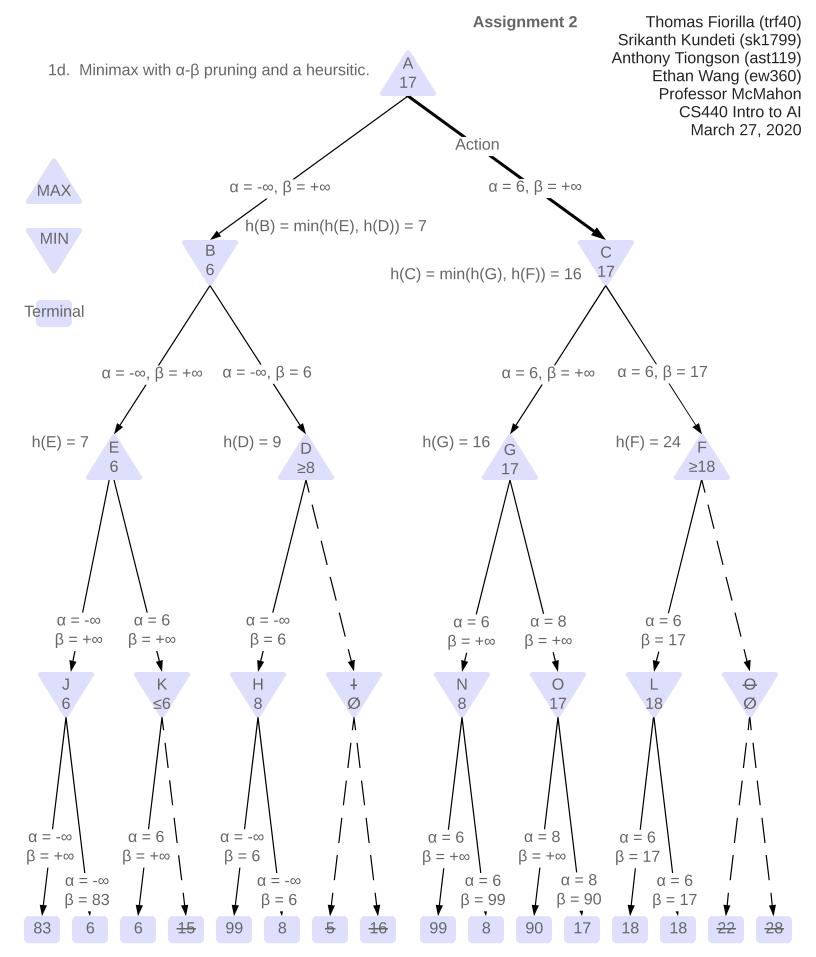
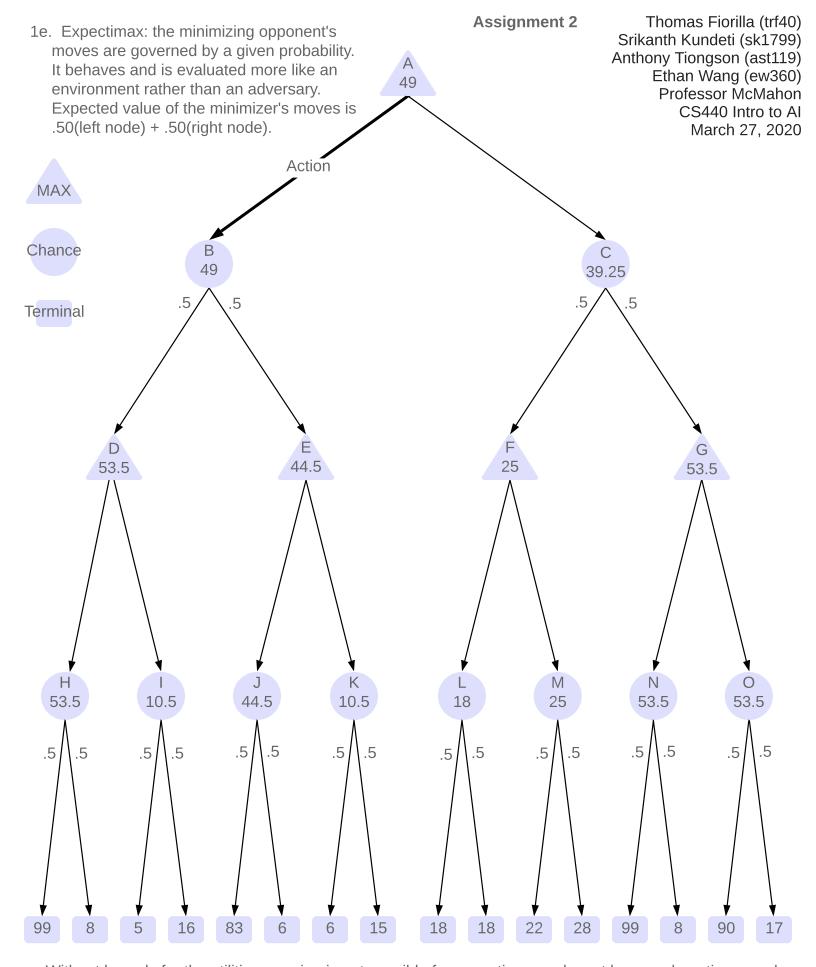


2 nodes pruned.

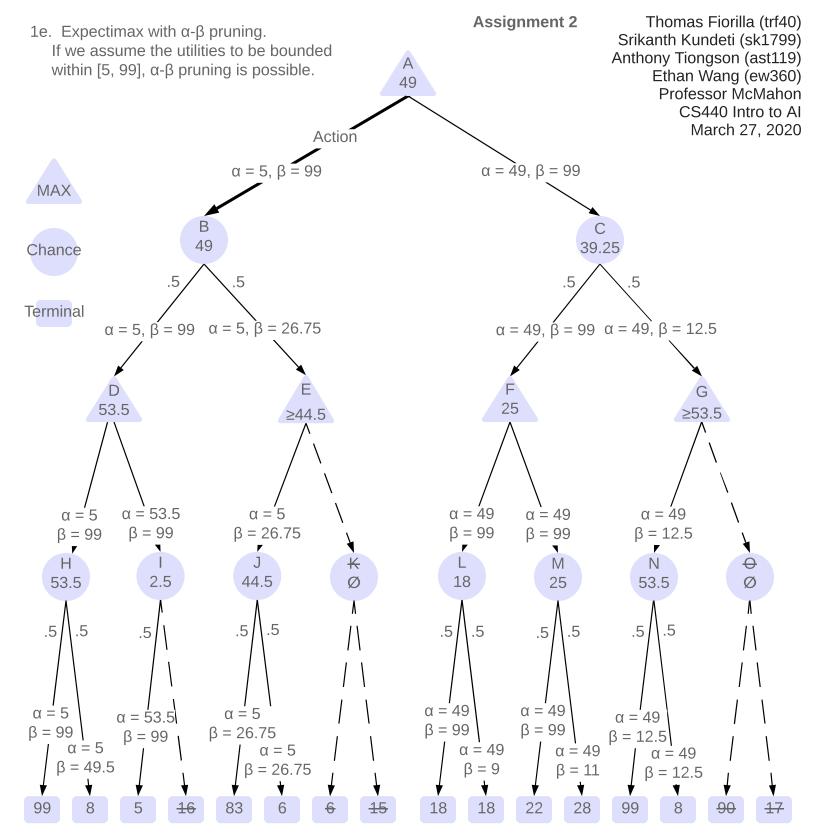
1c. The MAX player at the root state will make the **right** action in the exaustive minimax algorithm. The MAX player will take the same **right** action when evaluating with  $\alpha$ - $\beta$  pruning. In general, the best move computed by both methods is guaranteed to be the same, which is why  $\alpha$ - $\beta$  pruning is so useful.



7 nodes pruned.



Without bounds for the utilities, pruning is not possible for expectimax and must be an exhaustive search. In this scenario, any unseen leaf node may possibly be the best or worst value for the tree. Expectimax is an algorithm that is not entirely safe since it has the chance of losing, and ignoring any nodes may greatly decrease its safetyness and effectiveness.



Talk about how to prune here.