

Figure 1: The adversarial search tree.

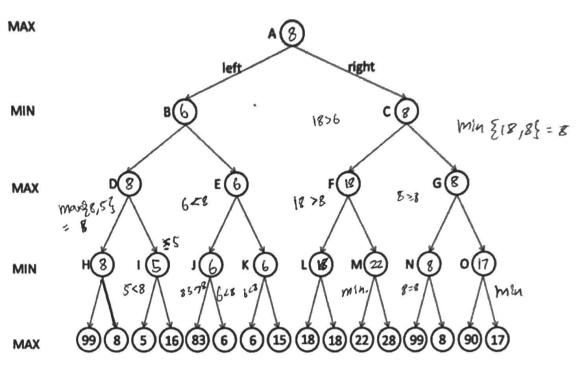
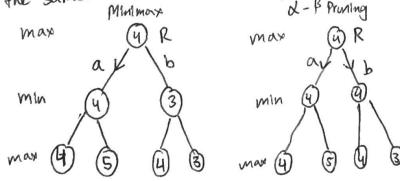


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Choose "right action". The max player at the root state, for the minimax algorithm. will appear action. The max player at the root state, for minimax with alpha-beta proning, will choose the 'right' action as well.

The best move computed by the two versions is not guaranteed to be the same. Consider the following example:

Minimax X-B Printing



This would be the only scenario in which a different possibility of outcomes is seen. Since d-B pruning relies on the following function inorder to decrease its runtime:

R= max { min 2 a, az}, f}, where
$$f = \begin{cases} b: \text{ for the first i where } b: \leq \min_{2a_{1}, q_{2}} \\ \text{otherwise } \min_{2a_{1}, bz} \end{cases}$$
we may choose by the 7 n 2 a, az} = b, > bz. The minimax chooses bz, d-B chooses bi.