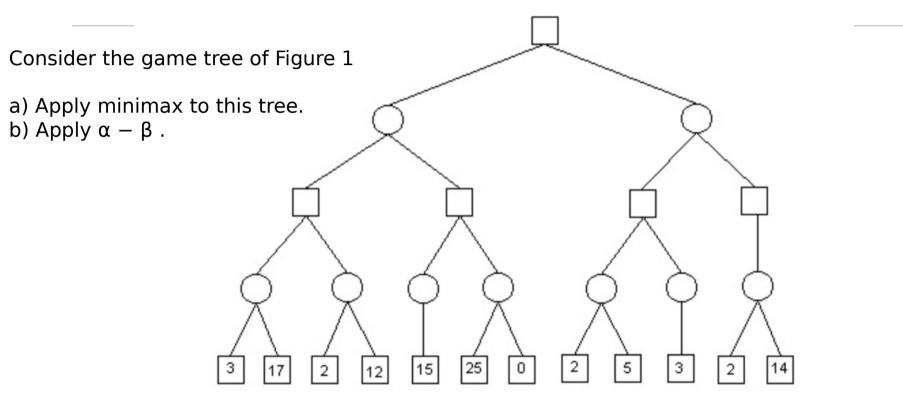
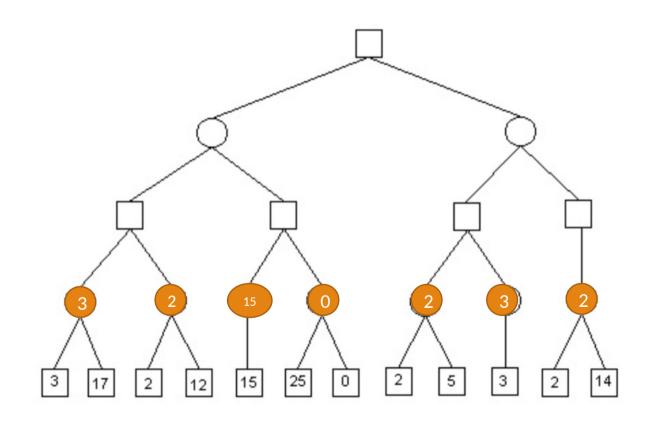
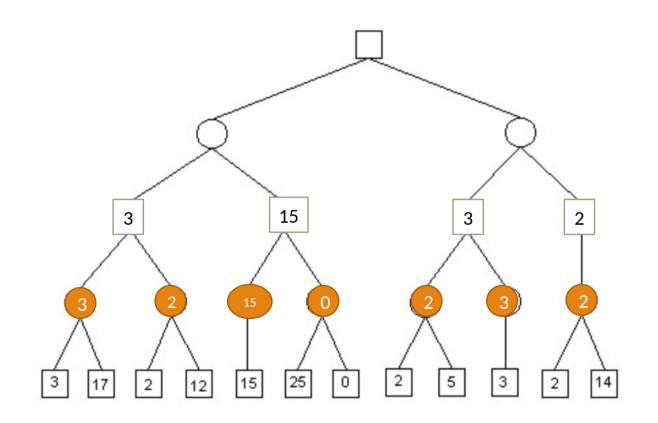
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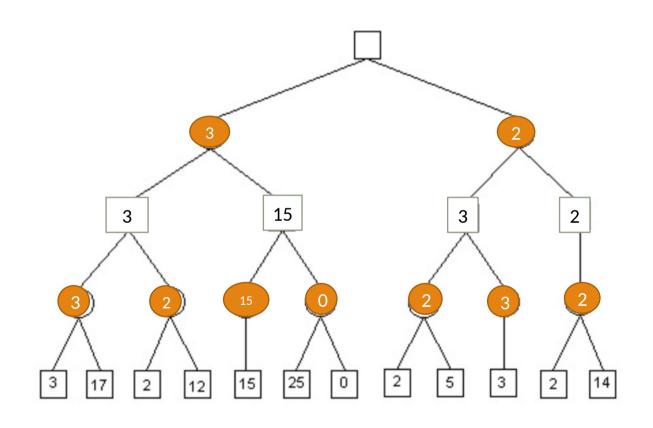
Tutorial#6

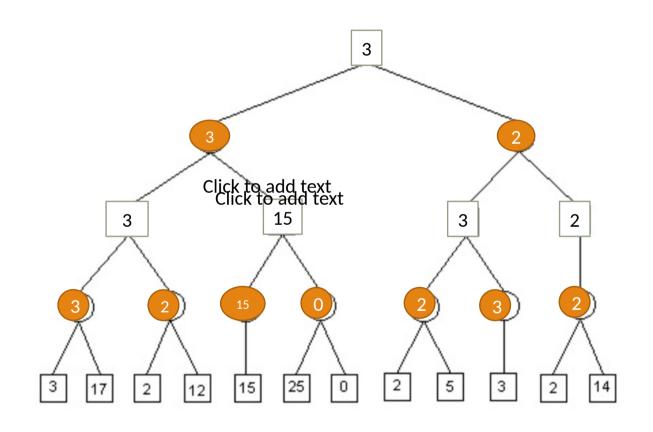
# Consider the game tree of Figure 1











### Alpha-Beta

- $\diamond \alpha$  is the value of the best (i.e., highest-value) choice found so far at any choice point along the path for *max*.
- $\boldsymbol{\diamond}$   $\boldsymbol{\beta}$  is the value of the best (i.e., lowest-value) choice found so far at any choice point along the path for *min*.
- \*Basic Idea: If you have an idea that is surely bad, don't take the time to see how truly awful it is
- Some branches will never be played by rational players since they include sub-optimal decision

