

How humans play games

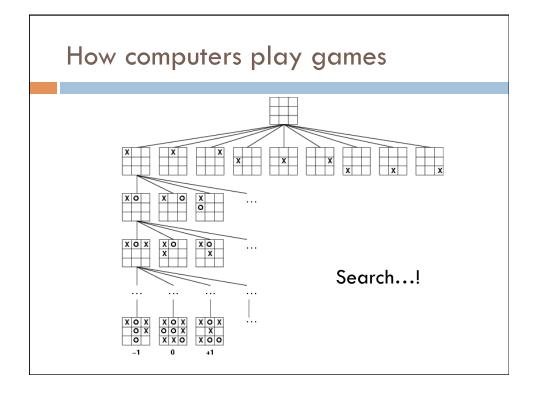
An experiment (by deGroot) was performed in which chess positions were shown to novice and expert players.

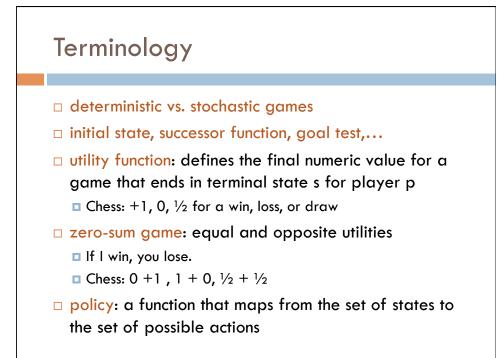
experts could reconstruct these perfectly novice players did far worse...

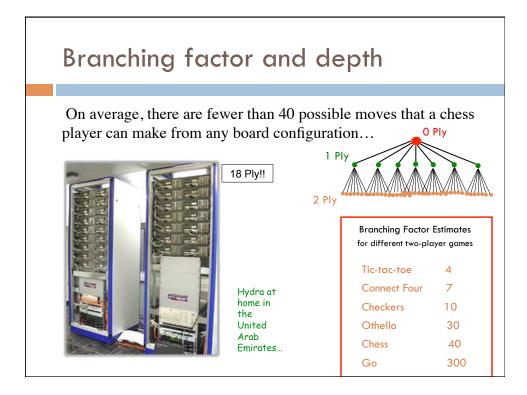
Random chess positions (not legal ones) were then shown to the two groups

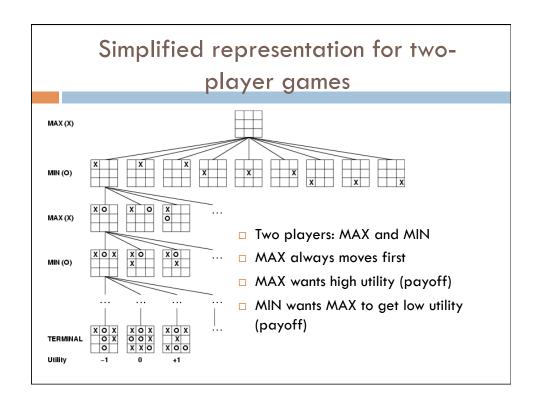
experts and novices did just as badly at reconstructing them!

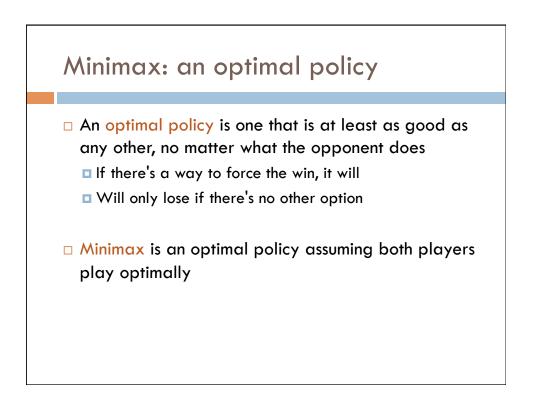


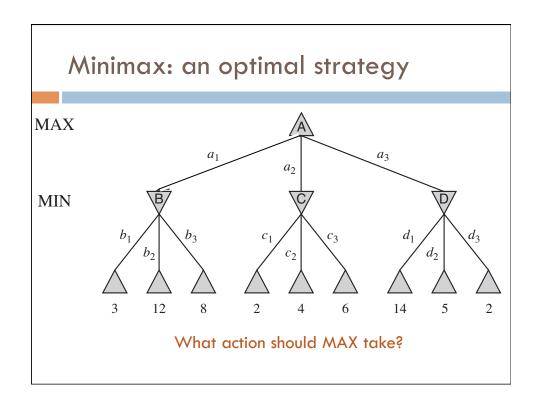


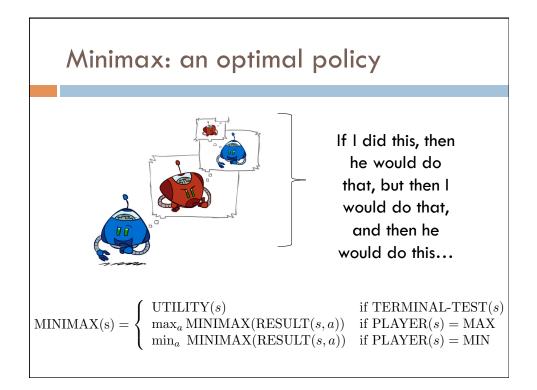


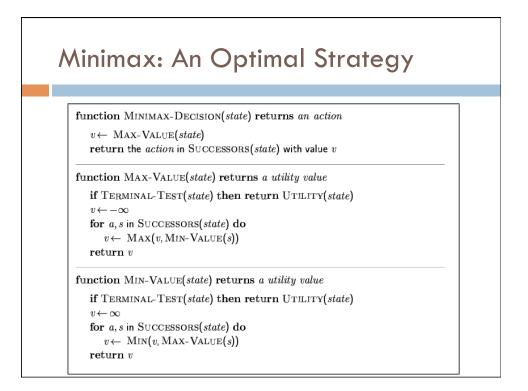


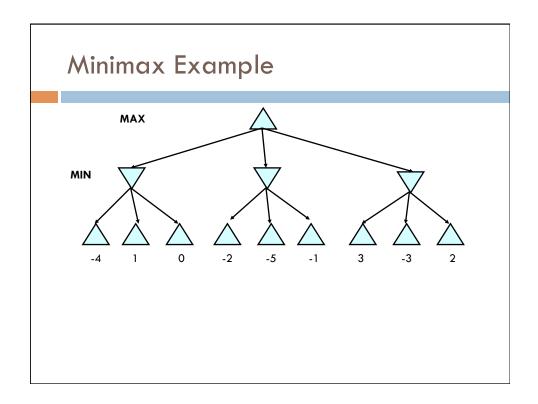


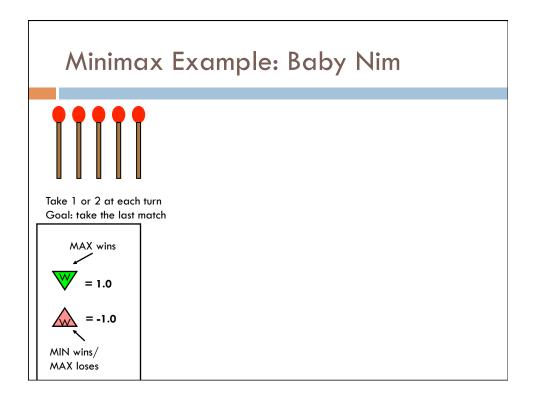


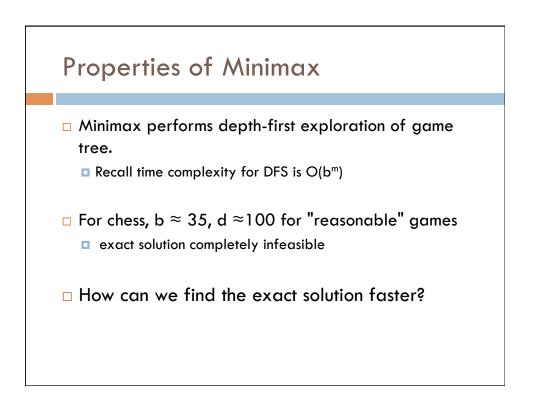












Alpha-Beta Pruning

- □ An extension of minimax
- Prunes the game tree, i.e. eliminates parts of game tree that won't affect the final result
- Alpha-beta returns the same result as minimax but faster

