Q1 For tir-tar-toe
1) Minimax (plain) (9! total moves)
2) Alpha beta pruning
3) depth limited Search
all three will terminate.
For Chess
1) Minimax (plain) possibly never terminate
2) Alpha bela search can possibly never terminates
3) depth-limited Search will terminate
for tic-tac-toe maximum depth is 9
so, total no of moves combe 9! so
1. plain minimax ran terminale.
2. Alpha beta search: in worst case requires similar
or lesser moves, so this will also terminate.
3. Depth limited Search - we can always select a limit
such that algorithm will terminate.
such that congonition as
For chess
1) Plain Minimax = O(bm) b=35 m=100
so plain minimax can possibly never terminate
2) Alphabeta pearch: o(bm/2), 3550 is still
big value, so it can possibly never terminal
3) depth-limited search: we can always set
limit such that algorithm will terminal.
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