



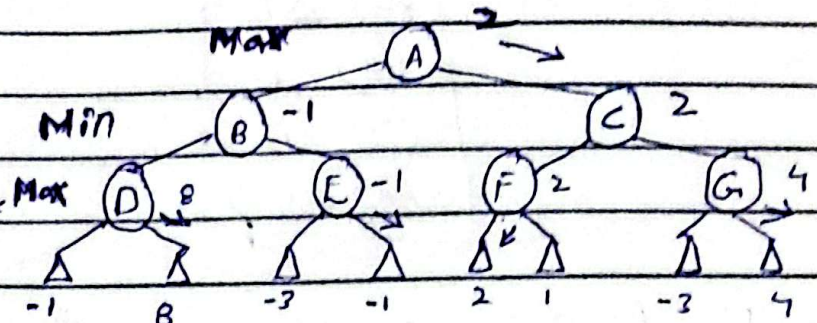


(minimax advanced  $\rightarrow$  Alpha Beta pruning)

## Minimax Algorithm:

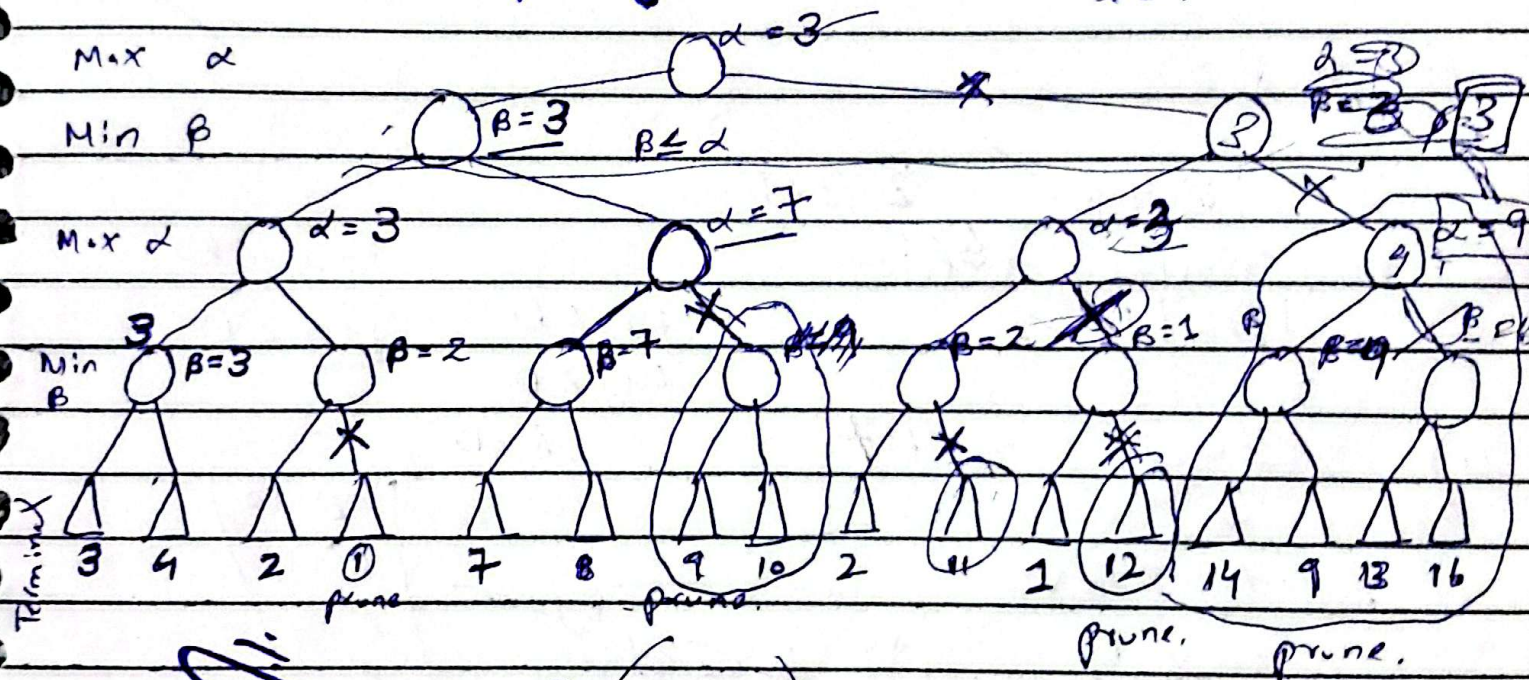
- Backtracking algorithm
- Best move
- Max will try to maximize its utility
- Min will try to minimize its utility
- 2 player zero-sum games

Q. Why we do not use BFS in game playing?  
Bcz it follow level by level.



## Alpha-Beta pruning

(Optimization technique)  
 $\alpha \geq \beta$



Prune:  
 $\alpha \geq \beta$  (prune)  
 $\beta \leq \alpha$  (prune)