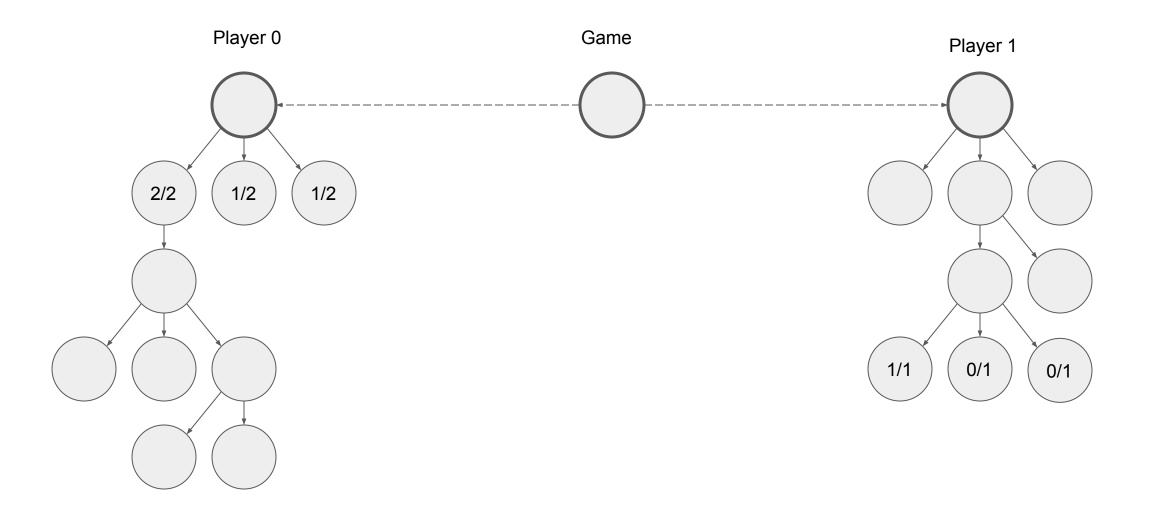
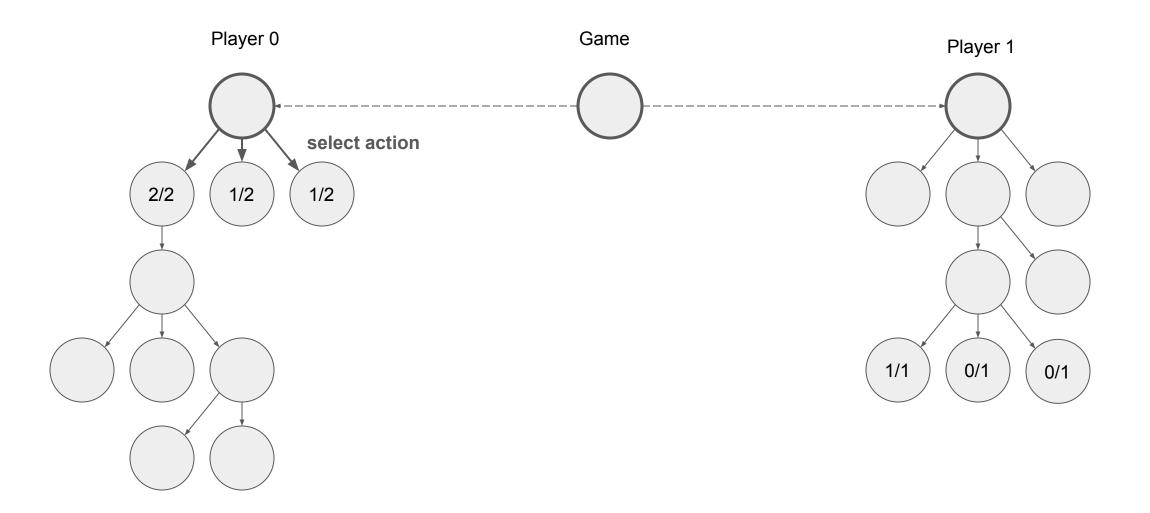
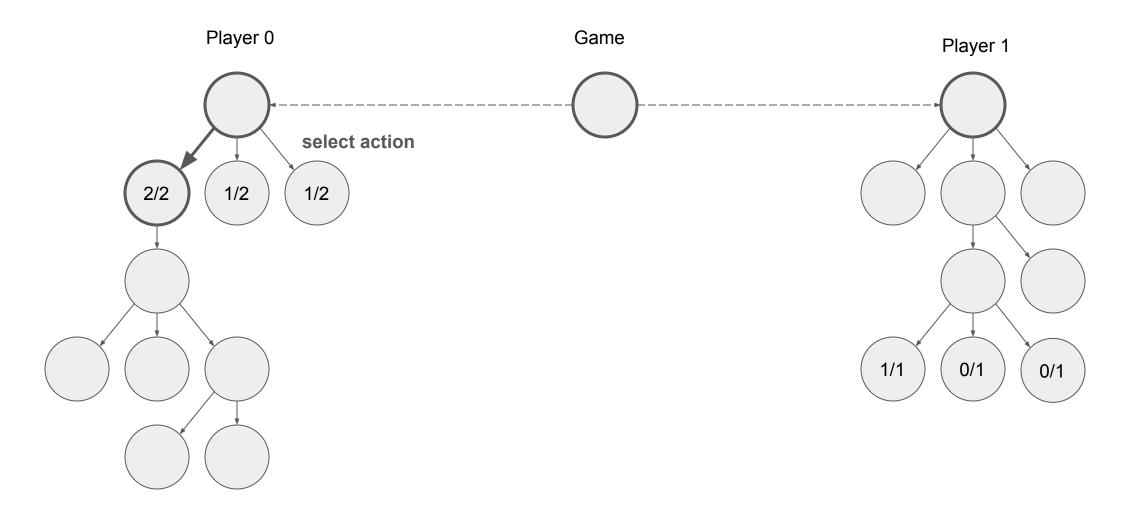


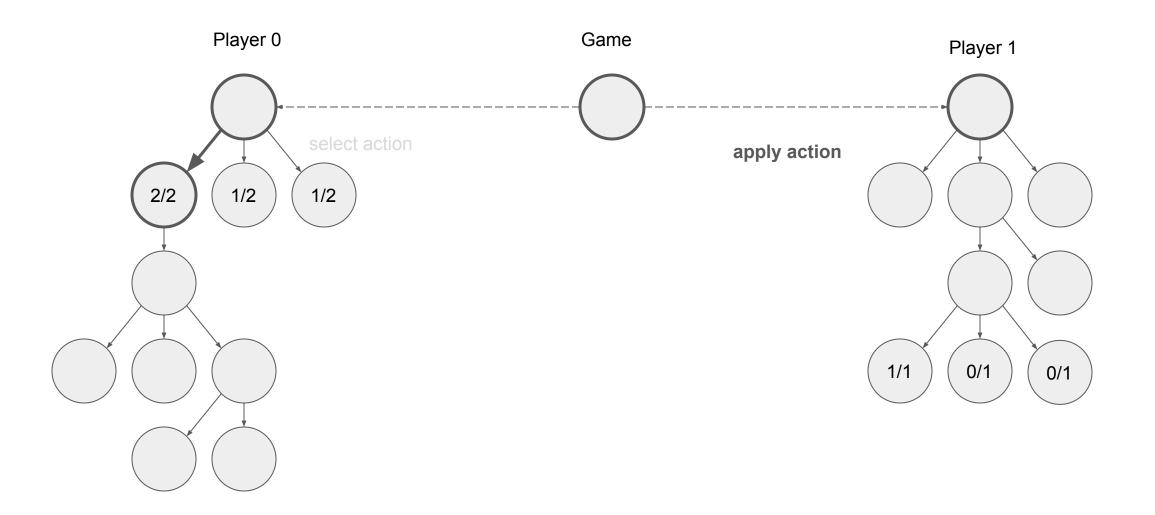
We only need to keep track of win statistics for post-action nodes.

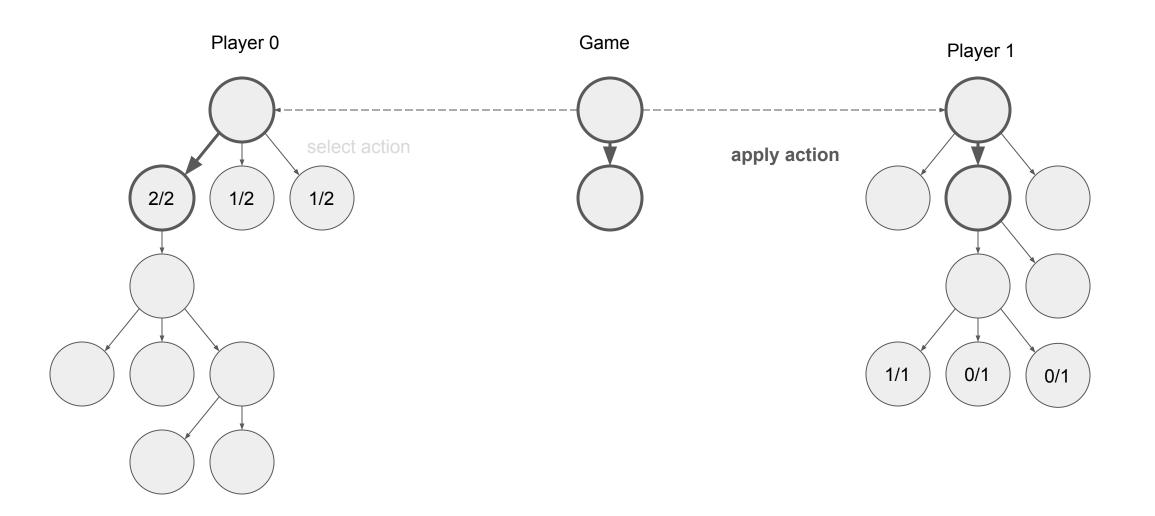
(at pre-action nodes, actions are selected based on the UCB of the child post-action-nodes, UCB requires win statistics)

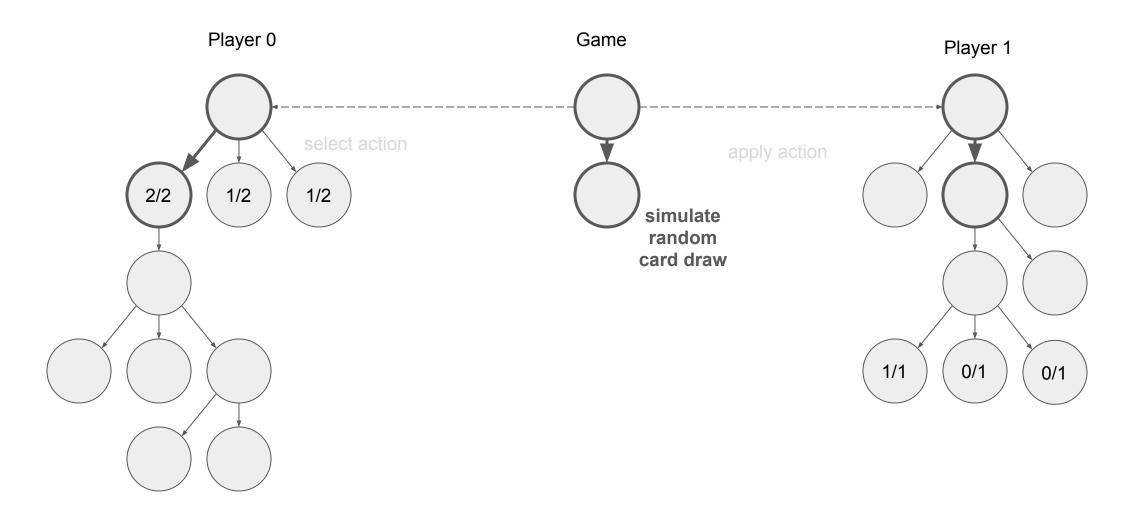


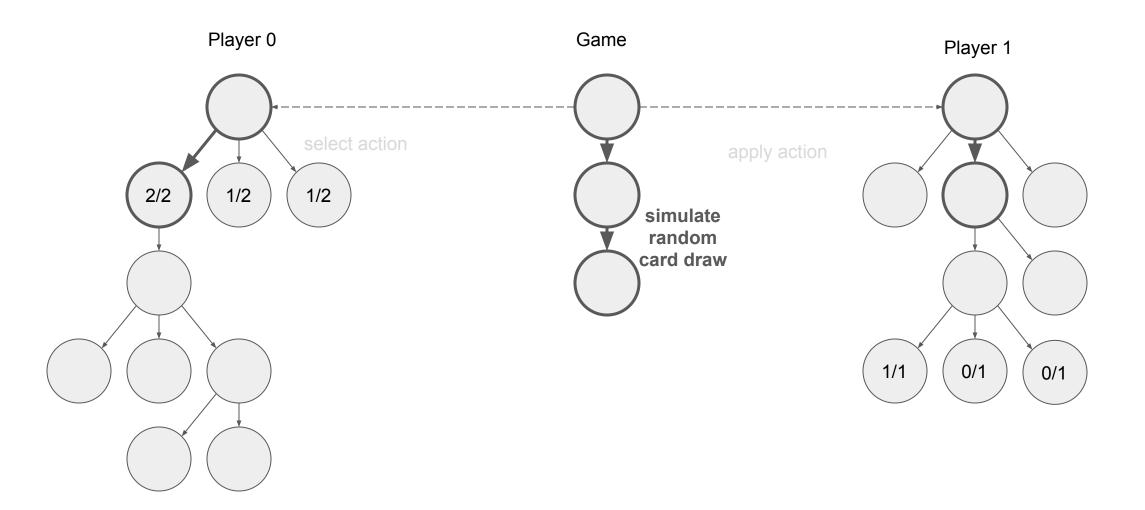


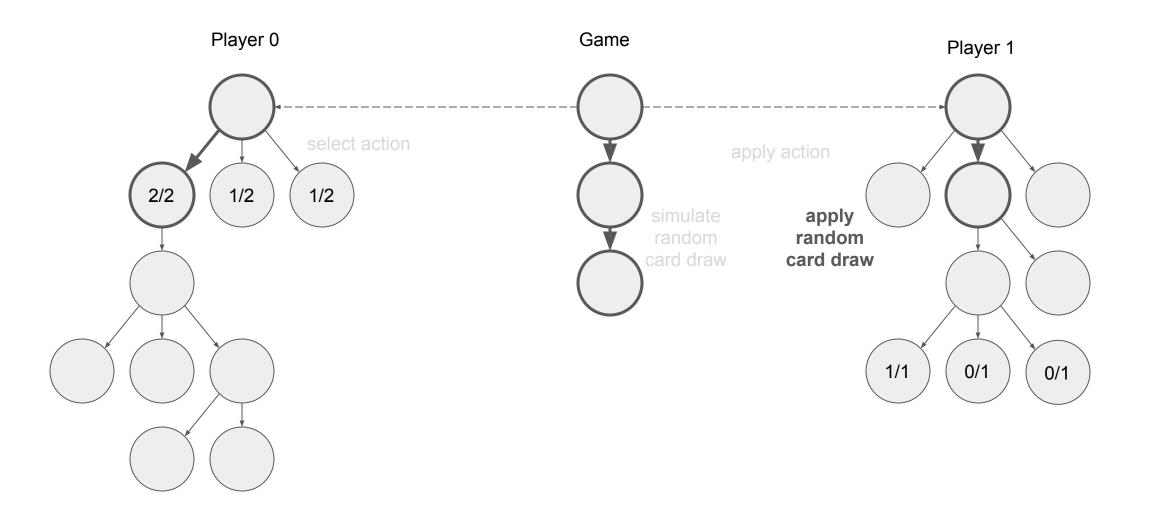


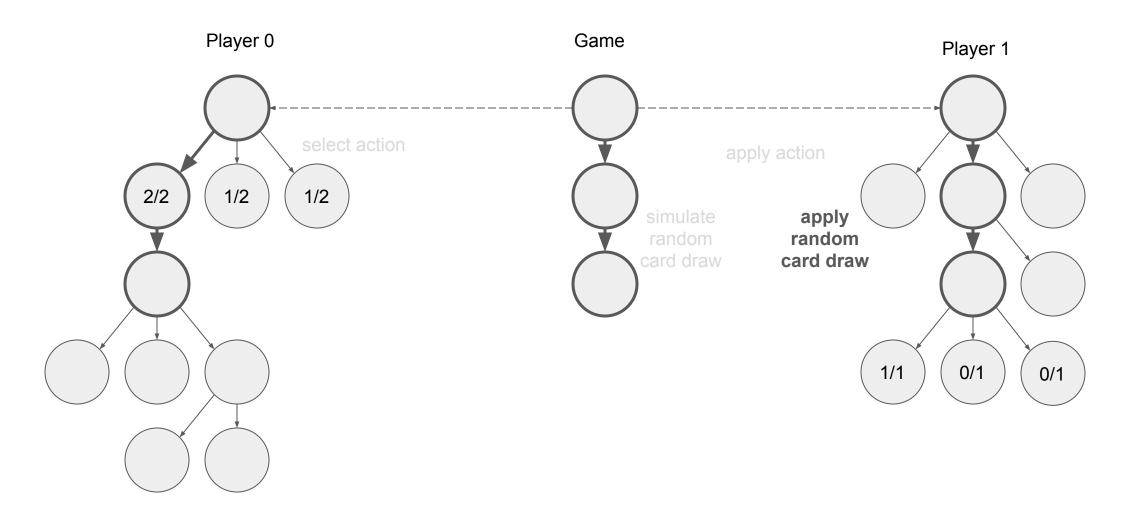


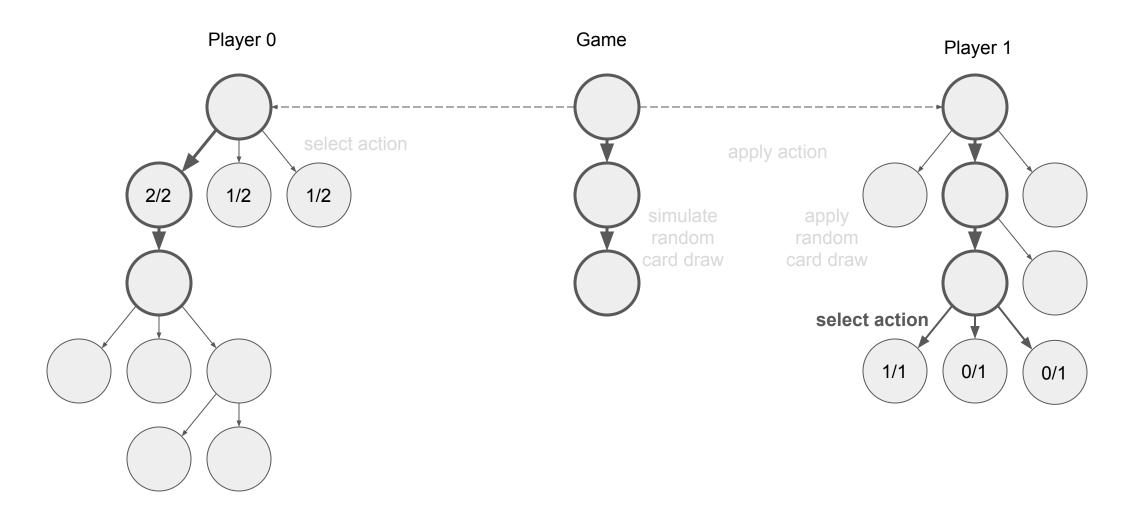


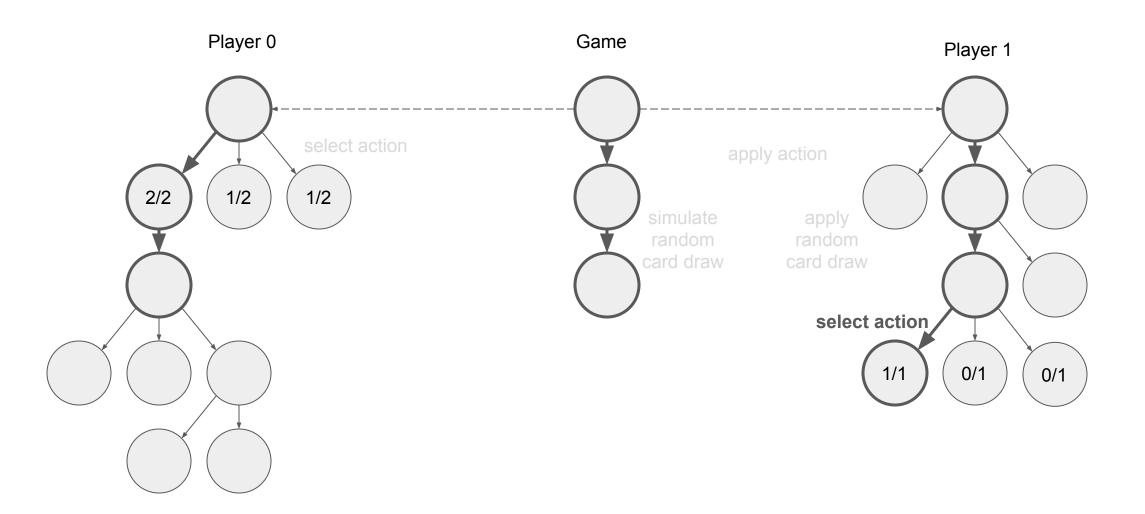


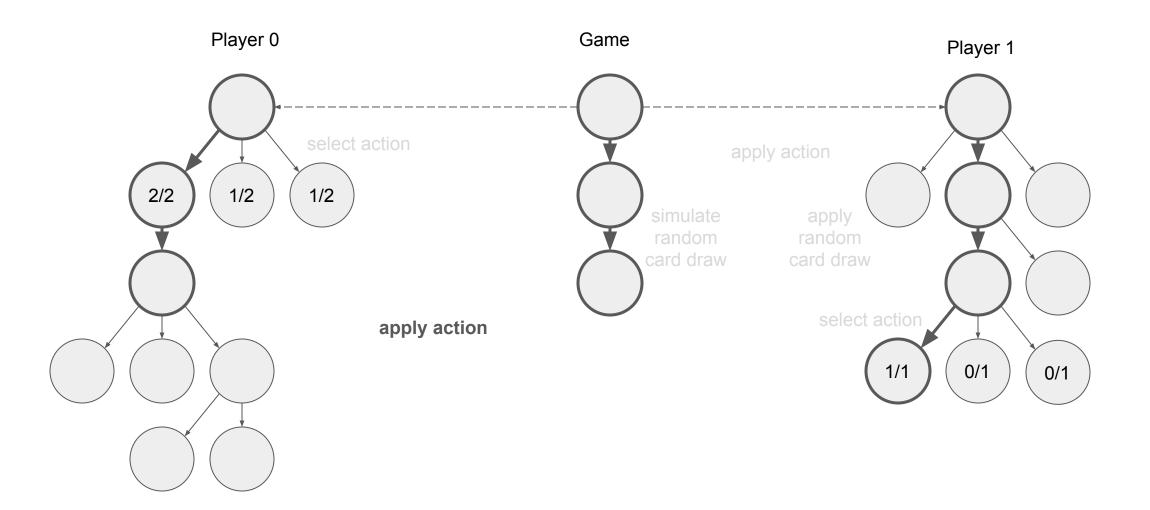


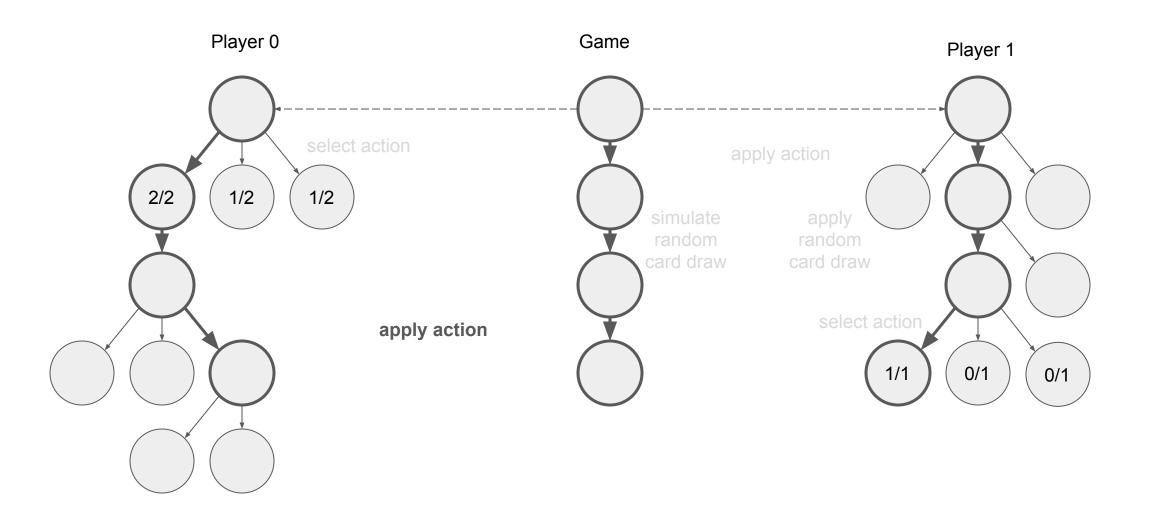


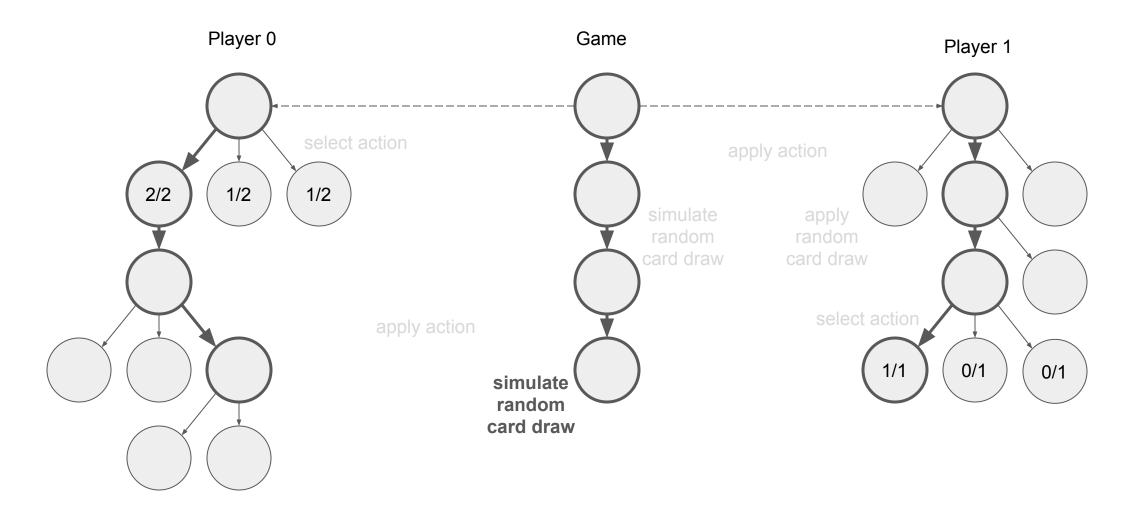


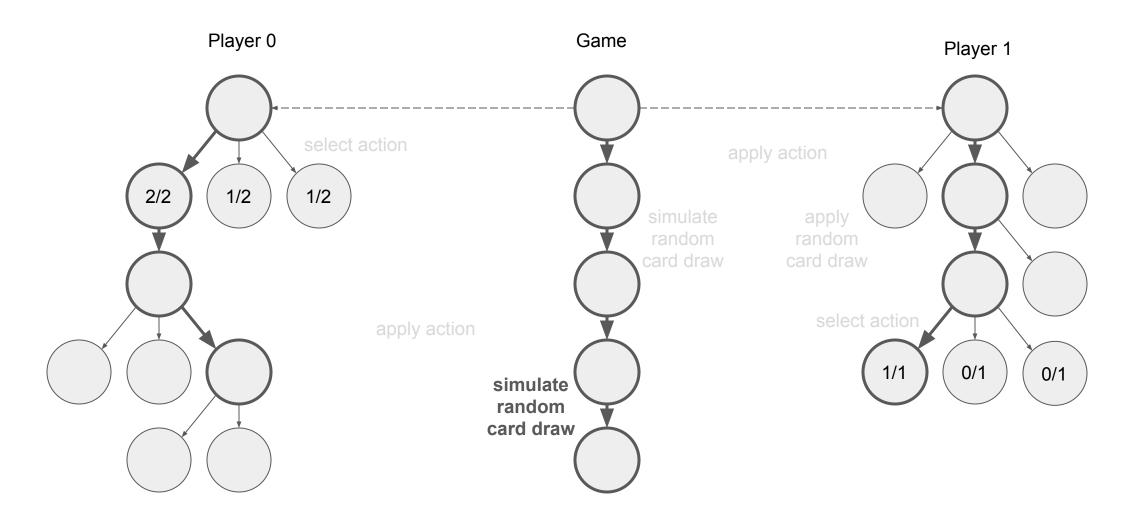


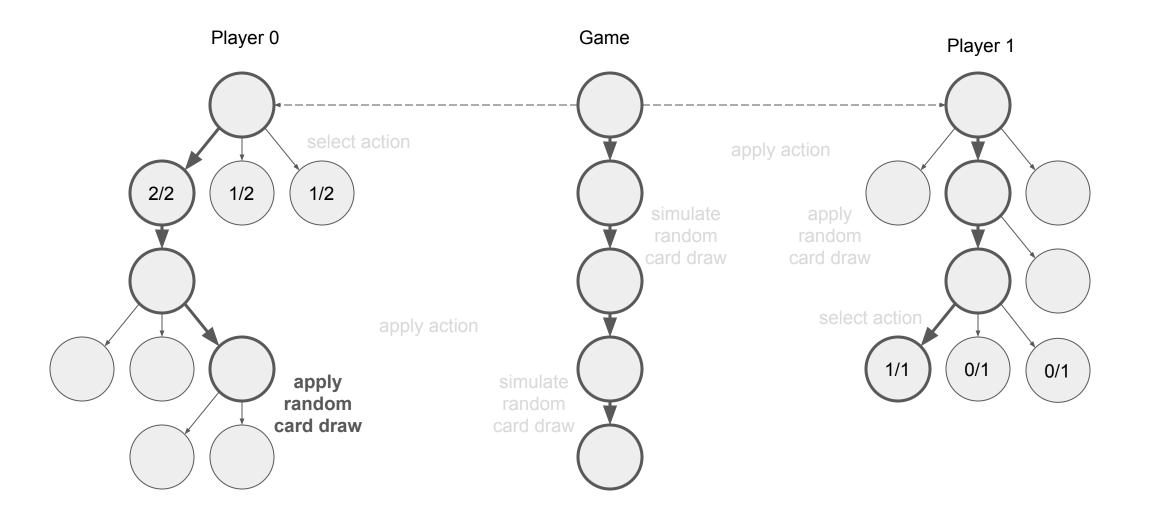


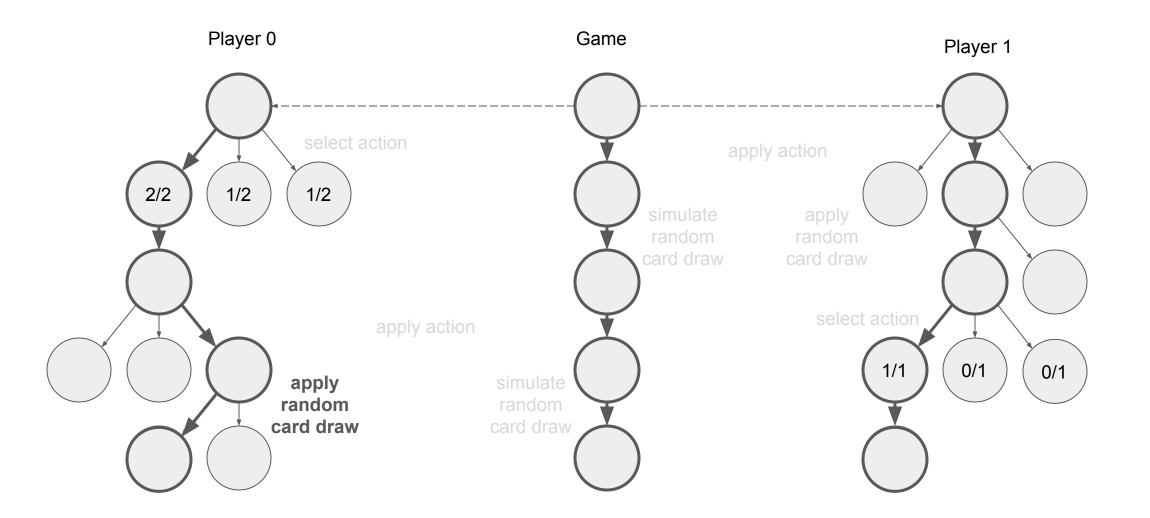


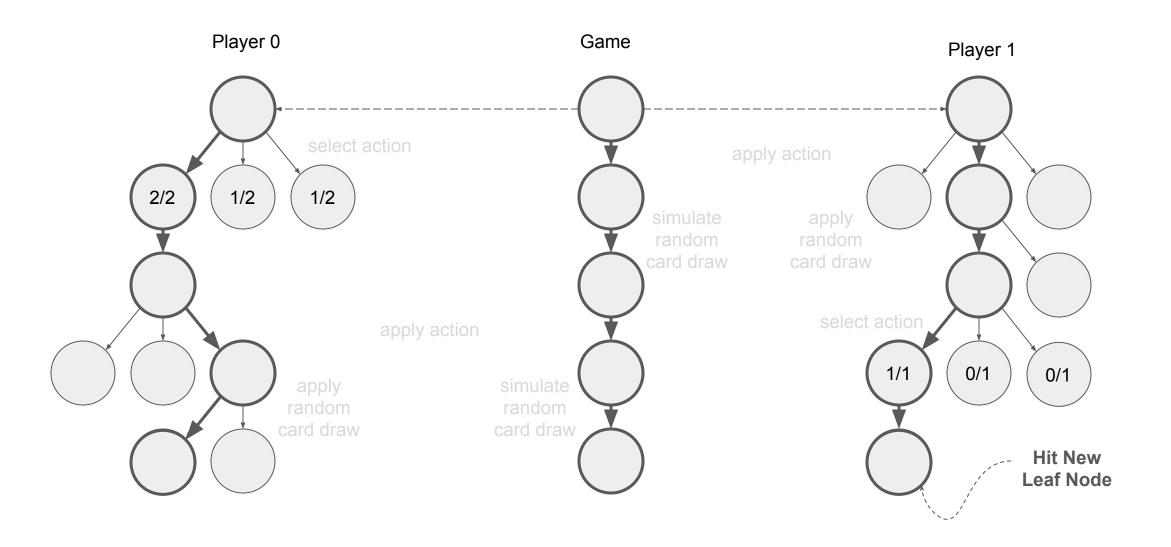


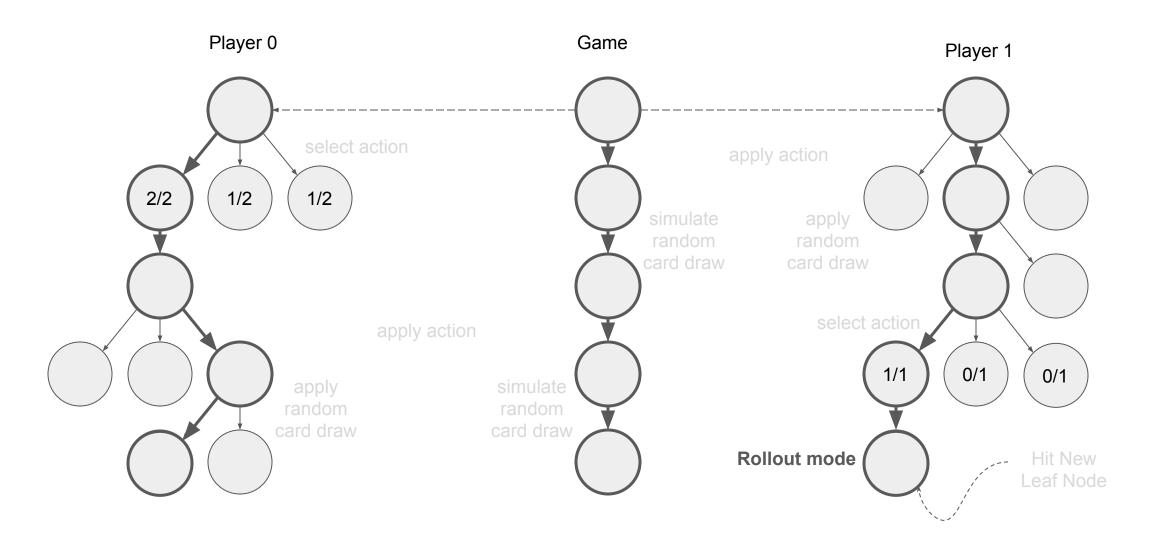


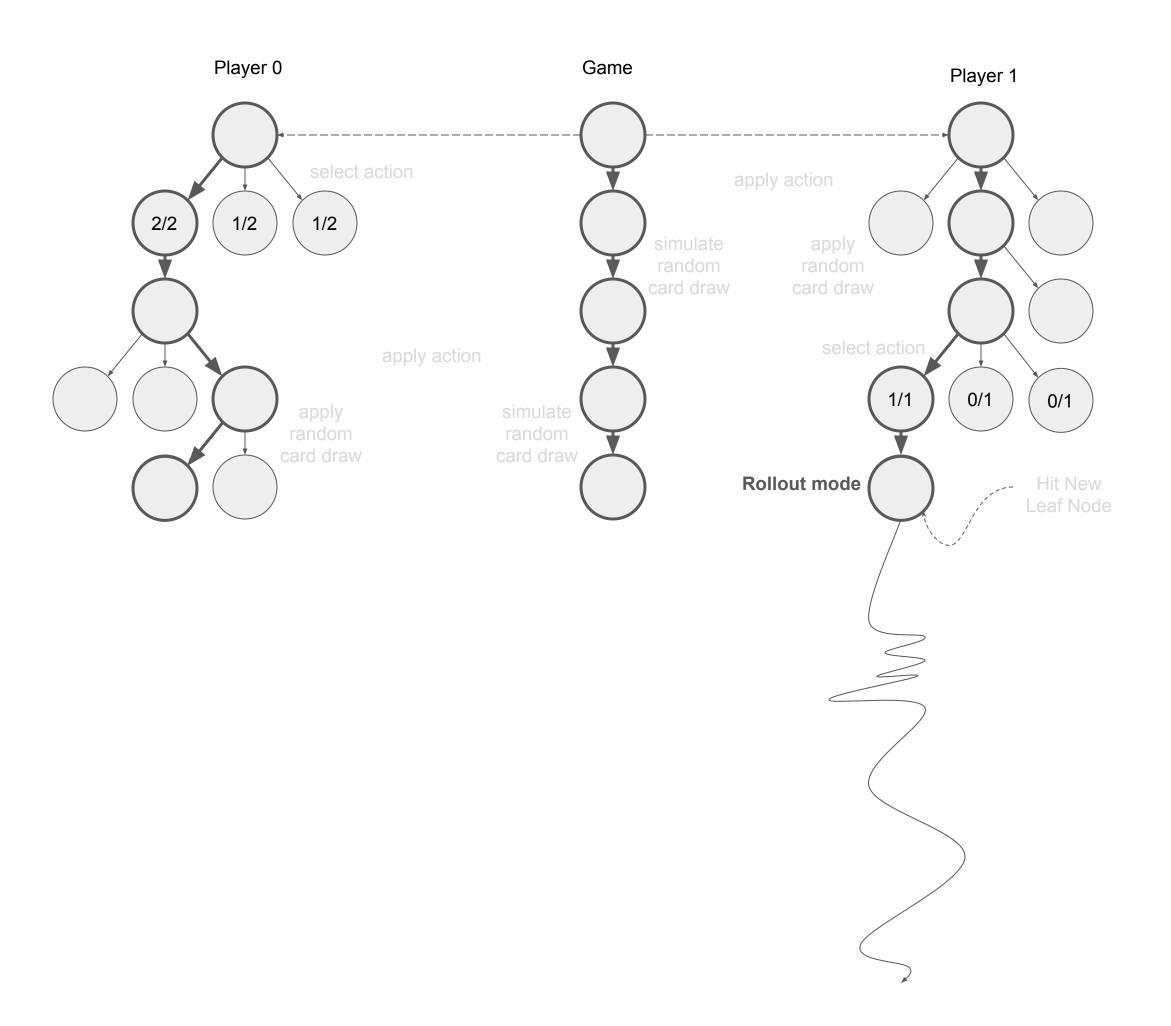








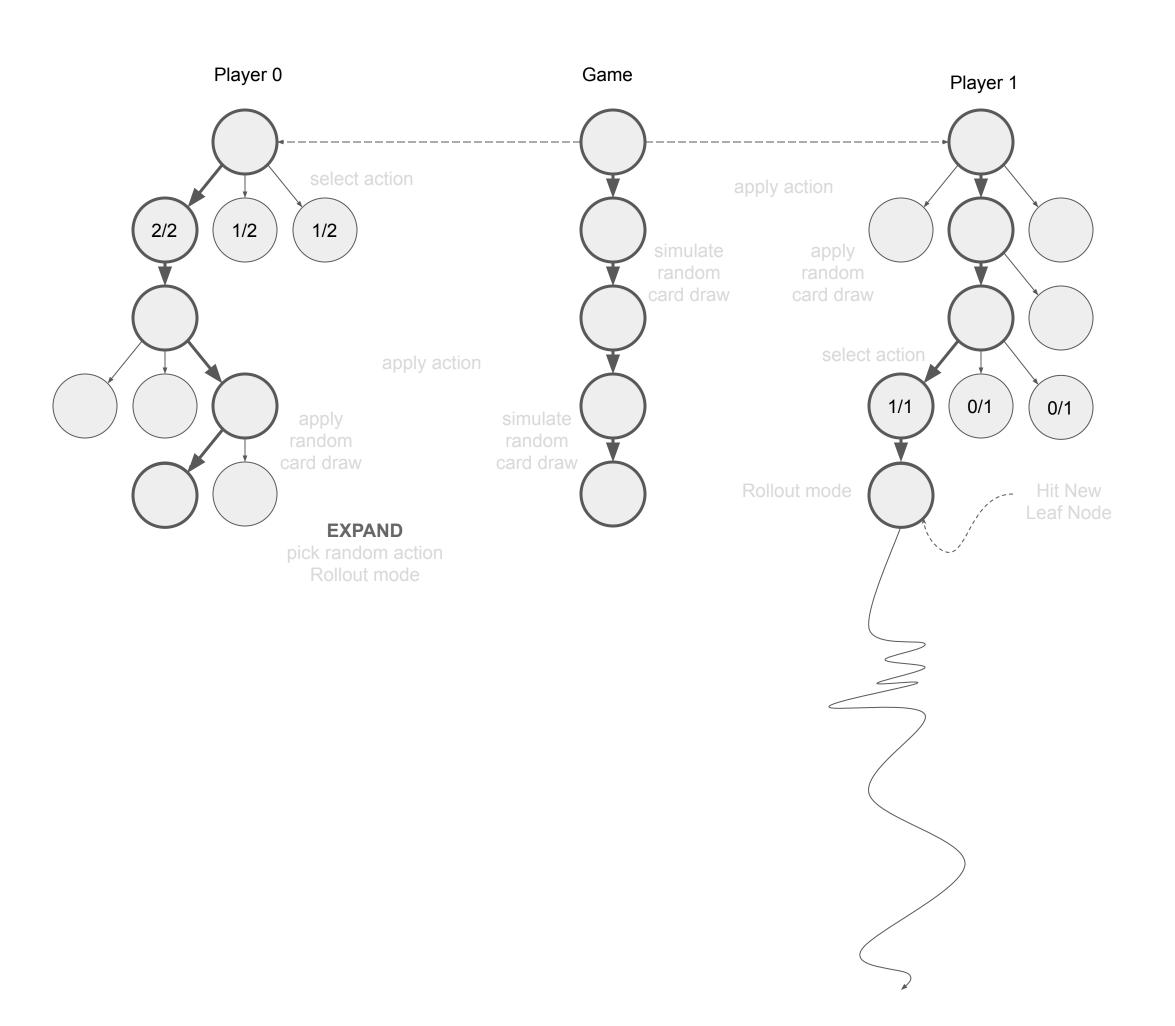


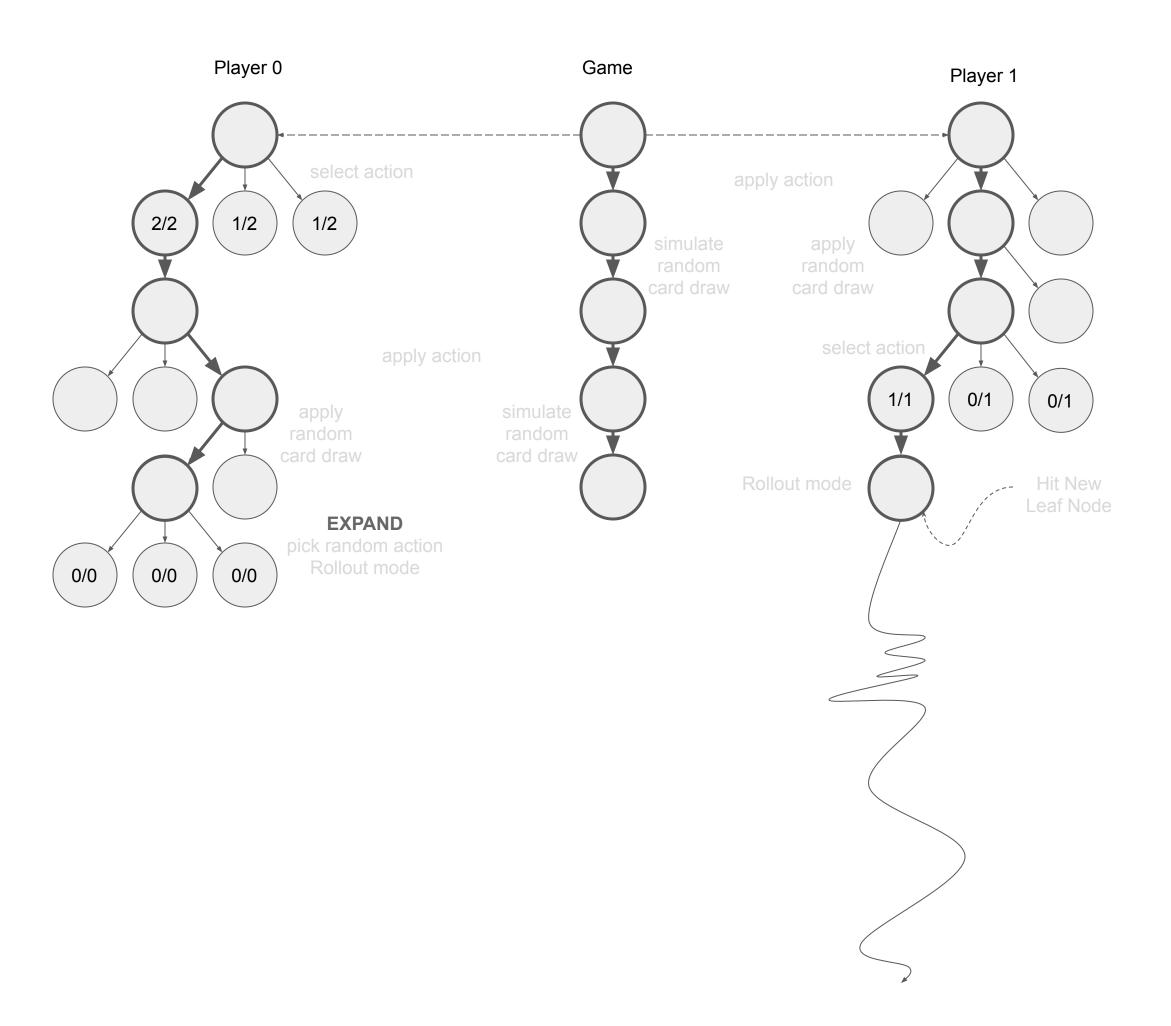


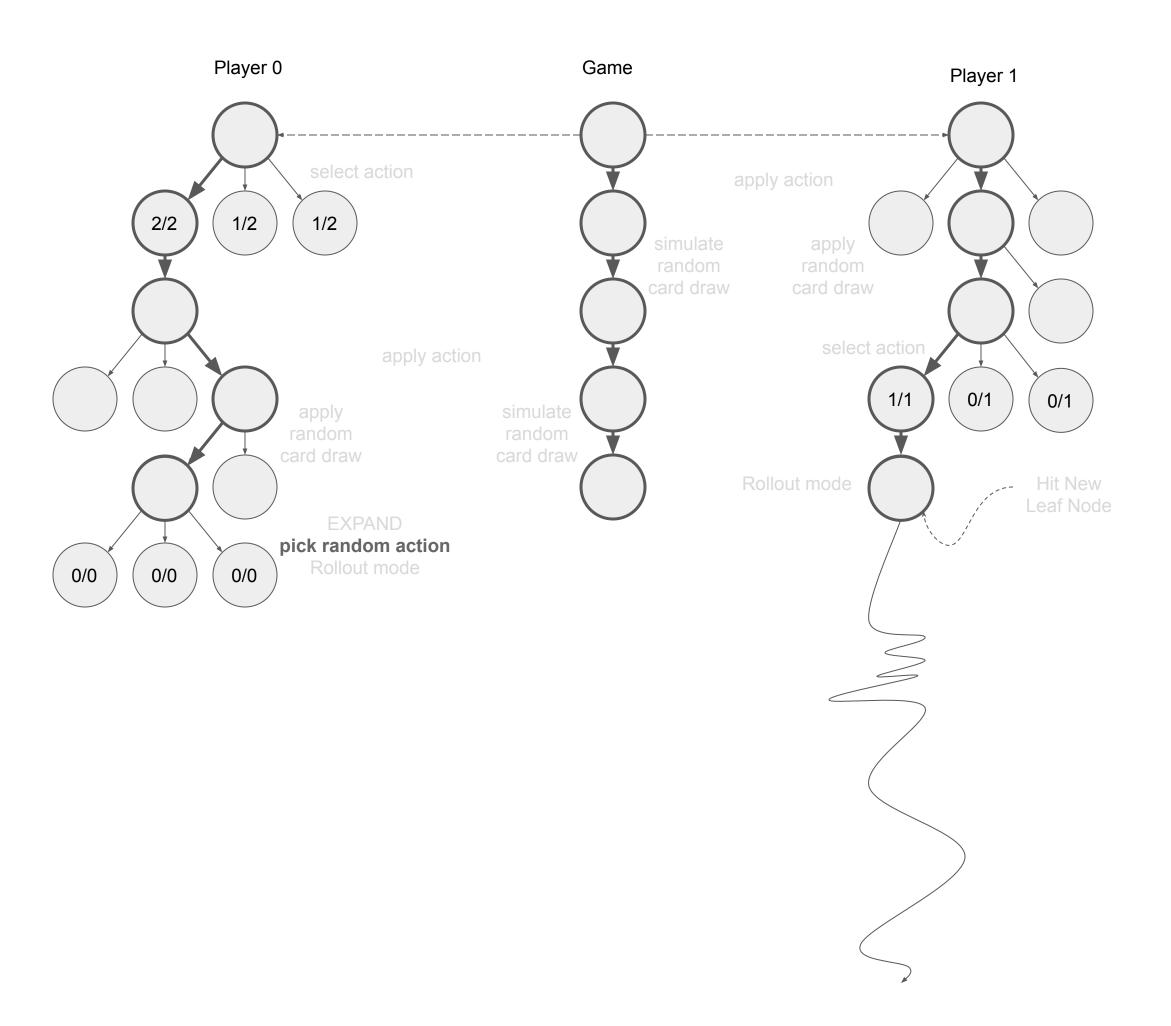
When a new leaf node is sprouted (not a pre-action-node), the tree is set to 'rollout mode'.

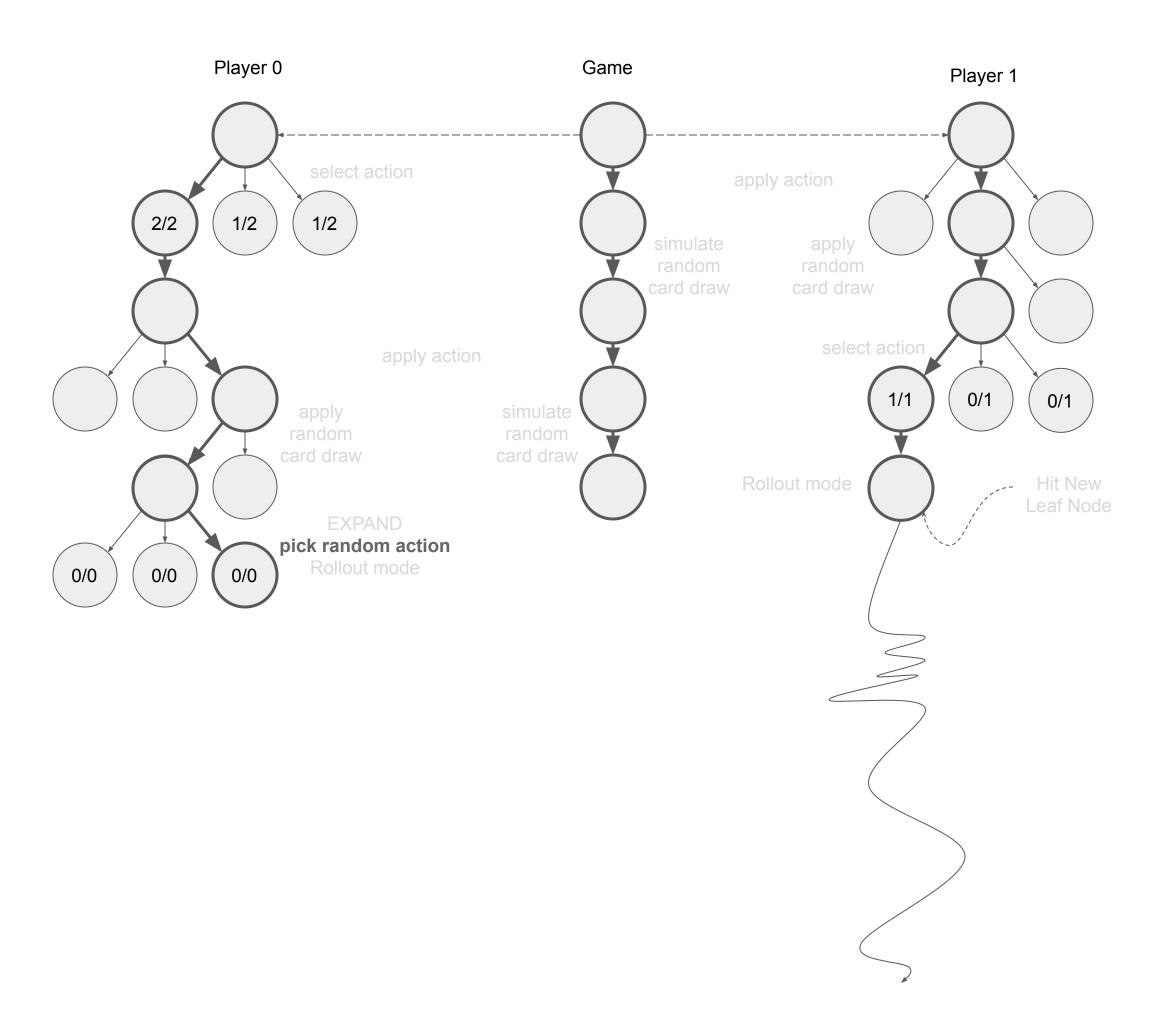
Pick random actions

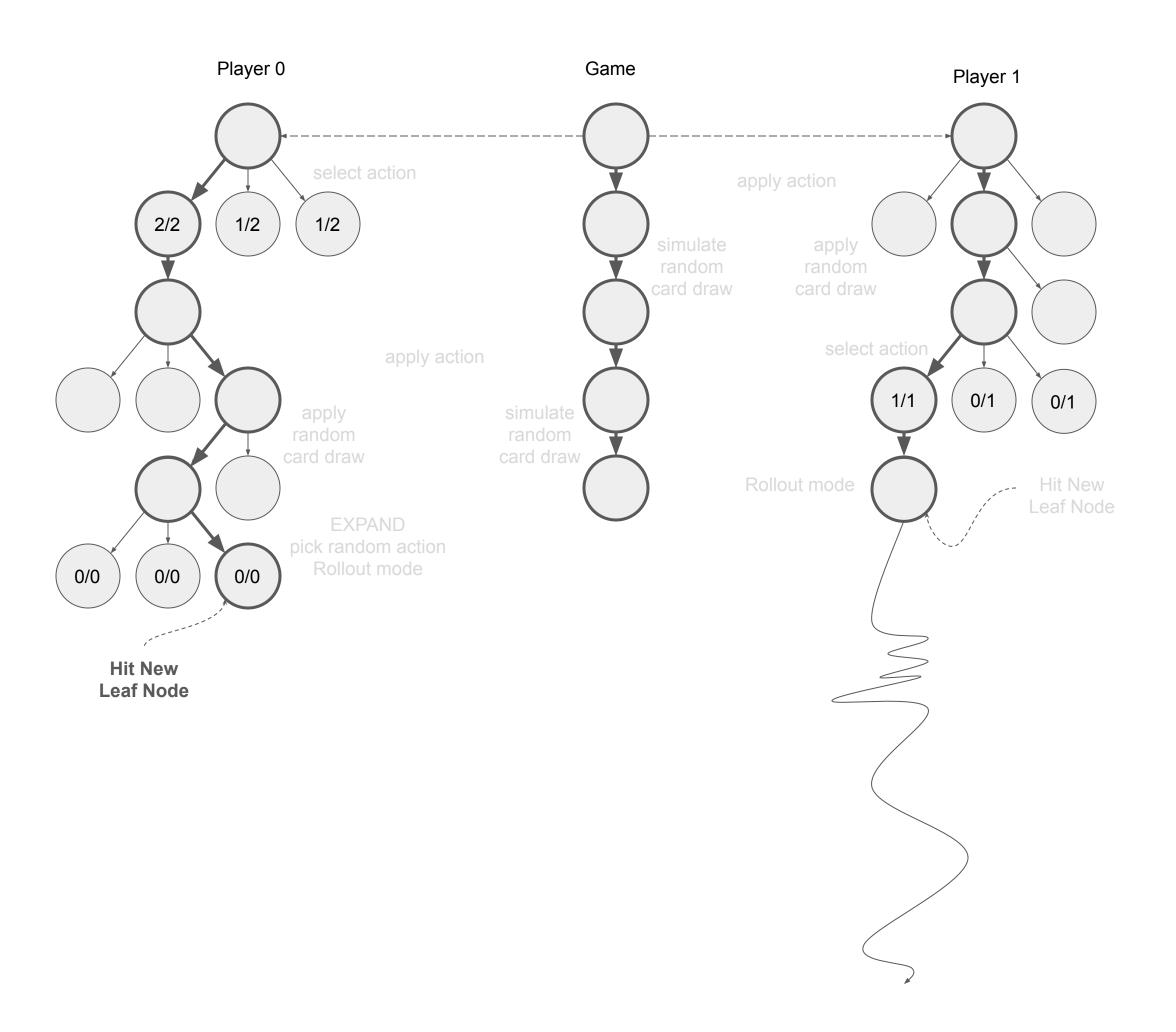
Don't sprout new nodes

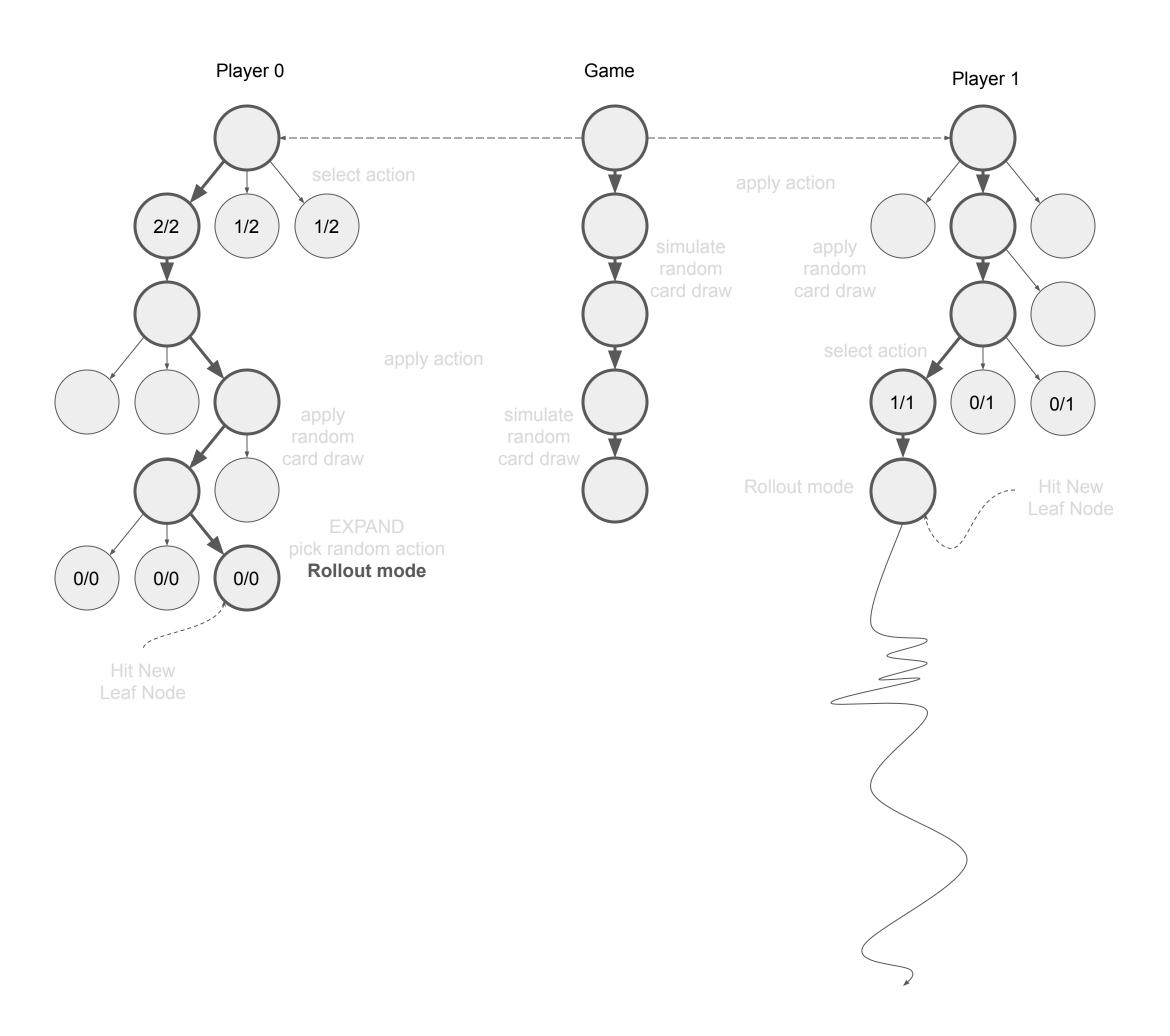




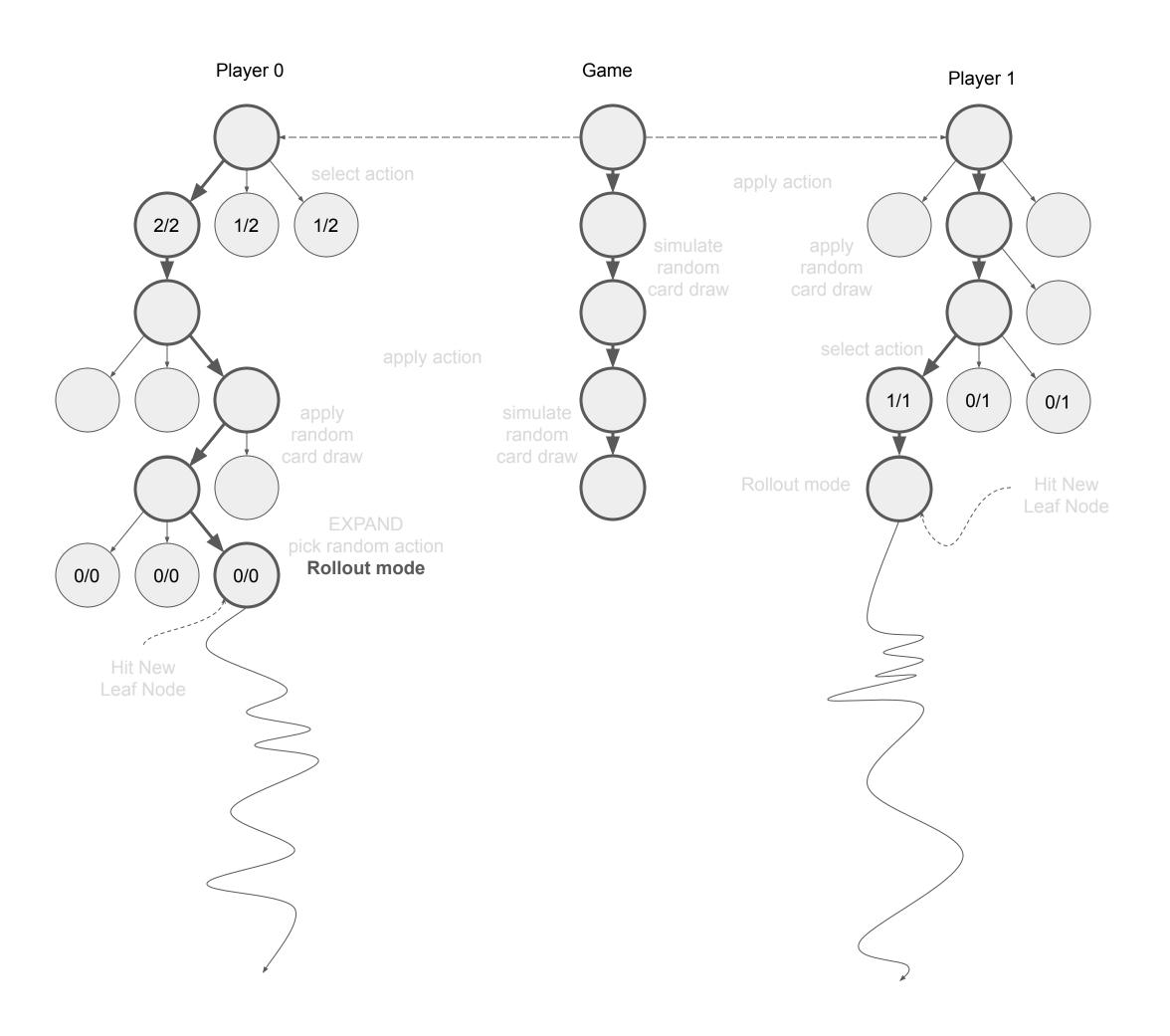




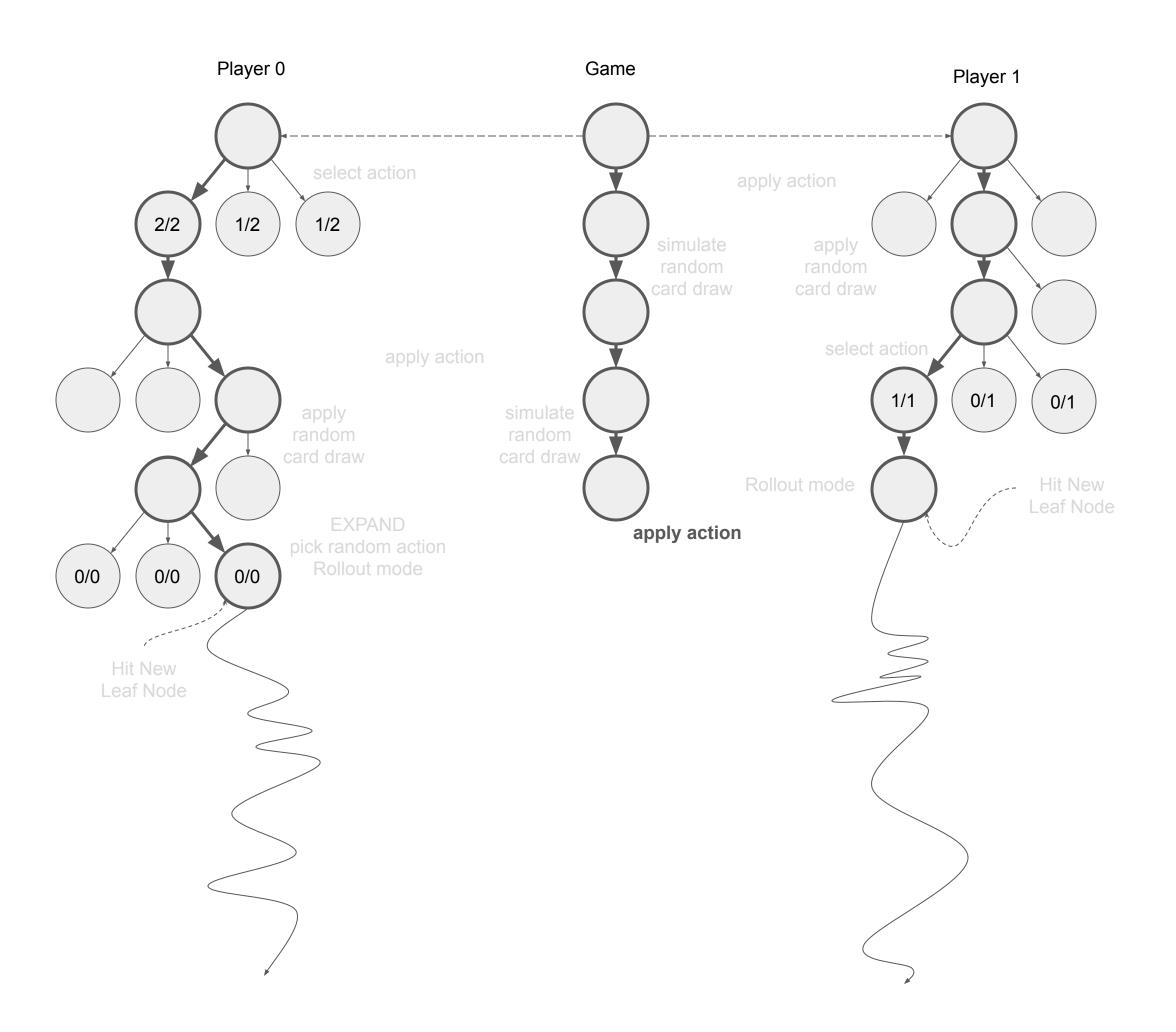




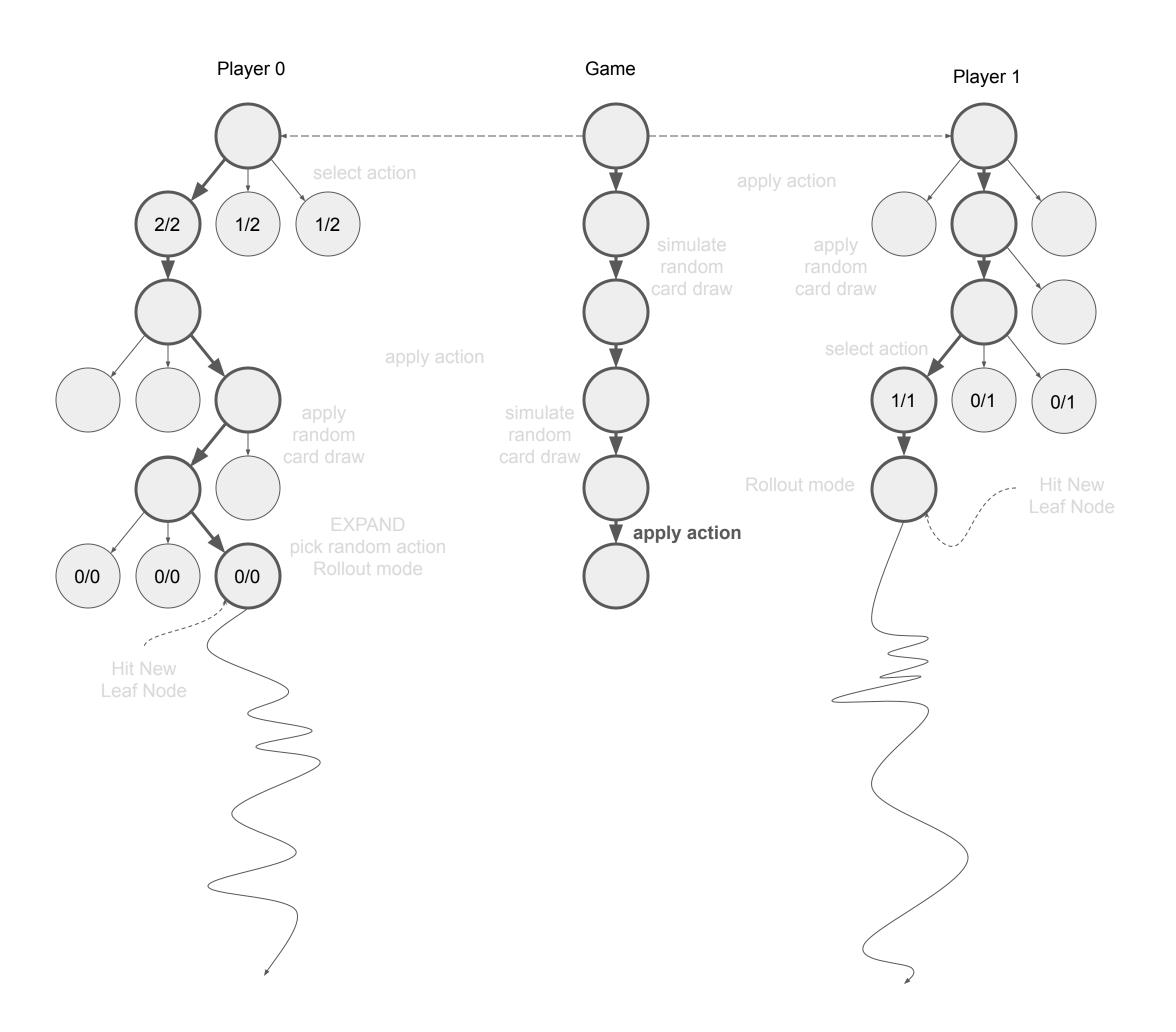
Put tree to 'rollout mode'
Pick random actions
Don't sprout new nodes



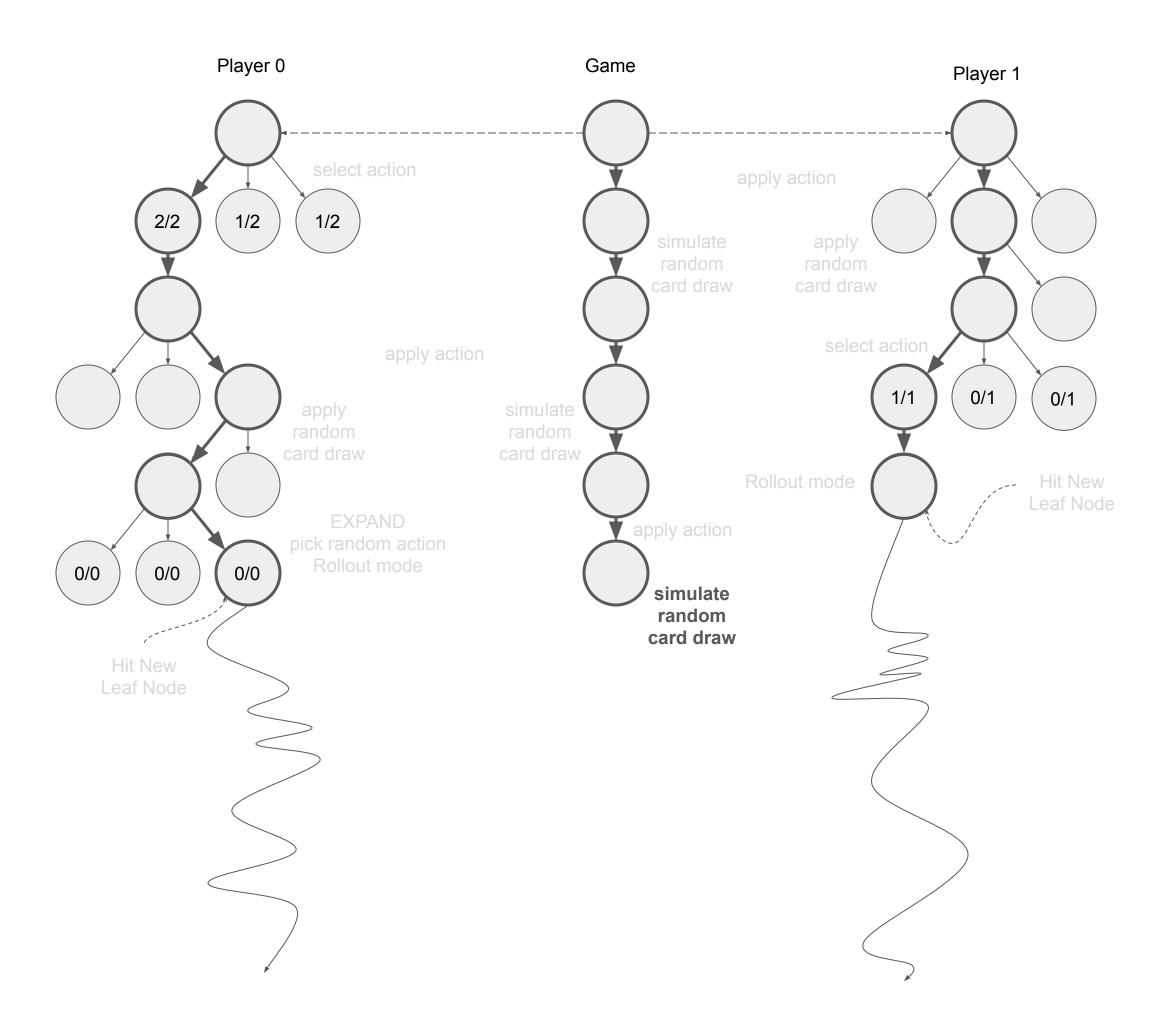
Put tree to 'rollout mode' Pick random actions Don't sprout new nodes



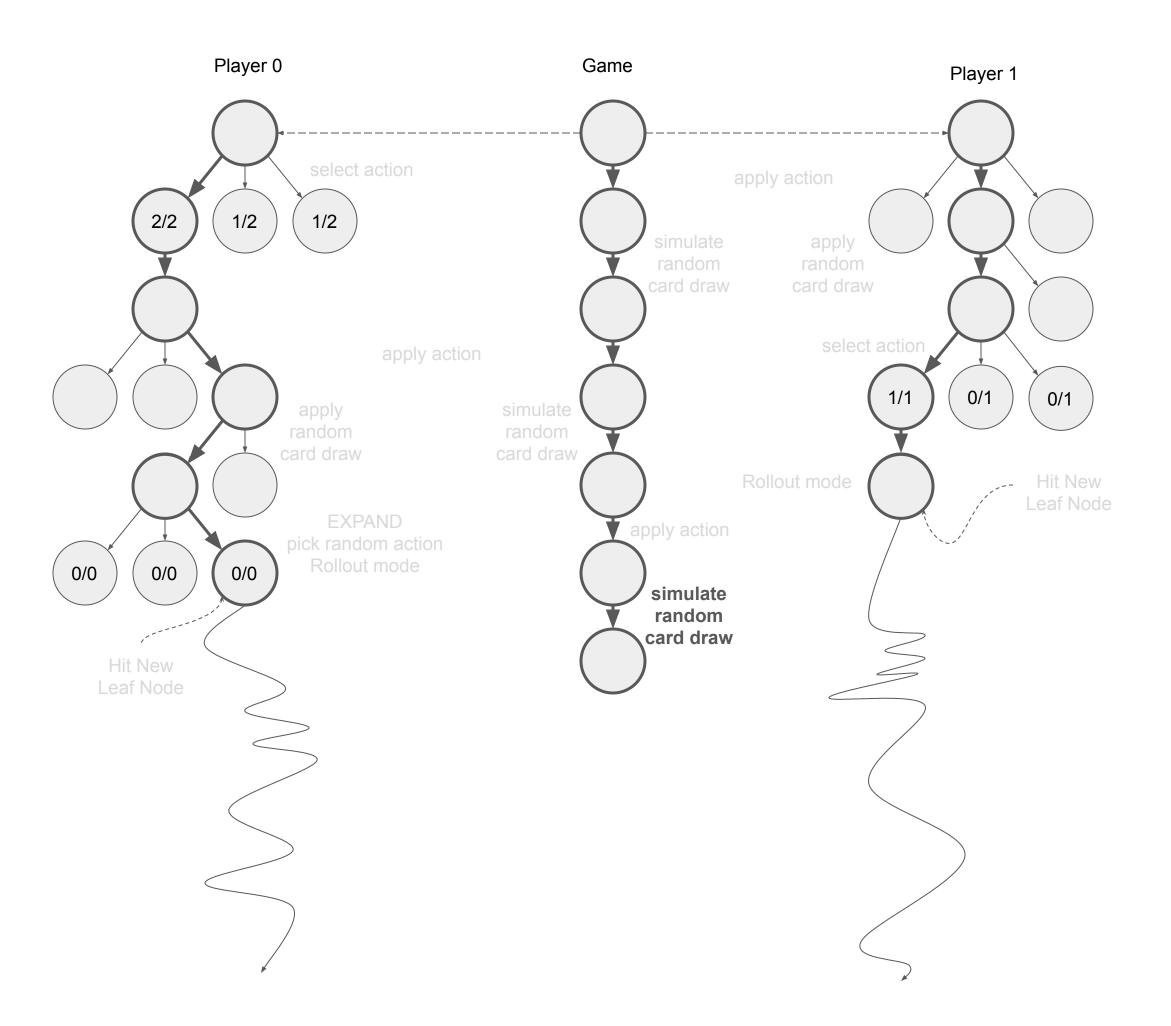
Apply Player 0's random action to the simulated game



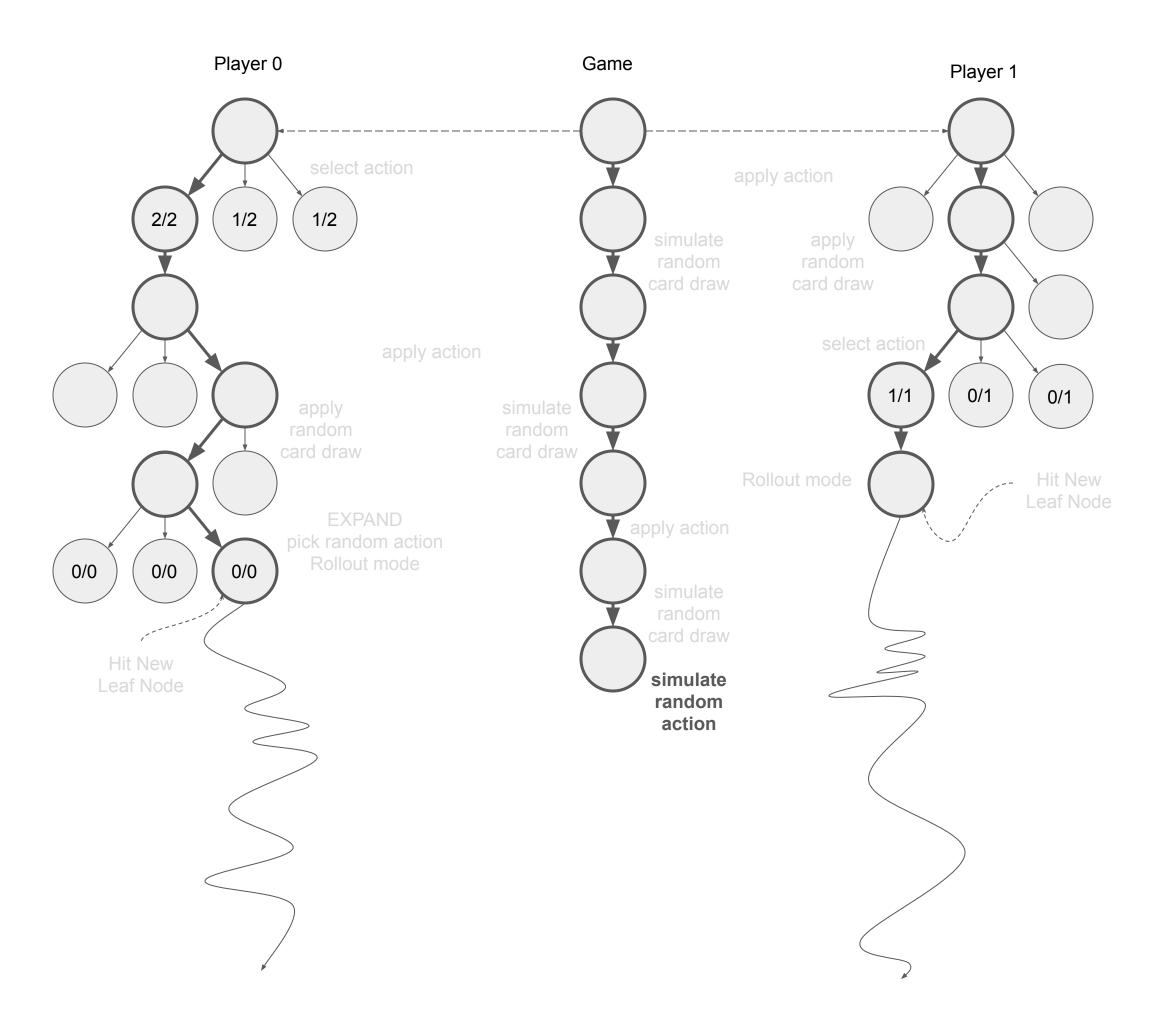
Apply Player 0's random action to the simulated game



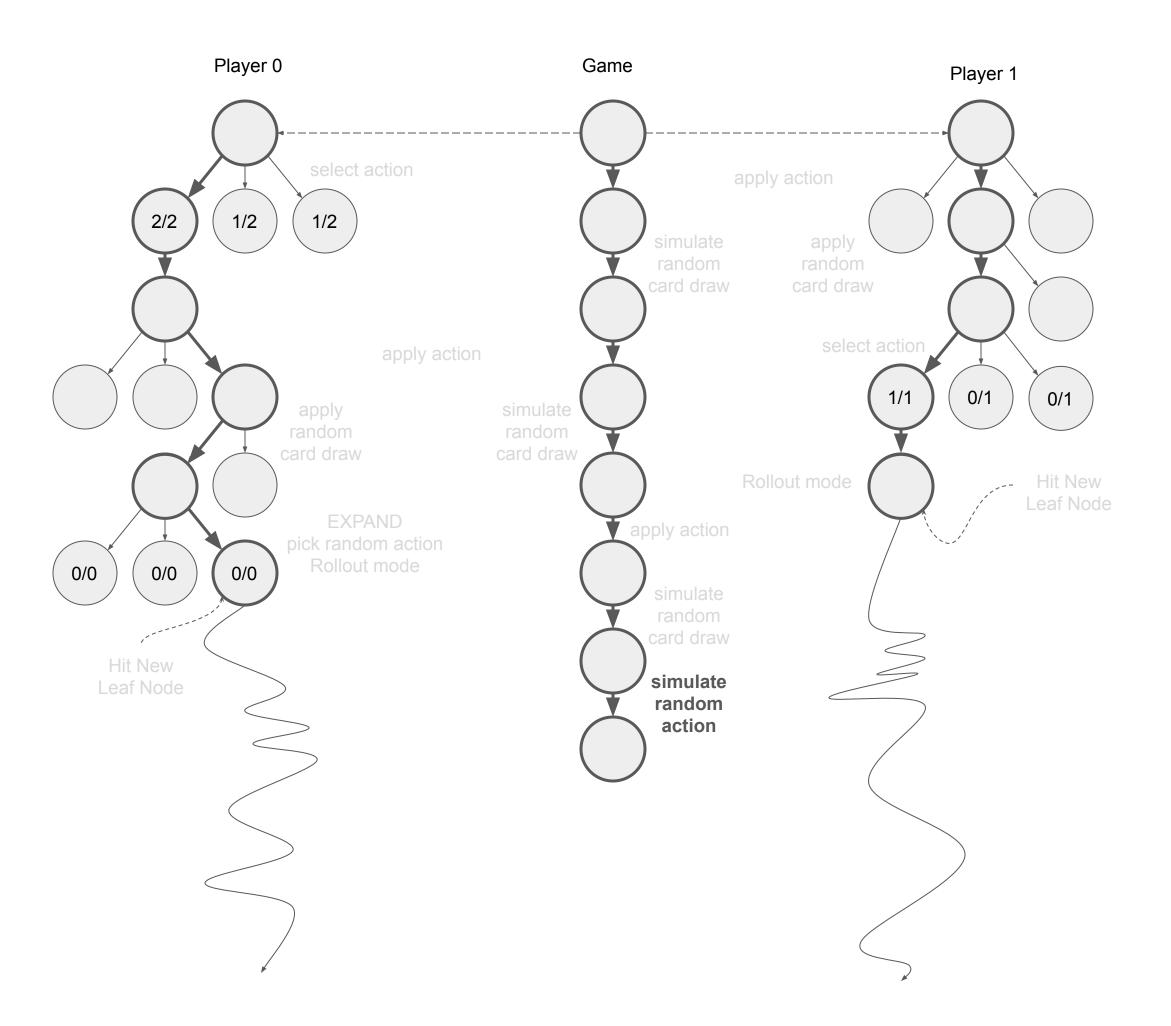
Slmulate a random game



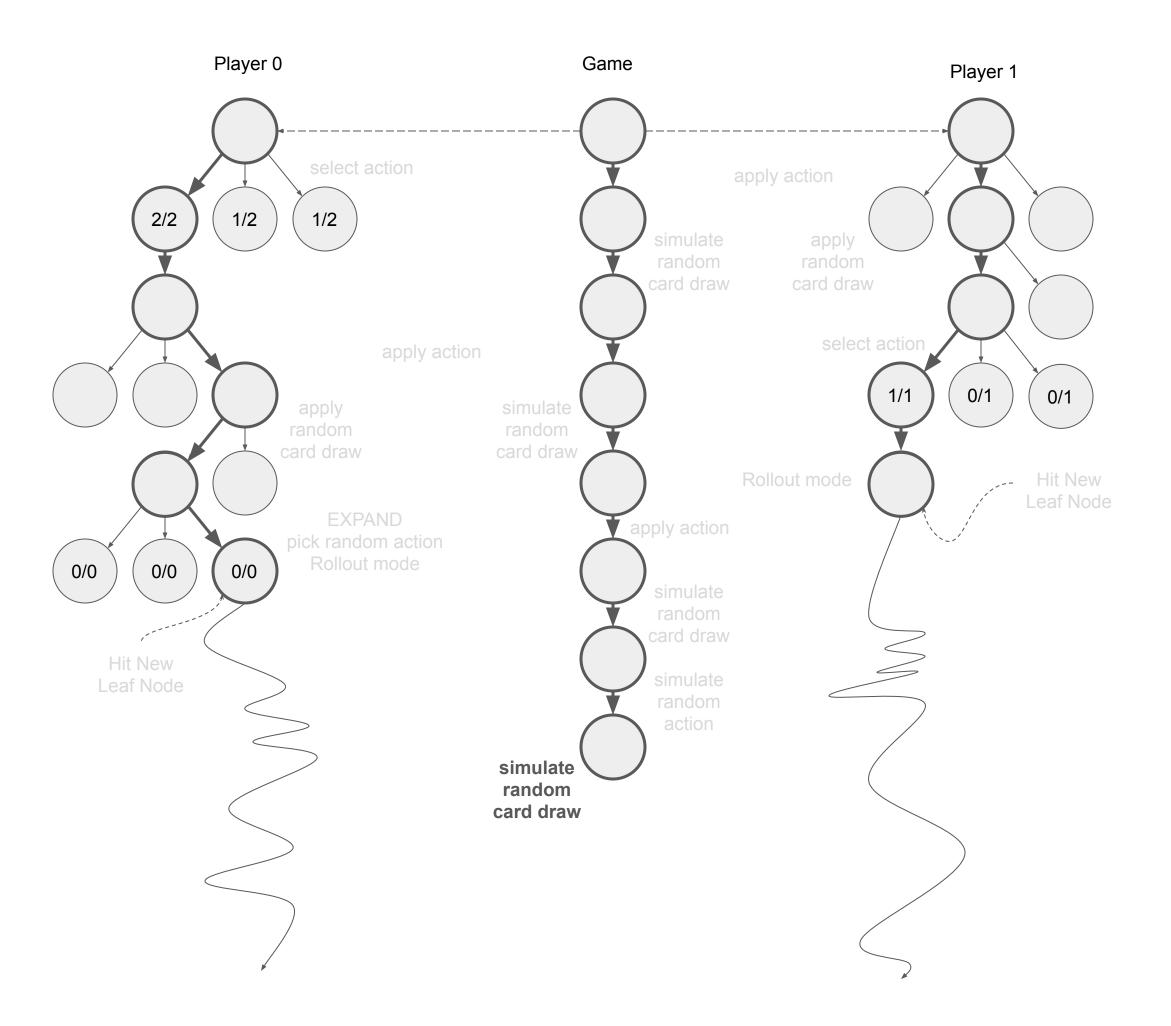
Slmulate a random game



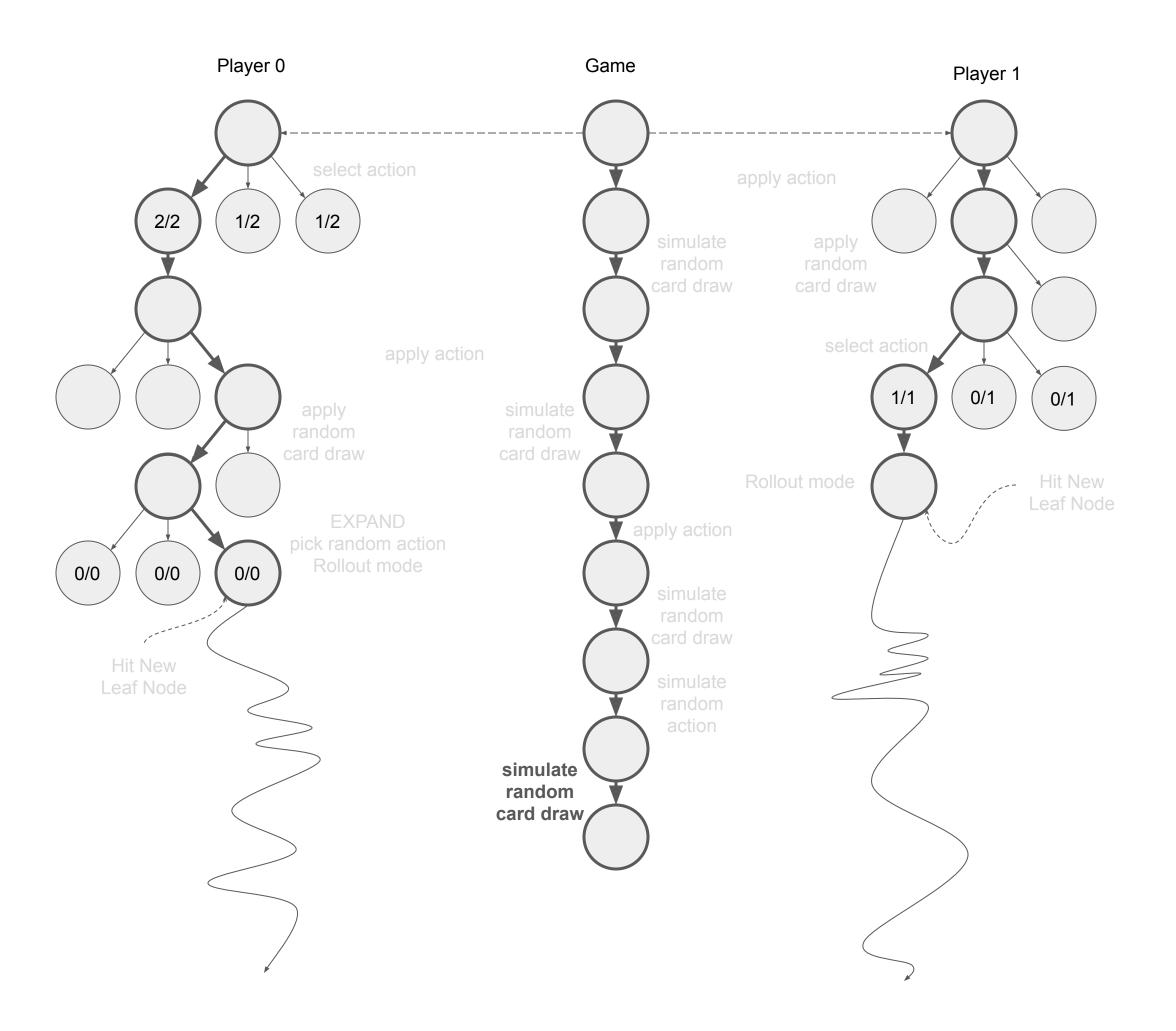
Slmulate a random game



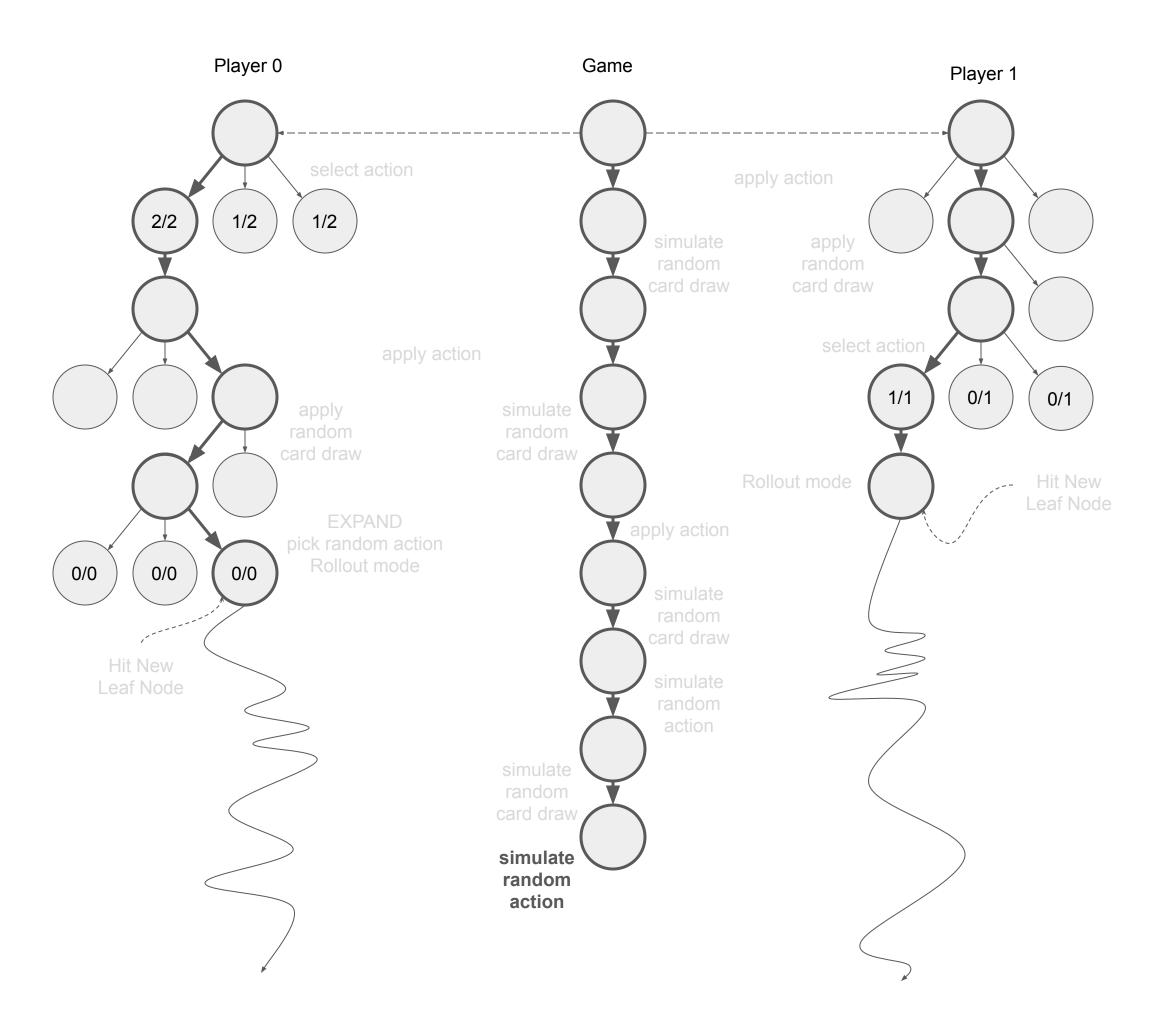
Slmulate a random game



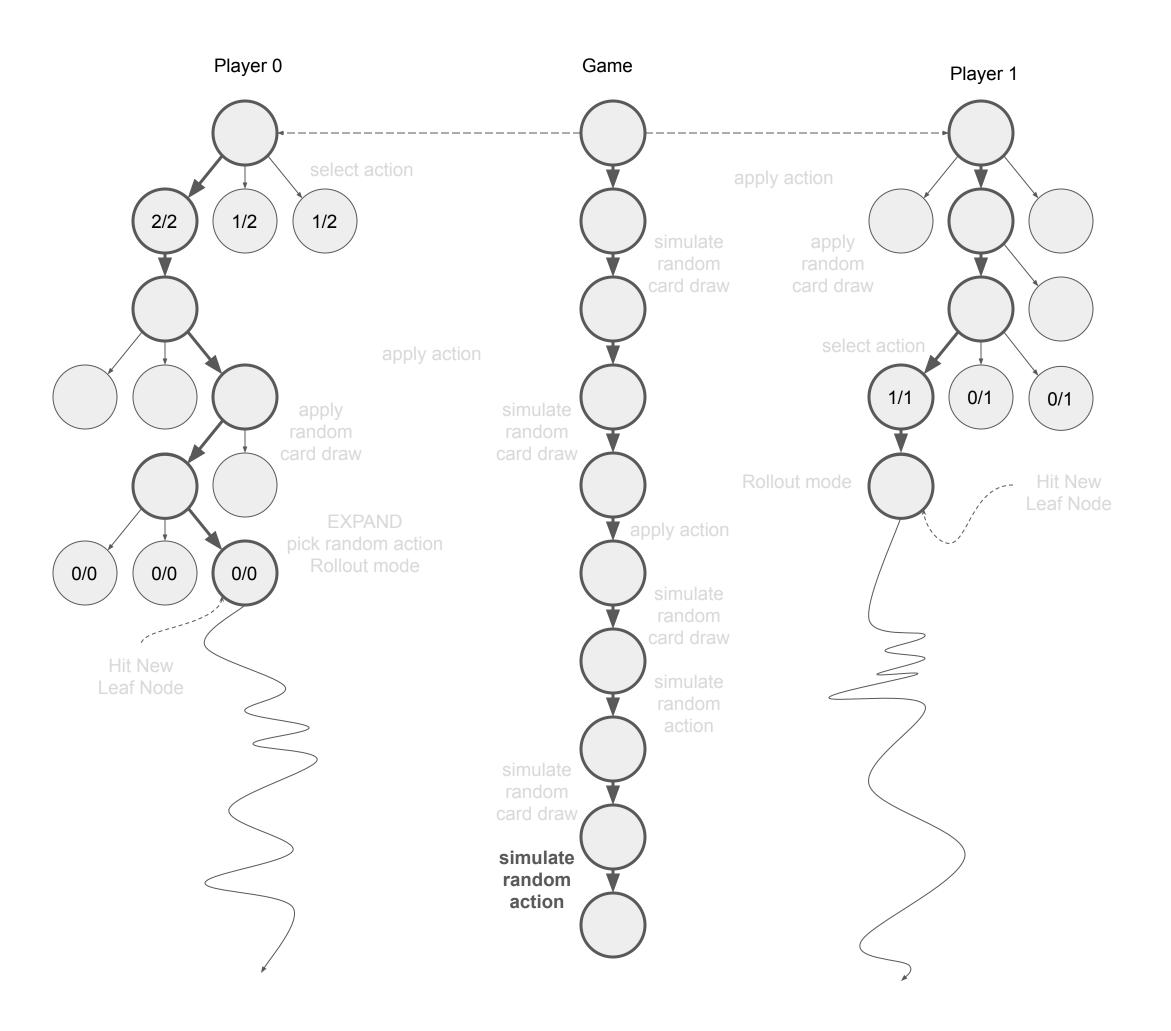
Slmulate a random game



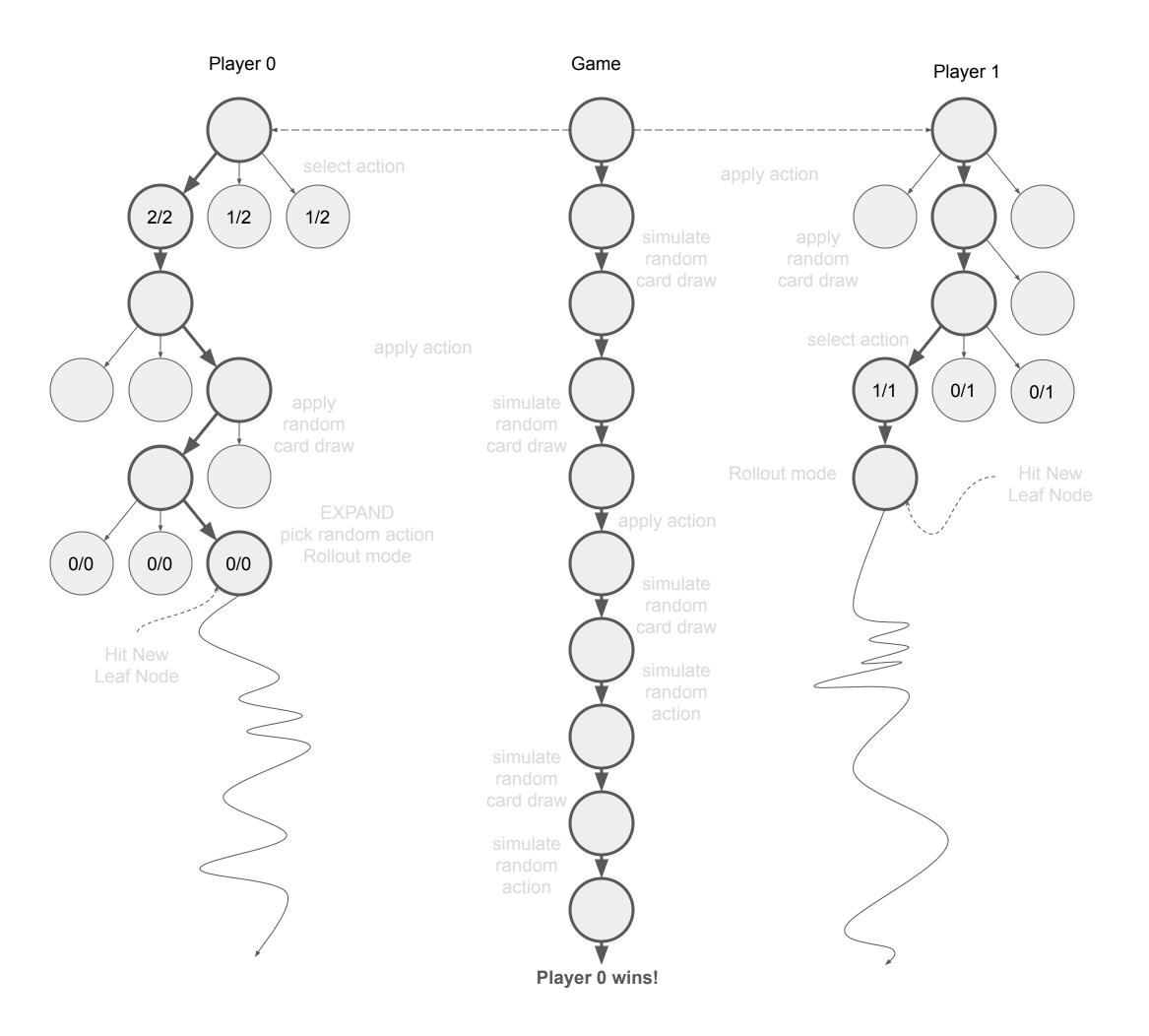
Slmulate a random game



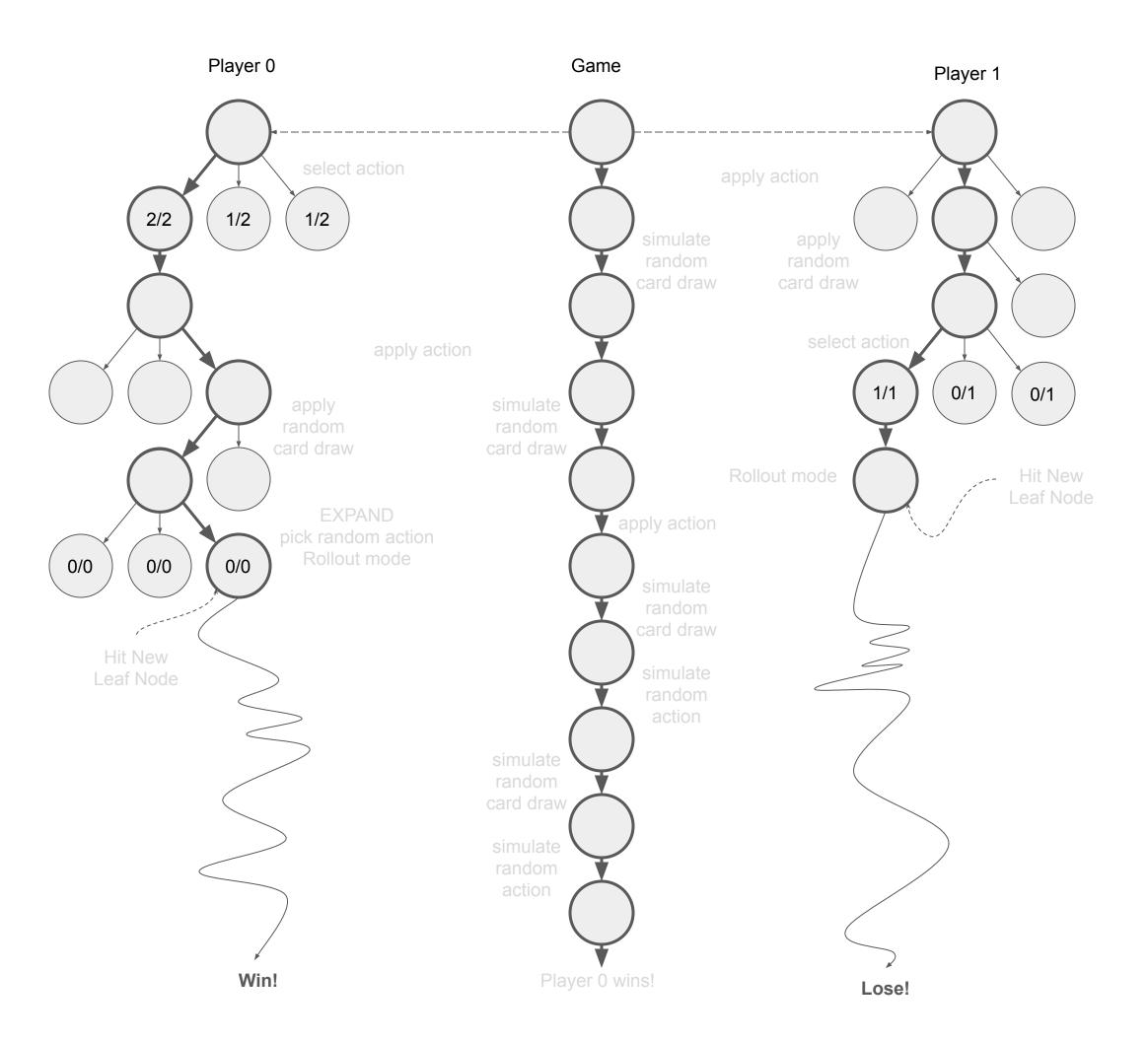
Slmulate a random game



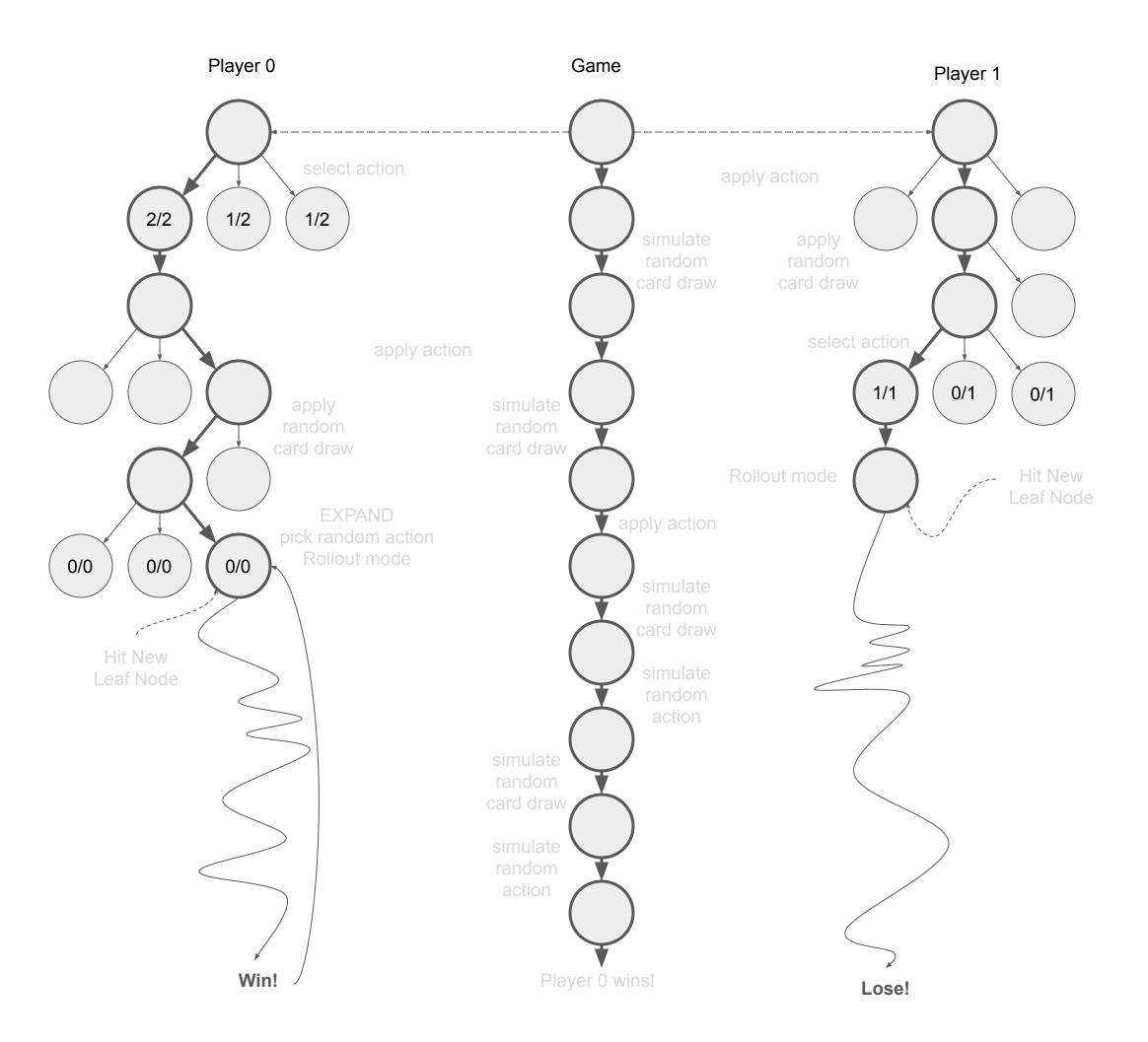
Slmulate a random game



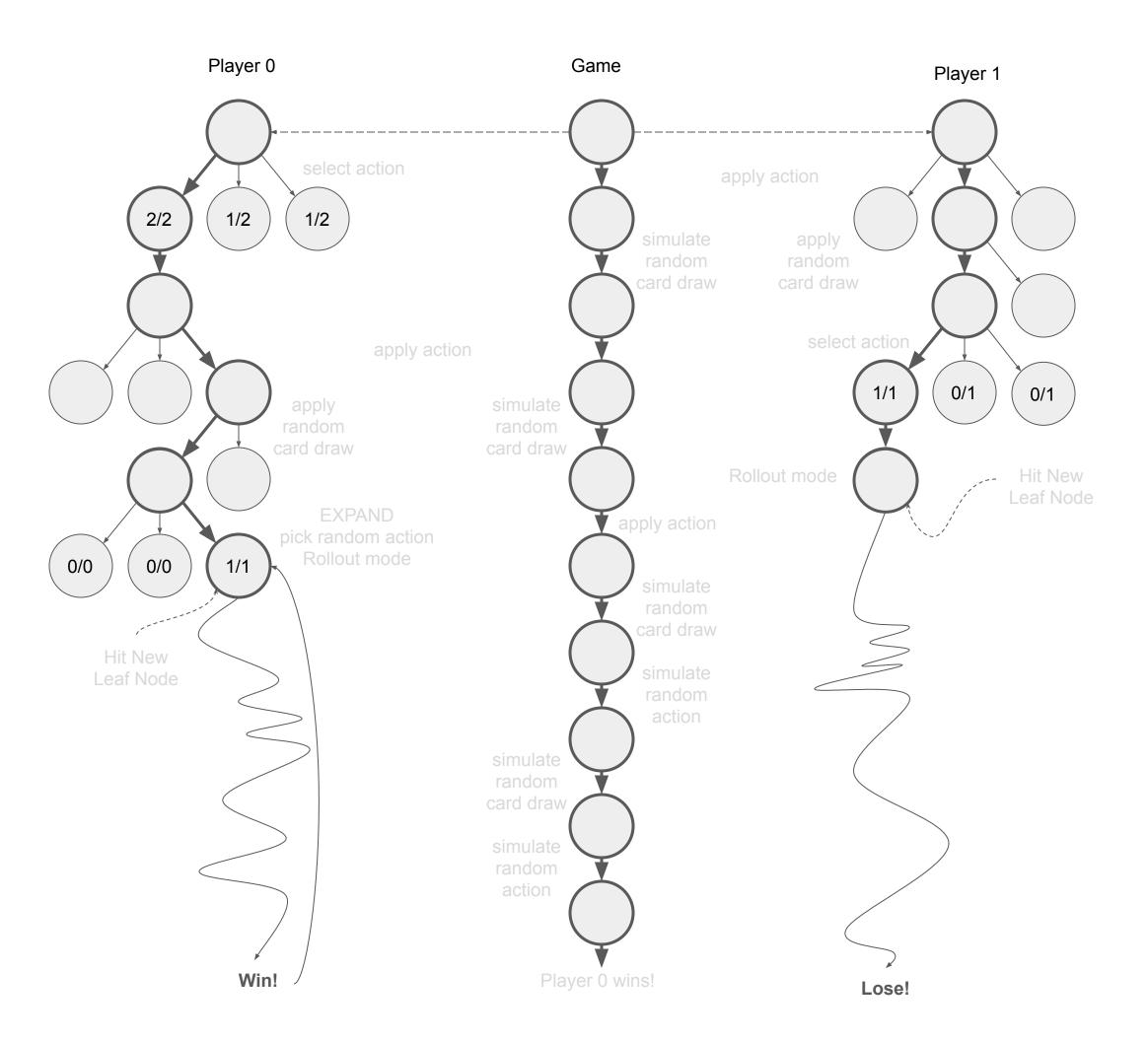
Slmulate a random game



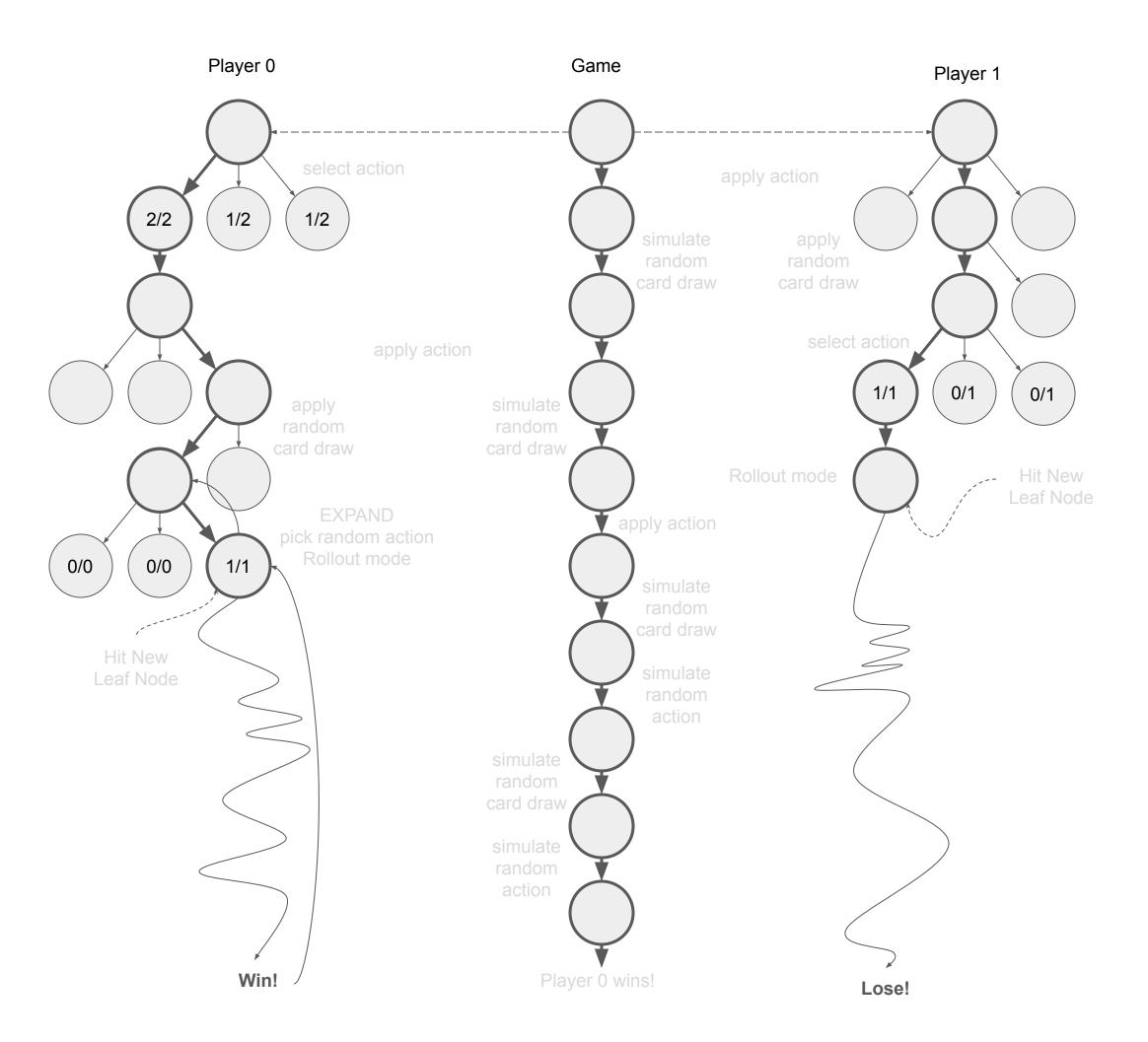
Backpropagate the win to the tree of player 0



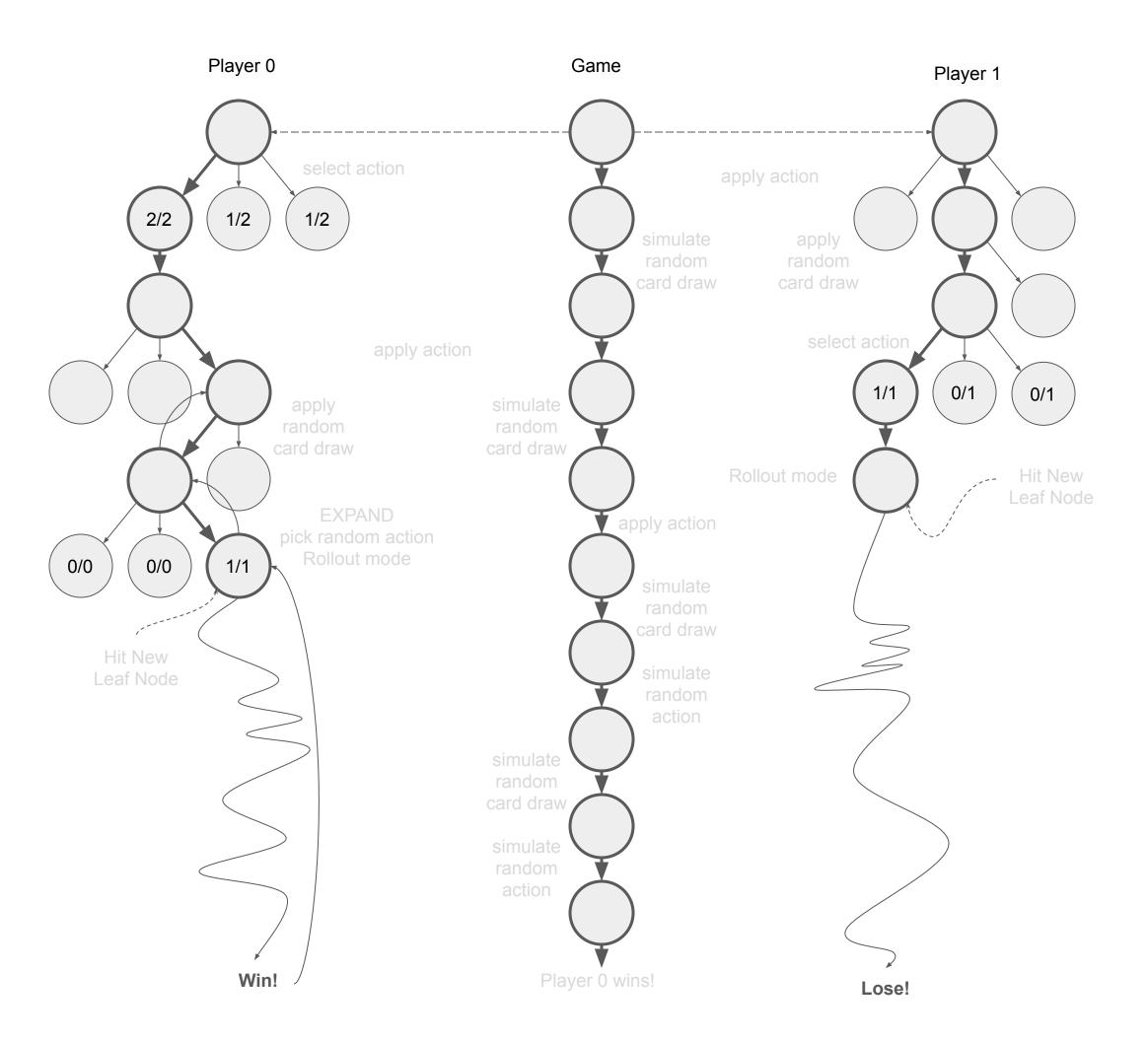
Backpropagate the win to the tree of player 0



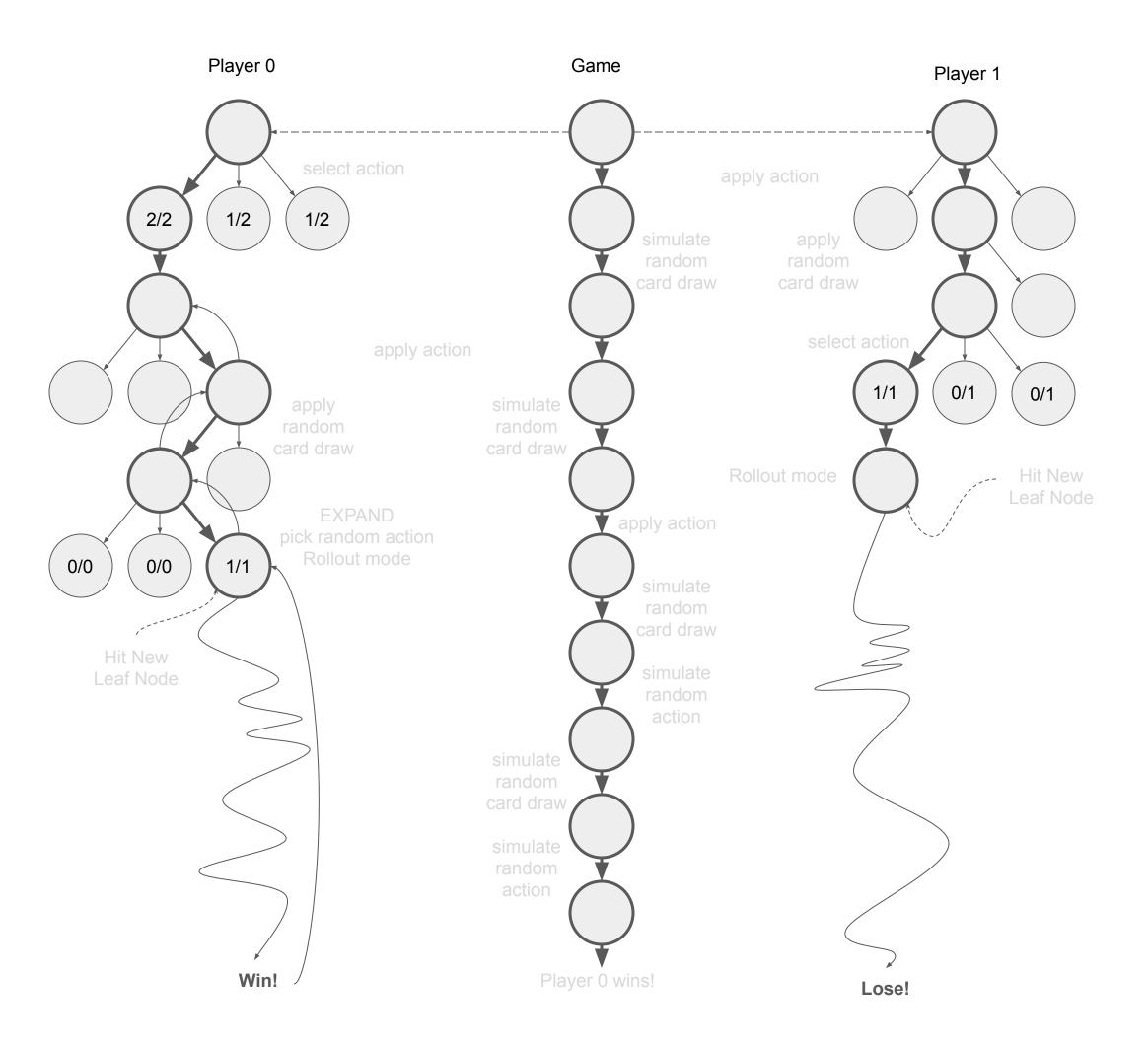
Backpropagate the win to the tree of player 0



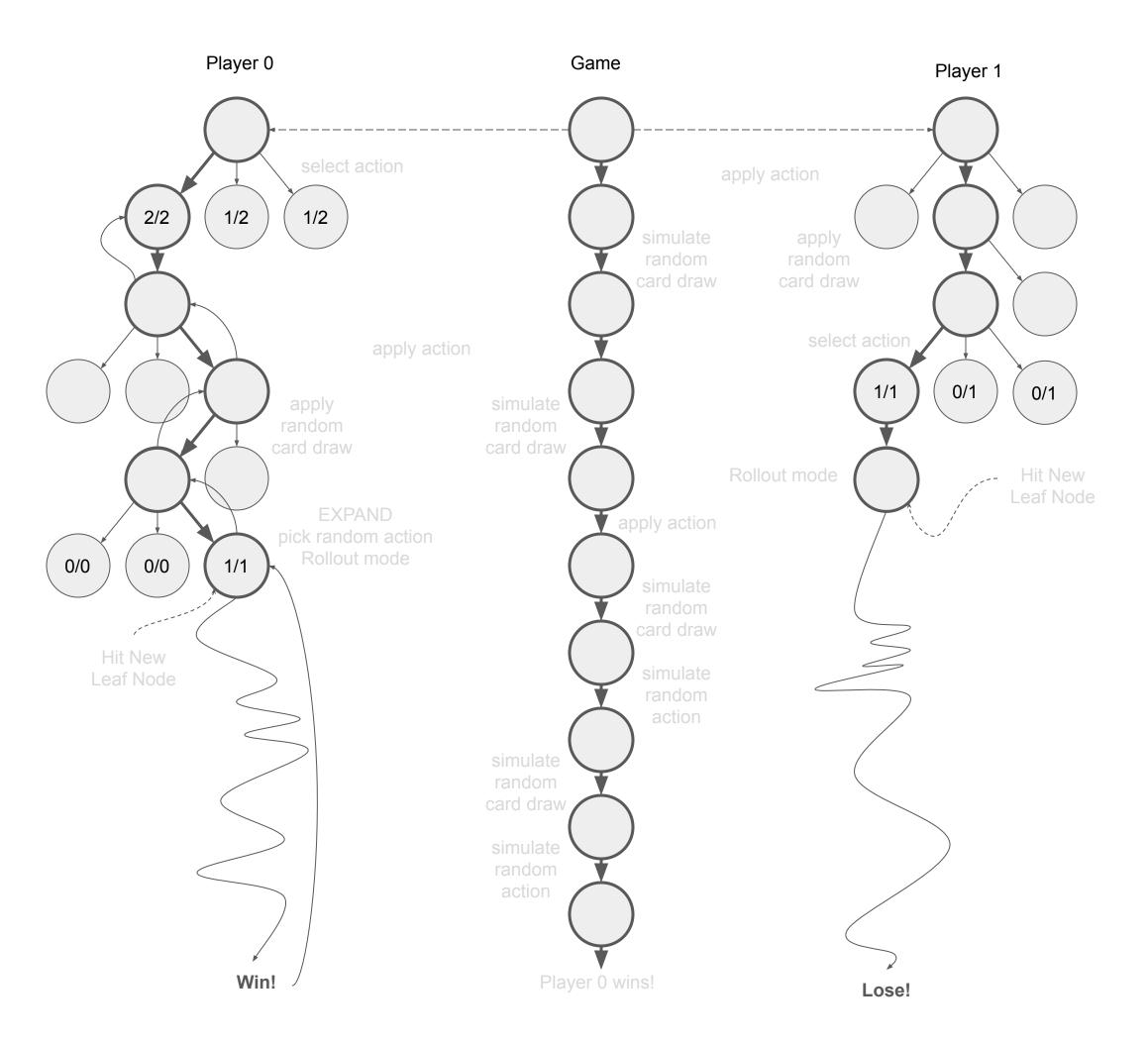
Backpropagate the win to the tree of player 0



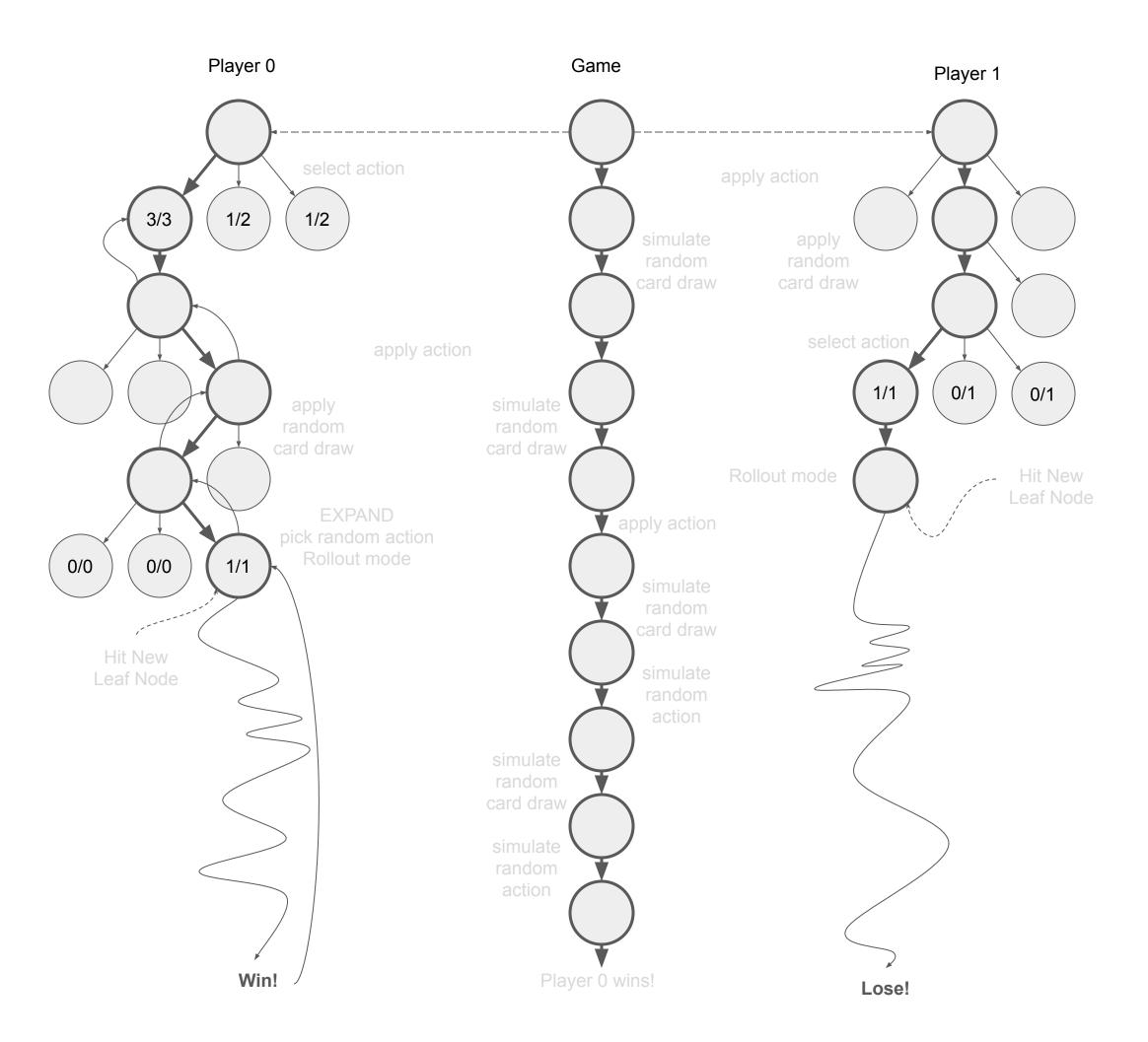
Backpropagate the win to the tree of player 0



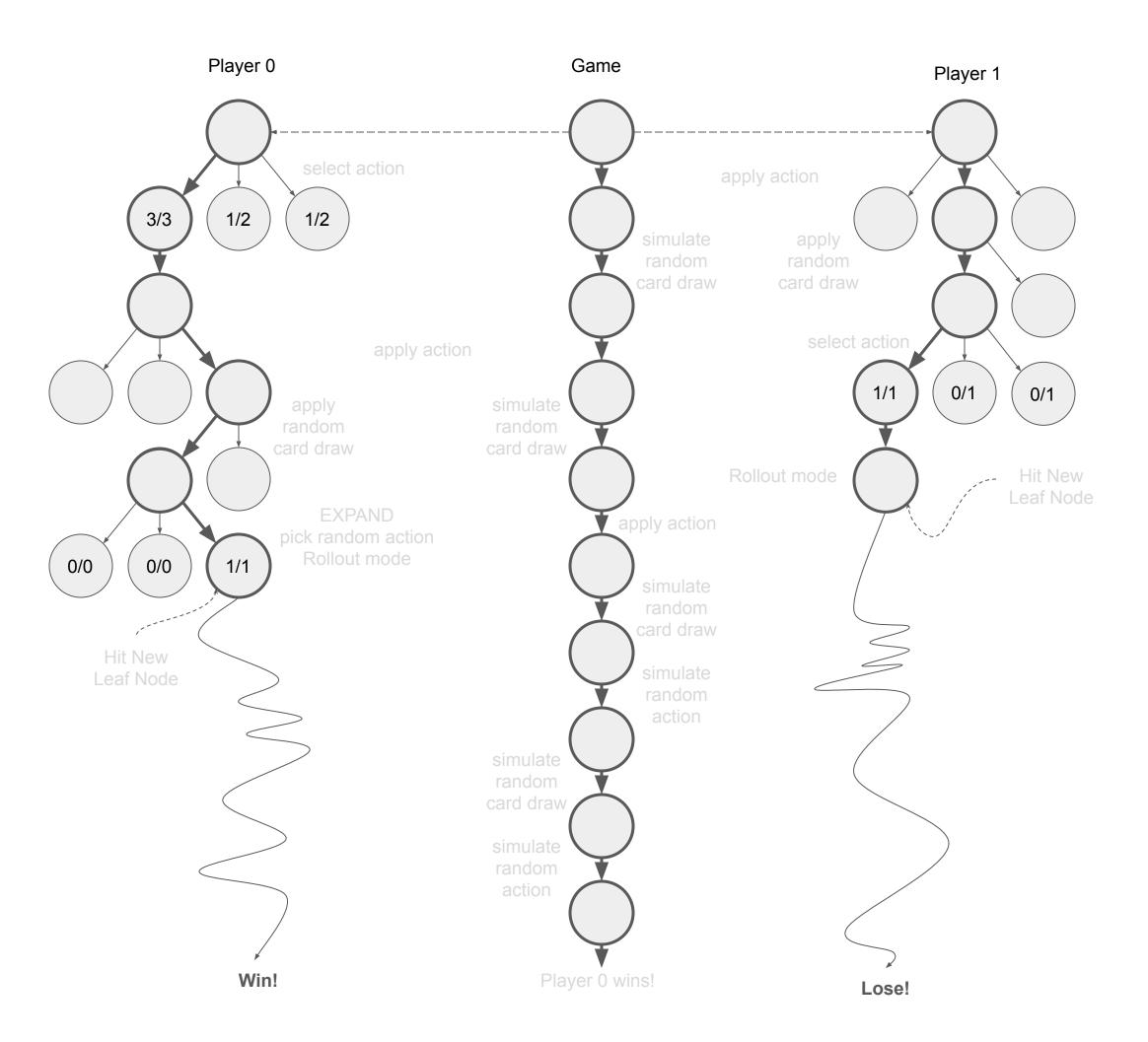
Backpropagate the win to the tree of player 0



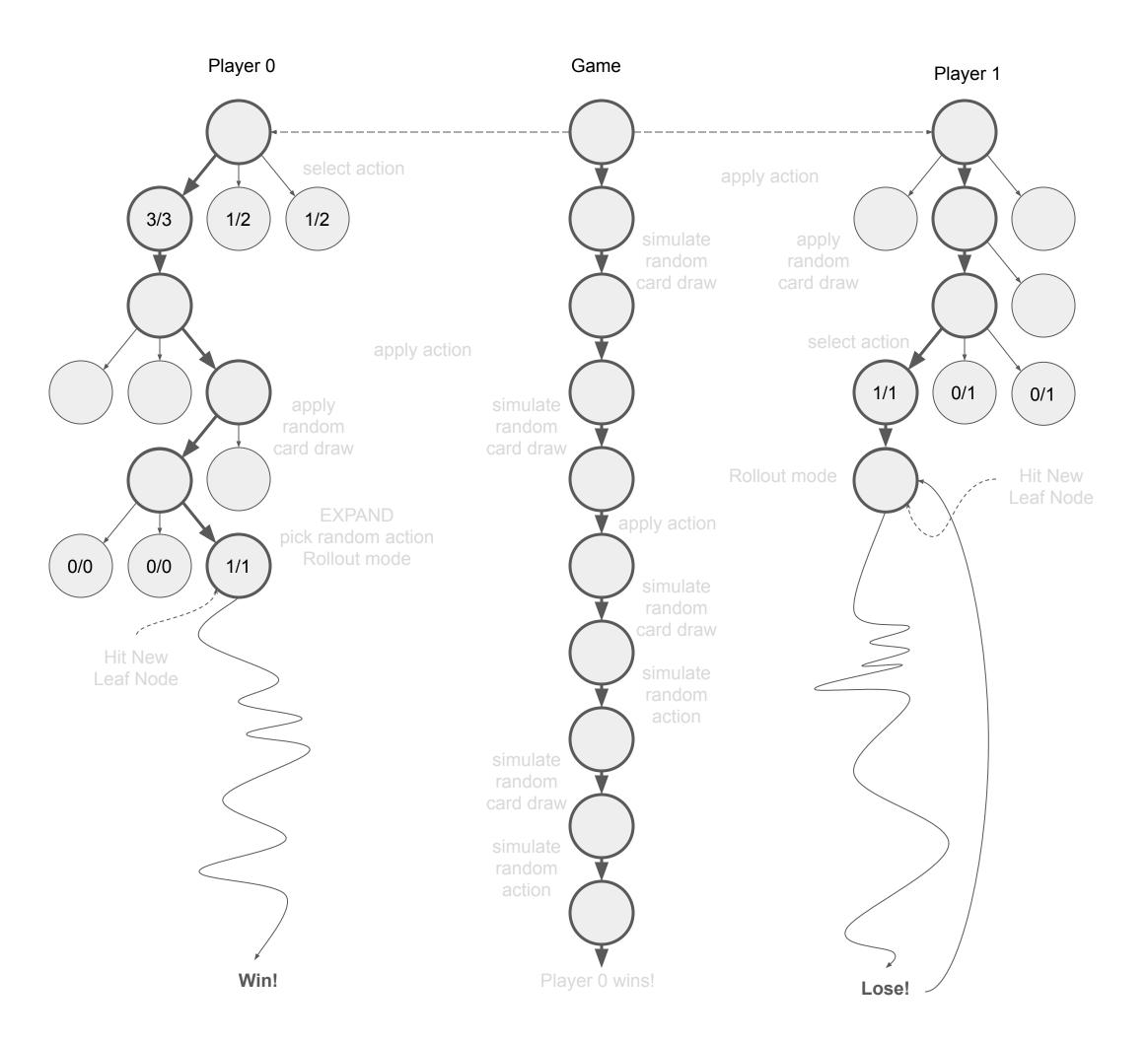
Backpropagate the win to the tree of player 0



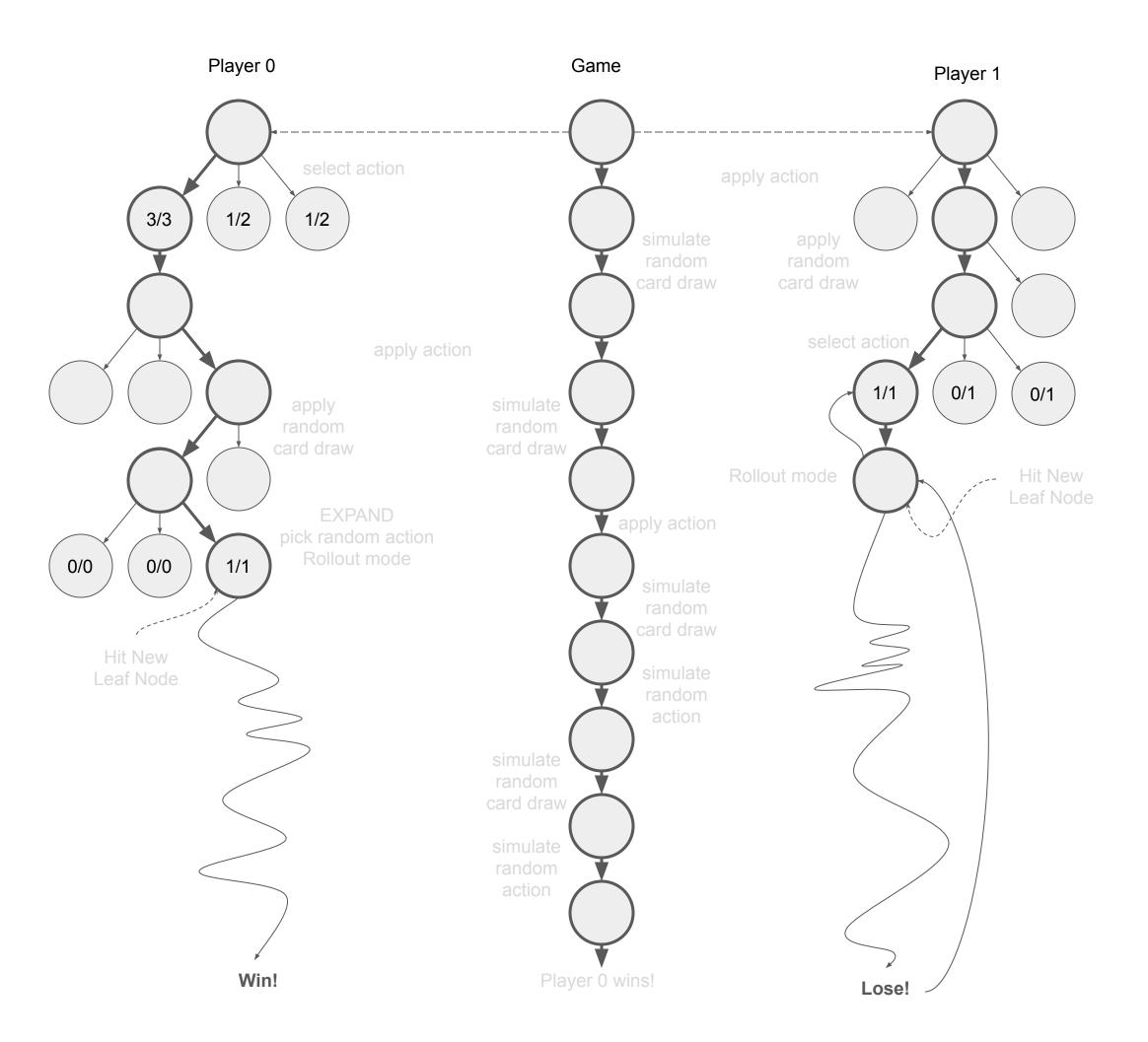
Backpropagate the win to the tree of player 0



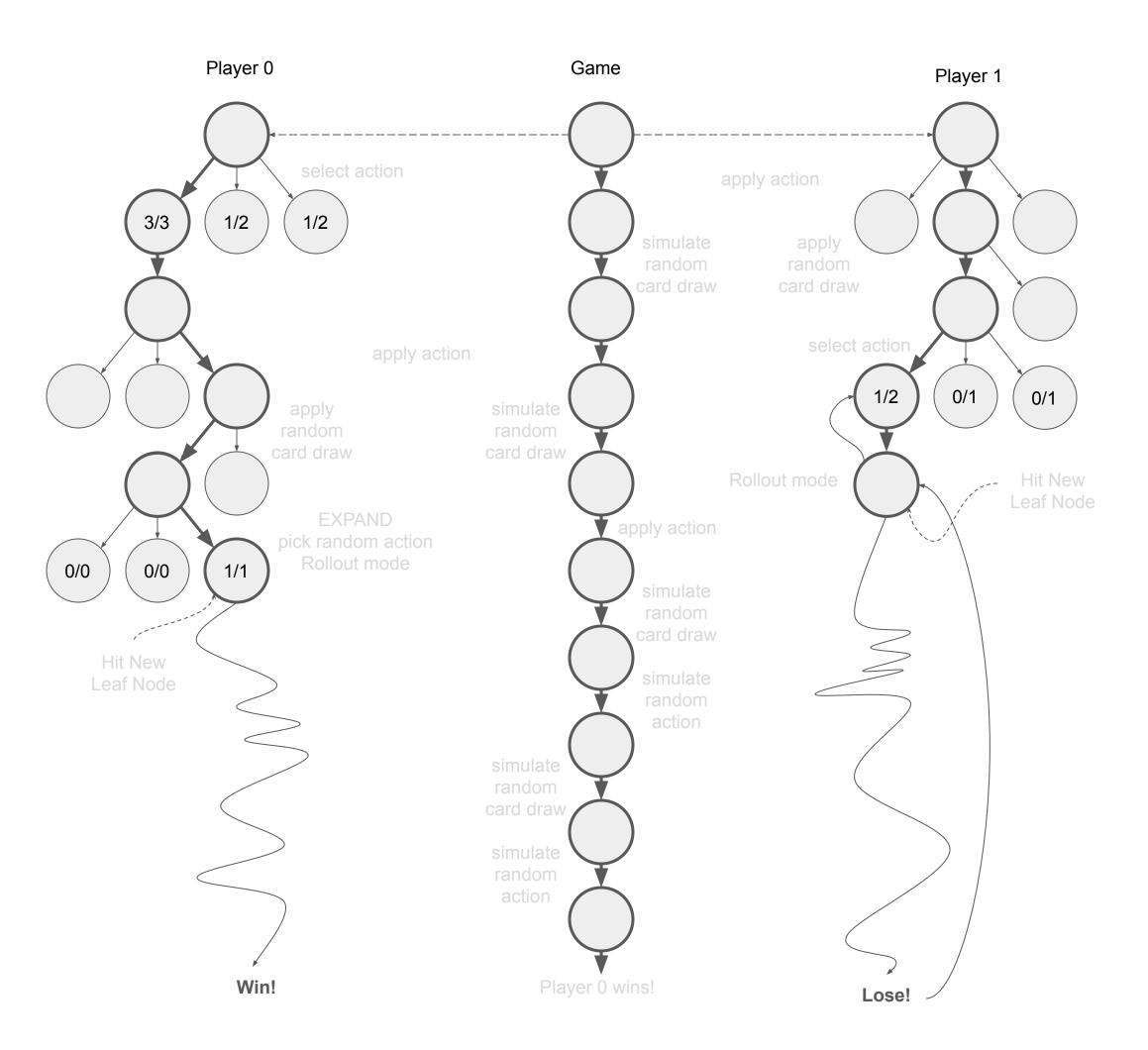
Backpropagate the loss to the tree of player 1



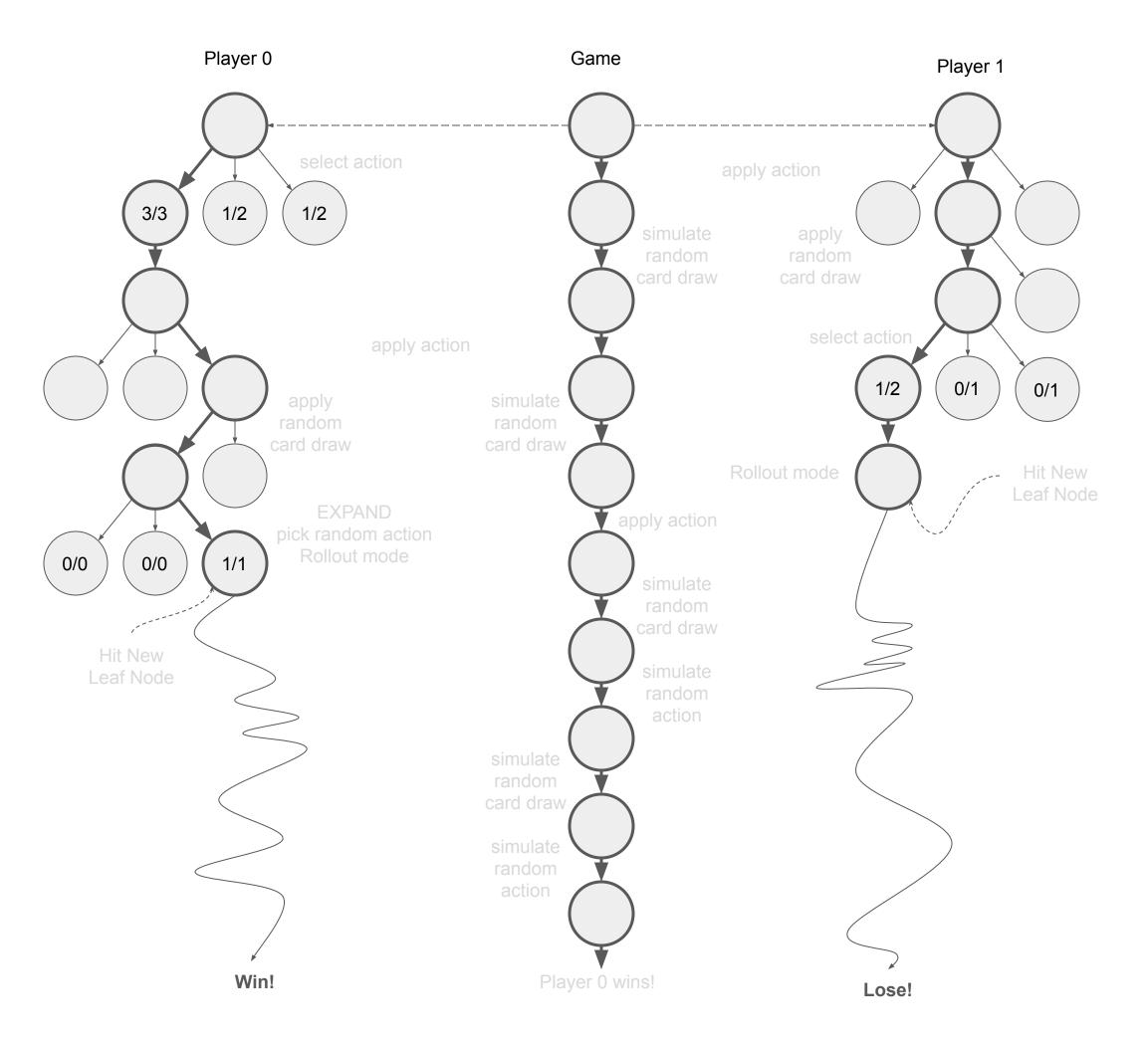
Backpropagate the loss to the tree of player 1



Backpropagate the loss to the tree of player 1



Backpropagate the loss to the tree of player 1



Repeat!