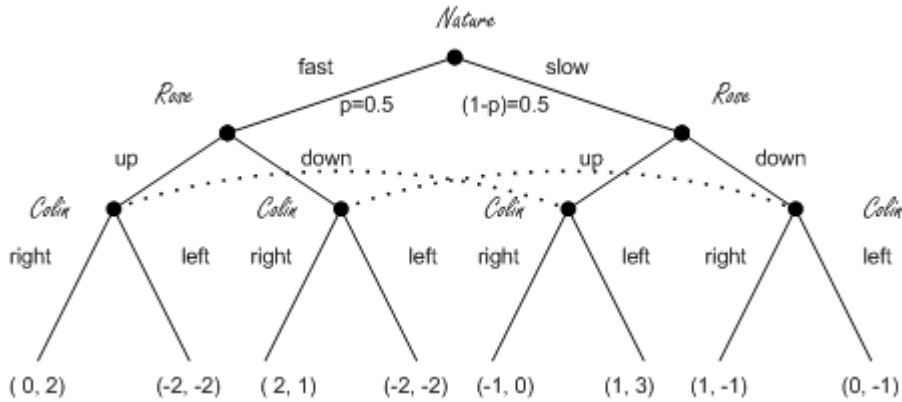


## Supplementary Problem Set

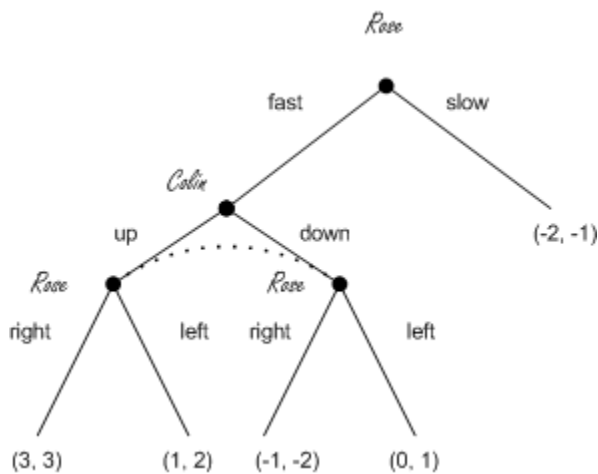
### Problem 1.

- Solve the following game tree in pure strategies.
- Did Colin learn anything useful from Rose's choice of strategy?



### Problem 2.

- Solve the following game tree, which in the latter part of the tree is a simultaneous move game. Note how Rose can choose to opt out of the game as a potential strategy.
- Is there also a mixed strategy solution to this game?



Problem 3.

- This game has the second moving player seeing the state of nature, but not the first-moving player. How should this be treated when solving?
- What are the strategy sets?
- Find the pure strategy Nash equilibrium of the following game based upon eliminating strongly dominated strategies.

