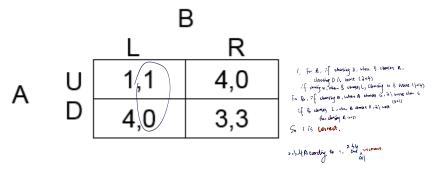
You need to give reasoning of how you derive your answers. No mark if no reasoning is given.

### Question 1

Read the following payoff matrix. Select the correct statement(s) below.



- (1.) Neither player A nor player B has a dominant strategy.
- 2. Player A has a dominant strategy D whereas player B has the dominant strategy R.
- 3. Only player B has a dominant strategy L. The best response of player A is strategy D.
- 4. Only player B has a dominant strategy L. The best response of player A is strategy U.

### Question 2

When multiple Nash Equilibria exist in a game, what should the players' action be?

- Need more external information to make decisions > Select the equilibrium with maximum payoff The description for this
- question is too general to
- 2/ Need more external information to make decisions

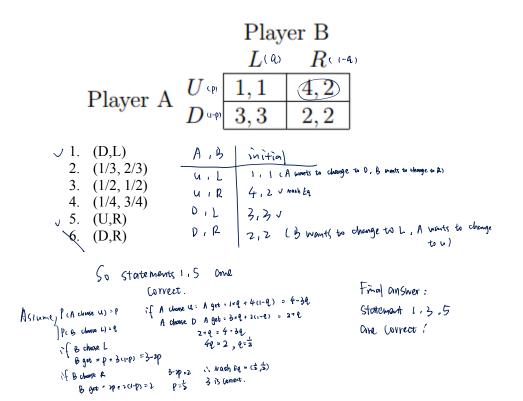
  3. There is no rule to predict on the unique choice of the players

  Another the outron.
- 4. Select the equilibrium with high payoff and low risk
- There might more powermeness

# which can influence the choice!

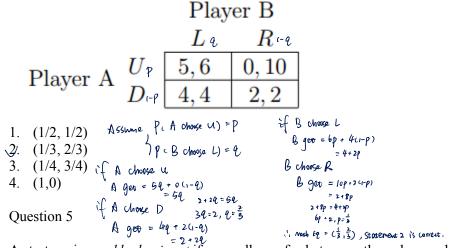
## Ouestion 3

Select all Nash equilibrium under the following payoff matrix



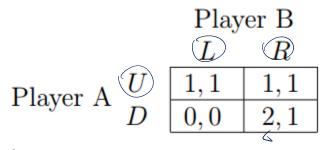
## Question 4

Select the Nash equilibrium for mixed strategy under the following payoff matrix.



A strategy is *weakly dominant* if, regardless of what any other players do, the strategy earns a player a payoff at least as high as any other strategy, and, the strategy earns a strictly higher payoff for some profile of other players' strategies. Hence, a strategy is weakly dominant if it is always at least as good as any other strategy, for any profile of other players' actions, and is strictly better for some profile of others' strategies.

Consider the following two questions with the following game



- 1. There exists Nash equilibrium
- 2. There exist Nash equilibrium using weak dominant strategy

Which of the following is correct in filling up the two questions?