

In-Video Quizzes Week 3

Practice Quiz, 2 questions

2/2 points (100%)

**Congratulations! You passed!**

Next Item

1 / 1
point

1.

Consider the game:

Player 1 \ Player 2	u	m	d
U	2,1	5,3	3,1
M	6,7	2,10	0,0
D	5,0	1,1	2,4

Which pair of strategies survives the process of iterative removal of strictly dominated strategies?



a) (U,u);



b) (U,m);

**Correct**

(b) is true.

- Check (a):
- u is dominated by m .
- M and D are dominated by U , once u is removed.
- d is dominated by m , once M and D are removed.



c) (M,u);



d) (D,d);

1 / 1
point

2.

Consider the game:

In-Video Quizzes Week 3

Practice Quiz, 2 questions

2/2 points (100%)

Player 1 \ Player 2	Movie	Home
Movie	3,0	1,2
Home	2,1	0,3

Which is a maxmin strategy for player 1:

☒ a) Play Movie;



Correct

(a) is true.

- Recall from lecture: $S_1 = \operatorname{argmax}_{s'_1 \in S_1} \min_{s_2 \in S_2} u_1(s'_1, s_2)$
- Regardless of player 1's strategy, choosing Home by player 2 minimizes 1's payoff:
- If 1 plays Movie, 1 gets 3 when 2 plays Movie and 1 when 2 plays Home;
- If 1 plays Home, 1 gets 2 when 2 plays Movie and 0 when 2 plays Home;
- Given 2 plays Home to minimize 1's payoff, 1 plays Movie to maximize the minimized payoff.

☐ b) Play Home;

☐ c) Play Movie with 1/2 and Home with 1/2;

☐ d) Play Movie with 1/3 and Home with 2/3.

