Feedback — In-Video Quizzes Week 3

Help Center

You submitted this quiz on **Wed 30 Jan 2013 8:10 AM PST**. You got a score of **2.00** out of **2.00**.

Question 1

3-2 Strictly Dominated Strategies & Iterative Removal

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?

Your Answer		Score	Explanation
a) (U,u);			
b) (U,m);	✔	1.00	
c) (M,u);			
d) (D,d);			
Total		1.00 / 1.00	

Question Explanation

(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.

Question 2

3-4 Maxmin Strategies

Consider the game:

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

Which is a maxminstrategy for player 1:

Your Answer		Score	Explanation
a) Play Movie;	✔	1.00	
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.			
Total		1.00 / 1.00	

Question Explanation

(a) is true.

- Recall from lecture: $S_1 = argmax_{s_1' \in S_1} \min_{s_2 \in S_2} u_1(s_1', s_2)$
- 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.