

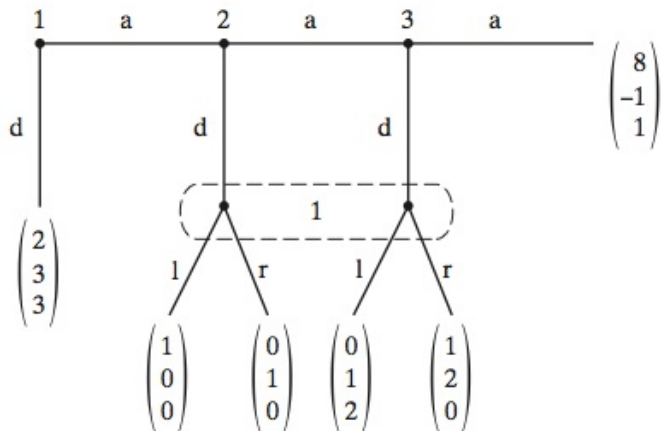
Microeconomics - Chapter 7

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Chapter 7: Game theory - Exercises

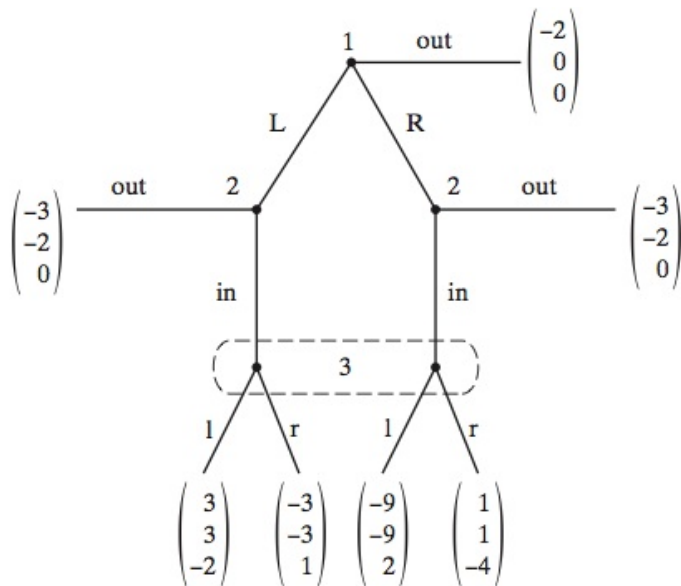
Exercise 7.48



Consider the extensive form game above. Each of players 1, 2, and 3 can play down (d) or across (a), and player 1 can also play left (l) or right (r).

- 1 Identify all subgames.
- 2 Find a pure strategy subgame perfect equilibrium, b , such that (p, b) is not sequentially rational for any system of beliefs p .
- 3 Find an assessment, (p, b) , that is sequentially rational and satisfies Bayes' rule in every subgame.

Exercise 7.49



Consider the extensive form game above.

- 1 Find a subgame perfect equilibrium in which player 1 plays out' with probability one.
- 2 Prove that there is no sequentially rational assessment in which player 2 plays out with probability one at each of his information sets.
- 3 Find a sequentially rational assessment satisfying Bayes' rule.

Exercise on Bayesian games

	BL	M
BL	$2 + t_1, 1$	$0, 0$
M	$0, 0$	$1, 2 + t_2$