Economics 316

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Problems for Tutorial 6

- 1. Consider the Traveler's Dilemma, discussed in the second class.
 - (a) Is any action of either player strictly dominated?
 - (b) Modify the payoff function: instead of *i*'s payoff being a_j − 2 if a_i > a_j (i = 1, 2), suppose that it is a_j − 1 − 0.01(a_i − a_j) if a_i > a_j (i = 1, 2). Is any action of either player strictly dominated in this modified game?
- 2. For the following game,
 - (a) find an action that is strictly dominated by a mixed strategy.
 - (b) find all the mixed strategy Nash equilibria.

	L	R
Т	2,3	2,3
М	3,1	0,0
В	0,0	7,2

3. [If time remains—otherwise this problem is an addition to Problem Set 6.] Consider a variant of the example of Bertrand's duopoly game with discrete prices in Problem 2 on Problem Set 2 where the total demand *D* is decreasing in price (but not necessarily linear) up to the price α , and D(p) = 0 for $p \ge \alpha$. Assume that $\alpha > c + 1$. Is the price c + 1 weakly dominated?