

MA 103Q Game Theory Problems 2

S. Schechter

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1. Problem 1a on p. 91 in “Game Theory and Strategy.” If both players use their dominant strategy, the outcome is $(3,4)$. This is not Rose’s best outcome. Can Rose make a promise or threat that will get her a better outcome?
2. Problem 1c on p. 91 in “Game Theory and Strategy.” This game naturally produces an outcome of $(2,4)$. This is not a very good outcome for Rose. Can Rose make a promise or threat that will get her a better outcome?
3. Problem 1d on p. 91 in “Game Theory and Strategy.” This game naturally produces an outcome of $(2,2)$. This is not a very good outcome for either player. Can Colin make a promise or threat, or a combination of promise and threat, that will get him a better outcome? Can Rose?
4. Problem 1e on p. 91 in “Game Theory and Strategy.” This game naturally produces an outcome of $(3,2)$. Can Colin make a promise or threat that will get him a better outcome? Can Rose?
5. In the Prisoner’s Dilemma, if each player uses his dominant strategy, the outcome is not very good for either player. Can either player alone get a better outcome by making a promise or threat?
6. Problem 3 on p. 92 in “Game Theory and Strategy,” parts c, d, e, f.