1. LP duals of matrix games. In lecture we derived these two linear programs that opposing players of a two-person, zero-sum matrix game would need to solve for their optimal strategies:

Show that these two problems are dual to each other.

- 2. Rock, Paper, Scissors.
 - (a) Derive the payoff matrix for the game Rock, Paper, Scissors.
 - (b) Numerically solve, using JuMP, each player's corresponding linear program. Verify that the solutions coincide with the obvious optimal strategy.

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