

**Homework.** Draw payoff matrices for the following games:

(a) Rock, Paper, Scissors<sup>1</sup>

(b) Matching Pennies<sup>2</sup>

Are there any good strategies for these games?

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<sup>1</sup>In Rock, Paper, Scissors, both players simultaneously make their hand into the shape of a rock (fist), some paper (flat) or some scissors (two fingers out). Rock beats scissors (it can smash them to bits), scissors beat paper (they cut it up), and paper beats rock (for some reason). If both players choose the same thing, the game is a draw.

<sup>2</sup>In Matching Pennies, both players have a penny, which they secretly choose to turn either heads-up or tails-up. The pennies are revealed simultaneously: if both pennies are the same way up, everyone wins, but if the pennies are different, everyone loses.