CIS 7412 Fall 2011 Homework 5

1. Consider the following interaction scenarios:



For each scenario in turn:

- Informally analyse the scenario to determine what each agent should do. (5 points)
- Classify the preferences that agents have with respect to outcomes. (5 points)
- Determine which strategies are strongly or weakly dominated (and explain why) (5 points)
- Use the idea of deleting strongly dominated strategies to simplify the scenario where appropriate. (5 points)
- Identify any Nash equilibria.
 (5 points)
- Identify the Pareto optimal outcomes.
 (5 points)

Note that the marks shown are those for the answer for *each* scenario, so overall the question is worth 90 points.

2. Describe a real-world situation that has the structure of the Stag Hunt game (you aren't allowed to describe either a hunting scenario, or the Haircut scenario discussed in the notes).

(10 points)