Problem set 1A (B will be next week)

1. A) For the sea otter version of the kidnapping (pup-napping) game diagrammed in class as an extensive form game, write out payoffs for all players (ignore the pup and assume its fitness is under the mom’s payoffs).
   B) Solve the game of perfect information by backwards induction (e.g., assume not information sets that span two or more nodes).

2. A) For the IRAQ-UN-US game of WMD, we wrote out a game for IRAN-UN-ISRAEL. Write out the payoffs for Israel in the IRAN-UN-ISRAEL game. Are Israel’s payoff similar to our different from the US payoff described in the Harrington the same as Israel’s payoff in IRAN-UN-ISRAEL game. Explain your answer.
   B) This question is similar to Pr. 7 in Harrington. Write out the strategy sets for all players in the IRAN-UN-ISRAEL game.

3. Draw the EFG of the rock-paper-scissors game.

4. Ques. 9 from Harrington.

5. Ques. 10 from Harrington.

6. Who are your group members. Brainstorm and come with a list of possible (N=5) games that you might work on during the quarter.