

Iterated Prisoner's Homework

Name _____, Section _____

Results

You now have 5 experiments from each student in your group. Complete the following table using the data each of you generated. The group must decide on the appropriate measure to aggregate across the trials; i.e., do you want to use average profits of the human player, total profits across all trials of the human player, win-loss records of the human player, or something else?

Tournament Results: Group Results

		Computer			
Human	Random	Cooperate	Tit-for-Tat	Tit-for-Two-Tats	Un-forgiving
Random					
Co-operate					
Tit-for-Tat					
Tit-for-Two Tats					
Un-forgiving					

Provide a justification for the measure you use to aggregate the individual results. What are the advantages of your measure? The disadvantages?

Which strategy did the best using your measure? What explains why that strategy did the best?

Which strategy did the worst using your measure? What explains why that strategy did the worst?

Where any of the strategies particularly good at inducing both players cooperating (in a non-cooperative environment) and thus avoiding the prisoner's dilemma? Why might that strategy work to induce cooperative behavior by the other party?

Can you devise a strategy you think would perform better for the human player? What would the strategy be? Why do you think it will work; i.e., explain how it improves the score earned by the human player.