

Name: _____ is going to be "Player A" in this game

Name: _____ is going to be "Player B" in this game

In-class activity

Game theory

You and your partner will each get pieces of paper that say "C" and a "D" on them. You will use those pieces of paper to repeatedly play the following simultaneous-move game.

		Player B	
		C	D
Player A	C	1, 1	-1, 2
	D	2, -1	0, 0

Play that game 10 times. Each time, **pick out the piece of paper corresponding to your desired move...hide it from the other player until he/she picks out his/her desired move ...reveal your moves to each other...and then record your moves and payoffs** in the table below. After playing the game 10 times, add up the total of your payoffs over the 10 rounds.

Round	Player A's move	Player B's move	A's payoff	B's payoff
1	C or D	C or D	-1, 0, 1, or 2	-1, 0, 1, or 2
2	C or D	C or D	-1, 0, 1, or 2	-1, 0, 1, or 2
3	C or D	C or D	-1, 0, 1, or 2	-1, 0, 1, or 2
4	C or D	C or D	-1, 0, 1, or 2	-1, 0, 1, or 2
5	C or D	C or D	-1, 0, 1, or 2	-1, 0, 1, or 2
6	C or D	C or D	-1, 0, 1, or 2	-1, 0, 1, or 2
7	C or D	C or D	-1, 0, 1, or 2	-1, 0, 1, or 2
8	C or D	C or D	-1, 0, 1, or 2	-1, 0, 1, or 2
9	C or D	C or D	-1, 0, 1, or 2	-1, 0, 1, or 2
10	C or D	C or D	-1, 0, 1, or 2	-1, 0, 1, or 2
Total of payoffs to Player A and B, respectively:				

Another activity for later (likely not tonight). Don't worry about this side yet

Other things being equal, if...	more or less likely to always cooperate?
"a," the reward to mutual cooperation, is bigger	MORE or LESS likely to always cooperate
"c," the temptation to defect, is smaller	MORE or LESS likely to always cooperate
"d," which is the payoff when both players defect, is smaller	MORE or LESS likely to always cooperate
" δ " is closer to one so there's more weight on future payoffs	MORE or LESS likely to always cooperate
"p," the probability the game continues to the next round, is closer to one	MORE or LESS likely to always cooperate