4. [For everyone] After reading section 1.1.B. of Gibbons, generate three random 2-player games with both players with 3 strategy-choices, and pay-offs between 0 and 3, and eliminate, BY HAND, as many strategies as you can, until you are left with a possibly smaller game (i.e. bimatrix). Is it ever a 1 by 1 bimatrix?

Player 2							
(FI)		A	B	С			
\odot	Player	ני, וכ	[3,0]	[0,2]	D		
	1	[3,0]	5,03	[1,2]	Ы		
		[3,2]	[2, 1]	[0,2]	F		
					-		

Here, player 2 has a strictly dominated strategy: B is dominated by C since 250, 250, 271. Elimanate B.

and a second	
<u>A</u> <u>C</u>	
Player [1,1] [0,2] D	
1 [3,0] [1,2] E	
[3,2] [0,2] F	

Now, player I has a strictly dominated Strategy: D is dominated by E since 3>1, 1>0 Eliminate row D. Player 2 A C Player [3,0] [1,2] E [3,2] [0,2] F

There is no more strictly dominated strategies so this cannot be reduced.

- Player 2						
(# 2)		A	B	C		
	Player	[2,2]	[0,3]	[2,2]	D	
	1	[3,1]	[2,0]	[0,2]	E	
		[0,0]	51,13	E1,2]	F	

While we do not have a strictly dominated strategy for either player, we have a dominated strategy for Player 2: A is dominated by C since! 222, 231, 230 Eliminate column A.

 Player
 A

 B
 C

 Player
 [0,3]
 [2,2]
 D

 I
 [2,0]
 [0,2]
 E

 [1,1]
 [1,2]
 F

Here, player I does not have a dominated strategy. We cannot reduce this any longer.

_	- Player 2						
(#3)		A	B	C			
	Player	[1,3]	[3,2]	[1,0]	D		
	1	50,03	[2,3]	[3,0]	E		
		[2,1]	[2,3]	Co, 13	F		

Here, player 2 has a strictly dominated strategy: C is strictly dominated by B. 220, 320, 370

Eliminate C.

	Player	- 2		
	A	B	_	
Player	[1,3]	(3,2)	D	
1	50,03	[2,3]	E	
	[2,1]	[2,3]	F	

Player I has a strictly dominated strategy: E is strictly dominated by D since 078,071 Eliminate E. Player 2 A B Player [1,3] [3,2] D 1 [2,1] [2,3] F

There are no more strictly dominated strategies so the iteration stops.