

0	<p>You're playing a game where you have to coordinate with a friend. Each of you can choose to bring 1 coin or 0. The coins you bring will be flipped, and if neither of them come up tails, you both win. You are not able to communicate with your friend. It would be easy if you could collude - one would bring a coin, and the other would not, giving you a 50% chance of winning -- but you do not have this luxury. What's the probability that you win, if you play optimally? Assume you can't do any weird acausal coordination stuff etc.</p>	
1/3	1/3 with the best strategy we know, but there might be better strategies	

4	<p>Of the strategies allowed by the question, does the best one consist of both players bringing the coin with some independent prob P?</p>	
Yes	It's not clear - there might be other types of strategies that do better	

10	<p>If there is no communication allowed beforehand and no weird acausal coordination allowed, is the best strategy to both bring the coin with 2/3 independent prob?</p>	
Yes	It's not clear - there might be other types of strategies that do better	

12	<p>If there is no communication allowed beforehand and no weird acausal coordination allowed, is the best strategy for each player of the form "bring coin with prob P"?</p>	
Yes	It's not clear - there might be other types of strategies that do better	

20	<p>Does this leave only joint strategies of the form "bring the coin with prob P"?</p>	
Yes	It seems fairly likely, but we're not certain - there's no good argument that this is the only type of strategy	