

Beth Ronny

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List of Debates

Hide notes

Side: None

Phase: **Make Argument** Remaining: 10:00

At root

Q

(H)

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. But if neither of you brings a coin, you both lose. 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.

H

1/3

D

1/3 with the best strategy we know, but there might be better strategies

Notes

Q

Of strategies that involve both players bringing the coin with some prob P, does the best one result in a win 1/3 of the time?

H

Yes

D

Yes (assuming they bring the coin independently)

1 Payment: H ☐ D ☐ None ☒ Recurse

Notes

Q

In the class of strategies that involve you both bringing a coin independently with the same probability p, does the optimal strategy give win rate 1/3?

H

D

Yes

2 Payment: H ☐ D ☐ None ☒ Recurse

Notes

Q

Of the strategies allowed by the question, does the best one consist of both players bringing the coin with some independent prob P?

H

Yes

D

It's not clear - there might be other types of strategies that do better

4 Payment: H ☒ D ☐ None ☐ Recurse

Notes

Q

Is there a good argument that this is the only valid class of strategies that are in the spirit of the question?

H

I think so

D

No

3 Payment: H ☐ D ☐ None ☒ Recurse

Notes

Q

Could there be other types of strategies that are in the spirit of the question and give a higher win probability?

H

I think it's unlikely

D

Yes, it's definitely possible

5 Payment: H ☐ D ☐ None ☒ Recurse

Notes