Qi Xia Go feat

(Note: I don't remember the names so I will call it whatever I want it is)

[Game 1]

The loser guy brings Qi Xia to play a so-called luck game.

When Qi Xia asked Loser Guy what animal the person who is presiding over that game was.

He said Pig. And now Qi Xia starts doubting, the animals are related to the type of game according to his guess. Such as an Ox game being related to strength.

[ A pig is among one of the most intelligent animals in the world, how could its game be a luck game? ]

Here Qi Xia already shows some good thinking skills which puts him on average human level ensuring that he isn't an idiot unless there will be anti-feats.

Pig Head man explained the rules of the game.

-There are 100 Go stones, fifty black stones and fifty white stones.
-Qi Xia must distribute the stones into two bowls according to his choice.
-After this, Qi Xia would wear a blindfold and Pig Head man would shake the bowls to counter the memorizing stones or using patterns tactics. Ensuring drawing is totally random.
-Qi Xia must draw a black stone among all the stones in these two bowls.

After Pig Head man explained the rules, Qi Xia already knew of the loophole. Which showcases that he has decent pattern recognition and understanding of logic.

The strategy is:
-put 49 black stones in bowl 1
-put 50 white stones in bowl 1
-put 1 black stone in bowl 2

This way, if you managed to get lucky and pick bowl 2. You have a 100% chance of getting a black stone, meanwhile if you manage to get unlucky and get the first bowl you still have near 50/50 chance of winning.

Overall this shows that Qi Xia has a good understanding of probabilities. Increasing his chance of winning from 1/2 to around 75%

Next, Qi Xia took two stones from both bowls. If he had taken only 1 stone in bowl 1 that would only give him around 50% chance in that event, but choosing from both bowls gives him 100% chance that there is at least one black stone among these two.

Pig head man was speechless, Qi Xia interpreted that this was because Pig Head man was very shocked which means both stones are black.

So Qi Xia wins.

[Game 2]

After losing, Pig Head guy immediately declared a death match with Qi Xia which according to rules is impossible to evade from.

The new game is:

-This time, there are two bowls again but Pig Head Man is the one to choose where to put all the stones this time. So of course he made it 50/50
-Lin Qiong and Loser Guy will stand on the sides as Liar and Truth Teller.
-Both can only answer in colors.
-They will die if they don't do their role.
(There is a supernatural lie detector)
-Liar can only lie, and Truth Teller can only tell the truth.
-Qi Xia can only ask once.

And so the game begins again, Qi Xia gets a blindfold.

Qi Xia convinces Pig Head man to draw stones for him. By saying something like “you should also play the game, if you just do nothing it feels like I am the only one playing”
Which resonates with Pig Head man’s emotions, that Qi Xia took advantage of.

-The Pig Head man will choose two stones for him.
-Qi Xia promises that he will choose among the two stones he picks.

Now Pig Head man immediately fell into a dilemma, he can choose two white stones and assuming Qi Xia will pick between the two. Qi Xia's probability of losing is 100%

But he thought that Qi Xia will just eliminate the two stones and choose again, now that two white stones are discarded this increases Qi Xia’s probability of getting a blackstone.

So what if Pig Head man chose two black stones instead? Since Qi Xia will eliminate it thinking it is white stone. But once again, what if Qi Xia anticipates this?

Therefore, the Pig Head man chose both white and black stone. Making the chance 50% in both scenarios.

Qi Xia actually foresees this, because he understood that Pig Head man was not willing to risk it.

Qi Xia chose one stone, he then asked Lin Qiong.

“What would Loser guy say if I asked him what stone I am holding?”

Lin Qiong lies and she answers white.

Qi Xia declared that what he was holding was a black stone, took off his blindfold then explained how he reasoned this.

Scenario 1: Lin Qiong is a liar, that means the loser guy is a truth teller. And loser guy will say black, so Lin Qiong must say white.

Scenario 2: Lin Qiong is a truth teller, that means the loser guy is a liar and the loser guy will answer white. Therefore Lin Qiong must say “White”

In both cases Lin Qiong will have to lie, which means the answer is black.
If what Qi Xia held was white, then Lin Qiong would similarly say black either way, which means Qi Xia should switch since he knew that Pig Head man chose both stones.

Verdict: Qi Xia is a Yuichi victim