

The first point where I started piecing things together was when I considered the item Shannon found and the purple truth Nanjo gave confirming the deaths of the other people, which made me think that there was a trap involved for Nanjo's murder. What convinced me was that Battler gave the purple truth that the three of them would've seen anyone passing by, and the fact that "30 minutes" before Nanjo's death was specified. The fact that two people confirmed that there was no weapon inside the room also helped.

At this point, my theory was that someone left their room and set up a trap outside the bathroom before returning, which matched with the truth. Then, it was a matter of realizing that only Nanjo could've locked the door, and for that to be true, Beatrice had to be lying that he died instantly. After checking through the rest of the statements to make sure nothing contradicted this theory, I was sure that I had the right culprit.

I tried to solve the third murder next, but ended up with the theory that Beatrice was the one who screamed, and ran over to stab Shannon before anyone was aware. I thought this up because the timing on who went towards the body first wasn't clear. Well, I put down this wrong answer and went to the first murder.

Once I settled on Beatrice as the culprit, I looked through the purple truths again for the first murder. The simplest answer was that the culprit just pretended to unlock one of the doors, so I checked those. The possible points were the dining hall and game room. For the game room, Erika's statement was that the door was locked before Beatrice unlocked it, which would have easily been fulfilled if Beatrice locked the door when she found it, which ended up being the truth. I also considered wordplay with what exactly constituted "this morning" with the dining hall, but all of the other characters would've made sure that the door was locked. So, I worked my way backwards with the game room and got the answer.

For the third murder, I kept trying to make my solution fit, but no dice. The clue that helped me wasn't the coin, but the way Shannon's corpse was described, especially the position of her legs. That made me think "Maybe Beatrice just crawled under the seats? It would explain why Battler didn't see her, right?". I put that in and that was it.