Hi ,

I hope you are doing well! Please find below how I found the game went and how I played as well as what I want to improve and what I think the EV is.

Quickly about the first two games : How high a boeing 747 flight and the Johnny Depp net worth.

How high a Boeing 747 flight ? I had in mind around 10km giving 33k feet. The first market was 30k-40k and then some people made a market above 40k so I tried to sell as soon as it went above 40k. I was not fast enough so I managed to sell only once, ended up making 5k Pnl.

Johnny Depp net worth: For this one, I had no idea, I thought it was quite high as he is famous but my strategy was just to listen to others and try to make small arbitrages which I managed to do because I bought at 165 and sold at 220 in a small amount of time. After Ash gave another hint, some people made a really cheap market so I bought at 20 as I thought it was above 100. I ended up making a positive PnL in this quick game.

Dice Game:

During the game, there was different part where I think it went well and other where I think I made mistakes. At the beginning, given the high probability of a power 0 or 1 and a constraint to have a 50 wide market, I wanted to make a market 1-51. I was not the one who started and it started at 50-100. My first mistake and what I need to improve is that I was influenced, I need to stay confident and I should have sold immediately. This is what I did after when I sold at 40 and 70 (see table). After the two 4, I thought that the EV was higher so I started to buy high (50-60). I think that it made sense to buy to balance a bit my “portfolio” but buy 2 at 60 was too much. At the end, I knew the different outcomes, that’s why I bought at 15 and sold at 30 as the mean was around 20. By the way, this was an arbitrage because the market moved from buy at 15 to sell at 30 really fast.

To conclude, I lost money due to some mistakes + the worst-case scenario. Indeed, I was long overall and it ended up with a payoff of 1. What I could improve is being faster, I lost many occasions to buy or sell because I was too slow, many times during the game, there was small arbitrage and I only got one.

You can see below the table of my transactions as well as my final PnL. In addition, I calculated the distribution (attached), the mean, the median, the std, the min and the max payoff at the beginning as well as after each dice has been thrown.

|  |  |  |  |
| --- | --- | --- | --- |
| Quantity | Price | Action | Counterparty |
| -1 | 40 | Sell | Joel |
| -1 | 70 | Sell | Lareina |
| 1 | 50 | Buy | Fatou |
| 2 | 60 | Buy | Joel/Fatou |
| 1 | 15 | Buy | Fatou |
| -1 | 30 | Sell | Joel |

Final value:1; PnL: -44

At the beginning :

*mean*: 43.19498028120713,

*median*: 7.0,

*std*: 415.65001869542044,

*max*: 46656,

*min*: 1

After 1 have been thrown :

*mean*: 20.50025720164609,

*median*: 7.0,

*std*: 82.93939604055306,

*max*: 2401,

*min*: 1

After 1-4 have been thrown :

*mean*: 16.570987654320987,

*median*: 7.0,

*std*: 34.59395719389704,

*max*: 625,

*min*: 1

After 1-4-4 have been thrown :

*mean*: 28.00462962962963,

*median*: 9.0,

*std*: 51.92859214604449,

*max*: 625,

*min*: 1

After 1-4-4-1 have been thrown :

*mean*: 24.72222222222222,

*median*: 9.0,

*std*: 28.09271466562017,

*max*: 100,

*min*: 1

After 1-4-4-1-1 have been thrown :

*mean*: 22.666666666666668,

*median*: 20.5,

*std*: 16.21384867602041,

*max*: 49,

*min*: 1

Thanks and Regards,

Adrien