

Lab 2

Recap : random variable

In this Lab:

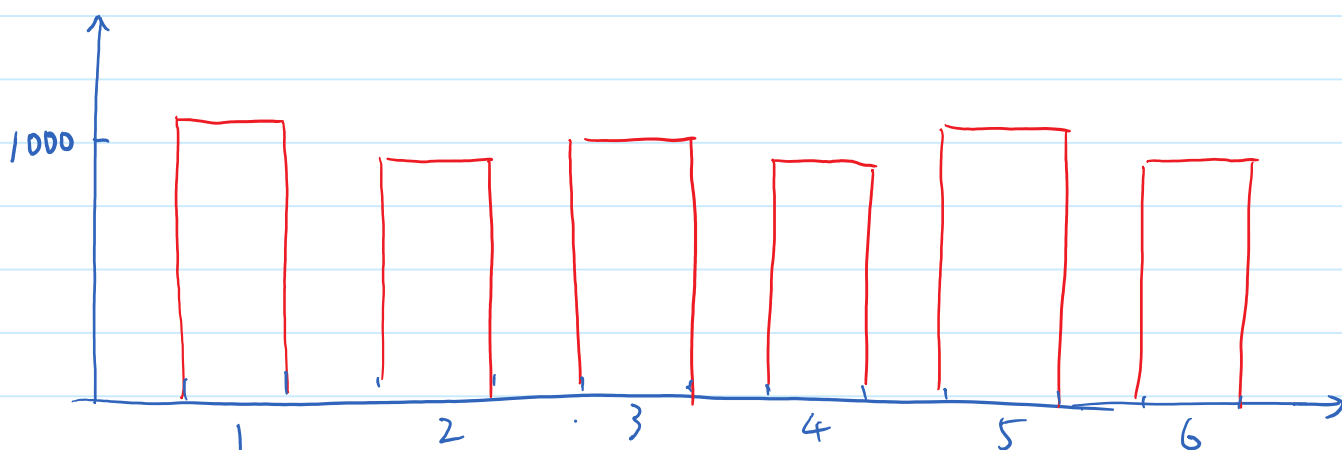
- Random variate
- Histogram
- LLN
- Monty Hall Problem

Random variate

random variate vs random variable

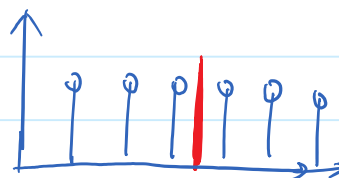
Histogram

Toss a fair die 6000 times



Law of Large Numbers

- What would the graph be like when we toss more and more times?
- The mean of a random variable μ .



- $$\frac{X_1 + \dots + X_n}{n} \rightarrow \mu \text{ as } n \rightarrow \infty$$

Monty Hall Problem

Prepare three cups and a candy.

Play this game with the students in lab.