

# Problem4

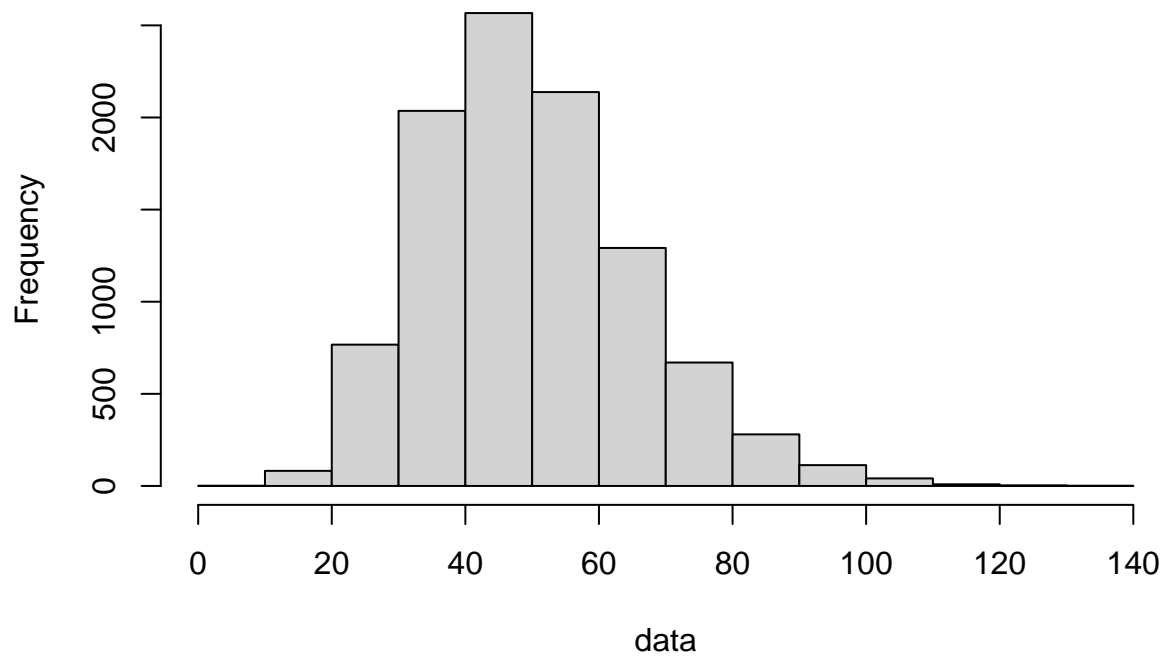
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**a replicate**

```
data = replicate(10000, sum(rexp(10, 0.2)))  
hist(data)
```

**Histogram of data**



similar to binomial distribution

looks

**b coin toss**

```
data = replicate(10000, max(rle(rbinom(50, 1, 0.5))$lengths))  
mean(data)
```

```
## [1] 5.9872
```