Part 1: Simulation Exercise Instructions

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Overview

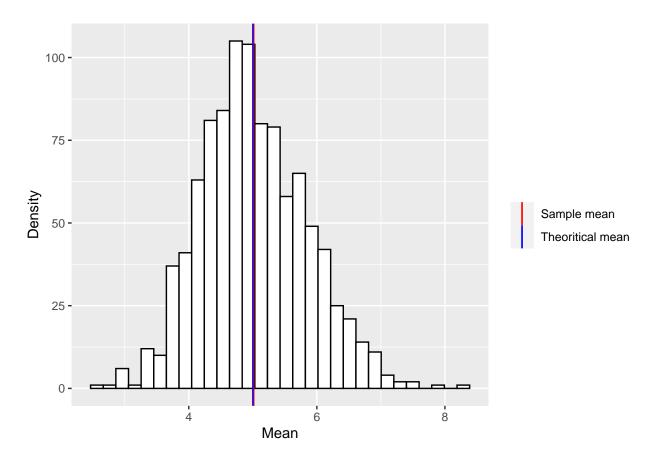
Simulations

```
library(ggplot2)

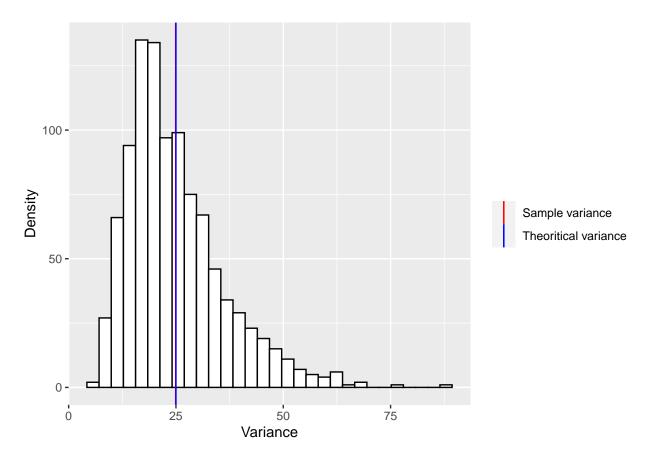
set.seed(23)
sim <- 1000
n <- 40
lambda = 0.2

mns = NULL
vrs = NULL
for (i in 1 : sim) {
   rnd = rexp(n, lambda)
   mns = c(mns, mean(rnd))
   vrs = c(vrs, var(rnd))
}</pre>
```

Sample Mean versus Theoretical Mean



Sample Variance versus Theoretical Variance



Distribution

