SI_PG_Coursera

Pratik Mohanty

10/19/2020

```
ECHO=TRUE
set.seed(1337)
Lbda = 0.2
e_x_p_o_nen_tials = 40
simulationmeans = NULL
for (i in 1 : 1000) simulationmeans = c(simulationmeans, mean(rexp(e_x_p_o_nen_tials, Lbda)))
mean(simulationmeans)
## [1] 5.055995
Lbda<sup>-1</sup>
## [1] 5
abs(mean(simulationmeans)-Lbda^-1)
## [1] 0.05599526
var(simulationmeans)
## [1] 0.6543703
(Lbda * sqrt(e_x_p_o_nen_tials))^-2
## [1] 0.625
abs(var(simulationmeans)-(Lbda * sqrt(e_x_p_o_nen_tials))^-2)
## [1] 0.0293703
library(ggplot2)
## Warning: package 'ggplot2' was built under R version 3.6.3
```

Warning: Ignoring unknown parameters: arg

sim plot scenes

