ECE 358 Networking Lab 1

# Question 1

The equation of PDF for the exponential random variable is the following.

In CDF, the equation changes to the following.

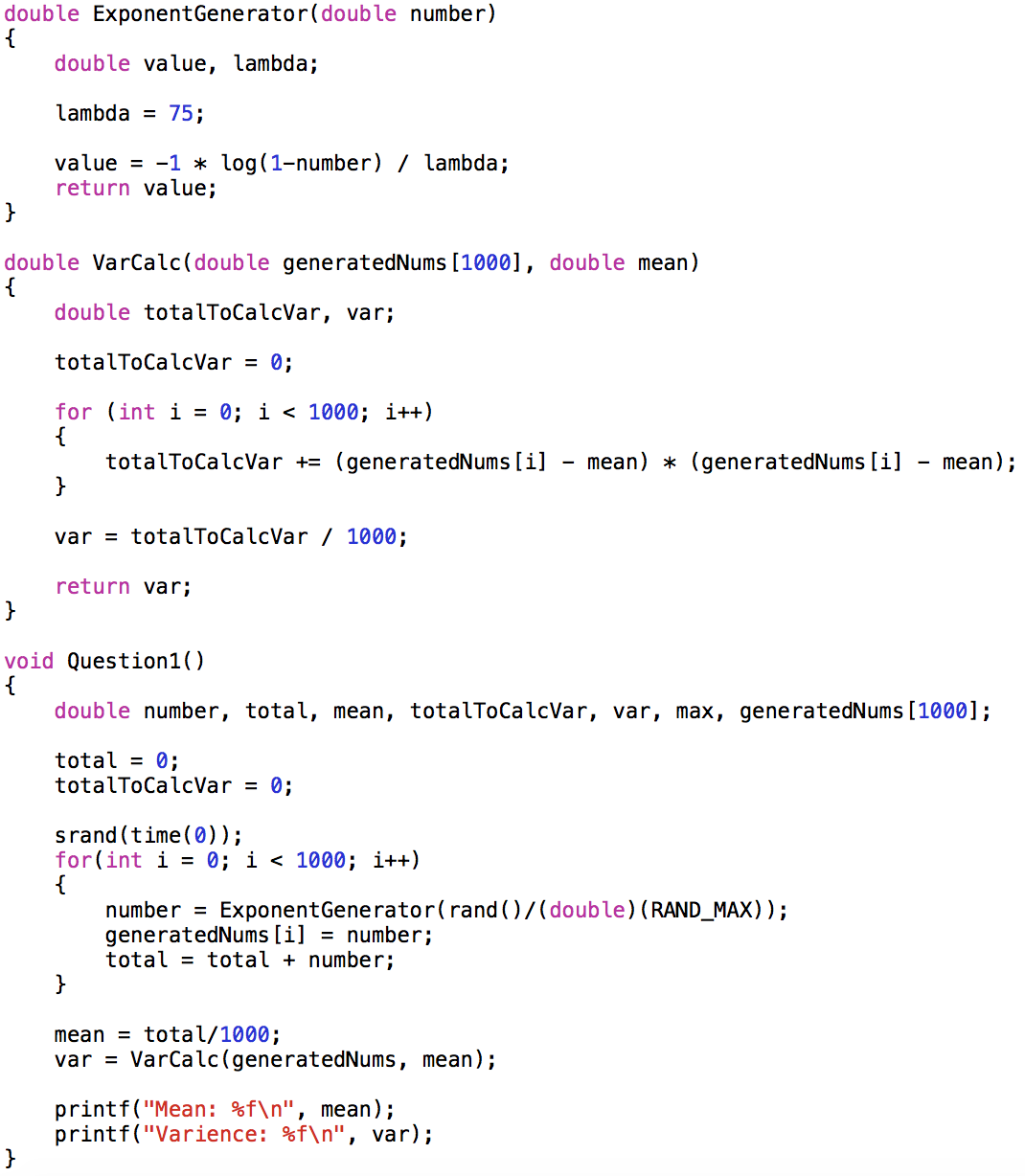


Figure 1. Exponential Generator



Figure 2. Mean and Variance of the Generator

I agree with the mean and variance. The expected mean of the exponential generator with is , which is 0.01333. The percent error is 2.82%. The expected variance of the exponential generator with is , which is . The percent error is 1.8123%.