1 RNG Independence

Suppose you have two different random number generators of uniform U(0,1) random numbers. How might you statistically test whether the two RNGs are independent of each other?

2 K-S Testing

It is frequently the case that in a simulation we want to sample a random number that essentially is Gaussian, but must be positive. Write (or generate) a script using Python that generates such random numbers, explore how the mean, standard deviation, and number of samples impact the outcome of a K-S statistic test that accepts or denies the hypothesis that that data is from a pure Gaussian distribution.