Simulation Flow Charts

The objective of simulation is to estimate population mean or proportion with the grant mean and the standard deviation of MonteCarlito (not its standard error) and the grant proportion of MonteCarlito.

Case 1: Given: Demand D to Estimate Profit/Loss

Case 2: Given: Demand D and Variable Cost to Estimate Profit/Loss

Case 3: Given: Inventory Level Q, Demand D, and Variable Cost to Estimate Profit/Loss

Case 4: Given: Inventory Level Q, Order Quantity q, Reservation/Booking, Demand D, and Variable Cost to Estimate Profit/Loss

Case 5: Queue or Waiting Line

Simulation Overview:

n = 0

Yes, n < 500

Simulation

n = n + 1

n < 500 ?

No, n = 500

k < 10 ?

No, k = 10

Grand Mean Standard Deviation and Grand Proportion

Yes, MonteCarlito

No, Busy

Service Start Clock Time

Si = F(i-1)

Waiting Time Wi = Si - Ai

Record Finish Clock Time Fi

Time in System = Fi - Ai