## variables:

C = # of customers who don't buy anything, T: time horizon

Nt = toy inventory at time t

Update Method

-Mithelite t=0, C=0, N=4

- while t < T

1) generate to: customer arrival time  $\sim$  poisson ( $\lambda$ ) can use invest transform

- 2) t += tc
- 3) if t>T - break out of while loop
- 4) generate de: customers number of toys wants to buy follow rules of P;
- 5) if dc > N: - C+=1: update who # who have left whout buying

else:

-N -= de: semare de units from inventory

6) if N==0:

N=10: restock inventory immediately if empty