Counter:

Exponential

Check out queue:

Separate queues for each check-out counter

Customer will always go to the queue with the fewest customers

Customer enters service station:

Customers always get 3 things: two sides and a main dish.

Let’s keep this simple-so just the hot food station?

Customers start getting some items.

Number of items:

Normal Dist-

Need mean and std.

Total Time:

Erlang-

K= random number from normal

Theta: We’ll have to agree on the avg time it takes to get an item

Customers enter Queue

Market to go

Quick-Zone

For each customer:

(Estimates)

70% chance for quick-zone

30% for m-t-g

Arrivals:

Let’s just preprocess arrival times based on the Poisson dist. for some variable time frame

Arrival rate: 30 per hour ?