Examples and Code

1/26/2009

Opening Discussion

- What did we talk about last class?

Earlier Code

- Let's finish off our single server example and run a few simulations using it.

Shared Time Computer

- This is a mainframe type of computer with thin clients.

- The goal is to figure out how many terminals can be attached before the response time gets too long.

- Jobs are processed in a round-robin style. This requires a separate list for holding information.

Multiteller Bank with Jockeying

- This is an enhanced version of the single server queue. We now have multiple servers and customers are allowed to jump from one line to another if the other line is shorter.

- The event diagram is the same, but there is more processing.

- Separate lists must be kept for each server to calculate average wait time statistics.

Coding a New Problem

- We should now work on coding up one of these new problems. Which one do you want to do?

- When creating this code we should look for chances to generalize things so that future models can be created more easily.

Minute Essay

- How might we go about generalizing the way in which statistics are done?