Assignment: Simulation Part 1

Write a python program that uses objects to simulate a physician's office as an event system. This system will help us answer questions like 'if a clinic receives 20 patients per hour, how many doctors does it need to avoid additional delay?'

Consider the following prompt:

"Patients arrive in a waiting room, and then are triaged by a triage nurse who can consider one patient at a time. They then proceed to one of the six ‘exam rooms’ where they can see a physician for a random number of minutes (15-20). If the exam rooms are all full, they will go to the waiting area instead. When done, they proceed to an exit. Each cycle of the simulation represents 1 minute, and transitions between areas are instant."

Answer the following questions to help:

* When a patient is assigned to a room, how do we know how long they will be there?
* When an exam room is freed up, how do we know which patient should go in next?

Given your data structures and objects from last week, write a python program that simulates the doctors office. Include a function that advances the simulation forward 1 minute, and updates the objects and elements of the simulation appropriately.

Submit a link to your homework on github.