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Assignment: Simulation Part 2

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?

For Exam rooms it is determined when the patient is created

* When an exam room is freed up, how do we know which patient should go in next?

Whichever patient is next in the list

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.