For our final project I’m going to be making a simulation based on sample project A. The Russ Engineering Building is famous for its slow elevators. The elevators appear to operate on demand. In other words, when a user presses the button on any floor, if one of the elevators is available it travels to the requested location. Once the last person leaves the elevator, it remains parked on the floor until another call button is pressed.

I will collect data on wait time from each floor to use, as well as record the travel time required for traversal between floors (how long does it take to move from the first floor to the second, first floor to the third, etc.).

Question: Could a different scheduling strategy be applied to the elevators in the Russ Building to reduce the average waiting time?

For example:

• Idle elevators always travel to the first floor.

• One elevator always returns to the first floor and the other moves to the top floor when not in use.

• One elevator only travels up (sequence of floors 1-2-3-4-1 etc.) the other only travels down (4-3-2-1-4 etc.)