Pd. 5 ControlTower generates an initial group of Passengers with destinations in a given range to mimic a morning rush ControlTower checks for available Elevators, which are defined by having a timeToEnd of less than 6 Based on the destinations of the Passengers and the number of elevators available, a range is decided for each elevator, so that each Elevator's range is at most one away from any other Elevator's range Passengers are placed into the Elevator whose range corresponds to the Passenger's destination ControlTower continues sending passengers as the workday Elevators calculate their timeToEnd(), using the continues Passengers' data timeToDestination() is calculated for every Passenger by successively removing each Passenger, and calculating how many floors the Elevator must travel for the next destination (simple addition) timeToDestination for each passenger is logged in a file Once timeToEnd is under 6, the Elevator becomes available for more Passengers and reassigning of its zone

2root2 Clive Johnston, Caleb Smith-Salzberg