

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 Elevators currently on the ground floor.

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

Elevators calculate their `timeToEnd()`, using the Passengers' data

`timeToDestination()` is calculated for every Passenger by using available information about other Passengers and the floors that will be visited prior to each Passenger

`timeToDestination` for each passenger is logged in a file

Once $\text{currentTime} - \text{birthTime} == \text{timeToEnd}()$, which is mentioned above, the Elevator becomes available for more Passengers and **reassigning of its zone**

ControlTower continues sending passengers as the workday continues

