Croot 2

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pd. 5

Control Tower

+ ArrayList <Passenger> people

+ ArrayList < Elevator > ellies

+ int minFloor

+ int maxFloor

+ int time // tracks time unit

+ void assignZones () //assign min, max zone to Elevators

+ void addPassenger () // add Passenger to Elevator with correct zone

+ void updateTime () // constantly incrementing time

Array List of...

Elevator

+ Array Priority Queue <Passenger> riders

+ int timeToEnd // how long untill arrives at Groud floor

+ boolean available

+ int minZone ⎤
+ int maxZone ⎦ //zones covered by Elevator

+ int currFloor ⎤
+ int maxFloor ⎮
+ boolean returning ⎮ // for evaluating
+ int numFloors ⎮ calcTime ()
+ int numPassengers ⎦

+ void calcTime () //calculates timeToEnd

+ void add (Passenger)

+ Passenger remove ()

+ isEmpty ()

+ isFull ()

ArrayList of...

Array Priority Queue of..

Passenger

int destination

int enterTime ⎤
int boardTime ⎮ // for data logging purposes
int exitTime ⎦

boolean isBoarded