Scheduler receiveSocket23: DatagramSocket **Elevator** numOfCars: int Floor direction: String sendPacket: DatagramPacket elevatorNum: int requestDownButton: boolean data: byte[] data: byte[] receiveSocket69: DatagramSocket directionLamp: String sendPacket: DatagramPacket elevatorsInfo: Map<Integer, ArrayList<Integer>> receivePacket: DatagramPacket floorButtons: Map<Integer, Boolean> receivePacket23: DatagramPacket elevatorQueue: ArrayList<InputData> currentFloor: int requestUpButtonLamp: boolean receivePacket69: DatagramPacket floorQueues: Map<Integer, ArrayList<InputData>> elevatorAndTheirPorts: Map<Integer, Integer> sendReceiveSocket: DatagramSocket numOfPeopleServiced: int requestQueue sendAndReceiveSocket: DatagramSocket requestQueue sendPacket: DatagramPacket receivePacket: DatagramPacket noMoreRequests: boolean requestUpButton: boolean InputData «create» floorButtonsLamps: Map<Integer, Boolean> requestQueue: ArrayList<InputData> requestDownButtonLamp: boolean firstRequest: boolean carRequest: int elevatorsExecutingInstructions: boolean numOfPeople: int + Floor(): timeOfRequest: long motorMoving: Boolean + getReceivePacket(): DatagramPacket Scheduler(int): floor: int saveElevatorStatus(String): void doorOpen: Boolean + getRequestDownButtonLamp(): Boolean isDirectionUp: Boolean requestQueue: ArrayList<InputData> + getRequestUpButton(): Boolean translateStringInstruction(String): void + InputData(long, int, Boolean, int): - main(String[]): void sendAndReceiveSocket: DatagramSocket + getDirectionLamp(): String + getCarRequest(): int getReceivePacket69(): DatagramPacket elevatorQueue: ArrayList<InputData> + getRequestUpButtonLamp(): Boolean elevatorAndTheirPortsPut(int, int): void + getFloor(): int initiateFloor(): void Elevator(int, int, String): + toString(): String getElevatorToSendRequest(): int + setDirectionLamp(String): void - moveElevator(): int + getIsDirectionUp(): Boolean + setRequestDownButtonLamp(Boolean): void closeSockets(): void - main(String[]): void + getTimeOfRequest(): long getReceivePacket23(): DatagramPacket + printInputData(ArrayList<InputData>): void receiveInstruction(): void + isDirectionUp(): boolean sendFloorAcknowledgement(): void + receiveAcknowledgement(): void getMotorMoving(): Boolean compareTo(InputData): int sendToElevators(): void handleInputErrors(int, int, String): boolean getSizeOfRequestQueue(): int «create» receiveElevatorRequest(): int + setRequestUpButtonLamp(Boolean): void saveReceivedMessage(String): void elevatorQueue 1...n + main(String[]): void receiveFloorRequest(): void sleep(int): void receiveInstructionFromFloor(): void + setRequestUpButton(Boolean): void setDoorOpen(Boolean): void + getRequestDownButton(): Boolean isNoMoreRequests(): boolean getReceivePacket(): DatagramPacket getNumOfCars(): int + sendHasElevatorArrived(): void sendRequest(): void + getSendPacket(): DatagramPacket getRequestQueue(): ArrayList<InputData> getRequestQueue(): ArrayList<InputData> + setRequestDownButton(Boolean): void closeSocket(): void + getElevatorQueue(): ArrayList<InputData> setFloorButton(Integer, Boolean): void + receiveStatus(): void setMotorMoving(Boolean): void + readData(String): void getDoorOpen(): Boolean + sendInstruction(InputData, Boolean): void stopElevator(): void + closeSocket(): void setFloorButtonLamps(Integer, Boolean): void + isGoingUp(String): boolean