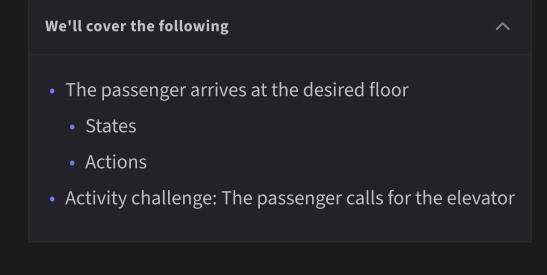
Activity Diagram for the Elevator System

Create some activity diagrams for the elevator system problem.



to the other in the system. There can be different activity diagrams that we can create for our elevator system. In this lesson, we will create activity diagrams for the following two activities:

• The passenger arrives at the desired floor.

An activity diagram is a great way to visualize the flow of messages from one activity

- Activity challenge: The passenger calls for the elevator.
- The passenger arrives at the desired floor

The following are the states and actions that will be involved in this activity diagram.

States

Final state: There are two final states present in this activity diagram. These are

shown below:

Initial state: The passenger enters the elevator car.

The passenger arrives at the destination floor.
The passenger is not allowed due to max load/capacity issues.

down button can be pressed.

The passenger enters the elevator car. The elevator car checks if the safety limits are

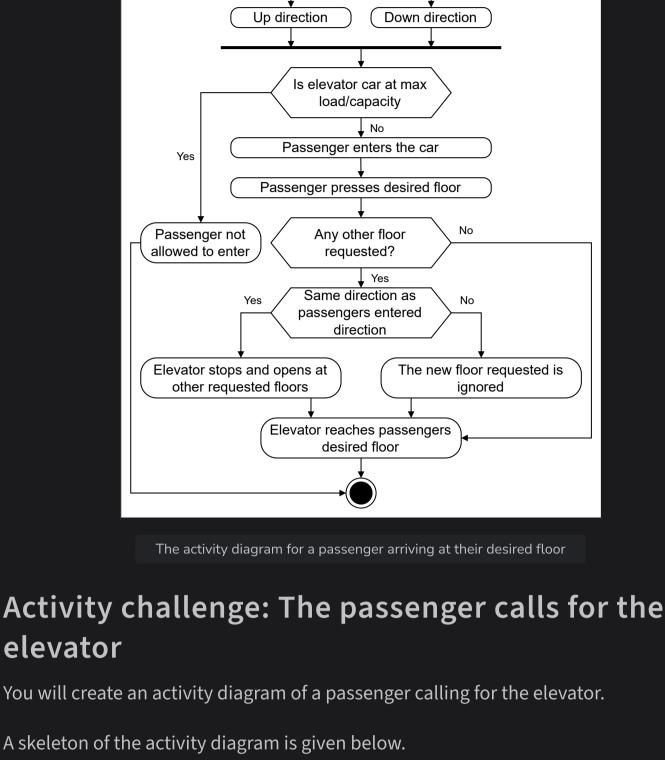
met. The elevator car stops at other passengers' floors. Finally, the elevator car reaches the passenger's desired floor.

Actions

Based on the order above, the activity diagram of a passenger arriving at their desired floor is given below.

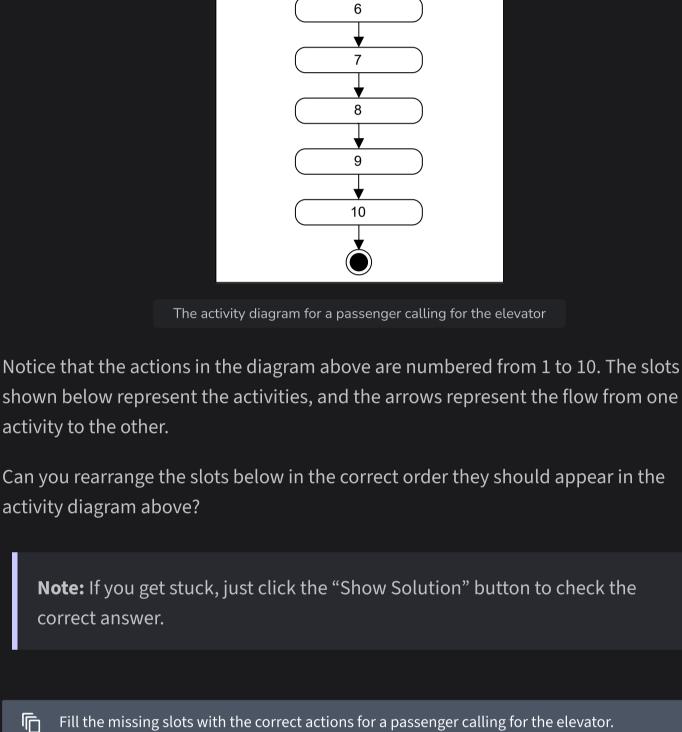
Note: Here, the passenger is just entering the elevator, so either the up or the

Passenger presses button



2. Up direction 3

5



Up direction

Passenger presses the button

Down direction

Floors button light is turned on

Screen shows approaching elevator cars current floor

Elevator reaches passengers floor Floors button light is turned off The elevator door opens Passenger enters the elevator The elevator door closes Reset Alternatively, you can also click the "Show complete diagram" button below to see the complete sequence diagram. Hide complete diagram Passenger presses the button 2. Up direction Down direction Floor button light is turned on Screen shows approaching elevator cars current floor Elevator reaches passengers floor

Floor button light is turned off

The elevator door opens

Passenger enters the elevator

The elevator door closes

We've looked at some of the activity diagrams of our elevator system. In the next

languages.

← Back

Sequence Diagram for the Elevator System

lesson, we will present the code for our designed classes in some of the most popular

Complete

Next \rightarrow

Code of Elevator System