Activity Diagram for the Parking Lot

Create some activity diagrams for the parking lot problem.

- We'll cover the following Vehicle entering the parking lot States Actions Activity challenge: The customer pays the parking ticket
- to the other in the system. There can be different activity diagrams that we can create for our parking lot system. For this lesson, we will create activity diagrams for the following two activities: • The vehicle entering the parking lot

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

- Vehicle entering the parking lot

• Activity challenge: Customer pays the parking ticket

States

Initial state: The customer enters the parking lot.

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

Final state: There are two final states present in this activity diagram, shown below:

• The customer receives the parking ticket through the system.

• There is no parking slot vacant, so the customer is denied access to the parking lot.

- **Actions**
- The customer arrives at the parking lot entrance and selects their vehicle type. They are assigned their dedicated parking spot according to their select vehicle type. The

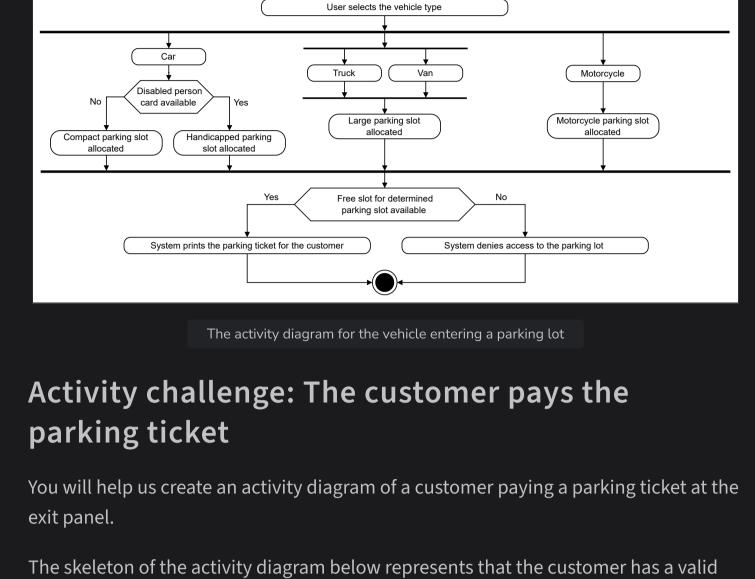
parking lot then informs us about the availability of that parking spot and allows access accordingly.

Based on the order above, the activity diagram of a vehicle entering a parking lot is given below. **Note:** Here we assume that only a car can be parked in the handicap spot.

Customer arrives at parking lot entrance Display board shows the free slot available

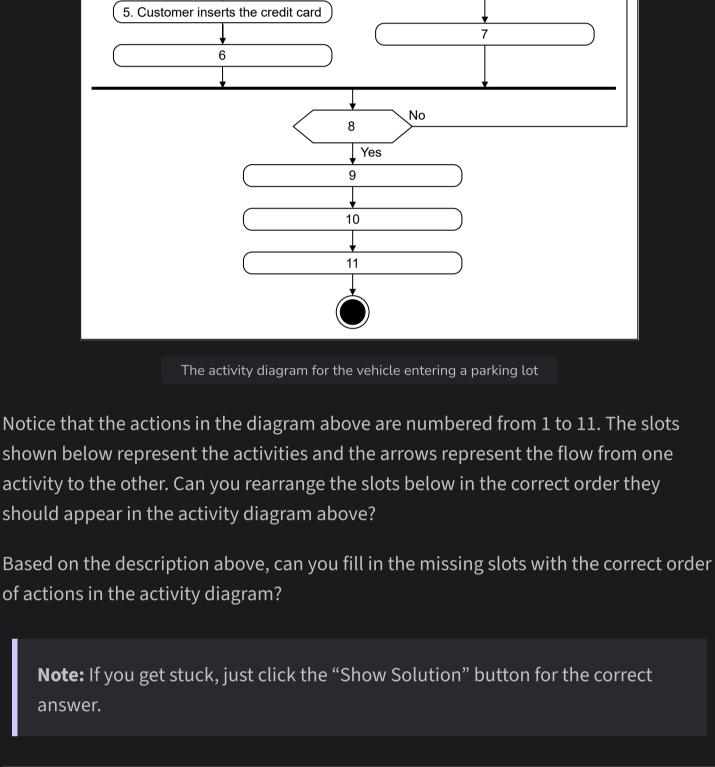
System displays the option to enter vehicle type

Access is only available if the car has a disabled person card present.



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parking ticket available.



Customer arrives at the parking lot exit

System scans the parking ticket

System calculates and displays the parking rate

System asks for payment

Fill the missing slots with the correct actions for a customer paying the parking ticket.

Customer inserts the credit card Customer enters the pin _____ Customer pays cash ______ Transaction is successful

System sends a success message

System prints the receipt

System opens the parking gate Reset Alternatively, you can also click the "Show complete diagram" button below to see the complete sequence diagram. Hide complete diagram Customer arrives at the parking lot exit) System scans the parking ticket System calculates and displays the parking rate System asks for payment Customer inserts the credit card Customer pays cash Customer enters the pin

Yes System sends a success message System prints the receipt System opens the parking gate We've looked at some of the activity diagrams of our parking lot system. In the next lesson, we will present the code for our designed classes in some of the most popular languages. \leftarrow Back **Complete** Sequence Diagram for the Parking Lot Next \rightarrow Code for the Parking Lot

Transaction is successful?