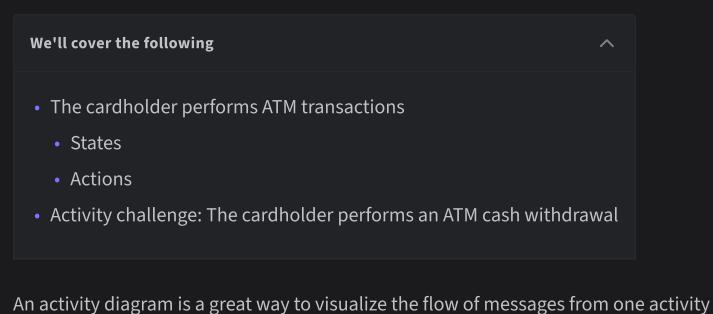
Activity Diagram for the ATM System

Let's create some activity diagrams for the ATM.



to the other in the system. There can be different activity diagrams that we can create for our ATM. In this lesson, we will create activity diagrams for the following two activities: • The cardholder performs ATM transactions.

- The cardholder performs ATM transactions

• Activity challenge: The cardholder performs an ATM cash withdrawal.

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

States

Initial state: The cardholder inserts an ATM card.

• The cardholder gets an error message for the wrong ATM PIN. • The cardholder performs a transaction successfully.

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

- **Actions**

The cardholder approaches the ATM, inserts their card, and enters their PIN. If the PIN

withdrawal.

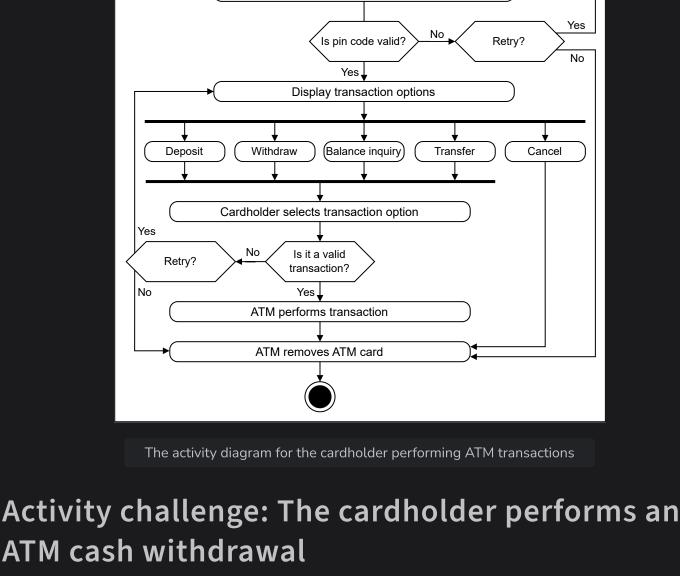
transactions. After completing their chosen transaction, the cardholder receives their card back from the ATM. Based on the order above, the activity diagram is given below. Cardholder insert ATM card

Cardholder enter ATM pin code

is correct, they are allowed to perform a transaction. If the PIN is incorrect, the ATM

returns the card. The cardholder then has the option to select from four different

Is pin code valid?

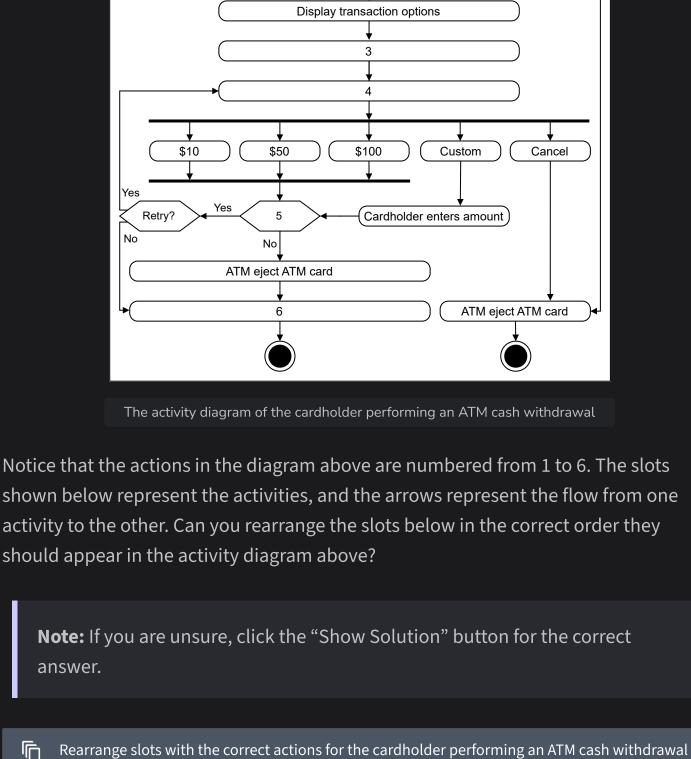


You'll help us create an activity diagram of a cardholder performing an ATM cash

The skeleton of the activity diagram is shown below.

Cardholder insert ATM card

Retry?

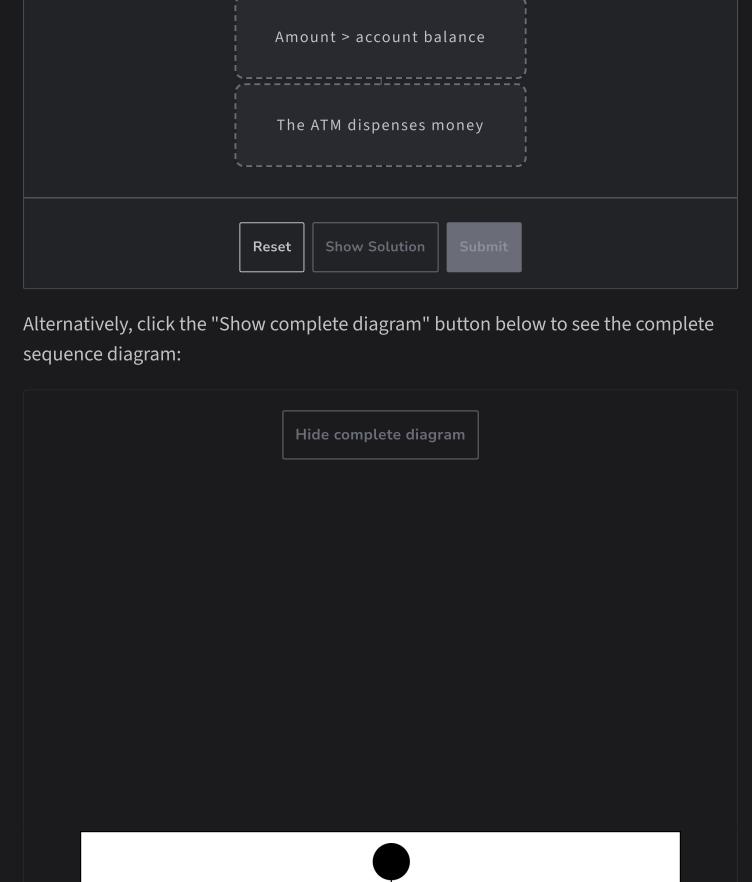


The cardholder selects cash withdrawal

The cardholder enters the ATM PIN

Is the PIN valid?

Display withdraw options



Cardholder insert ATM card Cardholder enter ATM pin code Yes Νo Is pin code valid? Retry? No Yes Display transaction options Cardholder select cash withdraw Display withdraw options \$10 \$50 \$100 Custom Cancel Yes Δ mount > account Retry? Cardholder enters amount balance No No ATM eject ATM card ATM dispense money ATM eject ATM card