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Let us consider four elevators in a building which consist of 5 floors where elevator A is used to move between Ground and third floor, elevator B is configured for the movement among ground to fifth floor while elevator C & D are free to move at any floors. write at least 6 test scenarios for each elevator functioning.

Elevator A (Ground to Third floor).

Normal operation :- Request the elevator from the ground to go to the third floor. Ensure it stops at the correct destination floor.

Overload Test :- Load the elevator with more passenger and weight than its capacity allows. Ensure it refuses to move & display an overload warning.

Emergency stop :- while in transit, press the emergency stop button. verify that the elevator halts & can be restarted.

Multifloor request :- Request the elevator to go to the third floor from the ground floor, But during the journey press the button to go to the second floor.

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Elevator B (Ground to fifth).

Normal operation:- Request the elevator to the ground floor to fifth floor.

Overload Test:- Load the elevator with more passengers and weight than its capacity allows.

Emergency stop:- while in transit, press the emergency stop Button. verify the elevator halt & can be restarted.

Door safety Test:- while the elevator is in operation, block the closing door & check if they reopen safely.

Elevator C (free to move at any floor).

Random floor Request:- Request elevator C to move to a random floor.

Simultaneous Request:- Simultaneous requ the elevator to move to different floor from multiple location.

Idle time Test:- Leave the elevator idle for a specified period and then request it to move.

Capacity Test:- fill the elevator to its

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maximum capacity and request it to move to a specific floor.

Emergency Response:- Activate the emergency alarm in the elevator & check if it promptly alert the building security or management.

Elevator D C free to move at any floor

Random floor Request:- Request elevator D to move to a random floor.

Simultaneous Request:- Simultaneous request the elevator to move diff. flors from multiple locations.

Idle time test:- Leave the elevator idle for a specified period & request it to move.

Capacity & emergency test will be as followed as the test case C.

Power failure:- Simulate a power failure and check if the elevator safely return to the ground floor; opening its doors for passengers to exit.

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Q.2. Let us assume you are travelling in a metro from Botanical garden to Rajiv chowk. Now you have to purchase the ticket thro-ugh vending machine. Consider the basic functionality of vending machine as select source station, destination station, selecting payment mode and priting the tickets. Write down the test case for making the payments through card or cash only.

When testing a vending machine for purchasing metro tickets from Botanical garden to rajiv chowk, you need to cover various scenarios for making paymen through card or cash. Here some cases to consider:-

Test cases for Payment through cards:-

Case 1:- Valid card Payment

* Select Botanical garden as the source station.
* select Rajiv chowk as destination station
* choose "Card" as the payment mode.
* Enter a valid and functional card detai
* Verify that the transaction is successful.
* Confirm that the appropriate amount has been deducted from the card.
* Ensure that the ticket is printed corr
* Invalid card Payment - expired card.

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Use II Successful Cash Payment

* Insert cash into the cash slot.
* Select Botanical garden as source station and Rajiv chowk as destination address.
* Choose the payment mode as cash.
* Confirm the ticket details & the fare.
* Click the purchase Button.
* Verify that that the payment is processed successfully.
* Verify that the ticket is printed with the correct source, destination & fare.

Use III Insufficient Card Balance.

* Insert your card into the Card reader.
* Select Botanical garden as the source station & Rajiv chowk as destination station.
* Choose the payment mode as "card".
* Confirm the ticket details & fare
* Click the purchase Buttom.
* Verify that the vending machine display an error message indicating insufficient card Balance.

IV Insufficient Cash

* Insert a lower amount of cash than the required fare.
* Select Botanical garden & Rajiv chowk as source & destination address.
* Choose the payment mode as "cash".

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* confirm the ticket details and fare.
* click the purchase Button.
* verify the vending machine display an error message indicating insufficient cash.

Case V Network connection failure

* Insert your card into the card reader.
* select Botanical & Rajiv chowk as source & destination station.
* choose the payment mode as "card".
* confirm the ticket details & the fare.
* click the purchase Button.
* Network connection failure during the payment process.
* verify that the vending machine display an error message & does not complete the transaction.

Case VI printer out of order.

* Insert cash or card & select source & destination station.
* choose the payment mode.
* confirm the ticket detail & the fare.
* click the purchase Button.
* verify the vending machine display an error message indicating that the ticket cannot be printed due to a printer malfunction.