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generate exhaustive test cases in table format for the requirement "the total number of miles is the sum of the traveled miles up to now and the remaining miles to be traveled"

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Here are some exhaustive test cases in a table format for the requirement:


Test Case ID	Traveled Miles	Remaining Miles	Expected Total Miles	Description
1	0	0	0	Both traveled and remaining miles are 0.
2	100	0	100	Traveled miles are 100, remaining miles are 0.
3	0	100	100	Traveled miles are 0, remaining miles are 100.
4	50	50	100	Traveled miles are 50, remaining miles are 50.
5	200	300	500	Traveled miles are 200, remaining miles are 300.
6	0	-50	Error	Remaining miles are negative.
7	-50	50	Error	Traveled miles are negative.
8	100	100.5	200.5	Traveled miles are 100, remaining miles are 100.5.


Test Case ID	Traveled Miles	Remaining Miles	Expected Total Miles	Description
9	100.5	100	200.5	Traveled miles are 100.5, remaining miles are 100.
10	0	0.5	0.5	Traveled miles are 0, remaining miles are 0.5.

These test cases cover various scenarios, including:

- Both traveled and remaining miles are 0.
- Traveled miles are 0, remaining miles are non-zero.
- Traveled miles are non-zero, remaining miles are 0.
- Both traveled and remaining miles are non-zero.
- Negative traveled or remaining miles.
- Miles with decimal values.

These test cases should help ensure that the requirement is met under different conditions.

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generate exhaustive test cases in table format for the requirement "the fuel consumption is the difference between the loaded fuel and the current available fuel"

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Here are the exhaustive test cases in a table format for the requirement "the fuel consumption is the difference between the loaded fuel and the current available fuel":

Test Case ID	Loaded Fuel	Current Available Fuel	Expected Fuel Consumption	Description
1	100	100	0	Loaded fuel equals current available fuel.
2	100	80	20	Loaded fuel is greater than current available fuel.

Test Case ID	Loaded Fuel	Current Available Fuel	Expected Fuel Consumption	Description
3	80	100	Error	Loaded fuel is less than current available fuel.
4	50	30	20	Loaded fuel is greater than current available fuel.
5	200	150	50	Loaded fuel is greater than current available fuel.
6	0	0	0	Both loaded fuel and current available fuel are 0.
7	-50	50	Error	Loaded fuel is negative.
8	50	-50	Error	Current available fuel is negative.
9	100.5	80.5	20	Loaded fuel and current available fuel have decimal values.
10	100	100.5	Error	Loaded fuel is less than current available fuel with decimal values.

These test cases cover various scenarios, including:

- Loaded fuel equals current available fuel.
- Loaded fuel is greater than current available fuel.
- Loaded fuel is less than current available fuel (error).
- Both loaded fuel and current available fuel are 0.
- Negative loaded fuel or current available fuel (error).
- Loaded fuel and current available fuel have decimal values.

These test cases should help ensure that the requirement is met under different conditions.

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generate exhaustive test cases in table format for the requirement "if temperature is more than 60 activate cooling , if not , deactivate cooling"

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Here are the exhaustive test cases in a table format for the requirement "if temperature is more than 60, activate cooling; if not, deactivate cooling":


Test Case ID	Temperature	Expected Cooling Status	Description
1	59	Deactivate	Temperature is less than or equal to 60.
2	60	Deactivate	Temperature is exactly 60.
3	61	Activate	Temperature is more than 60.
4	50	Deactivate	Temperature is significantly less than 60.
5	70	Activate	Temperature is significantly more than 60.
6	-10	Deactivate	Temperature is negative.
7	0	Deactivate	Temperature is 0.
8	60.5	Activate	Temperature is slightly more than 60 with decimal value.
9	59.5	Deactivate	Temperature is slightly less than 60 with decimal value.

Test Case ID	Temperature	Expected Cooling Status	Description
10	100	Activate	Temperature is much higher than 60.

These test cases cover various scenarios, including:

- Temperature is less than or equal to 60.
- Temperature is exactly 60.
- Temperature is more than 60.
- Temperature is significantly less than 60.
- Temperature is significantly more than 60.
- Temperature is negative.
- Temperature is 0.
- Temperature is slightly more than 60 with decimal value.
- Temperature is slightly less than 60 with decimal value.
- Temperature is much higher than 60.

These test cases should help ensure that the requirement is met under different conditions.

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generate exhaustive test cases in table format for the requirement "if the day is good, walk 2 kilometers, if not walk 1 kilometer"

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Here are the exhaustive test cases in a table format for the requirement "if the day is good, walk 2 kilometers; if not, walk 1 kilometer":


Test Case ID	Day Condition	Expected Distance	Description
1	Good	2 km	Day is good.
2	Not Good	1 km	Day is not good.
3	Good (Sunny)	2 km	Day is good with specific condition (sunny).
4	Not Good (Rainy)	1 km	Day is not good with specific condition

Test Case ID	Day Condition	Expected Distance	Description
			(rainy).
5	Good (Cloudy)	2 km	Day is good with specific condition (cloudy).
6	Not Good (Stormy)	1 km	Day is not good with specific condition (stormy).
7	Unknown	Error	Day condition is unknown.
8	Good (Partly Cloudy)	2 km	Day is good with specific condition (partly cloudy).
9	Not Good (Foggy)	1 km	Day is not good with specific condition (foggy).
10	Good (Clear)	2 km	Day is good with specific condition (clear).

These test cases cover various scenarios, including:

- Day is good.
- Day is not good.
- Day is good with specific conditions (sunny, cloudy, partly cloudy, clear).
- Day is not good with specific conditions (rainy, stormy, foggy).
- Day condition is unknown (error).

These test cases should help ensure that the requirement is met under different conditions.

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generate exhaustive test cases in table format for the requirement "The rain gauge will calculate the total precipitation by dividing the total amount of water collected in the rain gauge with the product of area of the rain gauge and the total hours its rained, only when it rained ,otherwise the precipitation value will be 0"

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Here are the exhaustive test cases in a table format for the requirement "The rain gauge will calculate the total precipitation by dividing the total amount of water collected in the rain

gauge with the product of area of the rain gauge and the total hours it rained, only when it rained, otherwise the precipitation value will be 0":

Test Case ID	Total Water Collected	Area of Rain Gauge	Total Hours Rained	Expected Precipitation
1	100	10	5	2
2	0	10	5	0
3	100	0	5	Error
4	100	10	0	Error
5	50	5	2	5
6	200	20	10	1
7	0	0	0	0
8	100	10	-5	Error
9	100	-10	5	Error
10	100	10	5.5	1.82



These test cases cover various scenarios, including:

- It rained.
- No rain.
- Area of rain gauge is 0 (error).
- Total hours rained is 0 (error).
- It rained with different values.
- No rain and area of rain gauge is 0.
- Total hours rained is negative (error).
- Area of rain gauge is negative (error).
- It rained with decimal values.

These test cases should help ensure that the requirement is met under different conditions.

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generate exhaustive test cases in table format for the requirement "The ATM will dispense cash only when the PIN is correct, and the account has enough balance, and the ATM has enough cash to dispense"

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Here are the exhaustive test cases in a table format for the requirement "The ATM will dispense cash only when the PIN is correct, and the account has enough balance, and the ATM has enough cash to dispense":

Test Case ID	PIN	Account Balance	ATM Cash	Expected Result	Description
1	Correct	Sufficient	Sufficient	Dispense Cash	All conditions met.
2	Incorrect	Sufficient	Sufficient	Error Message	PIN is incorrect.
3	Correct	Insufficient	Sufficient	Error Message	Account balance is insufficient.
4	Correct	Sufficient	Insufficient	Error Message	ATM cash is insufficient.

Test Case ID	PIN	Account Balance	ATM Cash	Expected Result	Description
5	Incorrect	Insufficient	Sufficient	Error Message	PIN is incorrect and account balance is insufficient.
6	Incorrect	Sufficient	Insufficient	Error Message	PIN is incorrect and ATM cash is insufficient.
7	Correct	Insufficient	Insufficient	Error Message	Account balance and ATM cash are insufficient.
8	Incorrect	Insufficient	Insufficient	Error Message	PIN is incorrect, account balance and ATM cash are insufficient.
9	Correct	Sufficient	0	Error Message	ATM cash is 0.
10	Correct	0	Sufficient	Error Message	Account balance is 0.
11	Incorrect	0	Sufficient	Error Message	PIN is incorrect and account balance is 0.
12	Incorrect	Sufficient	0	Error Message	PIN is incorrect and ATM cash is 0.
13	Correct	0	0	Error Message	Account balance and ATM cash are 0.
14	Incorrect	0	0	Error Message	PIN is incorrect, account balance and ATM cash are 0.

These test cases cover various scenarios, including:

- All conditions met (correct PIN, sufficient account balance, and sufficient ATM cash).
- PIN is incorrect.
- Account balance is insufficient.
- ATM cash is insufficient.
- Combinations of incorrect PIN, insufficient account balance, and insufficient ATM cash.

- Edge cases where account balance or ATM cash is 0.

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generate exhaustive test cases in table format for the requirement "if system wants to activate a test ,first check if the test is enabled ,if enabled then activate the test if not enabled then deactivate the test."

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Here are the exhaustive test cases in a table format for the requirement "if system wants to activate a test, first check if the test is enabled, if enabled then activate the test, if not enabled then deactivate the test":


Test Case ID	Test Enabled	System Request	Expected Result	Description
1	Enabled	Activate	Activate Test	Test is enabled and system wants to activate.
2	Enabled	Deactivate	Deactivate Test	Test is enabled but system wants to deactivate.
3	Disabled	Activate	Deactivate Test	Test is disabled and system wants to activate.
4	Disabled	Deactivate	Deactivate Test	Test is disabled and system wants to deactivate.
5	Enabled	No Request	No Change	Test is enabled but system does not request any action.
6	Disabled	No Request	No Change	Test is disabled but system does not request any action.
7	Enabled	Invalid Request	Error	Test is enabled but system sends an invalid request.
8	Disabled	Invalid Request	Error	Test is disabled but system sends an invalid request.


Test Case ID	Test Enabled	System Request	Expected Result	Description
9	Enabled	Activate (Multiple Times)	Activate Test	Test is enabled and system sends multiple activate requests.
10	Disabled	Deactivate (Multiple Times)	Deactivate Test	Test is disabled and system sends multiple deactivate requests.

These test cases cover various scenarios, including:

- Test is enabled and system wants to activate.
- Test is enabled but system wants to deactivate.
- Test is disabled and system wants to activate.
- Test is disabled and system wants to deactivate.
- Test is enabled but system does not request any action.
- Test is disabled but system does not request any action.
- Test is enabled but system sends an invalid request.
- Test is disabled but system sends an invalid request.
- Test is enabled and system sends multiple activate requests.
- Test is disabled and system sends multiple deactivate requests.

These test cases should help ensure that the requirement is met under different conditions.

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generate exhaustive test cases in table format for the requirement "The vehicle will be in off state to begin , while in off state you can start it .When started the vehicle can be moved forward or backward or stay idle ,the vehicle can be switched off only when it is idle."

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Here are the exhaustive test cases in a table format for the requirement "The vehicle will be in off state to begin, while in off state you can start it. When started the vehicle can be

moved forward or backward or stav idle. the vehicle can be switched off only when it is idle":

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1	Off	Start	Started	Vehicle is in off state and started successfully.
2	Off	Move Forward	Error	Vehicle is in off state and cannot move forward.
3	Off	Move Backward	Error	Vehicle is in off state and cannot move backward.
4	Off	Switch Off	Error	Vehicle is in off state and cannot be switched off.
5	Started	Move Forward	Moving Forward	Vehicle is started and moved forward successfully.
6	Started	Move Backward	Moving Backward	Vehicle is started and moved backward successfully.
7	Started	Stay Idle	Idle	Vehicle is started and stayed idle successfully.
8	Started	Switch Off (While Moving)	Error	Vehicle is started and moving, cannot be switched off.
9	Started	Switch Off (While Idle)	Off	Vehicle is started and idle, switched off successfully.
10	Started	Multiple Actions (Move Forward, Move Backward, Stay Idle)	Success	Vehicle is started and performed multiple actions successfully.
11	Started	Invalid Action	Error	Vehicle is started and an invalid action is performed.

These test cases cover various scenarios, including:

- Vehicle is in off state and started successfully.
- Vehicle is in off state and cannot perform other actions.

- Vehicle is started and performs different actions (move forward, move backward, stay idle).
- Vehicle is started and cannot be switched off while moving.
- Vehicle is started and idle, and switched off successfully.
- Vehicle is started and performs multiple actions successfully.
- Vehicle is started and an invalid action is performed.

These test cases should help ensure that the requirement is met under different conditions.

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generate exhaustive test cases in table format for the requirement "when one or more of the motors a, b and c fails the system will go from green state to orange state, in orange state the backup motors x and y are activated , if one of x and y fails the system goes from orange to amber state , if both x and y fails the system will go from amber to red state."

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Here are the exhaustive test cases in a table format for the requirement "when one or more of the motors A, B, and C fails, the system will go from green state to orange state, in orange state the backup motors X and Y are activated, if one of X and Y fails, the system goes from orange to amber state, if both X and Y fail, the system will go from amber to red state":

Test Case ID	Initial State	Motor Failure	Expected State	Description
1	Green	A	Orange	One motor (A) fails, system goes to orange state.
2	Green	B	Orange	One motor (B) fails, system goes to orange state.
3	Green	C	Orange	One motor (C) fails, system goes to orange state.
4	Green	A, B	Orange	Two motors (A, B) fail, system goes to orange state.
5	Green	A, C	Orange	Two motors (A, C) fail, system goes to orange state.
6	Green	B, C	Orange	Two motors (B, C) fail, system goes

Test Case ID	Initial State	Motor Failure	Expected State	Description
				to orange state.
7	Green	A, B, C	Orange	All three motors (A, B, C) fail, system goes to orange state.
8	Orange	X	Amber	One backup motor (X) fails, system goes to amber state.
9	Orange	Y	Amber	One backup motor (Y) fails, system goes to amber state.
10	Orange	X, Y	Red	Both backup motors (X, Y) fail, system goes to red state.
11	Amber	X	Red	One backup motor (X) fails in amber state, system goes to red state.
12	Amber	Y	Red	One backup motor (Y) fails in amber state, system goes to red state.
13	Red	-	Red	System is already in red state, no change.
14	Green	-	Green	No motor failure, system remains in green state.

These test cases cover various scenarios, including:

- One motor fails, system goes to orange state.
- Multiple motors fail, system goes to orange state.
- All three motors fail, system goes to orange state.
- One backup motor fails, system goes to amber state.
- Both backup motors fail, system goes to red state.
- One backup motor fails in amber state, system goes to red state.
- System is already in red state, no change.
- No motor failure, system remains in green state.

These test cases should help ensure that the requirement is met under different conditions.



detected ,deactivate CCmode and set CCspeed to zero."

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Here are the exhaustive test cases in a table format for the requirement "when the user engages Cruise Control mode, start reading the current vehicle speed. When speed confirmation received from the user, capture the current vehicle speed, and set it as the CCspeed. Once CCspeed is set, activate the cruise control mode. When break or accelerator or key off is detected, deactivate CCmode and set CCspeed to zero":

Test Case ID	User Action	System Response	Expected Result	Description
1	Engage Cruise Control	Start reading current vehicle speed	Reading speed	User engages Cruise Control mode.
2	Confirm speed	Capture current vehicle speed, set as CCspeed	CCspeed set	User confirms speed.
3	Engage Cruise Control	Activate cruise control mode	Cruise control activated	CCspeed is set.
4	Press brake	Deactivate CCmode, set CCspeed to 0	Cruise control deactivated	Brake is pressed.
5	Press accelerator	Deactivate CCmode, set CCspeed to 0	Cruise control deactivated	Accelerator is pressed.
6	Turn key off	Deactivate CCmode, set CCspeed to 0	Cruise control deactivated	Key is turned off.
7	Engage Cruise Control (multiple times)	Start reading current vehicle speed	Reading speed	User engages Cruise Control mode multiple times.



Test Case ID	User Action	System Response	Expected Result	Description
8	Confirm speed (multiple times)	Capture current vehicle speed, set as CCspeed	CCspeed set	User confirms speed multiple times.
9	Engage Cruise Control (while already active)	No change	Cruise control active	User engages Cruise Control mode while it is already active.
10	Confirm speed (while CCspeed is already set)	No change	CCspeed set	User confirms speed while CCspeed is already set.
11	Press brake (while CCmode is active)	Deactivate CCmode, set CCspeed to 0	Cruise control deactivated	Brake is pressed while CCmode is active.
12	Press accelerator (while CCmode is active)	Deactivate CCmode, set CCspeed to 0	Cruise control deactivated	Accelerator is pressed while CCmode is active.
13	Turn key off (while CCmode is active)	Deactivate CCmode, set CCspeed to 0	Cruise control deactivated	Key is turned off while CCmode is active.
14	Engage Cruise Control (with invalid speed)	Error	Error	User engages Cruise Control mode with an invalid speed.
15	Confirm speed (with invalid speed)	Error	Error	User confirms speed with an invalid speed.

These test cases cover various scenarios, including:

- User engages Cruise Control mode.
- User confirms speed.
- User engages Cruise Control mode multiple times.

- User confirms speed multiple times.
- User engages Cruise Control mode while it is already active.
- User confirms speed while CCspeed is already set.
- Brake is pressed while CCmode is active.
- Accelerator is pressed while CCmode is active.
- Key is turned off while CCmode is active.
- User engages Cruise Control mode with an invalid speed.
- User confirms speed with an invalid speed.

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