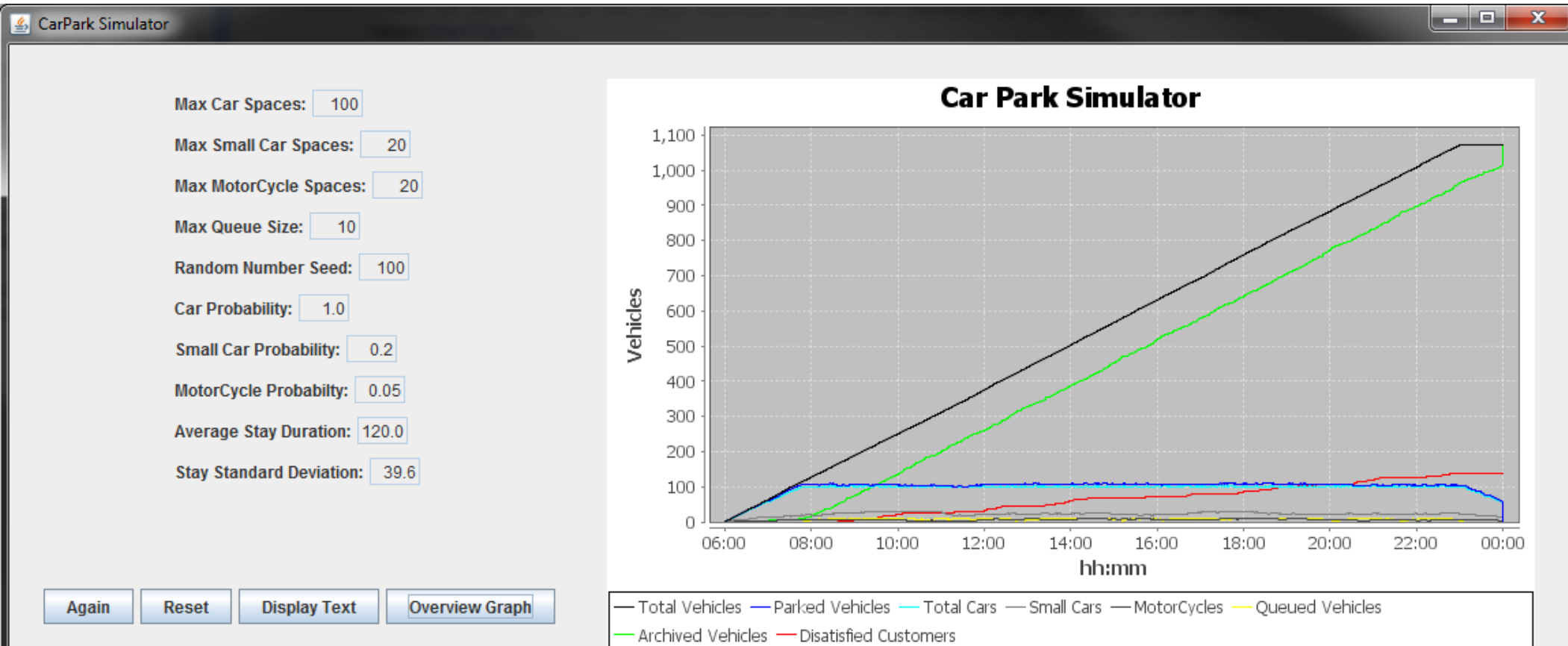


# GUI Test 1

Test: Testing with default values and running the simulator normally.

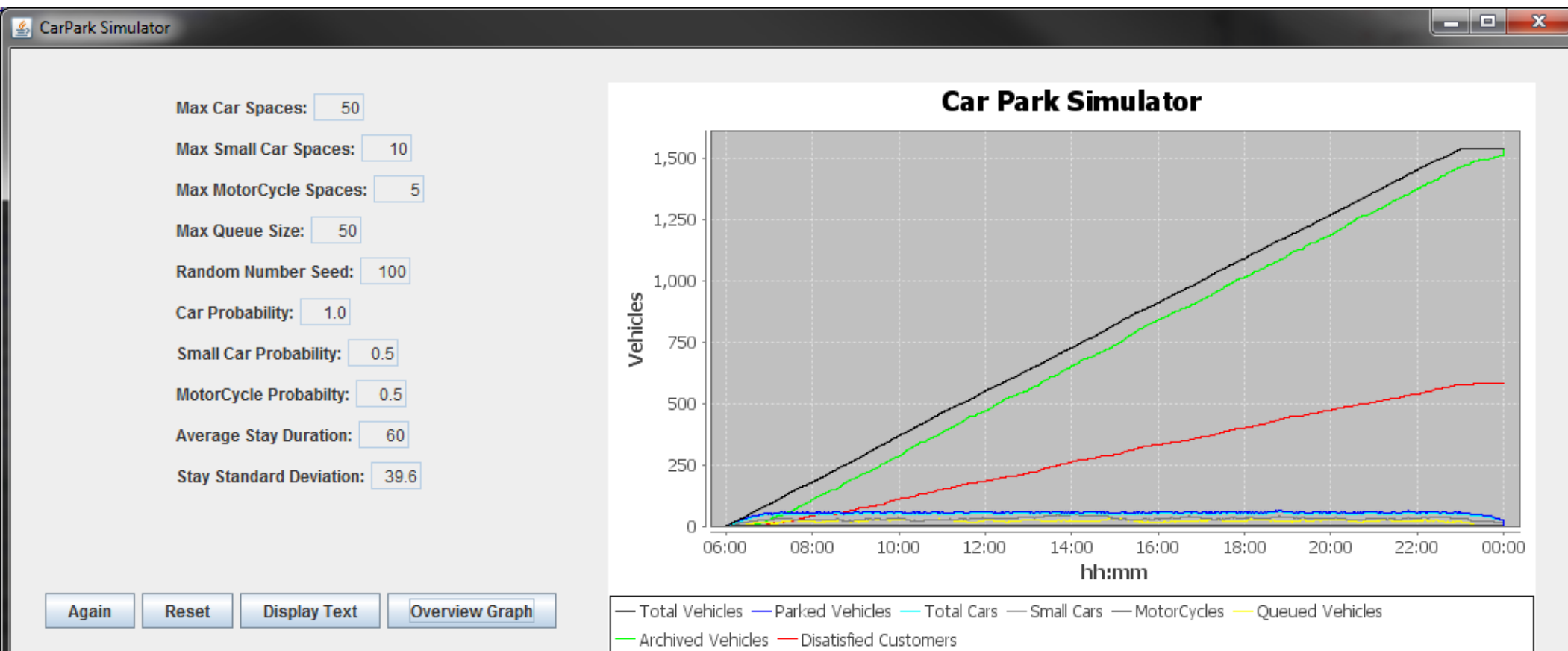
Result: Simulation runs without fail and both graphs display correct information throughout the simulation.



# GUI Test 2

Test: Testing with different values and running the simulator normally.

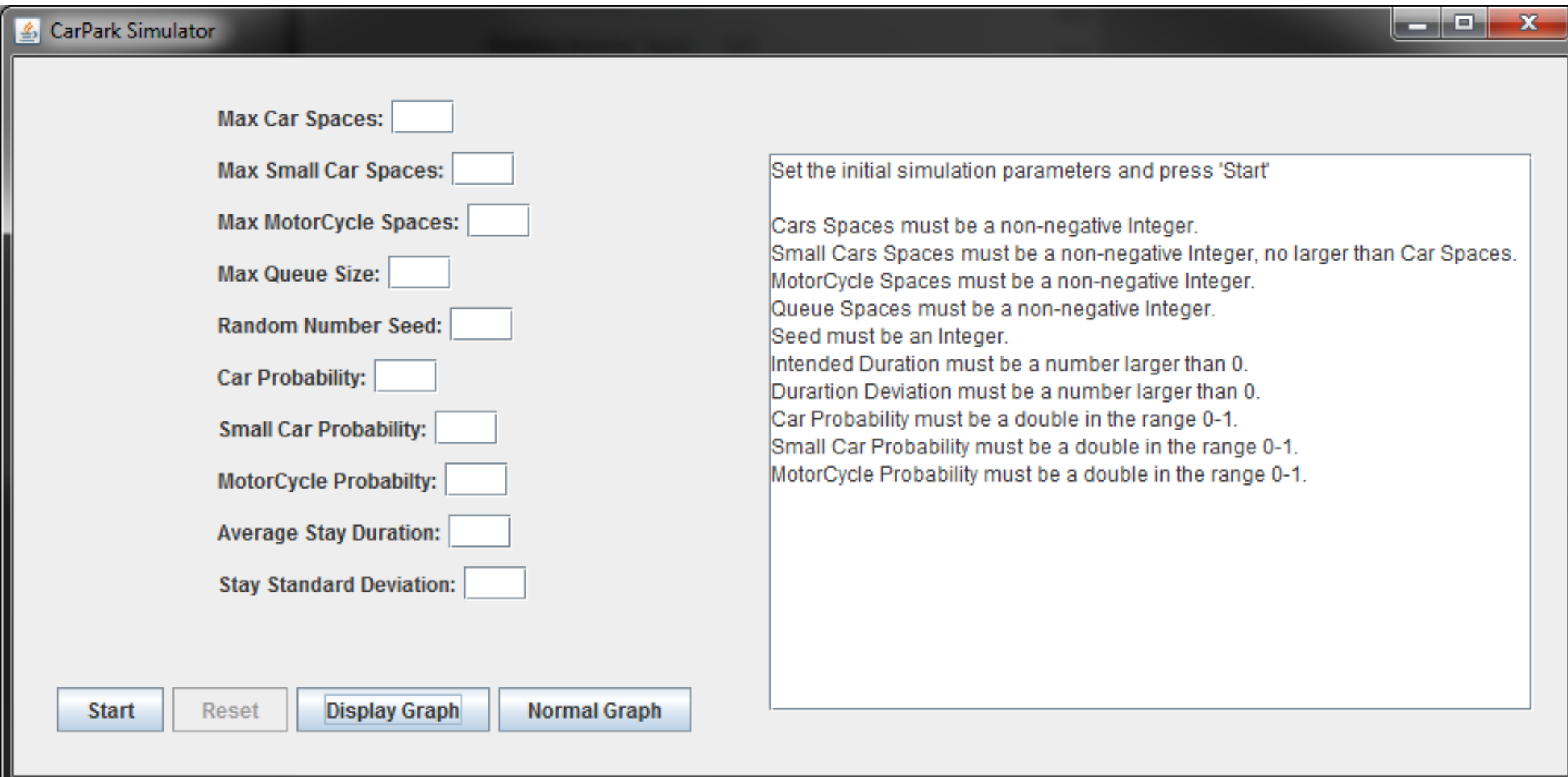
Result: Simulation runs without fail and both graphs display correct information throughout the simulation.



# GUI Test 3

Test: Testing with no values and running the simulator normally.

Result: Simulation displays appropriate error messages when the user tries to run the simulation without values.



The screenshot shows the 'CarPark Simulator' window. On the left, there are ten input fields for simulation parameters: Max Car Spaces, Max Small Car Spaces, Max Motorcycle Spaces, Max Queue Size, Random Number Seed, Car Probability, Small Car Probability, Motorcycle Probability, Average Stay Duration, and Stay Standard Deviation. At the bottom are four buttons: 'Start', 'Reset', 'Display Graph', and 'Normal Graph'. On the right, a text box contains error messages that appear when the simulation is run without valid input values.

CarPark Simulator

Max Car Spaces:

Max Small Car Spaces:

Max Motorcycle Spaces:

Max Queue Size:

Random Number Seed:

Car Probability:

Small Car Probability:

Motorcycle Probability:

Average Stay Duration:

Stay Standard Deviation:

Start Reset Display Graph Normal Graph

Set the initial simulation parameters and press 'Start'

Cars Spaces must be a non-negative Integer.  
Small Cars Spaces must be a non-negative Integer, no larger than Car Spaces.  
MotorCycle Spaces must be a non-negative Integer.  
Queue Spaces must be a non-negative Integer.  
Seed must be an Integer.  
Intended Duration must be a number larger than 0.  
Duration Deviation must be a number larger than 0.  
Car Probability must be a double in the range 0-1.  
Small Car Probability must be a double in the range 0-1.  
MotorCycle Probability must be a double in the range 0-1.

# GUI Test 4

Test: Testing with improper values.

Result: Simulation displays appropriate error messages when the user tries to run the simulation with improper values.

The screenshot shows the 'CarPark Simulator' window. On the left, there are ten input fields for simulation parameters, each with a label and a text box containing a value. At the bottom left are four buttons: 'Start', 'Reset', 'Display Graph', and 'Overview Graph'. On the right, a text box contains a list of error messages that appear when the simulation is run with improper values.

CarPark Simulator

Max Car Spaces: Two

Max Small Car Spaces: Ten

Max MotorCycle Spaces: Four

Max Queue Size: Six

Random Number Seed: Four

Car Probability: Five

Small Car Probability: Three

MotorCycle Probabilty: Nine

Average Stay Duration: One

Stay Standard Deviation: Four

Start Reset Display Graph Overview Graph

Set the initial simulation parameters and press 'Start'

Cars Spaces must be a non-negative Integer.

Small Cars Spaces must be a non-negative Integer, no larger than Car Spaces.

MotorCycle Spaces must be a non-negative Integer.

Queue Spaces must be a non-negative Integer.

Seed must be an Integer.

Intended Duration must be a number larger than 0.

Duration Deviation must be a number larger than 0.

Car Probability must be a double in the range 0-1.

Small Car Probability must be a double in the range 0-1.

MotorCycle Probability must be a double in the range 0-1.

# GUI Test 5

Test: Testing the buttons during and after the simulation.

Result: Each button works correctly during and after the simulation as intended. No combination of buttons affects the outcome of the simulation.

