I hereby confirm that the information provided by me is of completely my own work.
Signed: Johnny Do
SID: 861003761

Data Link GO HERE For Full Data
https://docs.google.com/spreadsheets/d/1NxdQFLLHJceLcmOVW5KjiOLm4w2T_ZM7_6p_oG9Gz7M/edit?usp=sharing

Provided: "**Source**" Folder
Contains: **part1.cpp**, **Makefile**, **test.py**

INSTRUCTION ON HOW TO COMPILE

On a terminal in the same directory as the files mentioned within the folder "**Source**,"
Type "**make**" into terminal and press enter
From here, the executable "**csim"** is created

INSTRUCTIONS ON HOW TO OPERATE

Manual Operation No Command Line (For Hourly Reports)

Type "**./csim**" into terminal and press enter for default of 55 cars and with light
Further changes must be made in **part1.cpp**
const bool LIGHTS_ON = [true | false];
const unsigned NUM_CARS = [1-59]
Repeat: **INSTRUCTIONS ON HOW TO COMPILE**
Repeat: **INSTRUCTIONS ON HOW TO OPERATE:**
Manual Operation No Command Line

Manual Operation With Command Line (Minimal Input Checking)

Type "**./csim** " into terminal followed by two additional fields and press enter
First field is 0 or 1: No traffic light and with traffic light respectively
Second field is number of cars: [0 - 59]. Higher numbers treated as 59.

Automated Operation

Type "**make output**" into terminal and press enter
This will run **test.py**
test.py will create files **output.txt**, and **output2.txt**
output.txt contains no traffic light data
output2.txt contains with traffic light data
Type "**make check**" into terminal and it will output to terminal:
output.txt's: Total Laps by all cars [1-60]
output.txt's: Average Laps per car [1-60]
output2.txt's: Total Laps by all cars [1-60]
output2.txt's: Average Laps per car [1-60]