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CSCI 144: Project Report

The goal of this project was to implement an intelligent traffic light system where cars arrive at a one-way tunnel. The program takes input form a .txt which has all the values and direction. When the code is executed the program reads the input from the file and car object is created and then car thread is created and then cars are sorted into priority queues. If the care is safe to go then the car is popped out from the queue else, it waits for a safe path. The program runs until there are no more cars left in the queue.

The input values were changed to check the results. The time taken ranged from 16 to 47 seconds according to the number of elements of the data fed to the program. This is the analytics of the program with 15, 20, 25 and 30 elements in the data file.

Video link: <https://youtu.be/boYX-gkhPVc>