COSC 4353: Assignment #3

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1 Introduction

Your goal is to model a parking lot using object-oriented programming principles. This project is relatively open-ended; we will be grading based on your use of OOP principles.

Assumptions:

- 1. A parking lot has a capacity.
- 2. A parking lot has entrance and exit gates.
- 3. Cars receive a time-stamped ticket at entry.
- 4. Cars present the ticket at exit gates, pay and then leave the parking lot.
- 5. Cars cannot be admitted if there is no space in the parking lot.

Goal: The owners of parking lots want you to maximize their profits.

2 Instructions

Create a project named parking on your GitHub account. Please use git tag and tag your submission version as final. If you wanted to make extra revisions after that it's fine (as long as it is before deadline), as long as you tag them v.1.XX where XX represents a number. We will grade the v.1 with the highest value. Note that "." must be there for versioning the v.1 tags.

Have your project read from a text file in whatever format you consider appropriate and submit **five** text files with various inputs for testing along with your code. Be sure to consider input validation!

3 Notes

- Please start early.
- We will be more confident in the authenticity of your code if we can see the succession of revisions that leads to your final submission. Therefore, please commit all significant changes as you implement them.
- We will use the MOSS plagiarism detection tool to detect plagiarism. Per the course syllabus, any student that commits plagiarism will be failed.