15-857/47-774 Homework 10: M/G/1 and Renewal-Reward

Homework is due at the *start* of Friday's class. You have a full week. We grade your homework right away, so please don't be late. If you're having problems, please go to office hours. Feel free to collaborate with other students, but you should write up your own solutions. It is good form to list the names of people with whom you collaborate.

These problems are from your textbook, *Performance Modeling and Design of Computer Systems*. Starred problems are either not in your textbook, or have some modifications, given below.

Exercises: 21.5 ; 23.3 ; 23.4 ; 23.5 ; 23.7 ; 23.8 ; 23.9 ; 25.14

Important: When doing Renewal-Reward problems, please clearly specify the relvant parameters, such as:

1. How are you defining the renewal cycle?

2. How are you defining reward?

3. What is the rate at which reward is being earned?

4. What is the total reward in each cycle?

It will be much easier to grade your homework if we clearly understand these.