15-857/47-774 Homework 9: Jackson, Classes, and Pareto

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.

<u>Exercises</u>: 17.3 ; 17.5 ; 17.6 ; 18.1 ; 18.3 ; 19.3* ; 20.2

Note: You won't be able to do 20.2 until Monday's lecture.

Exercise 19.3*: [Networks with Load-Dependent Service Rates]
Only do the first 3 parts (1),(2),(3).