

COMP 790: Stochastic Performance Modeling and Scheduling in Computer Systems

Homework 3: Discrete-Time Markov Chains

Released: September 12, 2022 Due: September 28, 2022

Instructions: This assignment is due at the start of class on the above due date. Collaboration is allowed, but please note your collaborators and turn in your own version of your answers. For more info on collaboration, see the course syllabus. Please utilize office hours if you get stuck! Office hours are Tuesday 10:00 - 11:30 and Thursday 4:00 - 5:30 in FB 336. All problems come from the course textbook unless otherwise stated. **Please staple this page to the front of your answers.**

Book Problems: 7.2, 7.3, 7.5, 8.2, 8.4, 8.6, 9.7, 9.16, 10.3/10.4, 10.7

10.3 and 10.4 are basically one problem, they are each worth .5 points. All other problems are worth 1 point.

| Problem | Score |
|---------|-------|
| 7.2 | |
| 7.3 | |
| 7.5 | |
| 8.2 | |
| 8.4 | |
| 8.6 | |
| 9.7 | |
| 9.16 | |
| 10.3 | |
| 10.4 | |
| 10.7 | |
| Total | |

Name/onyen: _____

Collaborators (or write N/A): _____