cs473 Algorithms

Problem Set #1

Prof. Michael A. Forbes — Due: *Fri., 2022-02-02 17:00*

Some reminders about logistics. See the course webpage for full details.

- **Submission Policy:** Submit psets via gradescope. Student psets must obey the following constraints:
  - Each problem starts on its own page.
  - The first page has the following metadata:
    - author(s) of the problem set
      - name(s)
      - netid(s)
    - pset number
    - list of collaborators
- **Collaboration Policy:** Starting with *this* problem set, students are allowed to work in groups of up to three.
- **Late Policy:** Late psets are not accepted. Instead, several lowest-scoring pset problems will be dropped from a students score.

All problems are of equal value.

1. Supercomputer job scheduling. Kleinberg-Tardos Chapter 6, Problem #10.
2. Maximizing addition/multiplication via parenthesization. Erickson Chapter 3, Problem #34 (https://jeffe.cs.illinois.edu/teaching/algorithms/book/03-dynprog.pdf)
3. Inventory management. Kleinberg-Tardos Chapter 6, Problem #26.