Announcements

- **Assignment 4 Out Last Friday**

  - Due May, 18th just before midnight.
    - Probably the most involved one of the quarter, lots of code to write, complex thread interactions to manage.
    - You know everything you need to know to get started, so get going on it.

- **Midterms being returned today**

  - Handout with statistics, solution set, criteria, and words of wisdom can be found right here.
  - Come by today's office hours to pick up your midterm, request a regrade, or talk strategies on how to improve going forward.
    - Today's office hours, by the way, have been moved to be a little later: they're now 1pm to 5pm.
    - Understand that all regrade requests need to go through me, and need to be submitted by June 1st.

- **Today**

  - Work through one final concurrency example so large it deserved its own handout.
    - This one final program—the ice cream store simulation—illustrates all of the many synchronization patterns in one large (but still manageable) program.
    - Full program can be found right here
    - Code for ice cream store simulation isn't inlined into the slides, because it's just too large.
  - Time permitting, introduce networking concepts to prep for Wednesday's lecture.
  - Return midterms

- **Wednesday: Networking**

  - We'll learn how the file descriptor concept is extended to allow data (text, HTML, images, JavaScript) to be read from and written to anywhere—not just to and from local files, from **stdin**, or to **stdout** and **stderr**.
  - We'll study how to write scalable, networked applications using the Berkeley and POSIX sockets API.
  - Reading:
    - Read Sections 4.1 and 4.2 of our second textbook by Saltzer & Kaashoek. These two section provide a wonderful discussion of the client-server model.
    - Read all of Chapter 11 of Bryant & O'Hallaron (which is the third of the four chapters in your reader).