CSC151.02 2013F, Class 34: Pairs and Pair Structures

Overview

- Preliminaries.
  - Admin.
  - Thinking about next semester.
  - Thinking beyond next semester.
  - Questions on exam 2.
- Representing lists: Pairs and cons cells.
- Why care about the underlying representation?
- Lab.

Preliminaries

Admin

- No writeup for today!
- Upcoming extra credit opportunities:
  - Any one Grinnell prize event this week.
  - Thursday extras next week: Reports from internships (I think)
  - Grinnell Town Hall Meeting, Nov 13 noon or 7:30, I believe
  - CS Table, Friday: TBD

Going on in CS

It’s almost time for preregistration. Are you enjoying CS? You should continue.

- CSC 161, Imperative Problem Solving, is the next course.
  - It focuses on on something closer to the Turtle model
  - That is, in 161 we worry much more about sequencing operations and we worry about the state of the system.
  - In 161, we also look much more "behind the scenes" (somewhat like what we’re doing today).
  - 161 uses C as the programming language.
- MAT/CSC 208, Discrete Structures, is also useful. It introduces you to some of the mathematics you need to better understand and analyze algorithms and data structures.
- CSC 195 is my "pre-research" course, but it’s open to all comers.
Thinking Ahead to the Summer

It might also be worthwhile to start thinking about next summer (whether or not you are continuing in CS). You only get three summers of college, so you should make the most of them.

- I’ll tell you a story one of my colleagues told me.
- It sounds a bit too practical for Grinnell, but you should use your summers well.
  - Explore potential directions (it’s fine to have many, but the only way to narrow is to explore).
  - Build skills.
  - Build your resume.
  - Of course, you should also destress and such.
- If you’re interested in CS, you should go to this week’s CS extra and the week 14 CS extra on "Summer Opportunities in CS".
- In any case, you should make the time to visit with the CDO.

General Exam Questions

Representing lists: Pairs and cons cells

Why care about the underlying representation?

Lab

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