CSC207.01 2013F, Class 47: Hash Tables, Continued

Overview

- Preliminaries.
  - Admin.
  - Questions on the Exam.
- Questions on Hash Tables.
- Lab.

Preliminaries

Admin

- We’ll be doing hash table implementations over the next two classes.
- Question for the class: Should I require a textbook next semester?
  - Recommend
  - Maybe gather money for communal textbooks
- Last chance! Is anyone willing to grade for me next semester? You’ll learn new things. Thanks ML and AK
- Upcoming extra credit opportunities:
  - Tuesday, November 26, 4:15 p.m., JRC 209 a gaming event with the game \[d0x3d!\]
  - Any self-care week activity during purgatory week.
  - One Grinnell rally on December 4 at 4pm (unless you are taking photos).

Questions on the exam

For problem 3, is it acceptable if I ignore the implementation specs and, say make a decision to, say, remove the smallest element in the right subtree?

Major changes are not acceptable. For a change like this, I may run a different set of unit tests (since some of the unit tests are designed particularly for the implementation I specified.)

If we pass your unit tests, is that enough for correctness?

Yes, with the exception mentioned above.

For problem 3, how do the unit tests help me identify problems?

There are two kinds of problems that get identified: Those with the regular tests and those with the random tests. If you look at the call stack for the regular tests, you know exactly what input caused it to fail, and so you can step through and see what’s happening. (I usually write experiments.) For the
random tests, you’ll see a printout of the operations used to create the tree. Again, that gives you an
opportunity to write an experiment that tells you what’s happening.

_I know you love invariants. How many are we required to write?_

None. But you’ll find they help.

Questions on Hash Tables

Lab

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