CSC207.01 2013F, Class 41: Implementing Dictionaries with Arrays or Lists

Overview

- Preliminaries.
  - Admin.
    - Questions on the homework.
- Implementing dictionaries, mark I.
- Looking ahead: A better implementation.
- Lab.

Preliminaries

Admin

- Have you decided upon a site for the course and who gets to make the site?
  - If you really don’t want to make your own site, you can feel free to continue to suck data from other sites. Just be reasonable in your usage.
- Reminder: Next Tuesday we’re going to the Digital Commons roundtable.
- I’m going to drop the homework due the week after Thanksgiving so that you can have a better Thanksgiving break.
- I thought it would be useful to remind you of why I teach the way I do.
  - I think you learn a technique better if you’ve thought about the problem before hearing/reading a solution. (And you learn it even better if you develop it yourself.)
  - While I think it’s important that you know how to implement and use key data structures and algorithms, I think it is equally important that you learn techniques that you can apply as you design and build your own algorithms and data structures. (Yes, even though there are many built in to Java and other languages, sometimes efficiency is such a concern that you’ll really want to implement a structure that is tuned to your usage.
    - Plus, interviewers expect that you have these skills.
- Upcoming extra credit opportunities:
  - National Philanthropy Day, today (Donate to a charity of your choice)
  - NO CS TABLE THIS WEEK!
  - Innovation Class, Friday, 12:45, ARH 302, Hilary Mason ’00
  - Career Connections with Hilary Mason ’00, Friday, 4:15-6:30 Burling Lounge
  - Swim meet, Saturday, 3pm
  - Digital Commons talk, Monday, November 18, 7:00 p.m. or so
  - CS Department Talk, Wednesday, November 20, noon
  - "Data Sovereignty: The Challenge of Geolocating Data in the Cloud", November 25, 4:15 JRC
"Gold Fever" by Andrew Sherburne '01 or so, 7:00 p.m., Monday, November 25, ARH 302
O Tuesday, November 26, 4:15 p.m., JRC 209 a gaming event with the game [d0x3d!]

Questions on the homework

Implementing dictionaries, mark I

Looking ahead: A better implementation

Lab

- Fork and clone the repo.
- Read the tests. Assume we’re only testing get/put/remove. What’s missing.
- Run the tests. Did they succeed?
- Read the code. What potential issues do you see?
- New test one: Forthcoming
- New test two: Forthcoming

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