CSC207.01 2013F, Class 55: Course Evaluation

Overview

- Preliminaries.
  - Admin.
  - Questions.
- The subject matter(s) of the course.
- Evaluations.

Preliminaries

Admin

- The final is now available.
  - I may add additional experiments.
  - Please make each folder a separate Eclipse project.
- Upcoming extra credit opportunities:
  - CS Extra: Multiple Models of Mediascripting
  - CS Table Friday: The Reactive Manifesto

Questions on the Final

The subject matter(s) of the course

CSC 207, like most classes, has multiple broad subject matters.

I’ll introduce each category and give a few examples. You discuss in small groups and then share.

- The Java Programming Language
  - Classes
  - Interfaces
  - Objects
  - Control structures: if, while, switch
  - Standard data types:
    - ...
- Object-Oriented Programming
  - The three cores: Encapsulation, Inheritance, Polymorphism
  - Important patterns: Singleton, Adapter, ...
  - ...
- Algorithms
"The literature" - Classic algorithms
- Quicksort
- Binary search
- Dutch national flag
- ...

Techniques
- Primarily: Divide and conquer

Analysis
- Asymptotic
- Invariants
- ...

Abstract Data Types
"The literature" - Classic data types
- Vector-like structures
- List-like structures
- Queues, Stacks, Priority Queues
- Dictionaries
- ...

A design approach

Data Structures
"The literature" - Classic data structures
- Binary search trees
- Heaps
- Hash tables
- ...

Common implementation techniques
A design approach

Software Design
- Testing and experimentation
- Modularity and reuse
- Standards
- ...

Broader Outcomes
- Teamwork
- Stress management (or lack thereof)
- ...

Approaches to Life
- Computers are sentient and malicious (well, Eclipse is)
- Have fun with what you do
- Care
Evaluations

- You’ll fill out paper copies today.
- We’ll debrief informally on Friday.
- I need a volunteer to take them to the science division office.

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