Final Exam Location

- **Time**
  - Friday
  - May 16th
  - 4-6pm

- **Place**
  - Chemistry 1407
  - CHM (Bldg 091)
Question Formats

- True/ false
- Fill-in-the-blank
  - Short answers expected
- Multiple choice
- Analyze complexity
- Apply algorithms
- Design OO solution in UML
- Write code
CMSC 132 Summary

- We covered
  - Object-oriented software development
  - Algorithms & data structures

- Provided brief glimpse of CS applications
  - Human computer interfaces (GUIs)
  - Machine learning (Markov models)
  - High performance computing (Multithreading)
  - Networking, databases

- Hope you improved
  - Programming skills (coding, testing, debugging)
What Comes Next?

- CMSC 212 – Low level programming
  - Treating references as memory addresses (in C)
- CMSC 250 – Discrete structures
  - Simple discrete math & proofs
- CMSC 311 – Computer Organization
  - How computers work
- CMSC 330 – Programming Languages
  - Different programming languages & paradigms
- CMSC 351 – Algorithms
  - Analyze & prove complexity of algorithms
What Comes Next?

- Building computer systems
  - 411 architecture, 412 operating system, 414 security, 417 networking, 430 compilers

- Building software
  - 433 programming technologies, 434 human-computer interfaces, 435 software engineering

- Theory of computing
  - 420 data structures, 451 advanced algorithms, 452 computation theory, 456 cryptology

- Applications
  - 421 artificial intelligence, 423 bioinformatics, 424 databases, 426 image processing, 427 graphics
Computer Science

Very interesting
- Once you get beyond basic programming
- Improvements in software tools make it increasingly easy to provide a lot of functionality with little code

Useful in many fields
- Engineering, physical sciences, biological sciences
- Information management for businesses ($$)

In high demand
- Always in top 10 in # of open job positions
- $52K average starting salary for 2007 grads
- Skilled software professionals always in demand
A Reminder

- Fill in class evaluations
  - [https://www.courseevalum.umd.edu/portal](https://www.courseevalum.umd.edu/portal)
  - Deadline May 14

- Help us improve the course...
Finally…

Good luck on Exam

Have a nice Summer!