CMSC201
Computer Science I for Majors

Lecture 25 – Final Exam Review
Office Hours

• Tuesday (December 13th) is the last day office hours will be held

• Study Day is Wednesday (December 14th)
Exam Rules

• The final is closed everything:
  – No books
  – No notes
  – No cheat sheets
  – No laptops
  – No calculators
  – No phones
Exam Rules

• Place your bookbag under your desk/chair
  – NOT on the seat next to you

• You may have on your desk:
  – Pens, pencils, erasers
  – Water bottle
  – UMBC ID

• You **must** bring your UMBC ID with you to the exam! We won’t accept your test without it.
Exam Rules

• **DO NOT CHEAT!!!**

• Cheating will be dealt with severely and immediately
  – If a TA or instructor sees you looking at another student’s paper they may take your test from you

• Your TA or instructor may ask you to move at any time during the test
  – This doesn’t mean we think you’re cheating
Exam Time

• Final Exam will be held on Thursday, December 15th from 3:30 PM to 5:30 PM

• If you need SDS accommodations, you must request them and notify us ASAP
Exam Locations

• Being held in five separate rooms
  • FA 215 - Sections 9, 15, 18
  • FA 306 - Sections 12, 17, 20, 24
  • ENGR 027 - Sections 2, 4, 6, 8, 14, 16, 22, 23, 27, 30
  • PAHB 132 - Sections 3, 10, 21, 26
  • PUP 105 - Sections 5, 11, 28, 29

• Make sure you go to the correct room!
Exam Seating

• Space allowing, you will sit every other seat, so that you are not next to another student

• The proctor may have specific instructions for the seating arrangement in your room

• Make sure you know how to get to your exam room location – arrive early if possible!
  – Locate your room ahead of time
Questions about Exam Rules?
Exam Format

• Similar to the midterm
  – Going over the slides and making sure you are comfortable with the material would be a good idea
  – Try some of the exercises and practice examples available in the slides
Exam Format

- Multiple Choice
- True/False
- Code evaluation
  - Given code, what does it do?
Exam Format

• Debugging
  – Find and fix errors

• Fill in the blank
  – Complete a piece of partially-written code

• Programming problems
  – Similar to work from assignments and labs
Questions about Exam Format?
Exam Content

• Everything we covered at the beginning!
• From the midterm, you should be familiar with:
  – Evaluating expressions
  – Control structures
    • For Loops
    • While Loops (including Interactive loops)
    • If/Elif/Else
  – Decimal <-> Binary conversion
Exam Content

• From the midterm, you should be familiar with:
  – Lists
    • Indexing (including negative indexing)
    • Appending
  – Debugging
  – Strings
    • String functions like split() and strip()
  – Functions
    • Passing and returning variables
Exam Content

• Everything else we’ve covered so far!
• You should be especially familiar with:
  – File I/O
  – Data structures
    • Tuples
    • Dictionaries
  – Recursion
    • Recursion
    – Recursion
Exam Content

• You should be especially familiar with:
  – Algorithms and analysis
    • Searching algorithms
      – Linear & Binary
    • Sorting algorithms
      – Selection Sort, Bubble Sort, & Quicksort
  – Multi-dimensional lists
    • 2D and 3D lists
    • Printing, creating, copying

You should understand how they work, and know their run times.
Questions about Exam Content?
Exam Advice

• Write down your name and circle your section

• Flip through the exam and get a feel for the length of it and the types of questions

• If a problem is unclear or you think there is an error on the exam, raise your hand
Exam Advice

• Some questions have partial credit
  – You should at least attempt every problem
  – If you don’t know how to do one part of the problem, skip it and do the rest
  – Make sure to pace yourself – this exam is longer than the midterm!
Any Other Questions?
Announcements

• Project 2 out now
  – Due on **Tuesday**, December 13th

• Survey #4 will come out on Friday evening
  – Will be due Wed, December 21st @ 11:59 PM
  – Similar to Survey #1, which asked about your performance on and prep for the midterm exam