CMSC201
Computer Science I for Majors
Lecture 25 – Final Exam Review

Prof. Katherine Gibson
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
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 (or anything other than your own exam) they will take your test from you
Exam Time

- Final Exam will be held on Friday, December 11th from 3:30 to 5:30 PM

- If you need SSS accommodations, you must request them and notify us ASAP

- If you will be unable to take the exam at that time, you must notify your instructor ASAP
Exam Locations

• Being held in three separate rooms
  • Section 1 (Gibson, MW @ 1) – CHEM 030
  • Section 7 (Dixon, TR @ 5:30) – CHEM 030
  • Section 13 (Dixon, TR @ 10) – CHEM 030
  • Section 19 (Morawski, MW @ 4) – PAHB 132
  • Section 25 (Gibson, TR @ 4) – PHYS 101

• 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

• Your instructor may have specific instructions for their lecture hall seating arrangements

• Make sure you know how to get to your exam room location – arrive early if possible!
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?
• Debugging
  – Find and fix errors
• Fill in the blank
  – Complete a piece of partially-written code
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()
Exam Content

• Everything else we’ve covered so far!
• You should be especially familiar with:
  – More control structures
    • Recursion
    • Functions
    – Passing and returning variables
  – File I/O
Exam Content

• You should be especially familiar with:
  – Data structures
    • Tuples
    • Dictionaries
  – Classes
    • Creating a class
    • Data vs class attributes
    • Constructors
    • Built-in methods
Exam Content

• You should be especially familiar with:
  – Algorithms and Analysis
    • Searching algorithms
      – Linear
      – Binary
    • Sorting algorithms
      – Selection
      – Bubble
      – Quick
Exam Content

• You should be especially familiar with:
  – Recursion
    • Recursion
      – Recursion
  – Program design
    • Top down design
    • Creating “good” code
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
Exam Advice

• Most 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!
Exam Advice

• If a problem is unclear or you think there is an error on the exam, raise your hand
Any Other Questions?
Announcements

• Project 2 is out
  – Due by Tuesday, December 8th at 8:59:59 PM
  – Do NOT procrastinate!

• Final is on Friday – Dec 11th, 3:30 – 5:30 PM
  – You **must** bring your UMBC ID with you to the exam!
    We won’t accept your test without it.
  – You can do it! We believe in you!
Review Time!

• What would you like to cover?