

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 held be 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 \leftrightarrow 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