

CMSC201

Computer Science I for Majors

Lecture 25 – Final Exam Review

Prof. Jeremy Dixon

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 held be on Friday,
December 11th from 3:30 to 5:30 PM
- If you need SSS accommodations, you must request them and notify us ASAP
 - Try to schedule for Friday, December 11th
- 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?



“Well, here we go again. ... Did anyone here *not* eat his or her homework on the way to school?”

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 \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()`

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?



CHILDHOOD

A part of life that creates beautiful memories.

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?