

CS 211: Review

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Week 7-1

Logistics

This Week

- ▶ Review (Mon)
- ▶ Exam 1 (Wed)
- ▶ Lab 7 Exercises
- ▶ Midterm Survey Feedback

Goals Today

Exam Review + Game

Open Resource Exam Rules

- ▶ **Silence** your devices
- ▶ Keep device screens visible to instructor
- ▶ Protect your work from theft
- ▶ You may be asked to show your GMU ID

Can Use, physical or electronic

- ▶ Notes
- ▶ Textbook(s) (online ok)
- ▶ Editor
- ▶ Compiler
- ▶ IDE
- ▶ Javadocs
- ▶ Locally stored webpages
- ▶ Dictionary

Cannot Use

- ▶ General Internet
- ▶ Piazza
- ▶ Downloaded applets
- ▶ Chat
- ▶ Texting
- ▶ Communication with anyone but Instructor/Proctor

*If you aren't sure of something,
ask*

Exam 1 Topics

Every PL

- ▶ ☒ Comments
- ▶ ☒ Statements/Expressions
- ▶ ☒ Variable Types
- ▶ ☒ Assignment
- ▶ ☒ Basic Input/Output
- ▶ ☒ Conditionals (if-else)
- ▶ ☒ Iteration (loops)
- ▶ ☒ Aggregate data (arrays, structs, objects, etc)
- ▶ ☒ Function Declarations
- ▶ ☒ Library System

General and Java Concepts

- ▶ Basic Memory Diagrams
 - ▶ Stack, Heap
 - ▶ `static`, not static
- ▶ Deep and Shallow Equality
- ▶ Overloading Methods
- ▶ Creating Classes
- ▶ Inheritance
- ▶ Overriding Methods
- ▶ Dynamic Dispatch
- ▶ Abstract Classes

Questions on any of these?

Jeopardy

A quick demo for those not in the know: A famous game, watch from 29:00-31:00

- ▶ [YouTube Link](#)
- ▶ First to buzz in answers
- ▶ Question right: gain points
- ▶ Question wrong: lose points
- ▶ Get it right, pick next question
- ▶ Can pick anything available on the board
- ▶ Higher point values are "harder" questions

Java Jeopardy

Problems

- ▶ More than 3 players
- ▶ No buzzers
- ▶ Harder Questions

Solutions

- ▶ Answers are **NOT** in the form of a question (unless specified)
- ▶ Write your answer **on a piece of paper**
- ▶ "Buzz in" by putting your paper in the air (must stop writing)
- ▶ I will assign ranks 1,2,3
- ▶ Correct answers get points for ranks 1,2,3
- ▶ Wrong answers **lose points** for ranks 1,2,3
- ▶ One of rank 1,2,3 describes correct answer
- ▶ Highest rank correct answer picks next question