







CMPU 101 § 53 · Computer Science I

Exam 1 Review

20 February 2024



www.cs.vassar.edu/~cs101/53/#current			
<i>Recursive programs</i>	Feb. 20	Feb. 22	Feb. 23
	Review session	Generative recursion	Exam 1
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<i>Simulation and interaction</i>	Feb. 27	Feb. 29	Mar. 1
– Read 26 Interactive games as reactive systems	Reactive programs	Graphs and simulation	Lab 6: 99 red balloons
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<i>Spring Break</i>	Mar. 5	Mar. 7	Mar. 8
			
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<i>Spring Break</i>	Mar. 12	Mar. 14	Mar. 15
			
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<i>Python</i>	Mar. 19	Mar. 21	Mar. 22

Logistics

75 points / 75 minutes

Aim to budget your time as about one point per minute.

You actually have 120 minutes (the full lab period), so time shouldn't be an issue.

The exam will be on paper, with the computers put away.

Help me out: Write neatly and make your final answer obvious.

During the exam you can refer to one 8½×11-inch piece of paper, double-sided, with any notes you want handwritten on it.

Preparing this sheet of notes is an excellent way to study, encouraging you to consider what's important that you'll want to refer to.

They won't be graded, but you will be asked to turn in your notes with the exam.

During the exam, feel free to ask any questions.

If something on the exam is unclear (or a mistake!), I'll give a clarification to everyone.

If a question is about what a problem is trying to test, I may decline to answer during the exam.

You are on your honor not to discuss the contents of the exam with anyone until everyone has taken the exam.

All of the sections of CMPU 101 are taking their exams on Friday, at different times – and there will be students making up the exam the next week.

We'll let you know when everyone's taken it, but that might not be until right before Spring Break.

You are generally responsible for the material in

Chapters 3–7 of *A Data-Centric Introduction to Computing*,

Lectures up to Feb. 15,

Labs 1–5, and

Assignments 1–4.

You should expect questions focusing on

Pyret expressions and their evaluation

Functions, including testing

Processing tables with higher-order functions

Processing lists with higher-order functions

Writing recursive functions for recursive data like trees

How to study:

(Re)read the textbook and do the exercises labeled “Do Now!”

(Re)read the class slides and try the practice problems without looking at the solutions

Review the example solutions we’ve emailed you for labs and assignments

Review problems

Practice exam:

www.cs.vassar.edu/~cs101/53/exams/exam1-practice.pdf

Example solutions:

www.cs.vassar.edu/~cs101/53/exams/exam1-practice-solns.pdf

