

CS 61A: Structure and Interpretation of Computer Programs

Spring 2023, Instructors: John DeNero, Hany Farid

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Friday, April 28

Jump to date

- Scheme project due Friday, 4/28.
- Homework 10 Due Tuesday 5/2.
- Homework 11 Due Thursday 5/4.
- Final exam Tuesday 5/9 11:30am.
 - Read the logistics post.
 - Alteration request form due Monday 5/1.
 - The [mt1](#), [mt2](#), and [final](#) study guides will be provided.

Week 15 Class Material

- Lecture 36: Aggregation [Videos](#) [Recording](#) [Slides \(1pp\)](#) [Slides \(4pp\)](#) [Slides \(full\)](#) [36.py](#) [36.sql](#)
- Lecture 37: Final Examples [Recording](#) [Slides \(1pp\)](#) [Slides \(4pp\)](#) [Slides \(full\)](#) [37.py](#)
- Lecture 38: Conclusion [Recording](#)
- Week 15 Readings:
- Disc 13: Final Review [Solutions](#)

Week 15 Resources

- (Fall 2021) Jonathan's SQL Worksheet (Adapted from Colin's) [Solutions](#)
- (Spring 2021) Study Guide: SQL
- (Spring 2020) Jade's SQL Guide
- (Fall 2017) Minilecture: SQL Intro
- (Summer 2017) Michael's SQL Review Slides

More resources

Current Assignments

Calendar

Week	Date	Lecture	Textbook	Lab & Discussion Links	Homework & Project
1	Wed 1/18	Computer Science Recording Slides (1pp) Slides (4pp) Slides (full) 01.py		Disc 00: Getting Started Video Lab 00: Getting Started Due Wed 1/25	
	Fri 1/20	Functions Recording Slides (1pp) Slides (4pp)	Ch. 1.1 Ch. 1.2		HW 01: Functions, Control Due Thu 1/26 Solutions
2	Mon 1/23	Control Recording Slides (1pp) Slides (4pp) 03.py 03.ipynb	Ch. 1.3 Ch. 1.4 Ch. 1.5	Lab 01: Functions, Control Due Wed 1/25 Solutions	
	Wed 1/25	Environments Videos Recording Slides (1pp) Slides (4pp) Slides (full) 04.py	Ch. 1.3 Ch. 1.4 Ch. 1.5	Disc 01: Control, Environment Diagrams Solutions Video	
	Fri 1/27	Higher-Order Functions Videos Recording Slides (1pp) Slides (4pp) Slides (full) 05.py	Ch. 1.6		HW 02: Higher-Order Functions, Lambda Expressions Due Thu 2/2 Solutions
3	Mon 1/30	Higher-Order Environments Videos Recording Slides (1pp) Slides (4pp) Slides (full) 06.py	Ch. 1.6	Lab 02: Higher-Order Functions, Lambda Expressions Due Wed 2/1 Solutions	Hog Checkpt Tue 2/7 Due Fri 2/10 Getting Started Videos
	Wed 2/1	Functional Abstraction Videos Recording Slides (1pp) Slides (4pp) Slides (full) 07.py		Disc 02: Environment Diagrams, Higher-Order Functions Solutions Video	
	Fri 2/3	Midterm Review Videos Recording Slides (1pp)		Lab 03: Midterm Review (Optional) Due Mon 2/6 Solutions	
4	Mon 2/6	No lecture: Midterm 1 (7pm-9pm)			
	Wed 2/8	Recursion Videos Recording Slides (1pp) Slides (4pp)	Ch. 1.7	Disc 03: Recursion Solutions Video	
	Fri 2/10	Tree Recursion Videos Recording Slides (1pp)	Ch. 1.7		HW 03: Recursion, Tree Recursion Due Fri 2/17 Solutions
5	Mon 2/13	Sequences Videos Recording Slides (1pp) Slides (4pp) Slides (full) 11.py	Ch. 2.1 Ch. 2.3	Lab 04: Recursion, Tree Recursion, Python Lists Due Wed 2/15 Solutions	
	Wed 2/15	Containers Videos Recording Slides (1pp) Slides (4pp) Slides (full) 12.py	Ch. 2.3	Disc 04: Tree Recursion, Python Lists Solutions Video	Cats Checkpt Tue 2/21 Due Fri 2/24 Getting Started Videos
	Fri 2/17	Data Abstraction Videos Recording Slides (1pp) Slides (4pp) Slides (full)	Ch. 2.2		
6	Mon 2/20	No Lecture: President's Day		Lab 05: Data Abstraction, Sequences Due Wed 2/22 Solutions	
	Wed 2/22	Trees Videos Recording Slides (1pp) Slides (4pp) Slides (full) 14.py	Ch. 2.3	Disc 05: Trees Solutions Video	
	Fri 2/24	Mutability Recording Slides (1pp) Slides (4pp) Slides (full) 15.py	Ch. 2.4		HW 04: Trees, Data Abstraction Due Thu 3/2 Solutions
7	Mon 2/27	Iterators Videos Recording Slides (1pp) Slides (full) 16.py	Ch. 4.2	Lab 06: Mutability, Iterators Due Wed 3/1 Solutions	
	Wed 3/1	Generators Videos Recording Slides (1pp) Slides (4pp) Slides (full) 17.py	Ch. 4.2	Disc 06: Mutability, Iterators, Generators Solutions Video	
	Fri 3/3	Gates & Circuits (Optional) Recording Slides (1pp)	Ch. 2.5		HW 05: Generators Due Thu 3/9 Solutions
8	Mon 3/6	Objects Recording Slides (1pp) Slides (4pp) 19.zip	Ch. 2.5	Lab 07: Object-Oriented Programming Due Wed 3/8 Solutions	
	Wed 3/8	Objects 2 Recording Slides (1pp) Slides (4pp)	Ch. 2.5	Disc 07: Object-Oriented Programming Solutions Video	
	Fri 3/10	Objects 3 Recording Slides (1pp) Slides (4pp)	Ch. 2.5		HW 06: Object-Oriented Programming Due Thu 3/16 Solutions
9	Mon 3/13	Inheritance Videos Recording Slides (1pp) Slides (4pp) Slides (full) 22.py	Ch. 2.5	Lab 08: OOP, Inheritance Due Wed 3/15 Solutions	Ants Checkpt 1 Fri 3/17 Checkpt 2 Tue 3/21 Due Fri 3/24 Getting Started Videos
	Wed 3/15	Representation Videos Recording Slides (1pp) Slides (4pp) Slides (full) 23.py	Ch. 2.7	Disc 08: OOP, Inheritance, String Representation Solutions Video	
	Fri 3/17	Efficiency Videos Recording Slides (1pp) Slides (4pp) Slides (full) 24.py 24.ipynb	Ch. 2.8		
10	Mon 3/20	Trees 2 Recording Slides (1pp)		Lab 09: Mutable Trees, Efficiency Due Wed 3/22 Solutions	
	Wed 3/22	Linked Lists Recording Slides (1pp)		Disc 09: Linked Lists, Efficiency, Mutable Trees Solutions Video	
	Fri 3/24	Ask Us Anything (Optional)			HW 07: Linked Lists, Mutable Trees Due Thu 4/6 Solutions
11	Mon 3/27	No Lecture: Spring Break			
	Wed 3/29	No Lecture: Spring Break			
	Fri 3/31	No Lecture: Spring Break			
12	Mon 4/3	Ethics and Bias in Computer Science Recording Slides (1pp)		Lab 10: Midterm Review (Optional) Due Wed 4/5 Solutions	
	Wed 4/5	Data Examples Videos Recording Slides (1pp) Slides (4pp) Slides (full) 29.py			
	Fri 4/7	No lecture: Midterm 2 (7pm-9pm)			
13	Mon 4/10	Scheme Videos Recording Slides (1pp)	Ch. 3.1 Ch. 3.2	Lab 11: Scheme Due Wed 4/12 Solutions	HW 08: Scheme Due Thu 4/13 Solutions
	Wed 4/12	Scheme Lists Videos Recording Slides (1pp)	Ch. 3.2	Disc 11: Scheme, Scheme Lists Solutions Video	
	Fri 4/14	Calculator Videos Recording Slides (1pp) Slides (4pp) Slides (full)	Ch. 3.3 Ch. 3.4		HW 09: Scheme Lists Due Thu 4/20 Solutions (Optional) Scheme Contest Due Tue 4/25
14	Mon 4/17	Interpreters Videos Recording Slides (1pp) Slides (4pp) Slides (full)	Ch. 3.5	Lab 12: Scheme Lists, Interpreters Due Wed 4/19 Solutions	Scheme Checkpt 1 Fri 4/21 Checkpt 2 Tue 4/25 Due Fri 4/28 Getting Started Videos
	Wed 4/19	SQL Videos Recording Slides (1pp) Slides (4pp) Slides (full) 34.sql		Disc 12: Interpreters, SQL Solutions Video	
	Fri 4/21	Tables Videos Recording Slides (1pp) Slides (4pp) Slides (full) 35.sql			
15	Mon 4/24	Aggregation Videos Recording Slides (1pp) Slides (4pp) Slides (full) 36.py 36.sql		Lab 13: SQL Due Wed 4/26 Solutions	HW 10: SQL Due Tue 5/2 Solutions
	Wed 4/26	Final Examples Recording Slides (1pp) Slides (4pp) Slides (full) 37.py		Disc 13: Final Review Solutions	
	Fri 4/28	Conclusion Recording			HW 11: Finale Due Thu 5/4 Solutions Scheme Gallery Due Thu 5/4
16	Mon 5/1	No Lecture: RRR Week			
	Wed 5/3	No Lecture: RRR Week			
	Fri 5/5	No Lecture: RRR Week			
17	Tue 5/9	Final (11:30am-2:30pm)			