



CS 61A SU26

# Lecture 12: Midterm Review

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We'll begin at Berkeley time (10 minutes after), as per tradition!

# Potpourri

10 min


- Announcements
- Computing in the News
- WWPD: try-finally
- Follow-Up to Lecture 11:  
Make Acronym

# Announcements

- **Midterm exam is Mon 7/13 from 7-9 pm:** [Ed](#) logistics post has been released
  - Update to cheat sheet policy: [Ed post](#)
  - Even more resources: [Ed post](#)
  - A note on scope: Debugging and Exceptions [practice](#)
    - Note typos/clarifications at the top of the page before reviewing solutions
    - Some things might be out of scope or different from 61A
- **Quiz 2 grades [released](#)**
- **HW 3 [released](#)**, which includes the mid-semester feedback survey which is 1 of 2 [required surveys](#) and is due Wed 7/15 at 11:59 pm PT
  - **No extensions on the survey** (but you can still request an extension on the HW itself; they're graded separately)

- [OpenAI releases new voice models for more natural live conversations](#) (TechCrunch)
- [Say hello to Claude Wrapped](#) (The Verge)
- ['They Now Wait for This Storm to Pass' — PS5 Owners Are Cancelling PlayStation Plus Subscriptions to Protest Sony Killing Discs, but Analysts Say It Won't Make Any Difference](#) (IGN)

When poll is active respond at [PollEv.com/rebeccadang831](https://PollEv.com/rebeccadang831)

 Activate this Poll with the Poll Everywhere Live app.

 If video conferencing, you must be sharing your full screen to share the activated poll.




## What would Python display?



### Why didn't the print output show up when we ran the doctests for `make_acronym`?

- It turns out that the `doctest` module does not show print output at all if an exception occurs during the doctest
- That's why the print output showed up for the `'CPU'` doctest (no errors), but not for the `'UI'` doctest (`IndexError`)
- This has been reported as a [GitHub issue in CPython](#) (the standard implementation of Python) as far back as 2008, but was only "closed as not planned" (e.g. this is a feature, not a bug) in 2025
- It's technically in the `doctest` documentation, but as a [footnote](#) at the bottom, and I wrongly assumed it behaved like OkPy doctests

But what about OkPy? Why am I able to use `print("DEBUG:")` and have those lines show up and not affect the test correctness?

- This is because OkPy was created by 61A course staff many years ago and utilizes the `doctest` advanced API to customize how doctest output is checked (here's the [file](#) that handles this)
- Specifically, it defines a subclass of [OutputChecker](#) to detect print debug lines with regular expressions and strip them from the output that is checked by the doctest module
- Takeaways
  -  Don't make assumptions without verifying them
  -  Documentation is your friend
  -  The power of abstraction

## Follow-Up to Lecture 11: Make Acronym (3 of 3)

- As a result, I've updated the Lecture 11 [slides](#) and [GitHub repository](#) to use `pytest` instead of `doctest` because it allows us to see print output when running the tests
  - Look under `Captured stdout call` at the end of each test
    - `stdout` is short for "standard output," aka the place where things are normally printed (your terminal)
  - You'll have to **redownload the repository** (be careful where you download it, otherwise it might overwrite what you did yesterday)
- Let's demo how this exercise was supposed to go!

# Midterm Review

70 min

- One Cent
- Escape Lumon
- All Treeils Lead
- Multi Compose

One of our tutors, Chloe, has compiled a [list](#) of helpful past problems. We'll do a subset of these today!

[Combined PDF](#) (blank and solutions for all questions)

Original links to full exam PDFs:

1. CS 61A FA22 Final Q7: One Cent ([blank](#), [sol](#))
2. DATA C88C SP25 MT Q7: Escape Lumon ([blank](#), [sol](#))
3. CS 61A SU23 MT Q6 (a) and (b): All Treeils Lead to Rome ([blank](#), [sol](#))
4. CS 61A SU24 MT Q6: Multi Compose ([blank](#), [sol](#))