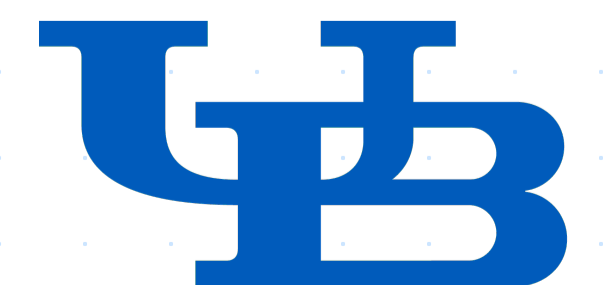


# CSE 410 – Advanced Data Structures

## Topic 01: Course Introduction

Oliver Kennedy

(soon to be CSE 350)



Who: Oliver Kennedy  
Where: Capen 212  
When: 12-1:50

Weds



Wrong Capen



Take This Elevator



Course Discussion: Piazza

<https://piazza.com/buffalo/spring2024/cse410>



Course Website/Syllabus

<https://odin.cse.buffalo.edu/teaching/cse-350/2024sp>



Project/Homework Submission

<https://autolab.cse.buffalo.edu/courses/cse410-s24>

↳ Programming Assignments (60%)

↳ Written Reflections (10%)

↳ Midterm (15%)

↳ Final Exam (15%)

| Score (x)                | Letter Grade | Quality Points |
|--------------------------|--------------|----------------|
| $90\% \leq x \leq 100\%$ | A            | 4.0            |
| $85\% \leq x < 90\%$     | A-           | 3.67           |
| $80\% \leq x < 85\%$     | B+           | 3.33           |
| $75\% \leq x < 80\%$     | B            | 3.00           |
| $70\% \leq x < 75\%$     | B-           | 2.67           |
| $65\% \leq x < 70\%$     | C+           | 2.33           |
| $60\% \leq x < 65\%$     | C            | 2.00           |
| $55\% \leq x < 60\%$     | C-           | 1.67           |
| $50\% \leq x < 55\%$     | D            | 1.00           |
| $0\% \leq x < 50\%$      | F            | 0              |

250

Ram Madan

+ FEM model

+ Access Patterns

+ Structure

350

460

+ SQL

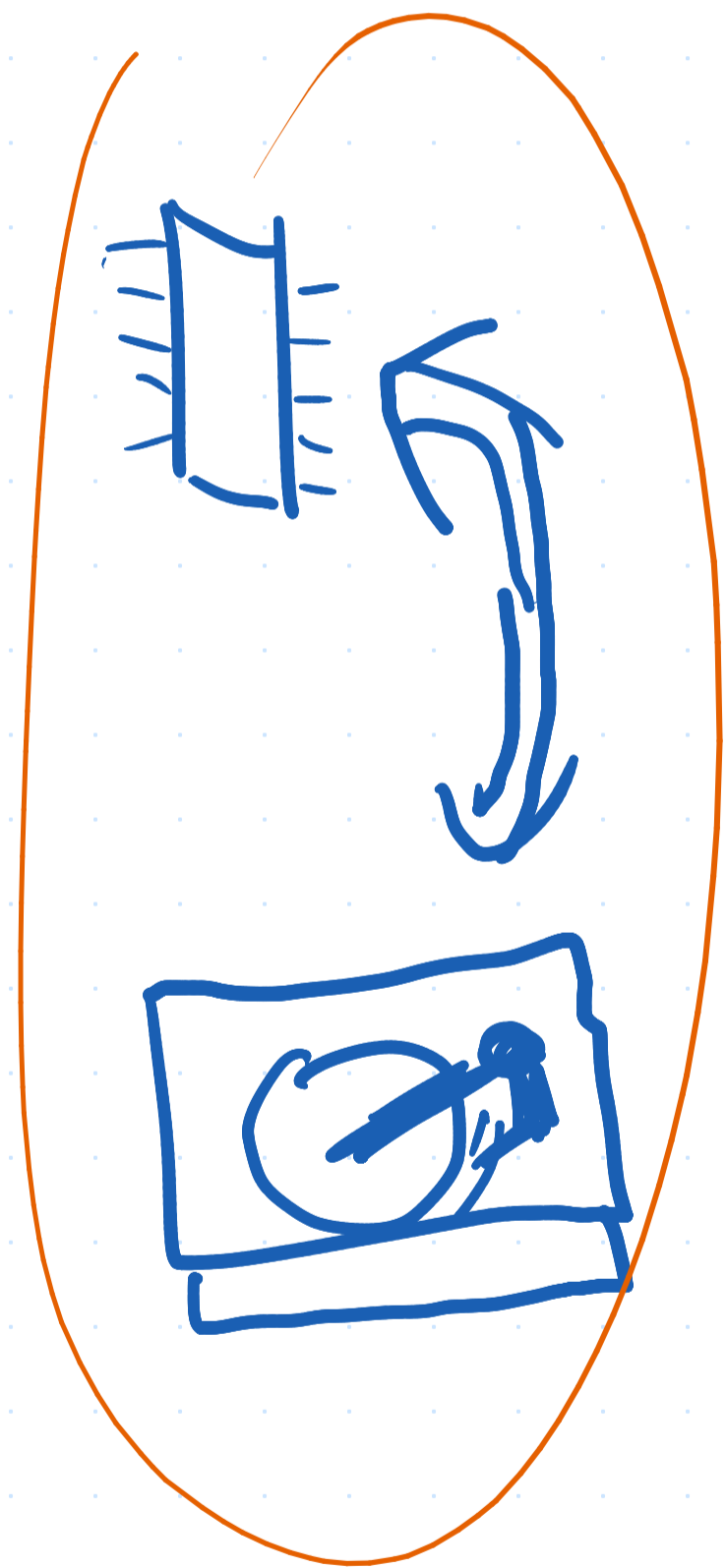
+ Record Storage

+ mutability

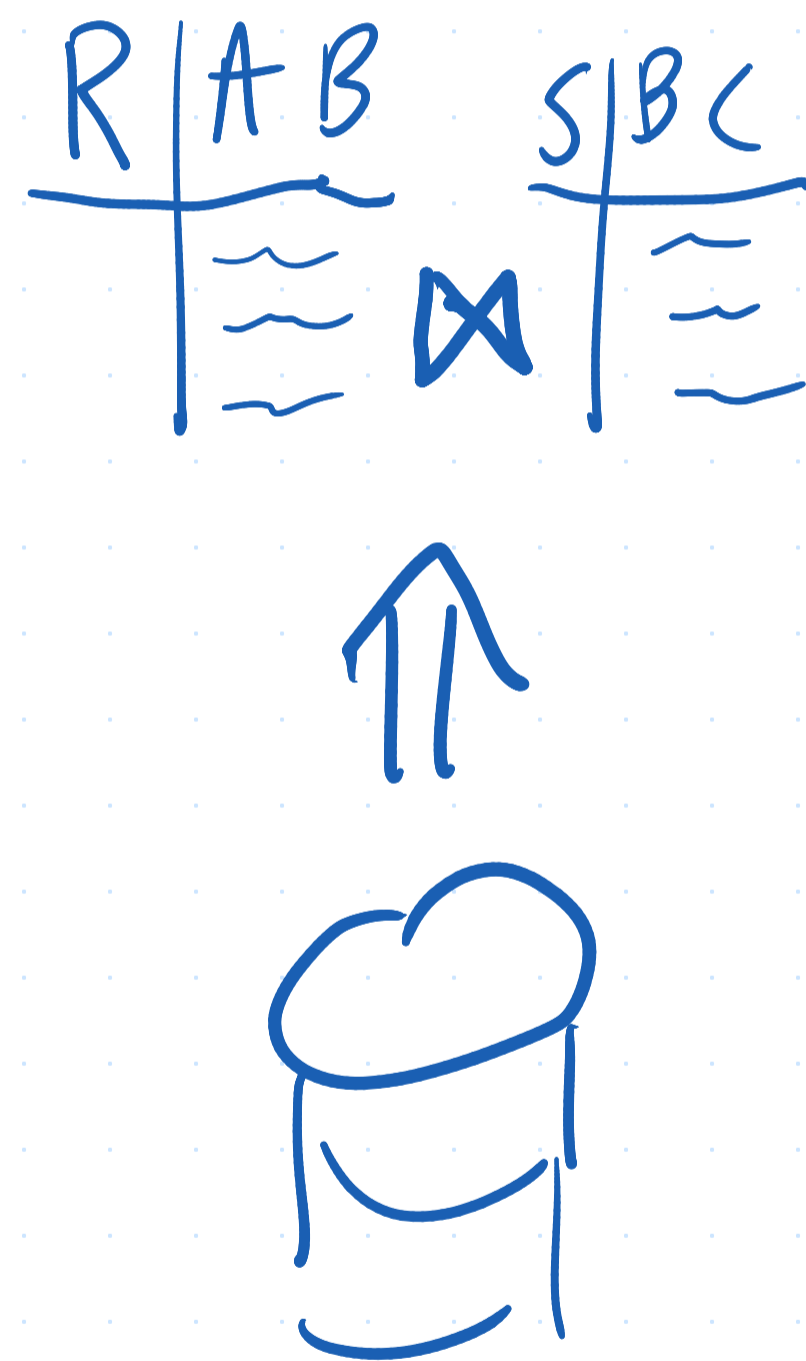
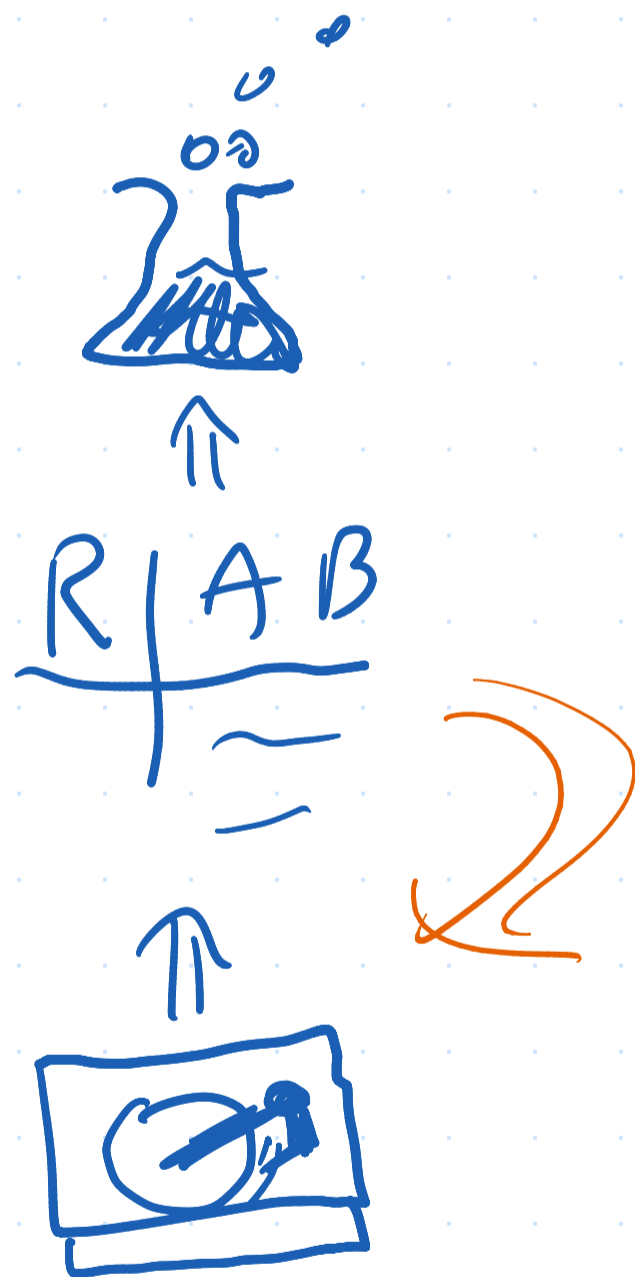
462

What is this course?

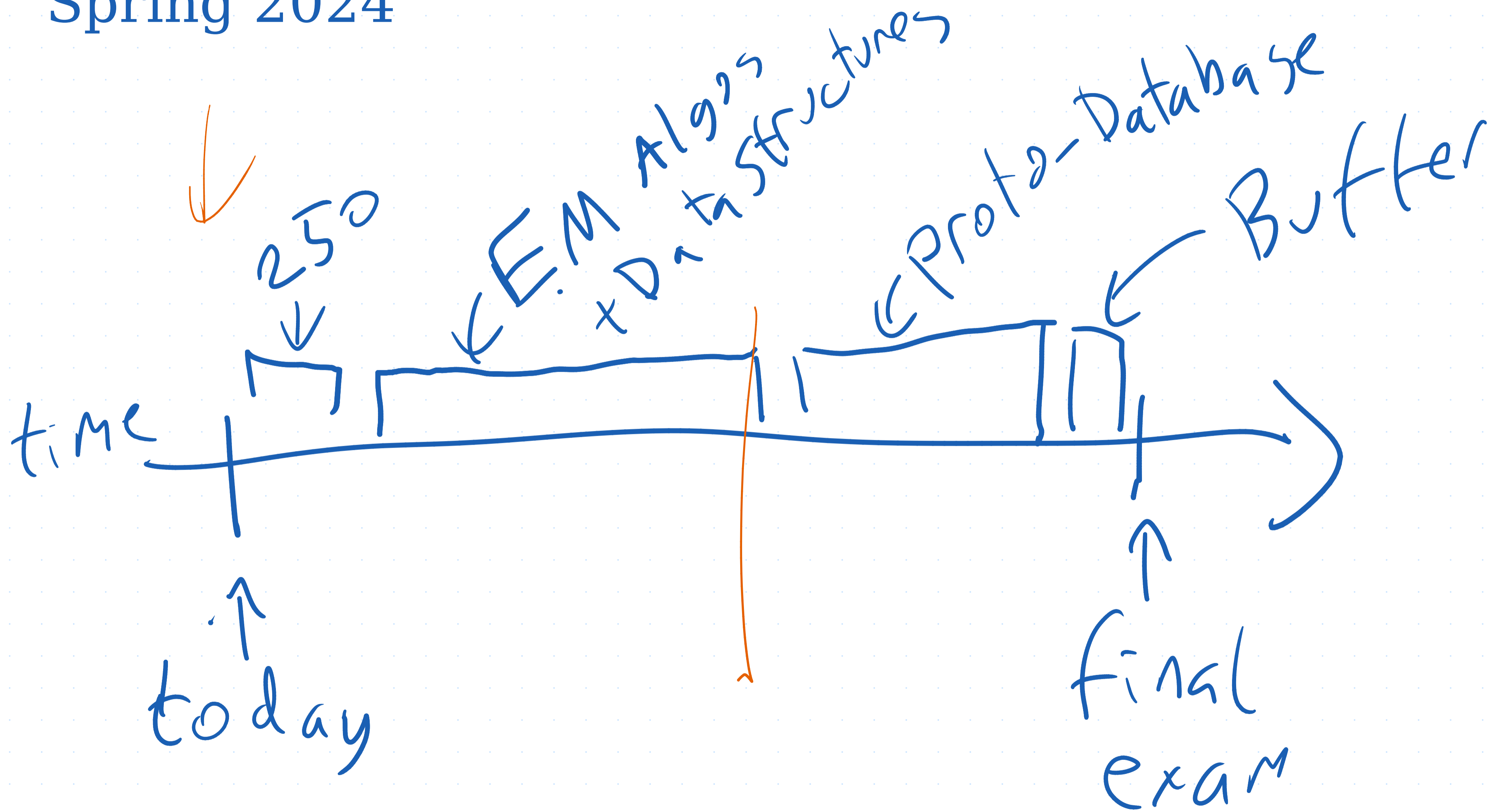
# What will you learn?



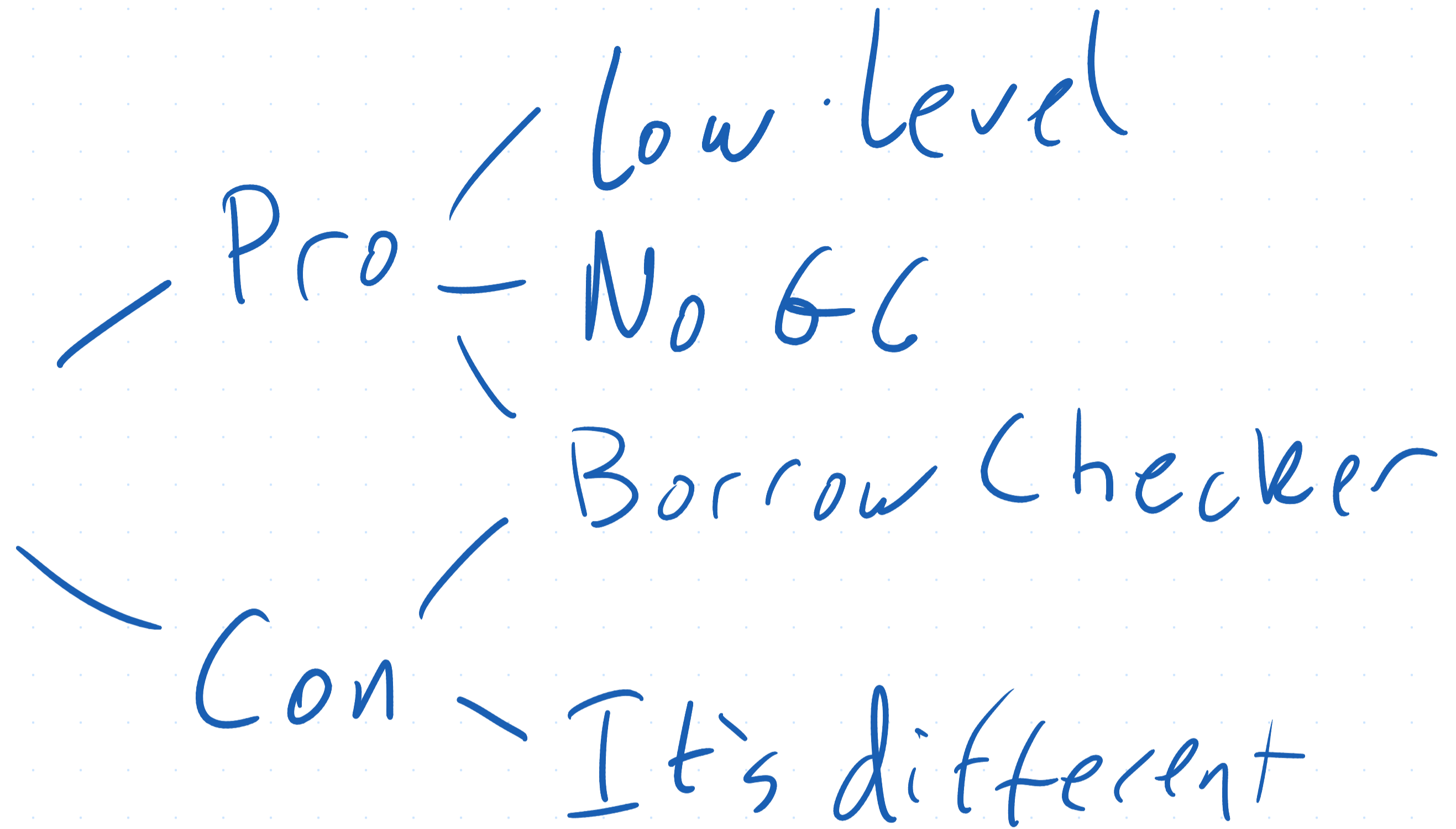
How to use EM



Spring 2024



# Projects





## Rust



Book: <https://doc.rust-lang.org/book/>



Standard Library: <https://doc.rust-lang.org/std/index.html>



Brown U's Interactive Tutorial: <https://rust-book.cs.brown.edu/>



Tools for Rust Development: <https://www.rust-lang.org/tools>

- P0 Setup
  - P1 Binary Search
  - P2 B+Tree
  - P3 LSM tree
  - P4 Buffer Manager
  - P5 Concurrency
- 