


**Computational Structures in Data Science**

**UC Berkeley EECS**  
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**Review**

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**Computational Concepts Toolbox**

- Data type: values, literals, operations,
- Expressions, Call expression
- Variables
- Assignment Statement
- Sequences: tuple, list
- Data structures
- Tuple assignment
- Call Expressions
- Function Definition Statement
- Conditional Statement
- Iteration: list comp, for, while
- Higher Order Functions
  - Functions as Values
  - Functions with functions as argument
  - Assignment of function values
- Higher order function patterns
  - Map, Filter, Reduce
- Function factories – create and return functions
- Recursion
- Abstract Data Types



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**Administrative Issues**

- Midterm today, Friday 7/10 7-8:30 pm in **540 Cory**.
  - 8.5 x 11 Cheat sheet, both sides (yours)
  - Midterm study sheet (we will provide it), discussed today
- No make-up midterm. Clobber policy applies.

New policy:

- Projects: Slip days, then 10% (2 points) penalty per day.
- Homework/Lab: Slip days, then 0 points.

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**Q&A**

- Review of midterm study guide
- Your Questions!

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