

Coming Up

- Friday: Sorting
- Monday: Sorting
- Tuesday: A3!
- Wednesday: Complexity
- Friday: Complexity
- Several days, there will not be review or prep questions.

Office Hours

- We have an assignment coming up due *soon*.
- On Monday: Office hours from 11-12 but NOT from 4-5.
- Exam Office Hours (for the week of Dec 1) have been posted on the board

The Problem

- Take a list of items and put them into order, according to some key. Examples:
 - sort ints by value
 - sort strings by length
 - sort students by student number
- We might sort into non-ascending or non-descending order.
- Why don't I just say descending or ascending order?

Why is Sorting Important?

- Searching can be significantly faster if the list is sorted.
- And sometimes we want a sorted list for other reasons.
Example: A user may want to see book recommendations in order by their star-rating

Sorting Techniques

- In real life, how would you sort:
 - Playing cards in your hand?
 - A stack of midterms
- There are many sorting techniques!
- We'll compare several.