

# For Monday

- Read Weiss, chapter 2
  - This is tough going, but make a serious attempt.
- C++ practice 5 due

# Files in C++

- ifstream
- ofstream
- Names must be c-strings
- Same basic operators

# File reading loops

- No look ahead . . .
- Think sentinel

# Math

- Series are somewhat important
- Focus will be on understanding the book's analyses, rather than doing the analysis yourself
- Do try to understand – memorizing is not helpful – there's a BIG difference between  $\log(n)$  and  $n \log(n)$ , but only if you understand what you're talking about

# Recursion

- What is recursion?
- How does it work?

# Weiss's 4 Rules of Recursion

- What are they?

# Factorial

- Base case?
- Recursive part?
- Is recursion the best approach?

# Fibonacci Numbers

- The problem
- Base case?
- Recursive part?
- Is recursion the best approach?

# Recognizing a Palindrome

# Algorithm Analysis

- What's the goal?

# The Selection Problem

- What is it?