Before Class:

• Journal Up

1. Basics

• Worst-case review
• When is worst case good enough?
• Is average case ever good enough?
• What if we don’t know the distribution?

2. Randomization

• Make each possible input have equivalent running times.
• Expected Case
• Random Number Generators
• How do we get a random permutation?
• Random indicator variables
• Birthday paradox

3. Quicksort Analysis

• Worst-case
• Expected-case
• Faster Quicksort?

Next Class:

• Selection - how to find the nth element in an unsorted list
• Evaluations!