

Slide 1

Administrivia

- Reminder: Homework 2 code due today. (Was my e-mail of last week helpful?)
- Homework 3 due dates posted.

Slide 2

Sorting and Searching — Review

- Sorting — putting elements of a list or array in order (according to some notion of ordering). Various methods; for now you should understand the simple/slow ones (bubble sort, insertion sort, selection sort).
- Searching — looking for an element in a list or array. You should understand sequential and binary search.

Sorting and Searching — Example Code

- Look at example code for “instrumented” sort (counts number of comparisons) . . .
- Look at example code for sequential/binary search.

Slide 3

Sorting and Searching Arrays in Java

- Writing your own sorting routines is pedagogically useful, but in practice you would probably use something from Java library. `Arrays` class has some useful methods.
- One thing that's nice about Java is “polymorphic sorting”; can sort objects of any class that implements `Comparable`. Can also provide, when you call `Arrays.sort`, a `Comparator` that defines the ordering you want. Example: case-insensitive sorting of strings.
- (Examples.)

Slide 4

Minute Essay

- None — quiz.

Slide 5