

Computer Science 136

Data Structures

Lecture #14 (October 18, 2021)

1. Announcements:

- (a) TA evaluation out this afternoon.
- (b) Lab 4 out tomorrow afternoon.
- (c) We're still grading...
- (d) Questions?

2. Cleaning up some final threads on sorting.

- (a) Instrumenting `BubbleSort` with a `Comparator`.
 - (b) Writing a `Comparator` class.
 - (c) Specifying a *lambda expression* to do the same thing.
 - (d) The stability of sorts:
 - i. A sorting technique is *stable* if it doesn't allow equal values to "pass" each other during the sorting process. Which methods are stable?
 - ii. Is bubble sort stable?
 - iii. Is selection sort stable?
 - iv. Is insertion sort stable?
 - v. Is quicksort stable?
 - vi. Is mergesort stable?
 - vii. Thought question: How might we make an unstable sort stable?
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Notes: