Homework 6, Basic Algorithms, Spring 2014.
Due date: Tuesday, March 11.

Do the sample midterm exam.
Problems 5.30 (a priority queue is a heap), 5.23, and 5.33 from the text.
Hint for 5.23. As your algorithm identifies equal valued items it is going to want to keep them in a separate linked list, one for each distinct value. Note that you need to explain why your algorithm achieves $O(n \log \log n)$ running time.

**Honors Section.** Problem 5.10 and 5.21 in addition.