

CSE780 Homework 2
Due Wednesday, Jan. 19

1. Page 226: 9-3(a,b,c) (3rd edition), 194: 9-3 (a,b,c) (2nd edition), 10-3 (1st edition)
2. Page 293: (12.2-7) (3rd edition), Page 260: 12.2-7 (2nd edition), 250: 13.2-4 (1st edition)
3. Let $X[1..n]$ and $Y[1..n]$ be arrays, each containing n integers and each sorted in non-decreasing order. Write an algorithm that finds the median of the $2n$ combined elements. Analyze the worst-case running time. To receive full credit, your algorithm must run in $O(\log n)$ time.

(The grader will only grade a subset of these problems.)