

Computer Science 373 – Analysis of Algorithms  
Prof. Steven Skiena  
Fall 2020

Homework 2 – Sorting  
Due Thursday, October 1, 2020

To facilitate grading, limit the solution of each problem to the front side of a single sheet of paper. You may put two or more problems on a single side if they completely fit, but keep the problems in order. Solutions must be submitted via BlackBoard, with each partner submitting the same full assignment.

Please don't wait until the last minute to look at the problems. All numbered problems come from the second edition of *The Algorithm Design Manual*, by Skiena.

1. Problem 4-1.
2. Problem 4-2.
3. Problem 4-5.
4. Problem 4-6.
5. Problem 4-12
6. Problem 4-13.
7. Problem 4-14.
8. Problem 4-15.
9. Problem 4-16.
10. Problem 4-20.
11. Problem 4-22.
12. Problem 4-24.

Interested students may attempt the extra credit programming challenges problems described at the end of the relevant chapters for a small amount of additional points – small enough that you should be motivated primarily by interest and not greed.