CS 5200 Fall 2019 HW 05

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Due Friday, November 01, 2019, 11:59PM

Submit your HW as a single PDF file that contains all the answers to the individual questions, all pictures, all code, and all code output. This should all be well-organized and attractively laid out. This file will contain all the grading feedback after your work is graded.

Problems

All the problems are from the Cormen, Leiserson, Rivest, and Stein book.

1. (5 points) Do Problem 13.3-2 on p. 322.

2. (5 points) Do Problem 13.4-3 on p. 330.

3. (15 points) Do Problem 15.2-2 on p. 378. Implement your algorithm and submit some sample runs to verify that it is correct.

4. (5 points) Do Problem 15.4-1 on p. 396.

5. (5 points) Do Problem 15.4-5 on p. 397. Just describe the algorithm. You do not need to code it.

6. (5 points) Do Problem 16.1-3 on p. 422.

7. (10 points) Do Problem 16.2-5 on p. 428. Just describe the algorithm. You do not need to code it.

8. (5 points) Do Problem 16.3-3 on p. 436.

9. (10 points) Do Problem 17.4-3 on p. 471.

10. (5 points) Do Problem 18.2-1 on p. 497.

11. (5 points) Do Problem 18.3-1 on p. 350.

12. (5 points) Do Problem 19.2-1 on p. 518.

13. (5 points) Do Problem 19.4-1 on p. 526.

14. (15 points) Do Problem 21.3-2 on p. 572. Implement your algorithm and submit some sample runs to verify that it is correct.