

CSCI 4320 (Principles of Operating Systems), Fall 2008

Homework X

Assigned: December 16, 2008.

Due: December 18, at noon. *Not accepted late.*

Credit: Up to 20 extra-credit points.

1 General Instructions

Answer as many (or few) of the following questions as you like. (Notice, however, that you can receive at most 20 extra-credit points.)

I am also open to the possibility of giving extra credit for other work — other problems from the textbook, a report on something course-related, etc. If you have an idea for such a project, let's negotiate (by e-mail or in person).

For this assignment, please work individually, without discussing the problems with other students. If you want to discuss problems with someone, talk to me.

2 Problems from Chapter 9 (Security)

For these problems, please submit hard copy (in my mailbox in the department office or under my door).

1. (2 points) Answer question 17 on p. 715 of the textbook. (*Hint:* What are the odds of being able to guess the password if you know its length? if you don't?)
2. (2 points) Answer question 18 on p. 715 of the textbook.
3. (2 points) Answer question 23 on p. 716 of the textbook.
4. (2 points) Answer question 27 on p. 716 of the textbook.
5. (2 points) Answer question 39 on p. 717 of the textbook.

3 Problems from Chapter 10 (Linux)

For these problems, please submit hard copy (in my mailbox in the department office or under my door).

1. (2 points) Answer question 5 on p. 808 of the textbook. (Assume that commands **a**, **b**, **c**, **d**, **e**, and **f** all run for a long time.)
2. (2 points) Answer question 18 on p. 809 of the textbook.
3. (2 points) Answer question 20 on p. 809 of the textbook.
4. (2 points) Answer question 32 on p. 810 of the textbook.
5. (2 points) Answer question 40 on p. 811 of the textbook.

4 Programming Problems

Do one or more of the optional programming problems from previous assignments. (No, you can't get credit again for ones you already did.) Submit source code and other files by e-mail, as for previous assignments.