Second Midterm Exam Preliminary Announcement

The second midterm exam will be given on Friday, 13 November, in class.

The exam will cover:

- The last portion of chapter 3 (sections 3.5 to the end)
- Chapter 4 (all)
- As much of chapter 5 as we cover by next Monday’s class.

These problems are intended to serve as a preliminary review for the midterm exam.

1. (a) Does the MSS include headers, or only the data portion of a TCP segment?
   (b) Problem P24, page 303.

2. Problem P25, page 304


6. (a) Does the MTU include headers, or only the data portion of an IP datagram?
   (b) Problem P17, page 429.


8. Complete the table shown in Figure 4.27, page 379.

9. Using the same table setup, run the link-state algorithm for the network of Figure 4.27, page 375, to find all shortest paths from node z. (To make this easier for me to grade, whenever there is a “tie” for which node to add to N’, always choose the node with the lowest letter.)

10. Look at Figure 4.31 (b) on page 387. The text on pages 386–387 describes the “count-to-infinity” problem and shows, in four numbered steps, how x, y, and z perform their first few updates of their distance vectors after the link between x and y changes from 4 to 60. The explanation ends with the words, “and so on.”
    Compute one more round of distance vector updates and give a step-by-step description in the same style as the book.