Reading

Peterson and Davie, Chapters 5.1–5.2, 6.1–6.3, 8.1, 8.2, 8.4, 9.1, 9.2, 9.4.

Objectives

The purpose of this assignment is to reinforce your understanding of TCP and application protocol operations, and of network security.

Chapter 5 Exercises. Do exercises 2, 5, 6, 8, 9, 12a, 15, 16a, 18, 21a, 28 in Chapter 5.

Problem TCP A. Fill in the missing sequence numbers in the following message sequence:

```
TCP X
<SEQ=____><CTL=SYN> -->

<SEQ=300><ACK=101><CTL=SYN,ACK>

<SEQ=____><ACK=301><CTL=ACK> -->

<SEQ=____><ACK=____><CTL=ACK><DATA (100 bytes)> -->

<-- <SEQ=____><ACK=____><CTL=ACK>
```

Chapter 6 Exercises. Do exercises 4, 5, 12, 16, 20, 28 in Chapter 6.

Chapter 8 Exercises. Do exercises 7, 10, 15, 17, 20, 26 in Chapter 8.

Chapter 9 Exercises. Do 1, 3, 5, 11, 15, 16, 25 in Chapter 9.

Problem H. Draw a diagram showing all the messages sent as a result of clicking on an HTML URL in a browser in multilab. Include all messages sent to/from the client from the click until the page is loaded. Assume the URL is http://www.cs.utexas.edu/.