CptS/EE 455
Homework #2
Assigned: Wed. Feb. 27
Due: Wed. Mar 13th in class

The logistics for this homework are the same as for Homework #1:

This is a group homework. Each member of the group is responsible for providing the "**first solution**" to *at least* one of the problems. (A "first solution" is a solution created without reference or consultation with other students.) The same student is responsible for editing that solution along with the comments of the other members of the group into the final solution for that problem. Your grade will be based on both the correctness of the final answers (2/3 weight, same grade for everyone in the group) and your individual effort on the first solution and the editing (1/3 weight, individual grade).

You may use the Bridge tools to do your collaboration, or you may work in person. The bridge tools will be helpful if your group is dispersed, or if you'd like to develop a record of the evolution of your answers. Having such a record will be helpful in writing up the final submission, as described below.

For each problem, the final submission consists of:

1. The name(s) of the student(s) responsible for the first solutions of this problem and for editing the final solution for this problem.
2. The unedited "first solutions" (there may be more than one if the group is large).
3. A *summary* of the comments on the first solution from the other group members and subsequent discussion, identifying any especially helpful comments.
4. The final, group consensus, solution

Each group will submit one set of answers, packaged as follows: a cover sheet identifying this is as CptS/EE 455 Homework and containing the name of the group and each of the members. The final submission for each of the question. Please start each submission on a separate page. All submissions must be typed (no handwritten work).

Problems:

1. Problem 3.3 (page 262)

2. Problem 3.5 (page 262)

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3. What is the bandwidth-delay product of the cross-country example shown in Figure 3.17? Now do Problem 3.9 (page 263).

4. Problem 3.13 (page 263)

5. Problem 3.16 (page 264)

6. Problem 3.17 (page 264)
   In addition to the scenario considered in part b. of the question, consider what happens if the network speed is 1Gbps (10^9 bits/second). 1Gbps local area networks are increasingly common.

What to Turn-in? (Only typed submissions please!)

- Cover Sheet (CptS/EE 455 Homework 1, Group Name, Group Members)
- For each problem:
  - Name of student(s) responsible for "first solution"
  - Unedited first solution(s)
  - Summary of comments/discussion with other group members
  - Final solution

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