Chapter 04: Communication

Instructions: Please answer the following questions:

- 1. In many layered protocols, each layer has its own header. Surely it would be more efficient to have a single header at the front of each message with all the control in it than all these separate headers. Why is this not done?
- 2. Consider a procedure incr with two integer parameters. The procedure adds one to each parameter. Now suppose that it is called with the same variable twice, for example, as incr(i, i). If i is initially 0, what value will it have after- ward if call-by-reference is used? How about if copy/restore is used?
- 3. Despite that multicasting is technically feasible, there is very little support to deploy it in the Internet. Why is this the case (google it!)
- 4. Routing tables in IBM WebSphere, and in many other message-queuing systems, are configured manually. Describe a simple way to do this automati- cally.

How to turn in:

Turn in via GitHub. Ensure the file(s) are in your directory and then:

- \$ git add <files>
- \$ git commit
- \$ git push

Due Date: Oct. 4, 2022 2359

Teamwork: No teamwork, your work must be your own.