

Name: _____

This week's readings

- [1] Brian E. Carpenter, editor. Architectural principles of the Internet. Internet Engineering Task Force Request for Comments RFC-1958, June 1996. URL <http://www.ietf.org/rfc/rfc1958.txt>.
- [2] Jerome H. Saltzer, David P. Reed, and David D. Clark. End-to-end arguments in system design. *ACM Transactions on Computer Systems*, 2(4):277–288, November 1984. URL <http://web.mit.edu/Saltzer/www/publications/endtoend/endtoend.pdf>.
- [3] David D. Clark. The design philosophy of the DARPA internet protocols. In *Proceedings of the ACM SIGCOMM Symposium on Communications Architectures and Protocols*, pages 106–104. Stanford, CA, August 1988. URL <http://nms.lcs.mit.edu/6829-papers/darpa-internet.pdf>.
- [4] Scott Bradner. Key words for use in RFCs to indicate requirement levels. Internet Engineering Task Force Request for Comments RFC-2119, March 1997. URL <http://www.ietf.org/rfc/rfc2119.txt>.
- [5] Scott Bradner. The Internet standards process – revision 3. Internet Engineering Task Force Request for Comments RFC-2026, October 1996. URL <http://www.ietf.org/rfc/rfc2026.txt>.

1. How a bill becomes a law; list the stages of an IETF standards-track RFC, from Internet-draft to Full Standard, and annotate with how many interoperable implementations are needed for each level.

2. RFC 1958 is “informational” — what does that mean? Is it peer-reviewed?

CMSC 711 Homework, Week 1, Number 2

3. Define each of MAY, MUST, and SHOULD, in order of how mandatory they are.

4. (from class) Define “network effect” (also called “network externality”).

5. (from class) List the seven layers of the OSI model. You *should* be able to do this from memory.