

Homework 3

Assigned: February 10

Due: February 18 (in class)

Note: Late homeworks will NOT be accepted, however your lowest homework grade will be dropped.

- Chapter 6, problem 30. Assume the propagation delay in the ring is 2×10^8 meters/second.
- Chapter 6, problem 50. A transparent bridge is the same as a learning bridge.
- Consider an 802.11 network consisting of two stations, A and B, in the same basic service set. Assume each station has an initial frame to send to the other. Show the complete timing diagram for the successful transmission (and acknowledgement!) of each of the two frames. Assume that whenever a random number is needed, A uses the number 2 and B uses the number 4. Use two horizontal lines (one for station A, one for station B), and label all time intervals clearly.
- Consider the bridged network topology below. Calculate the spanning tree, and clearly label which ports are “on” and which are “off”. Explain clearly the steps you apply to compute the spanning tree.

