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ECEC 432
Homework 1

Ch1, R16:
- Nodal Processing Delay   — varied
- Queuing Delay   — varied
- Transmission Delay   — constant
- Propagation Delay   — constant

Ch1, R20:
System A sends a very large file to System B by:
- Divide the file into small chunks
- Each chunk is encapsulated with the address of the dest (System B)
Switches uses the destination address and the routing table to forward packets
City 1 = source add ; City 2 = destination add
→ Along the way are switches/routers → the driver asks these entity to find which's the best route everytime he/she encounters one.

Ch2, R13:
Everytime we need to fetch sth from the internet, we need to establish connections, then, depending on the transmission/propagation delays, we slowly receives packets that later has to be reassembled. Hence, if we could just get these objects from the immediate caching server, rather than doing the above procedure every time, then we can reduce a lot of delay. This only works for some objects, the ones that are cached by the Web-caching server.

Ch2, R20:
You should be able to see the sender's IP add for a user with an .edu email add. However, Gmail obscures this information.

Ch3, R14:
a — False
b — False
c — True
d — False
e — True
f — False
g — False

Ch3, R15:
a) $110 - 90 - 1 = 19B$
b) $110 + \text{length of seg 2} + 1$