4. Describe the services provided by transport protocols and name the two Internet transport protocols.
5. Compare the network and transport layers.
6. Compare TCP and UDP. Name the services neither TCP nor UDP provides.
8. Describe the multiplexing and demultiplexing services provided by the transport layer. To what layer does the transport layer provide this service? What does the transport layer look at in order to provide the multiplexing service?
9. Describe how demultiplexing works.
10. What 2-tuple identifies a UDP socket?
12. What 4-tuple identifies a TCP socket?
16-17. Describe the main characteristics of UDP. Name 2 services that use it (DNS & SNMP).
18. What is a checksum and for what is it used?
39-42. Describe ABP (Stop and Wait).
43-45, 48. Describe GBN.
49-50, 52. Describe SRP
55. Describe the 7 main characteristics of TCP.
56. Name and describe the fields of the TCP header.
57. Describe how TCP sequence and acknowledgment numbers work.
58. What are issues behind setting the timeout time (related to RTT)?
66-67. Describe how TCP retransmission process works.
72-73. Describe how TCP provides flow control.
76-77. Describe the socket-closing process.
86. Describe how TCP and other protocols provide congestion control.