

- 1) For TCP, please select whether the service is implemented, and indicate how it is implemented.
 - Connection-Oriented?
 - Full Duplex Service?
 - In-order delivery?
 - Pipelining?
 - Flow Control?

 - Congestion Control?

 - Bandwidth Guarantee?
 - Reliable Delivery(mostly)?
 - Jitter Threshold?
- 2) For UDP, please select whether the service is implemented, and indicate how it is implemented.
 - Connection-Oriented?
 - Full Duplex Service?
 - In-order delivery?
 - Pipelining?
 - Flow Control?
 - Congestion Control?
 - Bandwidth Guarantee?
 - Reliable delivery(mostly)?
 - Jitter Threshold?
- 3) What are the minimum and maximum sizes (in bytes) of a TCP header?
- 4) A UDP segment has a “length” field the gives the size (in bytes) of the entire UDP segment, so the receiver can easily calculate the number of bytes of data in the “application data” section. A TCP segment has no “length” indicator. How can the receiver determine how many bytes of data are in the “application data” section of a TCP segment?

5) How is the sequence number for a given TCP segment (from sender to receiver) derived? Give an example.

6) How is the acknowledgement number for a given TCP segment (from receiver to sender) derived? Give an example.

7) How does TCP handle dropped segments? What additional complexity does this add?