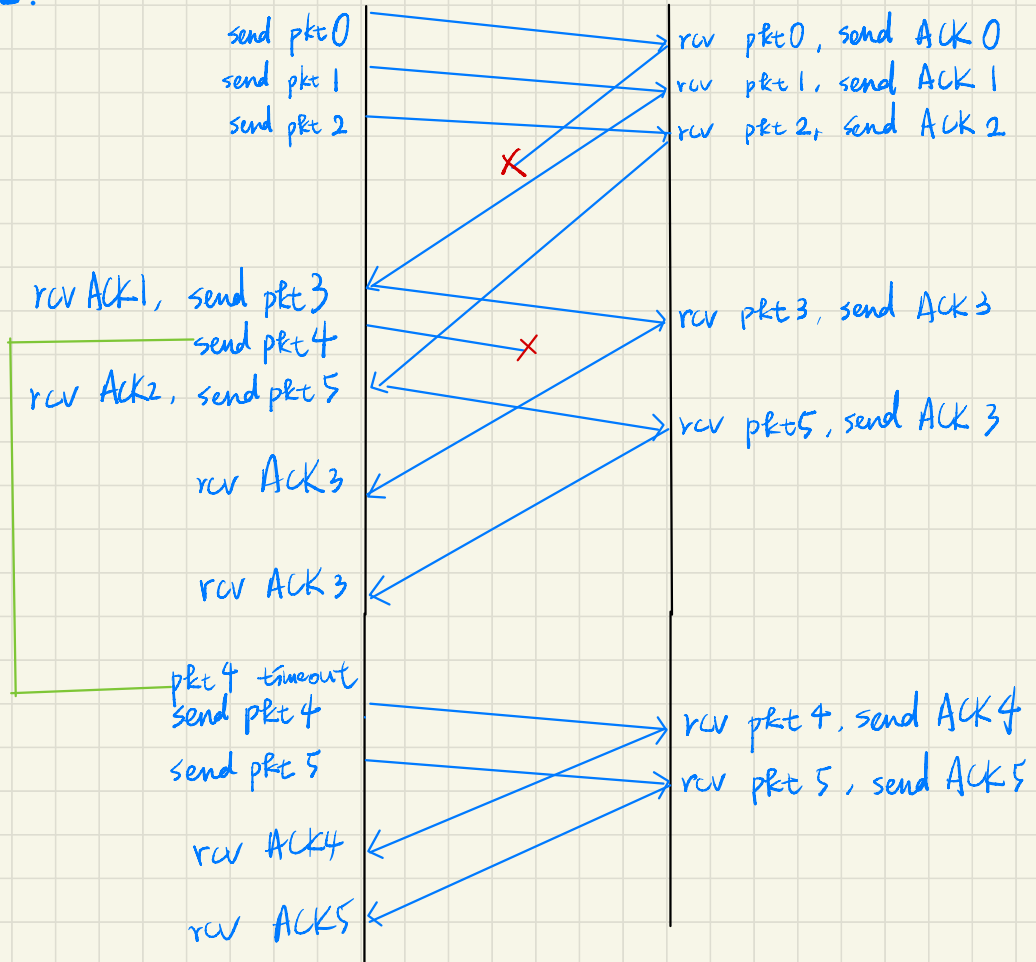


HW3

1.

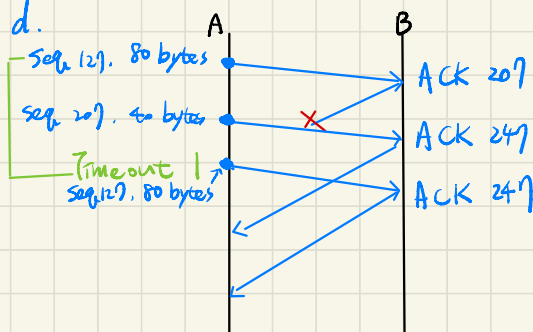
Sure! We can implement reliable data transfer (also congestion control) on application layer.
For example - By checksum.

2.



3.

- sequence number: 207, source port number: 302, destination port number: 80
- acknowledge number: 207, source port number: 80, destination port number: 302
- 127
-



4. ref: <https://www.geeksforgeeks.org/tcp-tahoe-and-tcp-reno/>

- [1, 6], [23, 26]
- [6, 16], [17, 22]
- by a triple duplicate ACK
- by a timeout
- 32
- 21
- 14
- 7th
- cwnd = 7, ssthresh = 4

→ 因為 3 個丟失也要重傳 (4+3=7)

j. ssthresh = 21, cwnd = 4 (1, 2, 4)

k. 52 packets (1+2+4+8+16+21)

→ bounded by ssthresh = 21