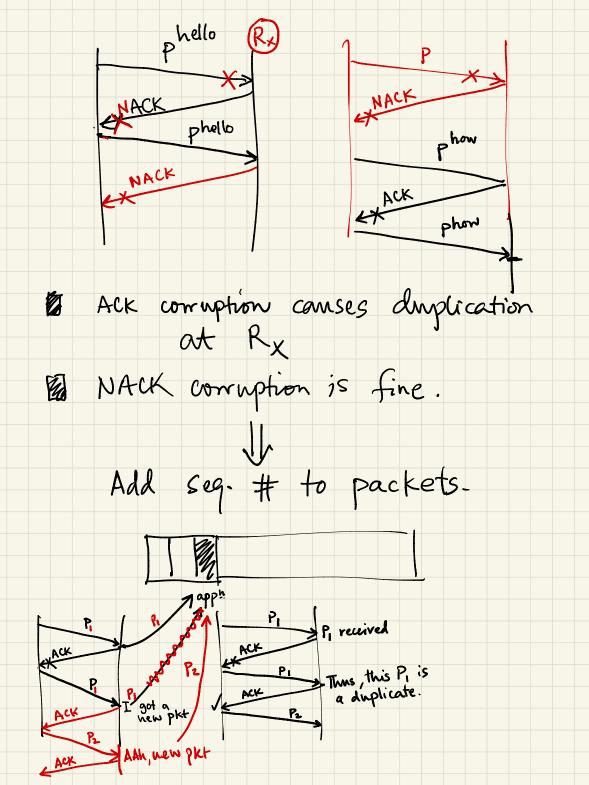
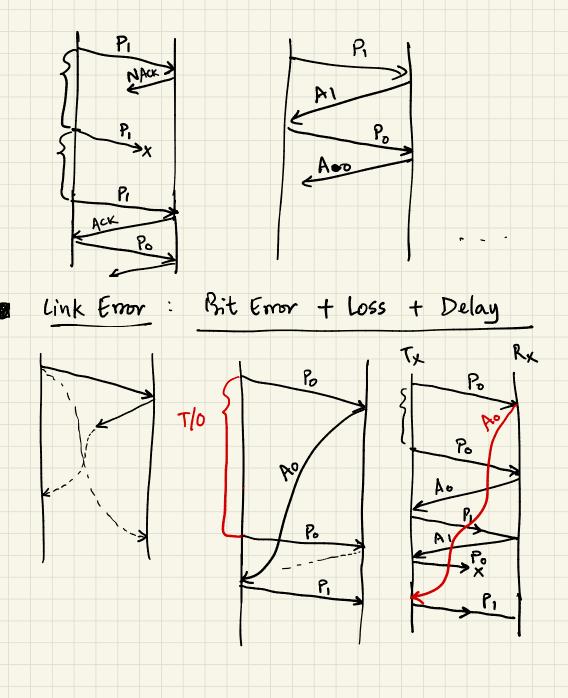
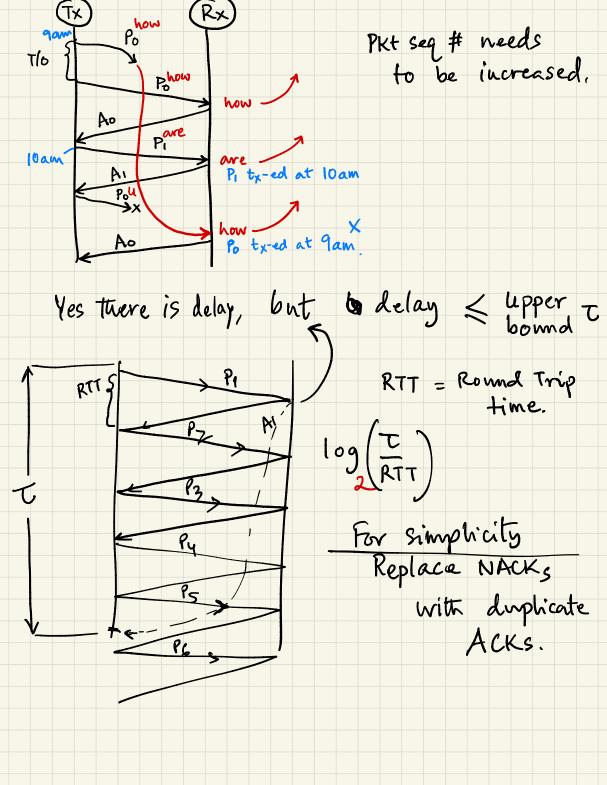
John Meet at 5pm @ movie theater John doesn't ACK I received ACK (ACK) Stricter this ACX problem than won't risk What (ransput Coniva Carylor faces. State Machines actions events

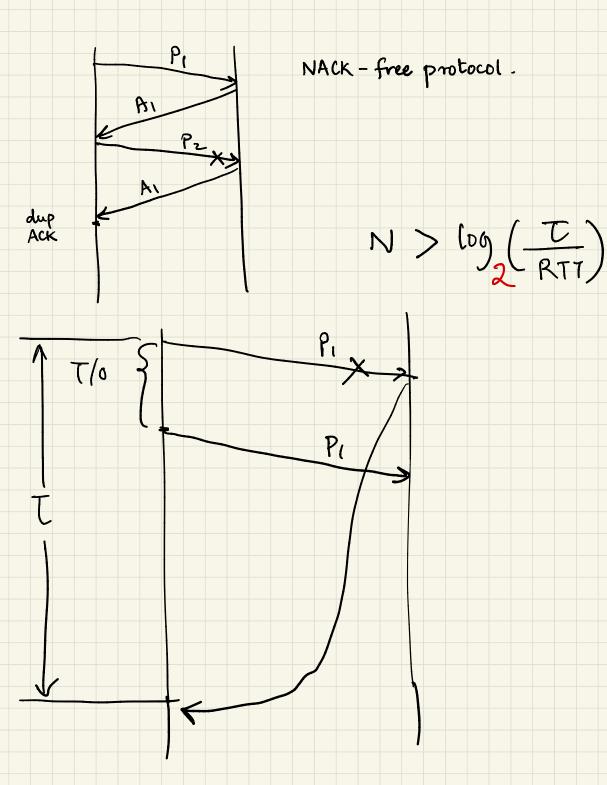
wake up alarm 6am keep on Read not CNN Bam Sleep give pk+ to Network layer get packet wait for Work packet for for give plet to app layer receive pkt 1011/00/00/00/1101 Reliable Pkt transmission. Phello P Packet was NACK Phow ACK Pare ACK. time ,

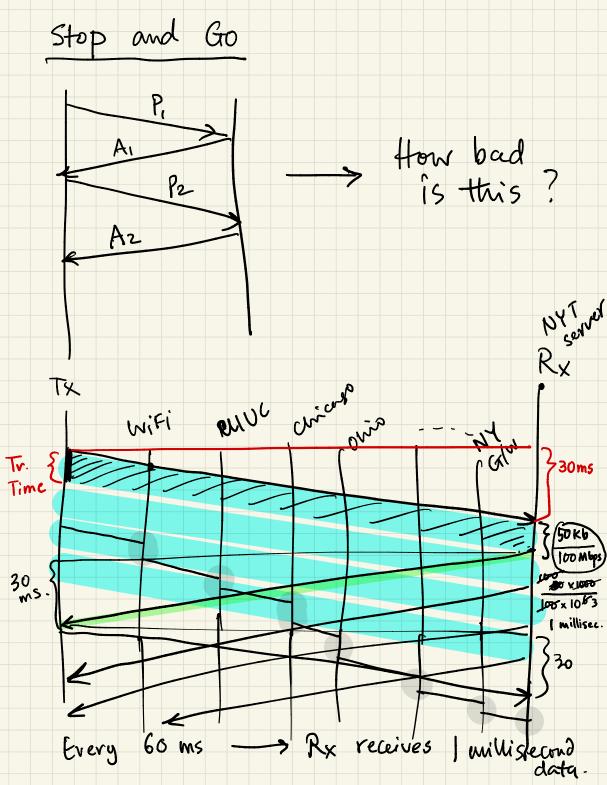


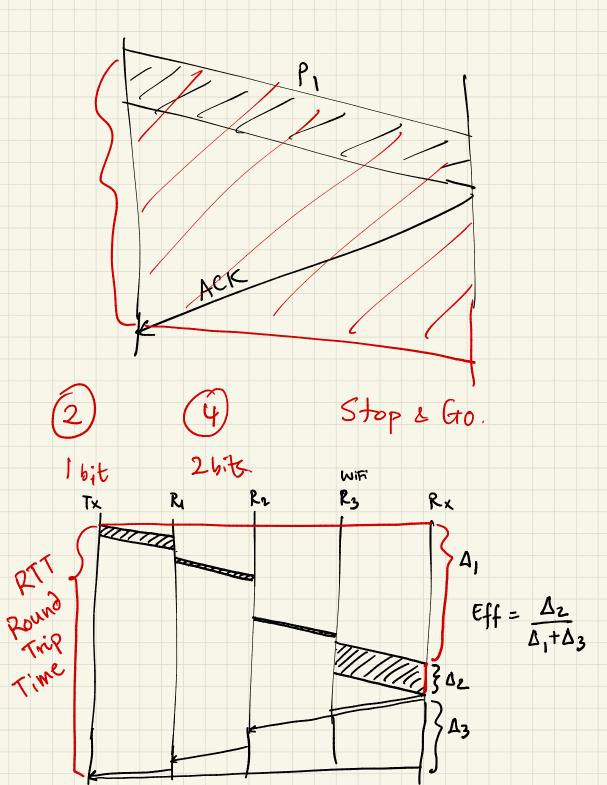
Tra. app "hi, how are " I Packet counter (seq # for each pkt) under bit errors (packet corruption) bit seg # is enough. Error Model La Pikti are either, correctly delivered or are delivered with bit error, Error Model: Bit error + pkt Loss L, set timer/alarms -> Retx after some timeout



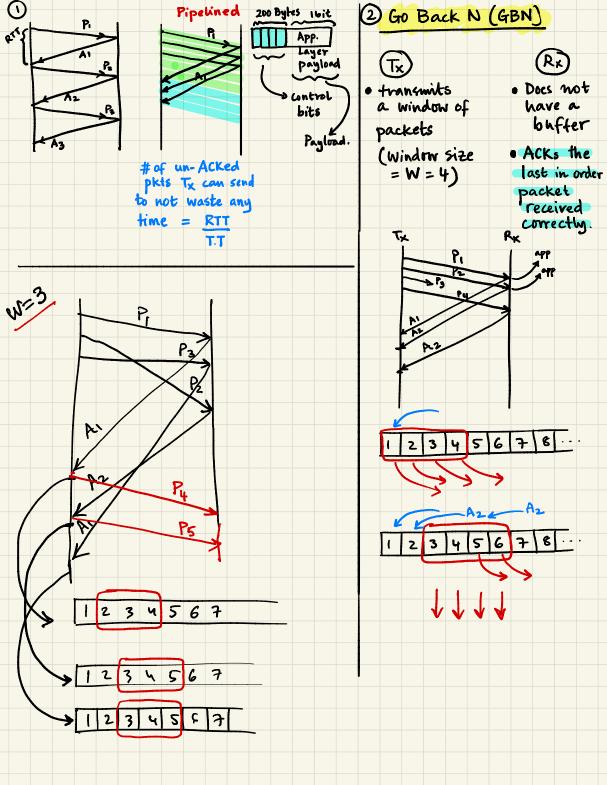


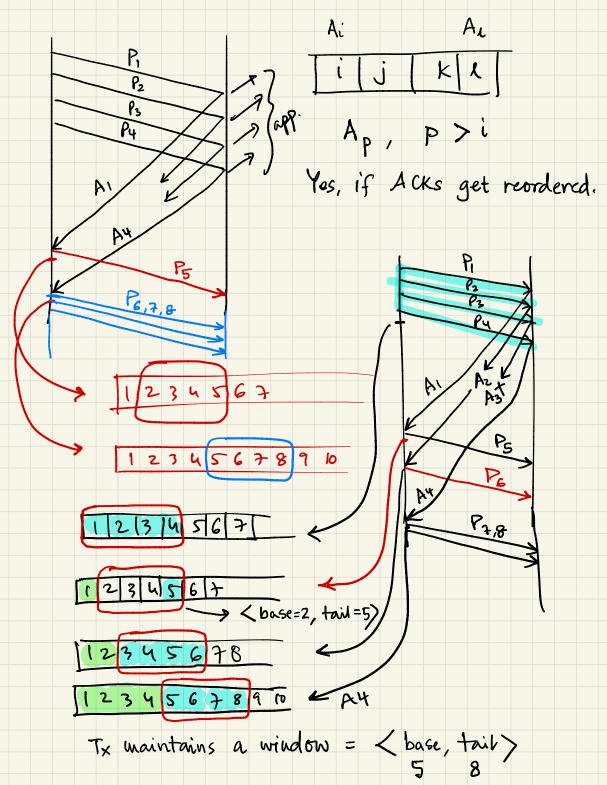


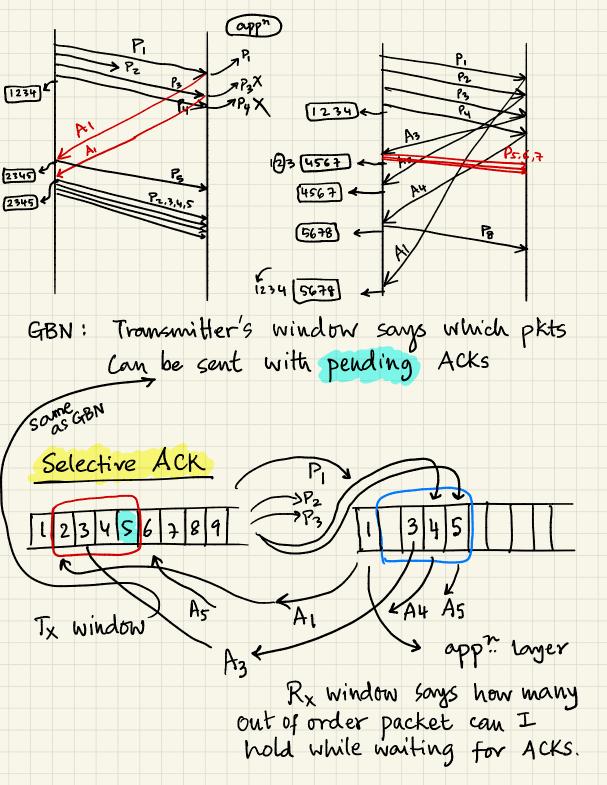




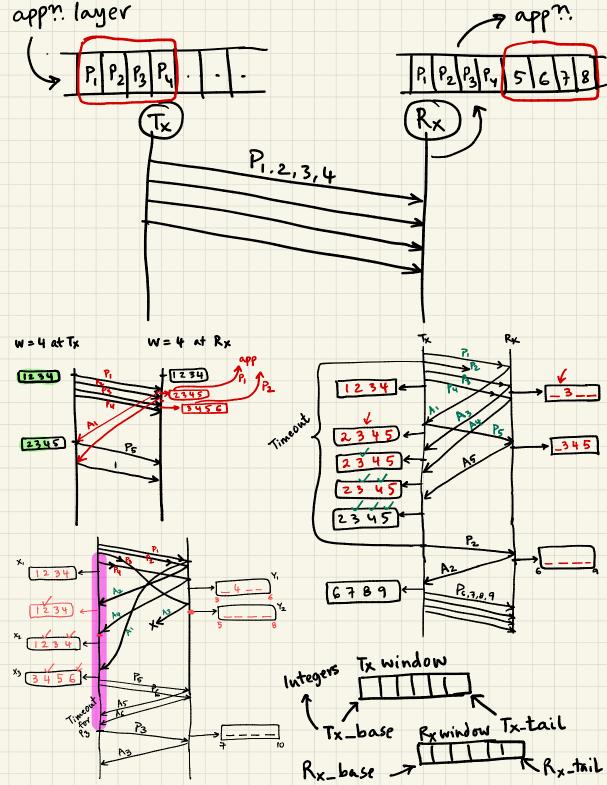
Transport Langer Reliable packet Multiplexing/ transport Demux Principles Real Performance world 1 Correct Pipelining Behavior TCP Stop & Go GBN Selective (Go Back N) ACK SACK) Congestion Flow Control control Kx does not have any packet buffer. B x tromsmit Tx sends a window of packets window Rx transmit Cumulative ACKS OF PKts only a single packet Rx buffers some out of order (000) packets, depending on it's own window size.

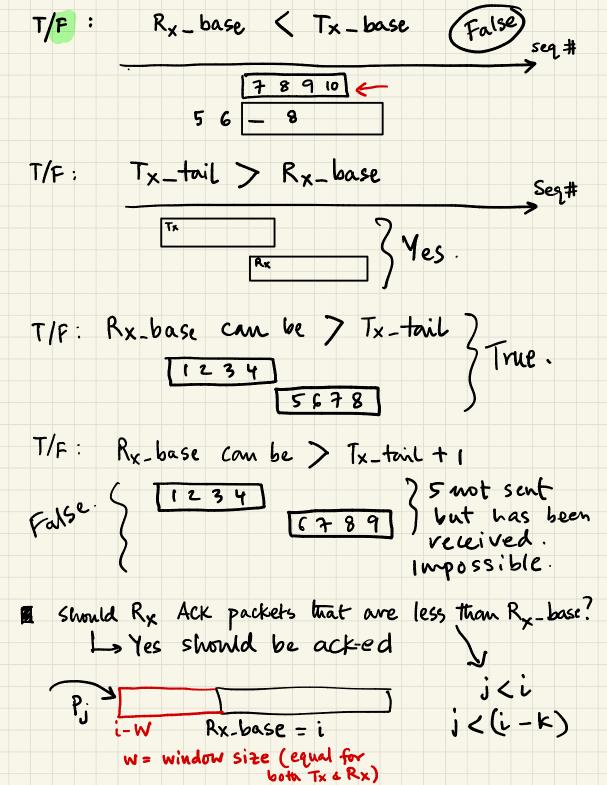






In selective ACK (SACK), the ack A: indicates that Rx has received packet Pi. (In GBN, A; indicates Rx has received enery in-order pkt till and including Pi) Example (after class) P1234 dothing





TCP (Transport Control Protocol) PT P RTT goes up -> Reduce W TCP - self docking protocol