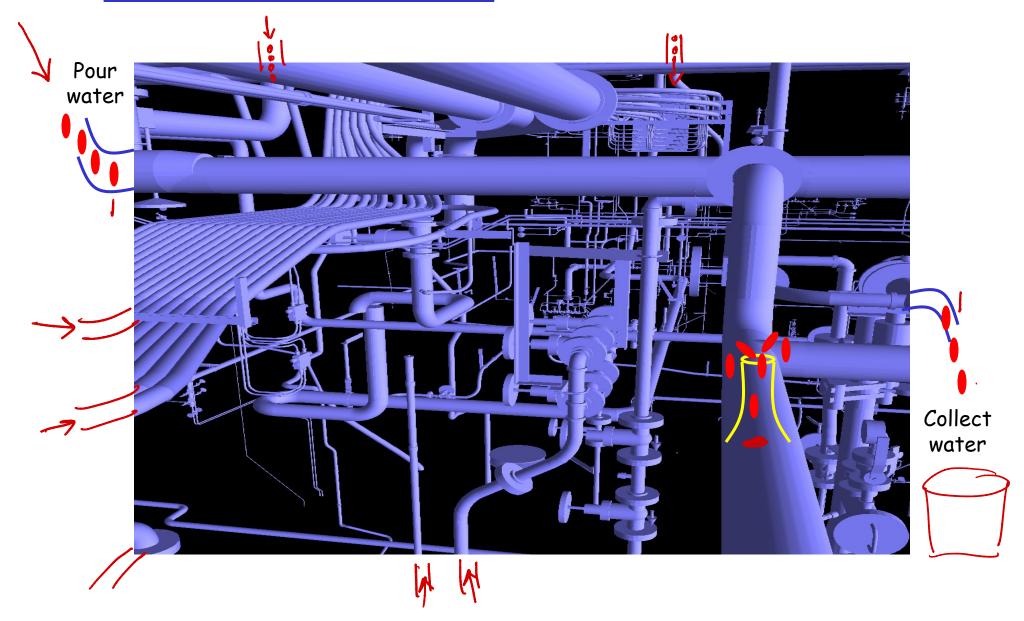
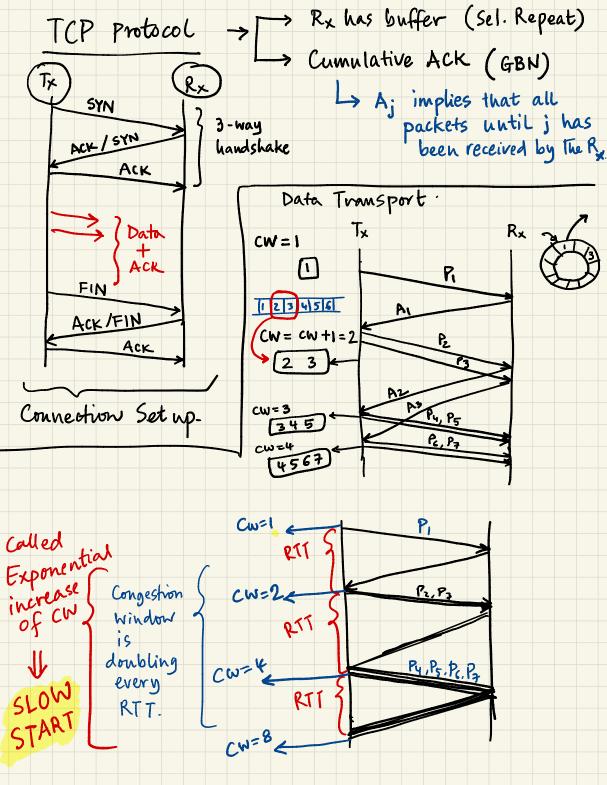
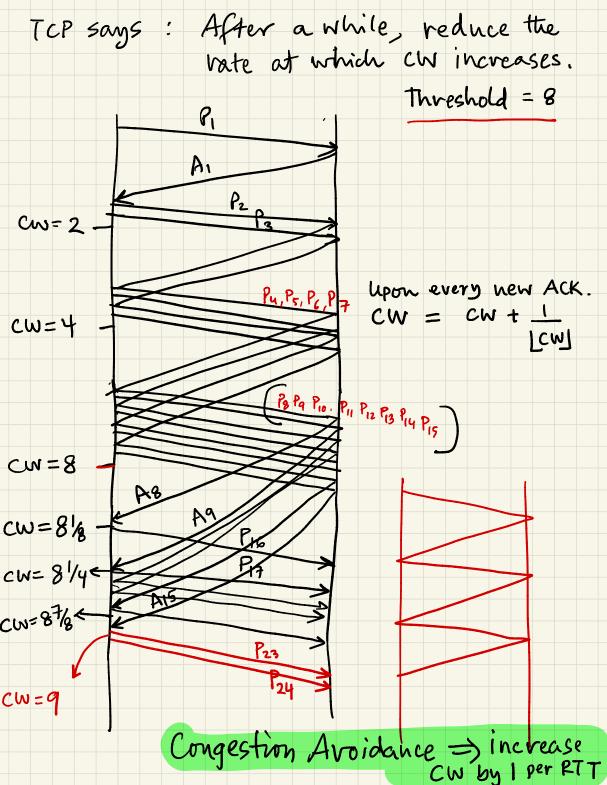


The TCP Intuition







The TCP Protocol (in a nutshell)

- ☐ T transmits few packets, waits for ACK
 - Called slow start
- □ R acknowledges all packet till seq #i by ACK i (optimizations possible)
 - ACK sent out only on receiving a packet
 - Can be Duplicate ACK if expected packet not received
- \square ACK reaches T \rightarrow indicator of more capacity
 - T transmits larger burst of packets (self clocking) ... so on
 - Burst size increased until packet drops (i.e., DupACK or timeout)
- □ When T gets DupACK or waits for longer than RTO
 - → Assumes congestion → reduces burst size (congestion window)