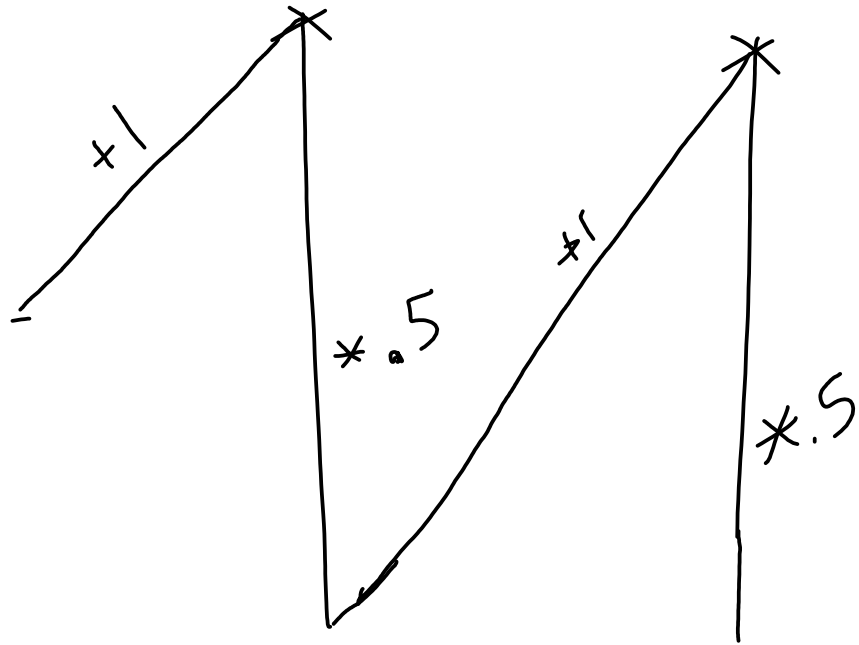
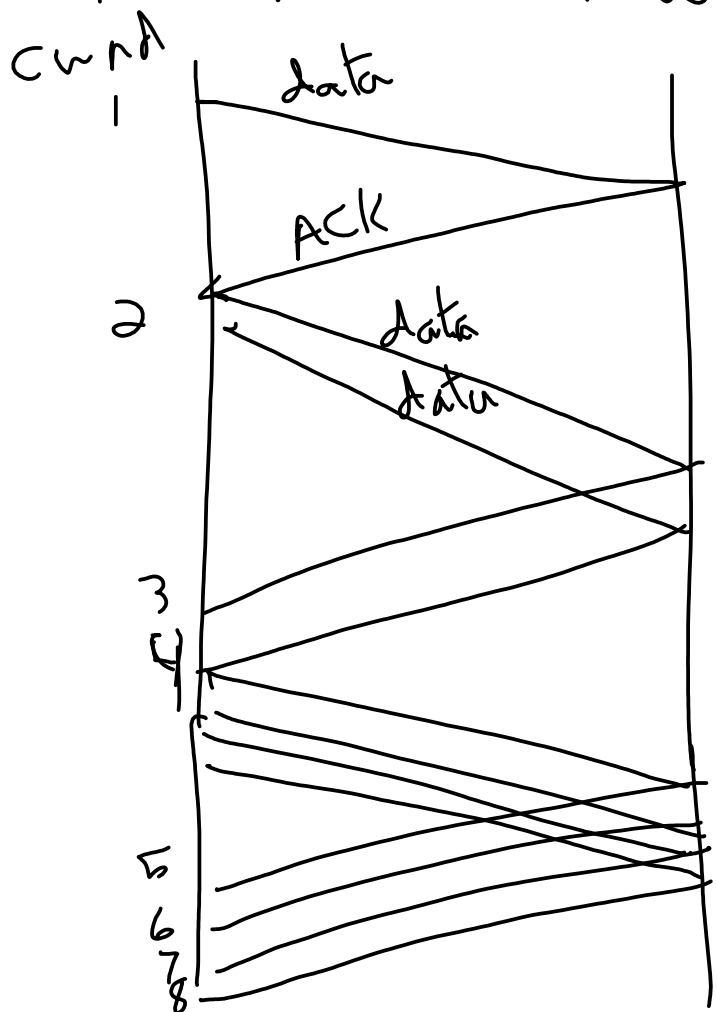


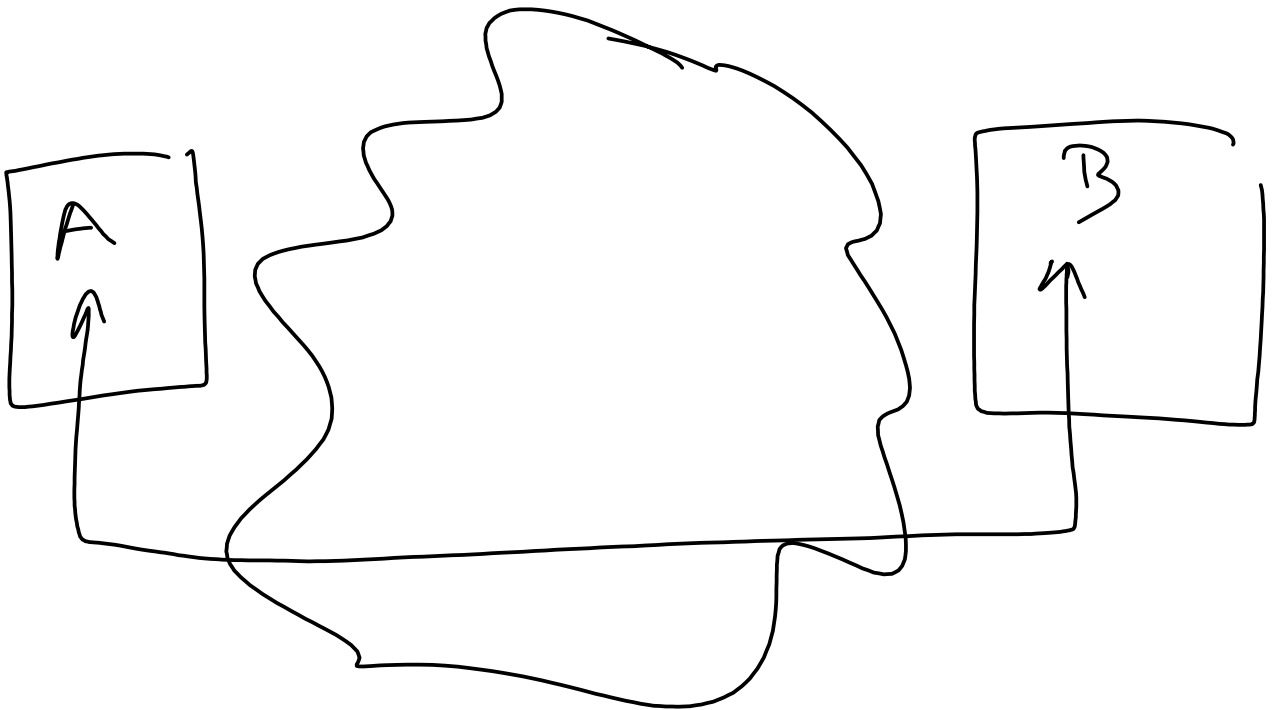
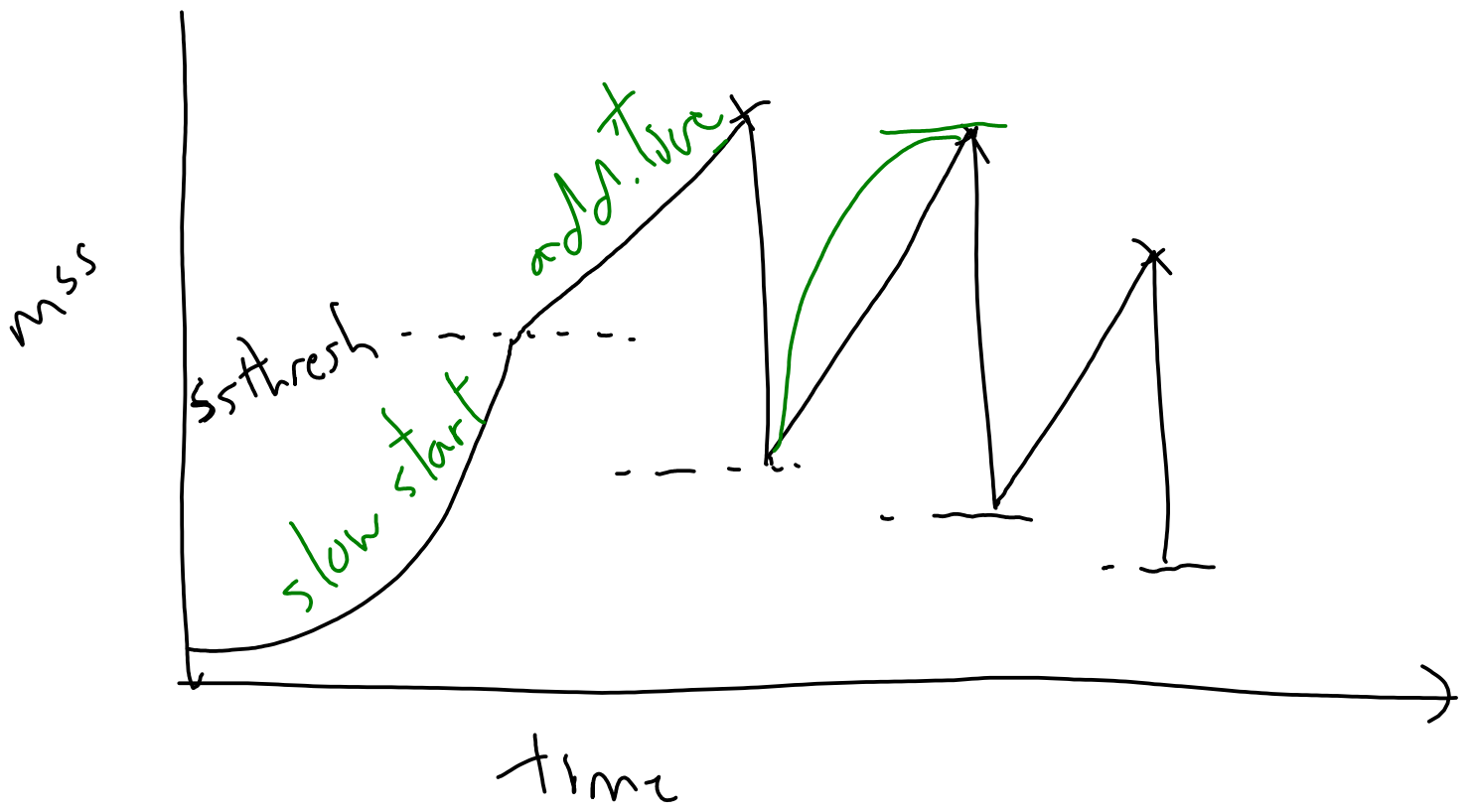
# Congestion Control



## TCP Slow Start

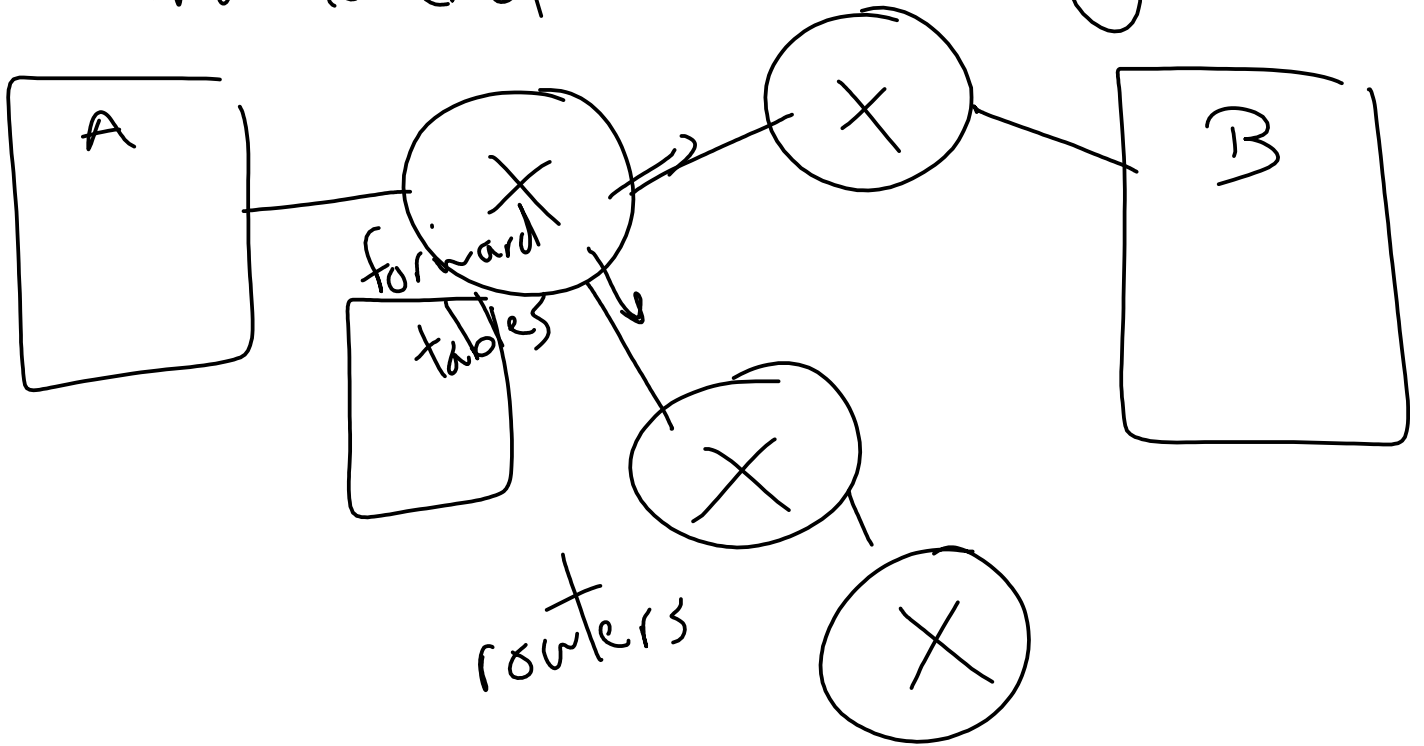


cwnd: congestion window  
cwnd = 1



Network Layer  
end to end

forwarding  
routing



---

Forwarding tables

prefix	link

match  
dest.  
addr  
w/ prefix  
(longest)

IP v4 - 32 bit addresses

ISP  
138 . 234 . 44 . 117

Gettysburg CS machine  
CS 117

138.234.4. \_\_\_\_\_  
Acad.

---

Class A network

108 . - . - . -

~ 2<sup>24</sup> addr

B  
138 . 234 . - . -

C  
16 . 27 . 31 . -

Subnet mask: 1's @ network bits

e.g. A

255.0.0.0

B

255.255.0.0

---

CIDR - classless inter-domain routing

138.234.0.0 / 16

cs 138.234.44.0 / 24

---

network of ~1024 devices

123.34.<sup>000011</sup>00.000000 / ~~10~~  
12 10 bits 22