

Lab 6. TCP. part 1

Q1. 435. One below the ack number.

Q2. Yes.

Q3. Whether it increases R_{smooth} depends on the deviation.

Q4. $R_{smooth} = (1 - 0.125) \times 100 + 0.125 \times 108 = 101$
 $DevR_{smooth} = (1 - 0.25) \times 8 + 0.25 \times (108 - 101) = 7.75$
 $Timeout = 101 + (4 \times 7.75) = \underline{132}$

Q5. Flow Control

Q6. 1.5 R_{smooth}

Q7. Per-byte sequence and ack numbers.

Q8. True

Q9. File Transfer Protocol

Q10. $\frac{100,000}{125,000} = 0.8$ seconds

Q11. 4 seconds, is when the leftover packets reach 100,000 so this is when the router will start dropping packets.

Q12. 40 pkts/s