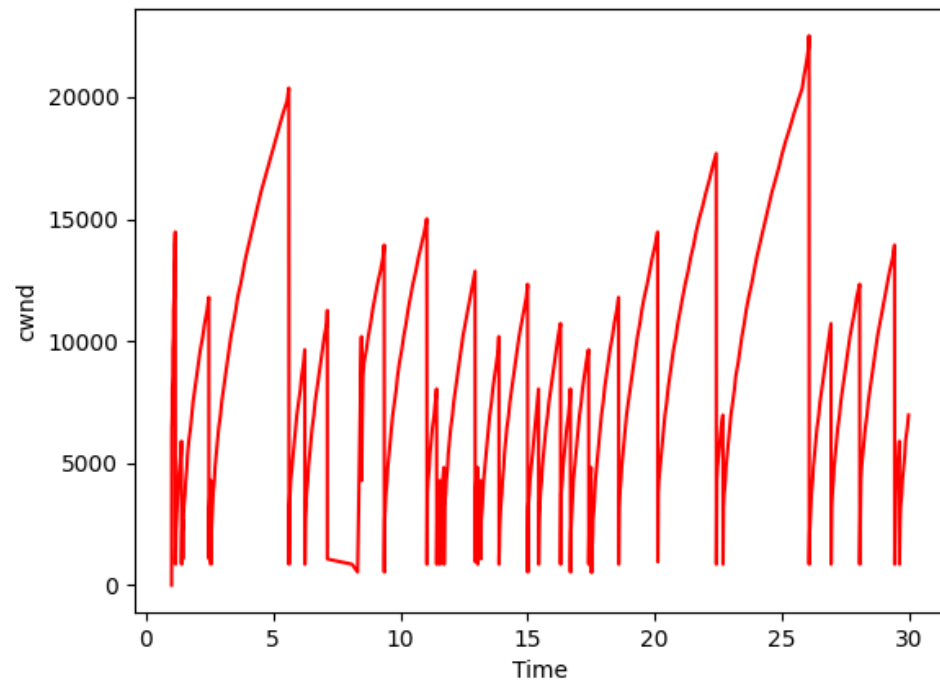
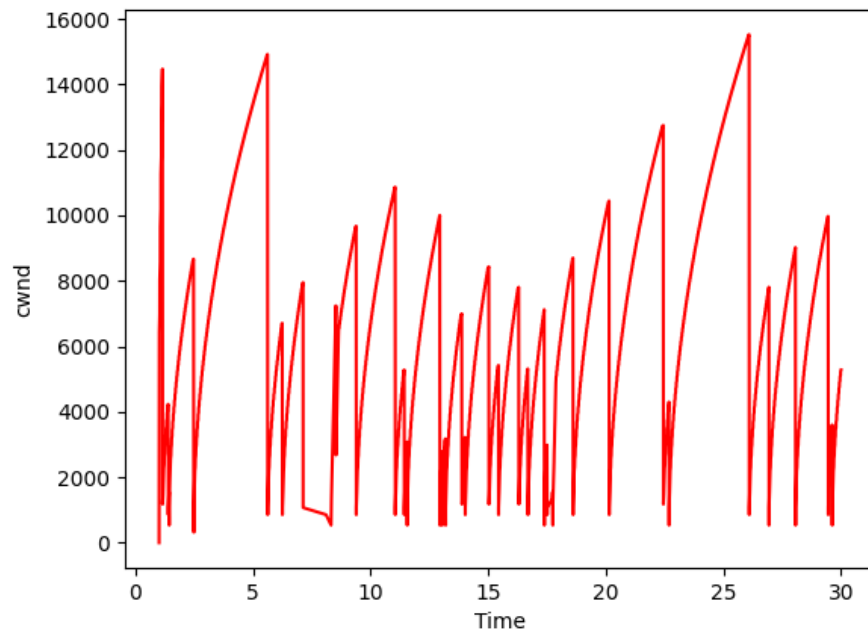
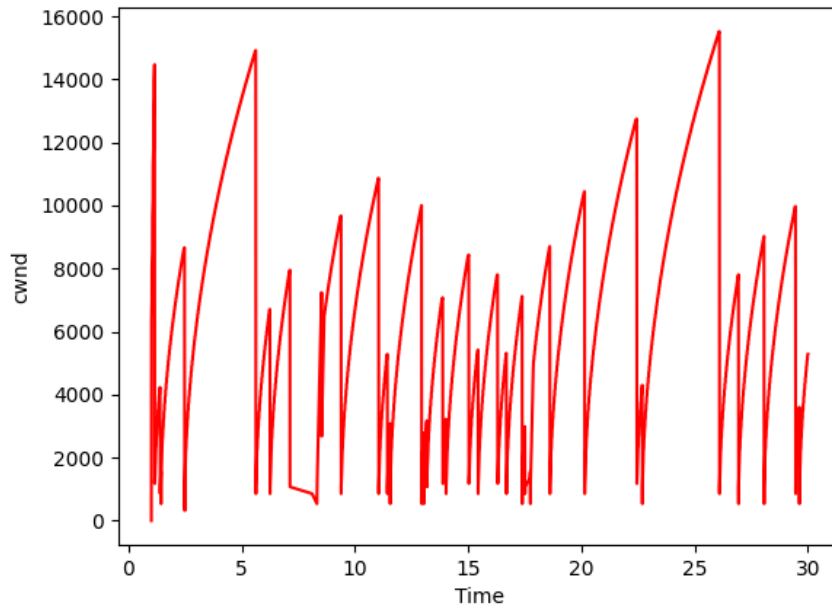
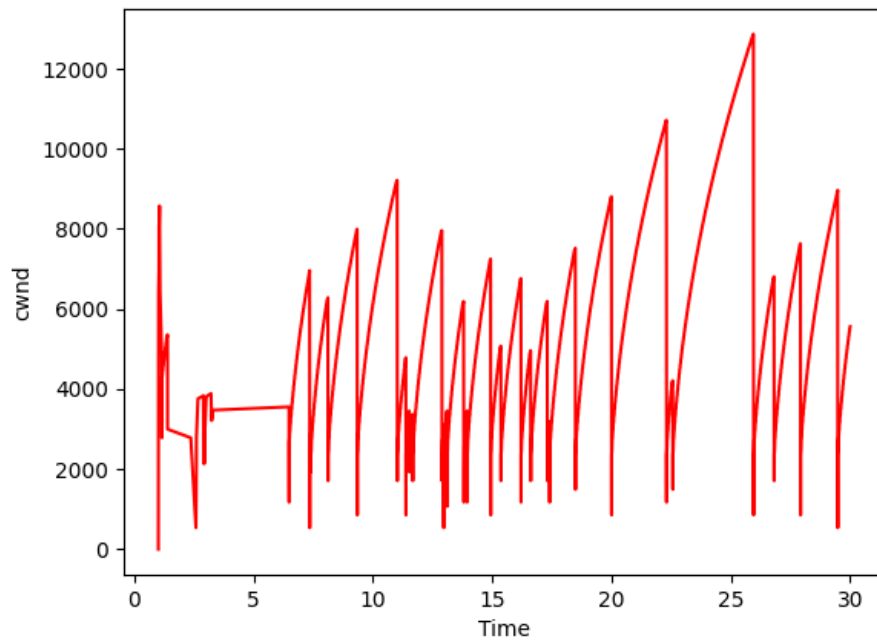


COL334 Assignment 3
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2019CS50436

Part 1





Plots in the order newreno, high speed, vegas, veno

Tcp Vegas has lowest peak and average.

Tcp HighSpeed has highest peak, highest average and highest slope i.e rate of increase.

Plots for Tcp Veno and NewReno are similar.

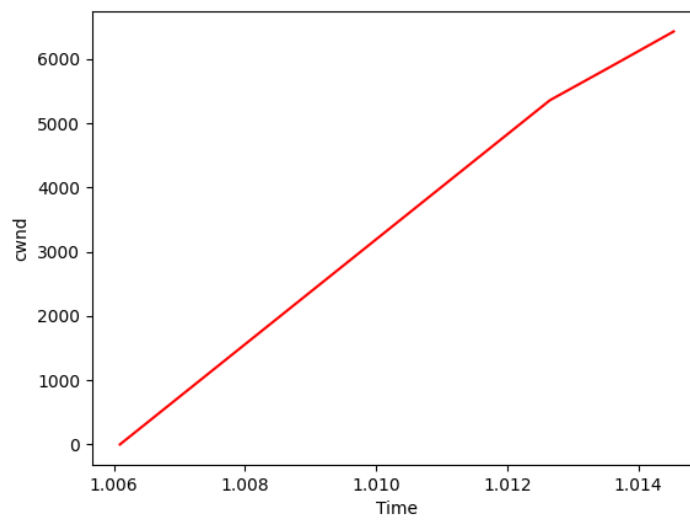
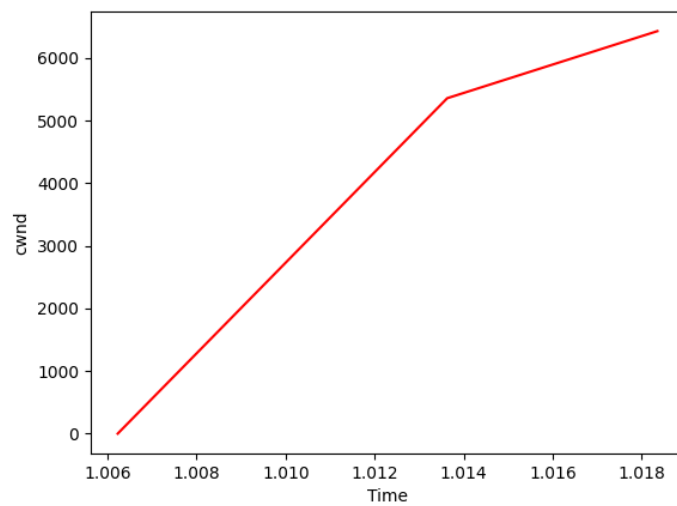
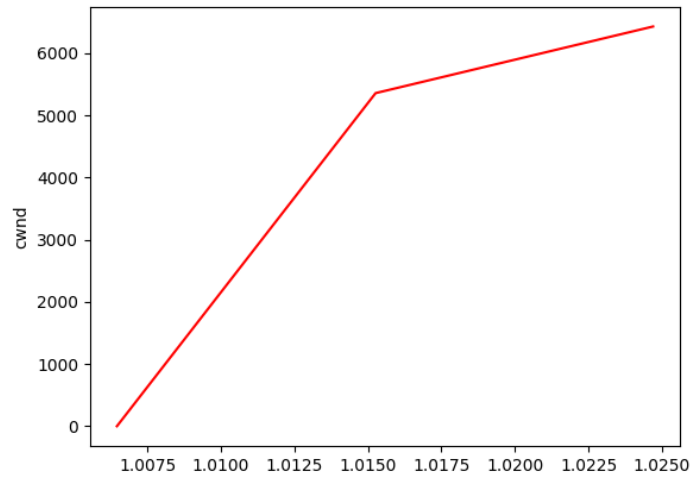
NewReno = Veno = HighSpeed = 38 : 1209

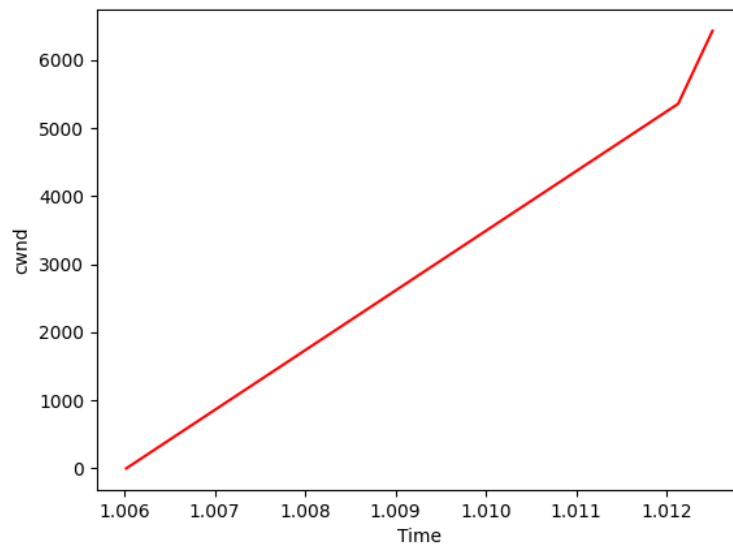
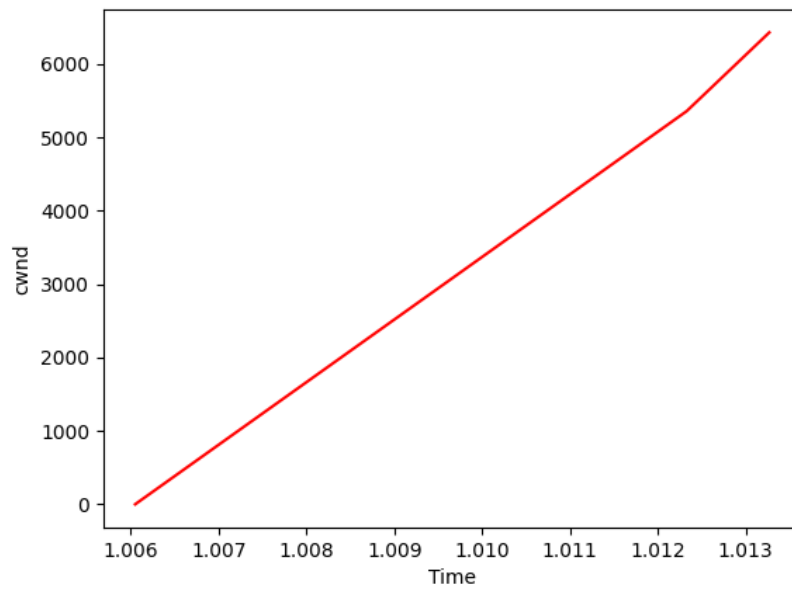
Vegas = 39 : 1209 (packets dropped : sent)

Part 2

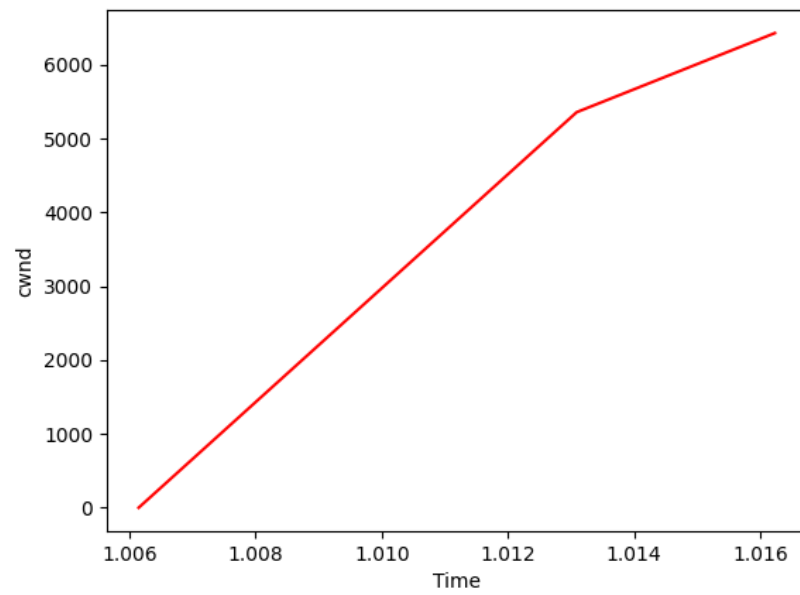
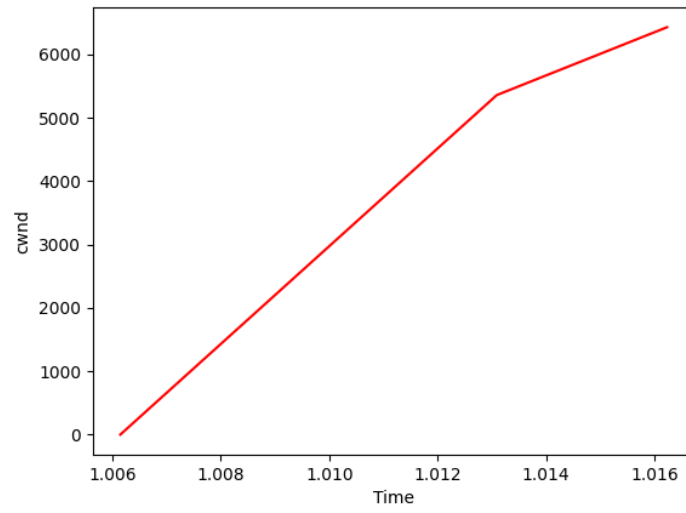
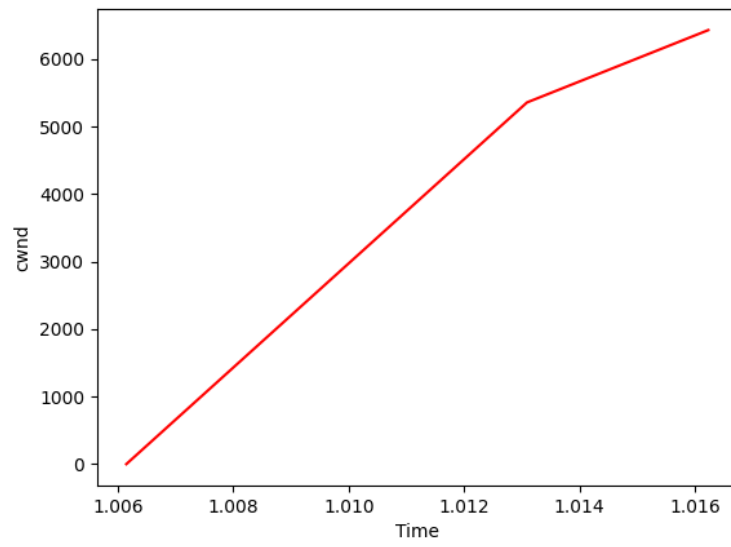
Plots in order 2, 4, 10 , 20 , 50 for part1

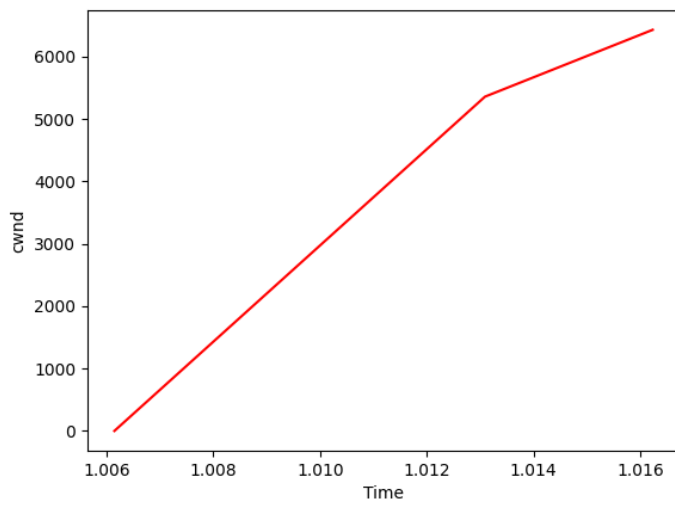
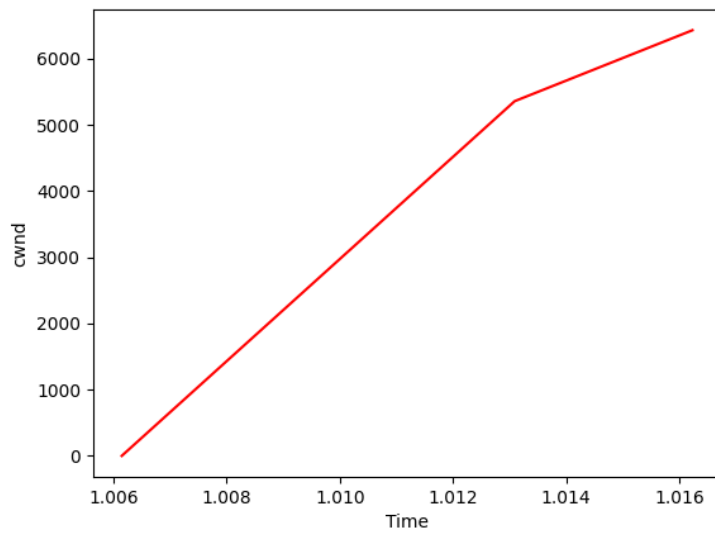
Plots in order 0.5 , 1, 2 , 4 ,10 for part2





Packet drops increases with channel data rate

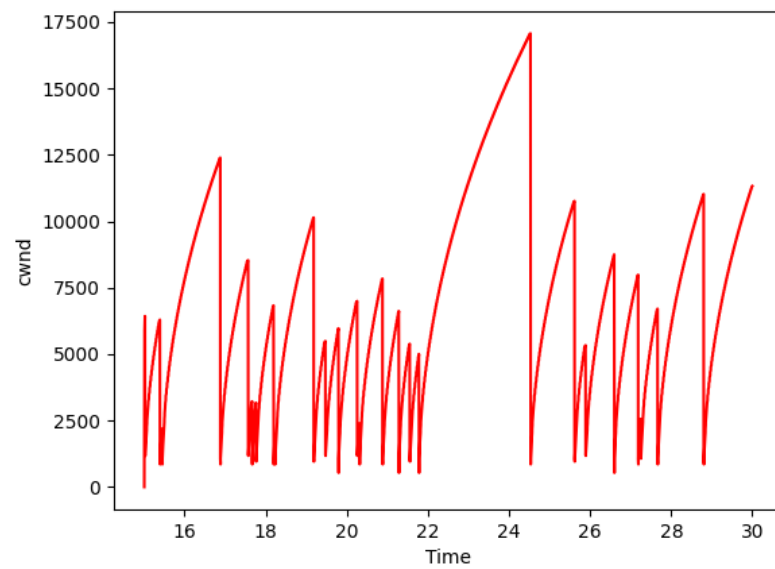
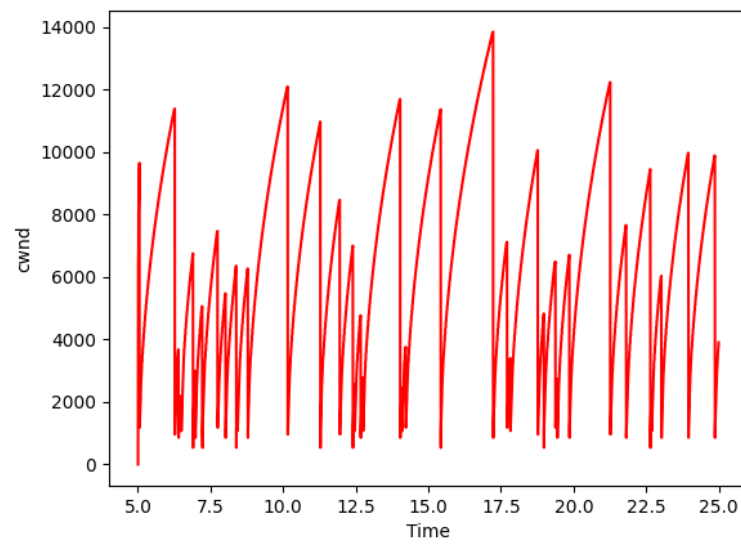
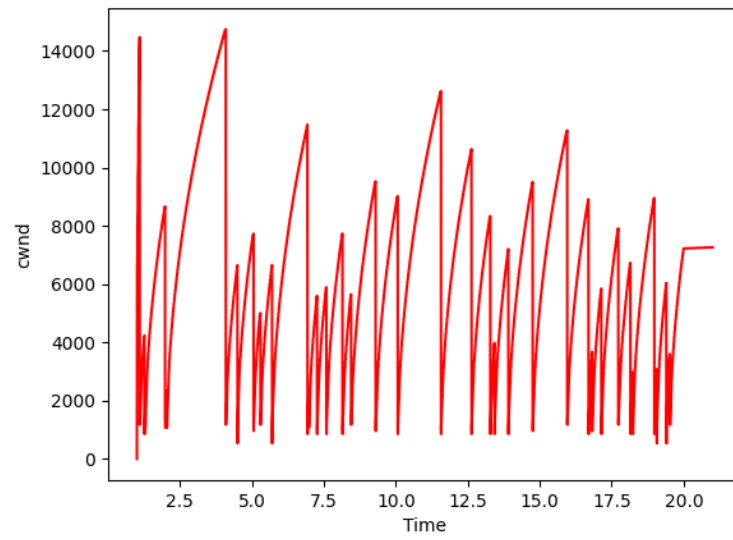




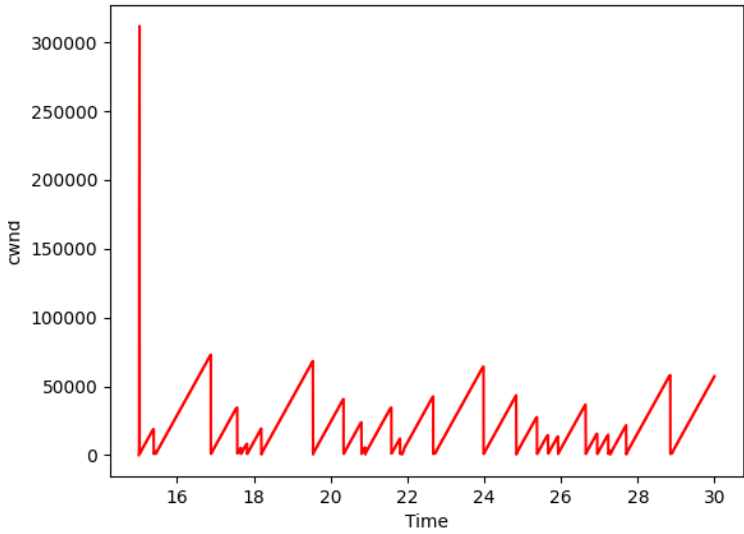
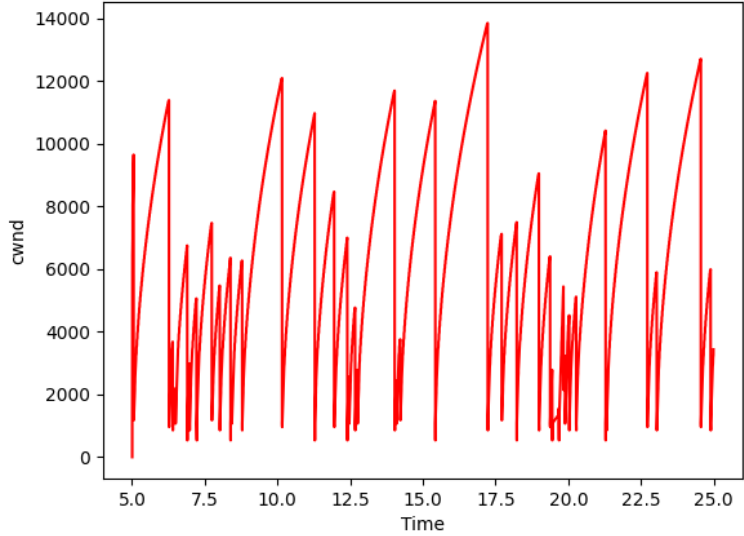
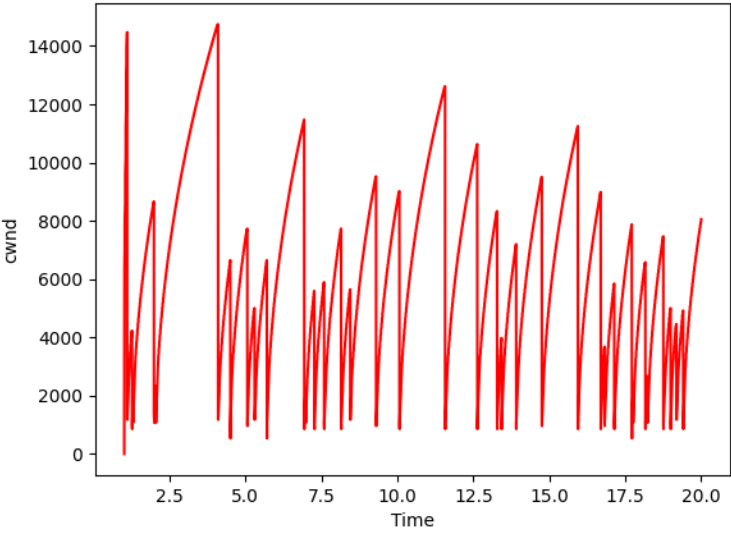
Packet drop increases with channel data rate

Part3

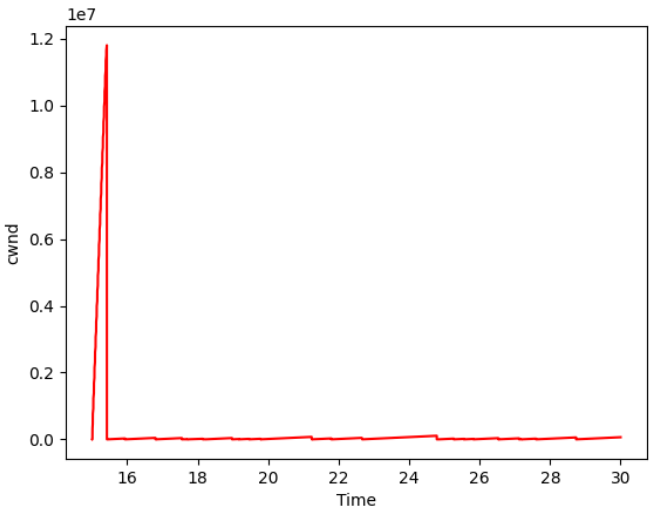
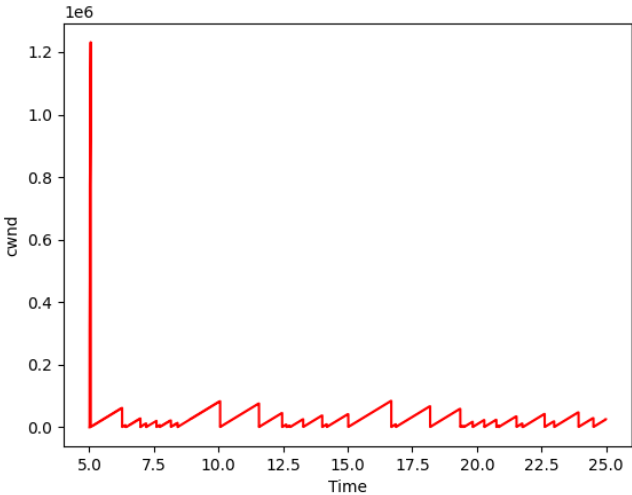
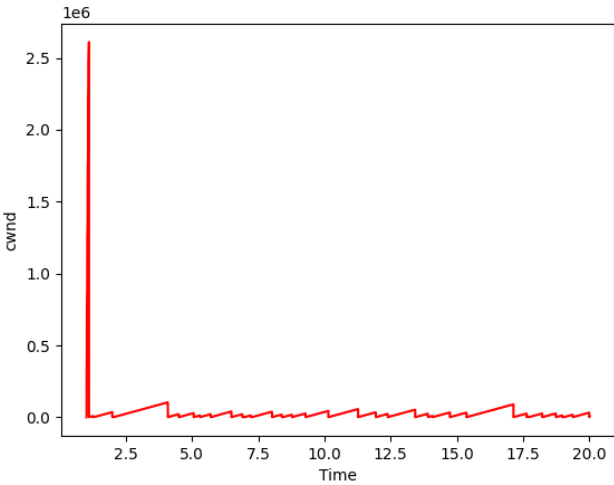
3.a



3.b



3.c



Variation in Connection 1 and 2 : Peak increases considerably
Variation in Connection 1 and 3 : Peak increases extensively.

| | Config1 | Config2 | Config3 |
|-----------------|---------|---------|---------|
| Packets dropped | 113 | 112 | 110 |
| Connection1 | 31 | 31 | 33 |
| Connection2 | 48 | 48 | 44 |
| Connection3 | 34 | 33 | 33 |