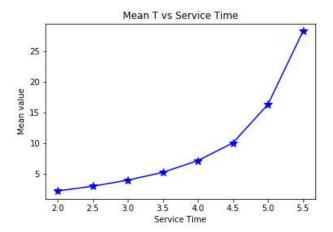
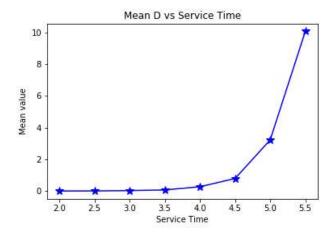
Part 1: Varying Service Time with values 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5

## Graphs

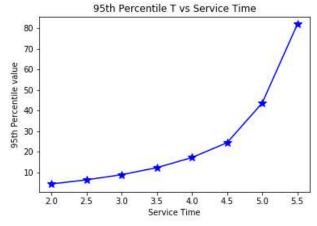
a. Mean T: We observe that as service time increases mean value for T increases.



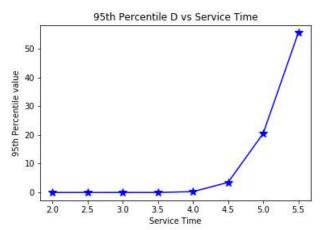
b. Mean D: We observe that as service time increases mean value for D increases.



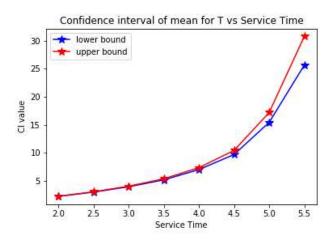
c. 95<sup>th</sup> Percentile of T: We observe that as service time increases 95<sup>th</sup> Percentile value for T increases.



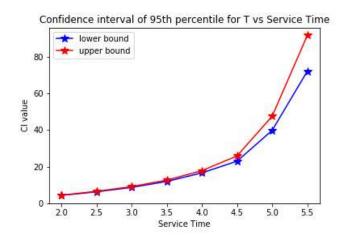
d. 95<sup>th</sup> Percentile of D: We observe that as service time increases 95<sup>th</sup> Percentile value for D increases.



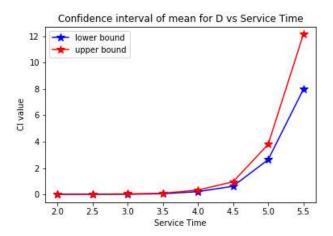
e. Confidence Interval of Mean for T: We observe that as service time increases Confidence Interval of Mean for T increases.



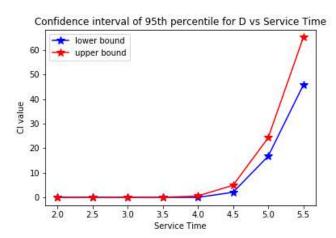
f. Confidence Interval of 95<sup>th</sup> Percentile for T: We observe that as service time increases Confidence Interval of 95<sup>th</sup> Percentile for T increases.



g. Confidence Interval of Mean for D: We observe that as service time increases Confidence Interval of Mean for D increases.

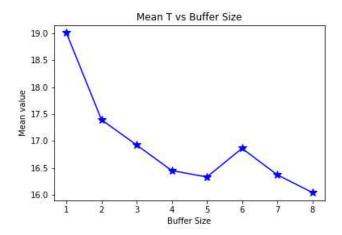


h. Confidence Interval of 95<sup>th</sup> Percentile for D: We observe that as service time increases Confidence Interval of 95<sup>th</sup> Percentile for D increases.

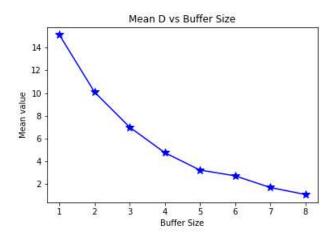


## Part 2: Varying Buffer Size with values 1, 2, 3, 4, 5, 6, 7, 8

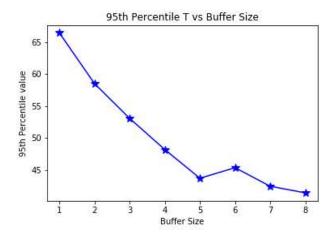
a. Mean T: We observe that as buffer size increases mean value for T decreases though we observe a slight increase from size 5 to 6.



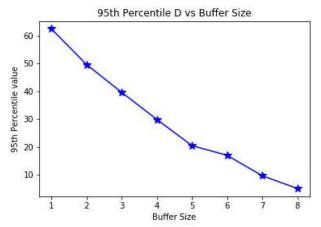
b. Mean D: We observe that as buffer size increases mean value for D decreases.



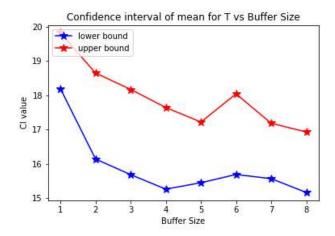
c. 95<sup>th</sup> Percentile of T: We observe that as buffer size increases 95<sup>th</sup> Percentile value for T decreases though we observe a slight increase from size 5 to 6.



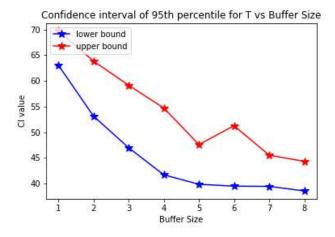
d. 95<sup>th</sup> Percentile of D: We observe that as buffer size increases 95<sup>th</sup> Percentile value for D decreases.



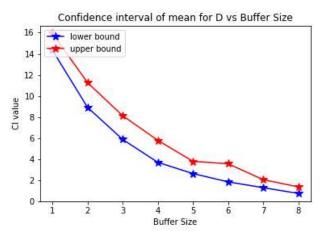
e. Confidence Interval of Mean for T: We observe that as buffer size increases Confidence Interval of Mean for T decreases though we observe a slight increase from size 5 to 6 in the upper bound and increase from size 4 to 5 in lower bound.



f. Confidence Interval of 95<sup>th</sup> Percentile for T: We observe that as buffer size increases Confidence Interval of 95<sup>th</sup> Percentile for T decreases though we observe a slight increase from size 5 to 6 in the upper bound.



g. Confidence Interval of Mean for D: We observe that as buffer size increases Confidence Interval of Mean for D decreases though we observe a slight increase from size 5 to 6 in the upper bound.



h. Confidence Interval of 95<sup>th</sup> Percentile for D: We observe that as buffer size increases Confidence Interval of 95<sup>th</sup> Percentile for D decreases though we observe a slight increase from size 5 to 6 in the upper bound.

