

Deliverables

Submit your code, and a text file named “output.txt” with all your results and comments. Use the following input data. (Remember, that the input values should be entered using prompts from the console.)

Mean inter-arrival time	$1/\lambda = 17.98$ sec
Service time	s
Mean retransmission time	$1/d = 10$ sec
Buffer size	$B = 5$
Number of repetitions	$N = 50$

Task 1:

Vary s as follows: 11, 12, 13, 14, 15, 16, 17. For each value obtain the statistics:

1. Mean and 95th percentile and their confidence interval of T .
2. Mean and 95th percentile and their confidence interval of D .
3. Mean and confidence interval of P

Provide the results in a table and also give graphs for the results in 1 and 2. Comment on your results.

Task 2:

Investigate the effect of varying B on all the above statistics for $s = 16$. Provide numerical results in tables and/or curves and comments on your findings.