**720 5 3**

A screenshot of a cell phone

Description automatically generated

**720 3 3**

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**Analysis:**

            I have run the program several times to reduce the randomness and outcomes became close. These are my analysis:

Since our only free variable is maximum arrival time, other conditions should depend on it.

**The number of customers:** Our number of customers increased. It was kinda predictable, if customers are coming faster(maximum arrival time was lowered), the amount of total served customers should also increase.

**Average wait time:** Average wait time is also predictable, we expected it to become longer and it did become longer due to increment on the number of customers.

**Average service time:** Average service time didn’t change much because the nominator(service time) and the denominator(customer served) changed at similar ratios.

**Maximum wait time:** Maximum wait time is depending on the number of customers in the queue. Since the number of customers in the queue increased so was the maximum wait time.

**Maximum queue length:** Maximum queue length increased because the amount of the number of customers increased.

**Average arrival interval time of customers:** The average arrival interval time of customers decreased because when the maximum arrival time decreased so was arrival time. Also, our number of customers increased and since it is on the denominator it must decrease the ratio.