

MULTIMEDIA UNIVERSITY ®

TMA1301 – COMPUTATIONAL METHODS

Group Assignment

Title: Monte Carlo Queuing Simulation

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# 1. FLOW CHART

## 1.1 SIMPLIFIED VIEW OF EACH SIMULATION

C:\Users\Owner\Desktop\TMA1301 Assignment\Flowcharts\00.png

## 1.2 START AND ERROR HANDLING

C:\Users\Owner\Desktop\TMA1301 Assignment\Flowcharts\01.png

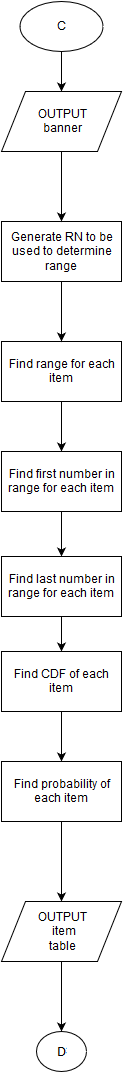
## 1.3 SERVICE TIME TABLE

C:\Users\Owner\Desktop\TMA1301 Assignment\Flowcharts\02.png

## 1.4 INTER-ARRIVAL TIME TABLE

C:\Users\Owner\Desktop\TMA1301 Assignment\Flowcharts\03.png

## 1.5 ITEM TABLE



## C:\Users\Owner\Desktop\TMA1301 Assignment\Flowcharts\05.png1.6 SIMULATION TABLE

## 1.7 COUNTER STATUS

C:\Users\Owner\Desktop\TMA1301 Assignment\Flowcharts\06.png

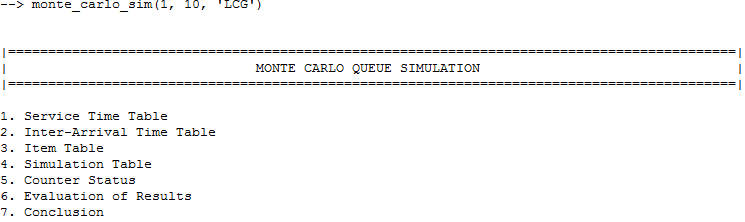
## 1.8 CONCLUSIONS AND END

C:\Users\Owner\Desktop\TMA1301 Assignment\Flowcharts\07.png

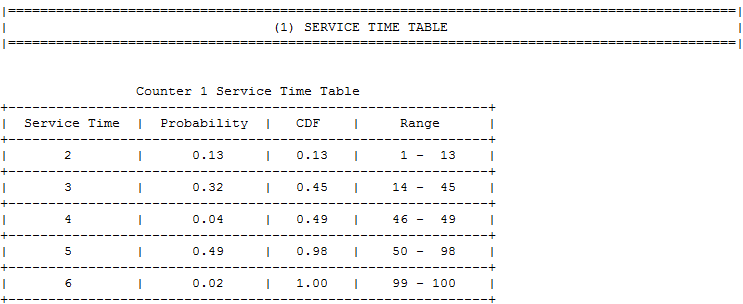
# 2. OUTPUT

## 2.1 ONE SERVER (OFF PEAK HOURS)

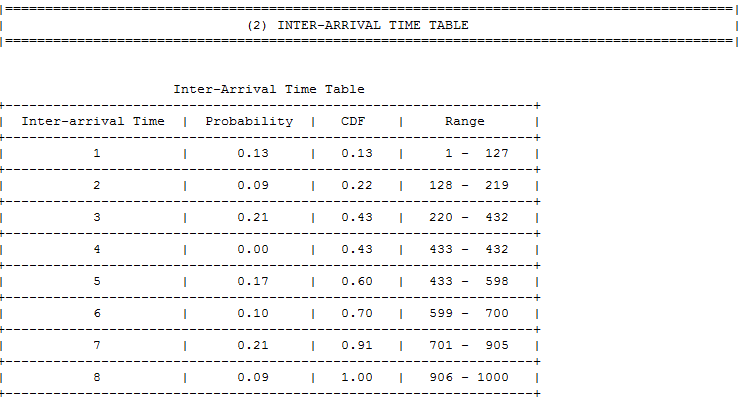
### 2.1.1 TABLE OF CONTENTS



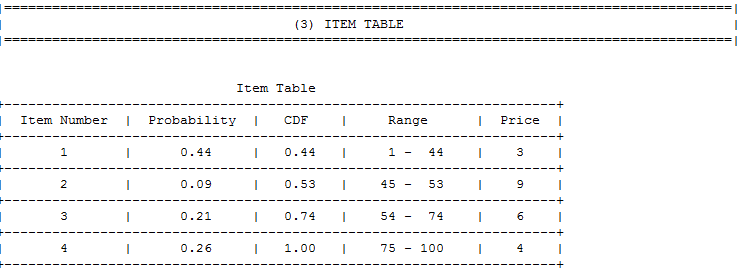
### 2.1.2 SERVICE TIME TABLE



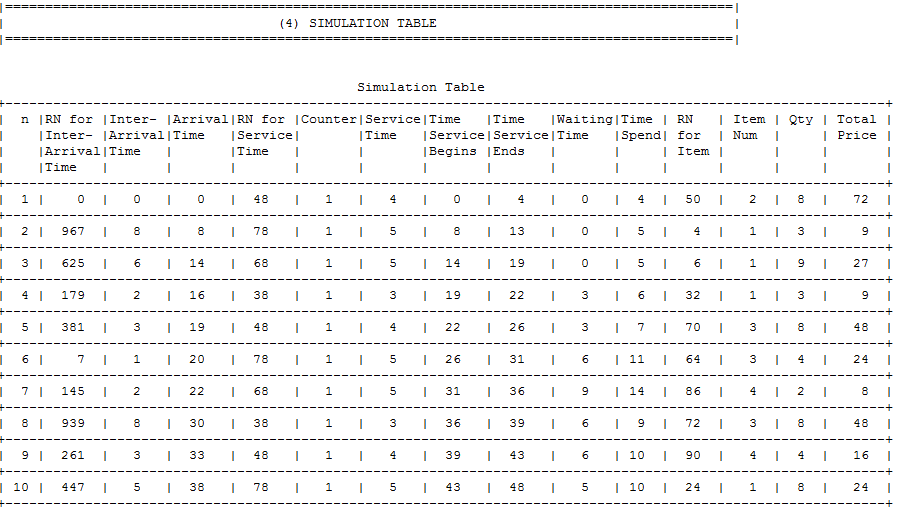
### 2.1.3 INTER-ARRIVAL TIME TABLE



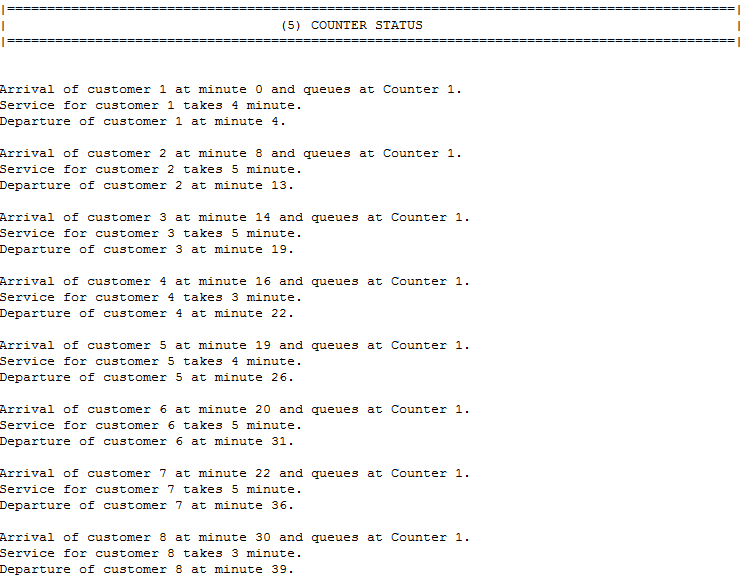
### 2.2.4 ITEM TABLE

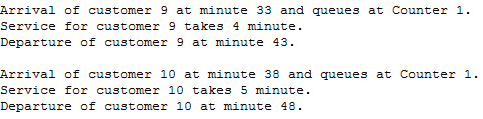


### 2.1.5 SIMULATION TABLE

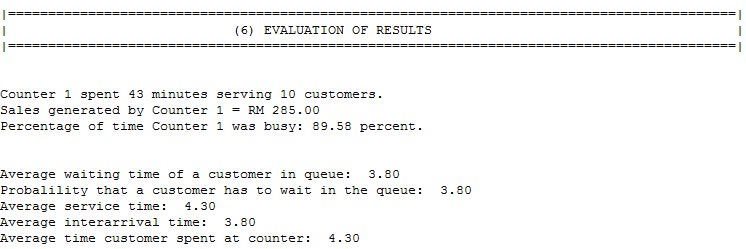


### 2.1.6 COUNTER STATUS

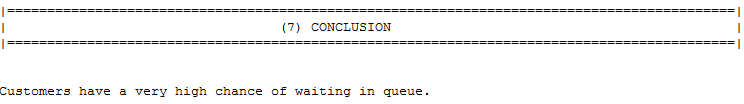




### 2.1.7 EVALUATION OF RESULTS

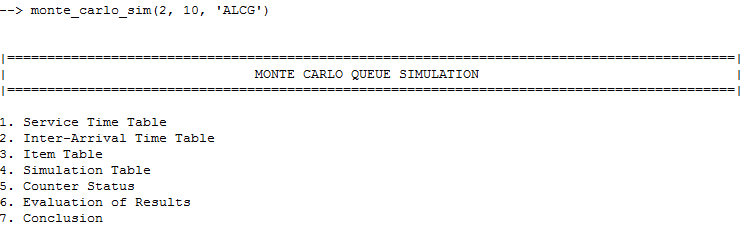


### 2.1.8 CONCLUSIONS

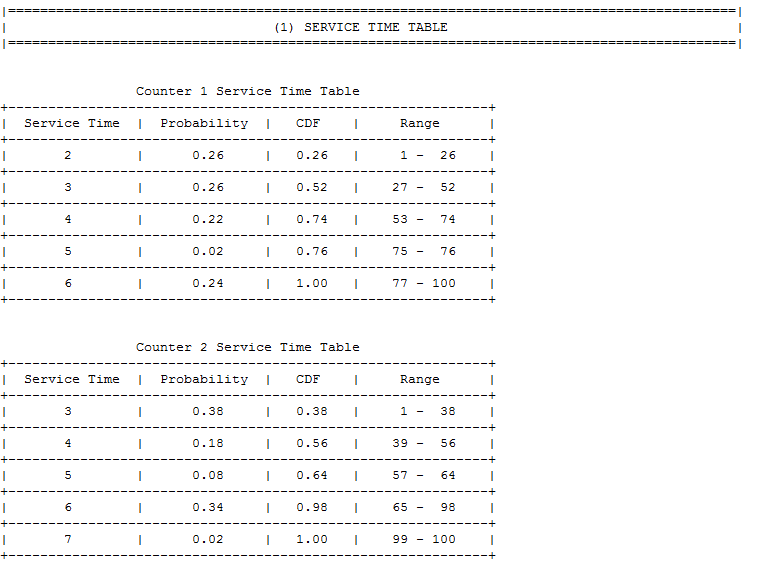


## 2.2 TWO SERVERS (MODERATE PEAK HOURS)

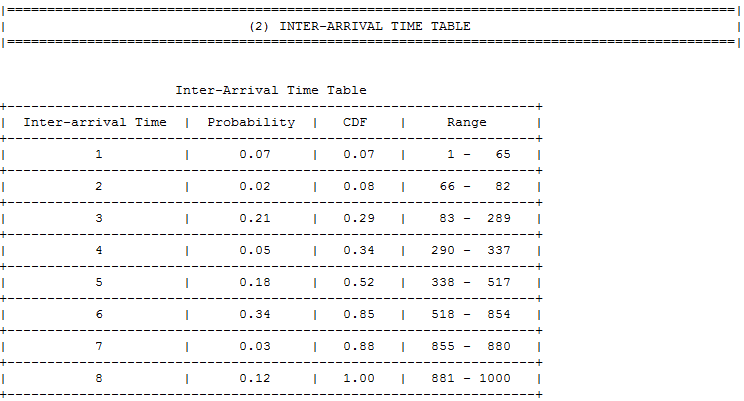
### 2.2.1 TABLE OF CONTENTS



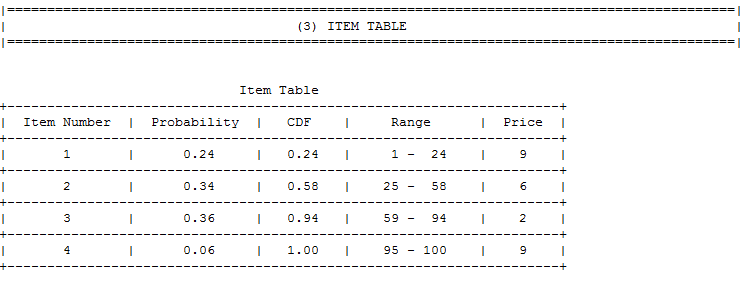
### 2.2.2 SERVICE TIME TABLE



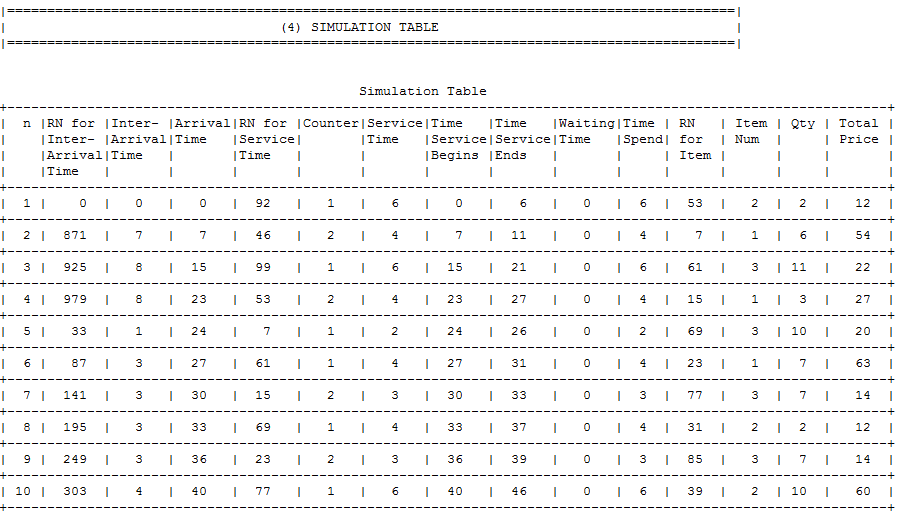
### 2.2.3 INTER-ARRIVAL TIME TABLE



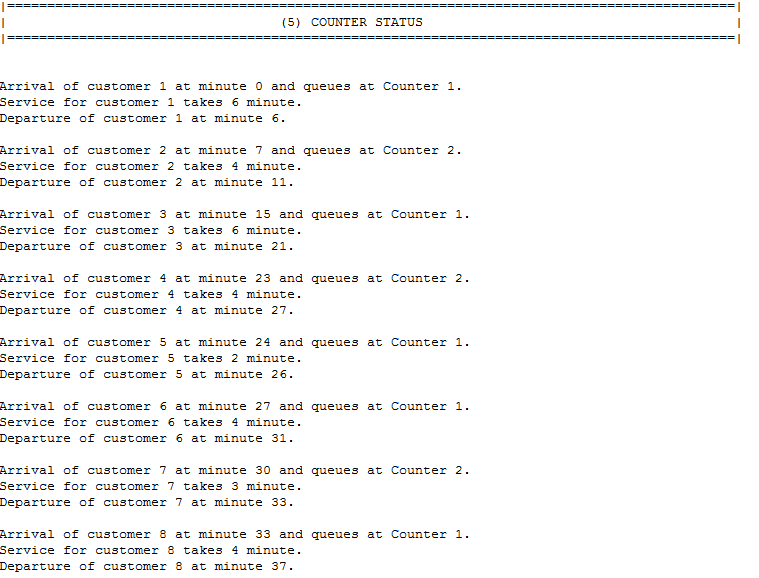
### 2.2.4 ITEM TABLE

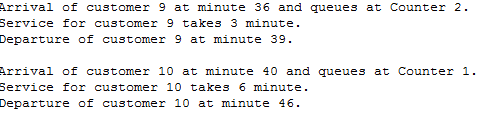


### 2.2.5 SIMULATION TABLE

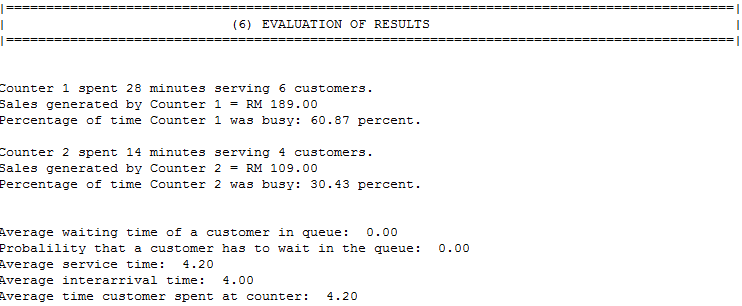


### 2.2.6 COUNTER STATUS

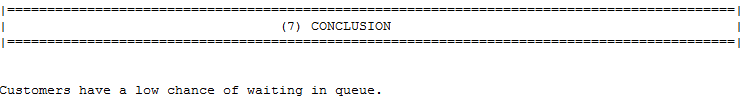




### 2.2.7 EVALUATION OF RESULTS

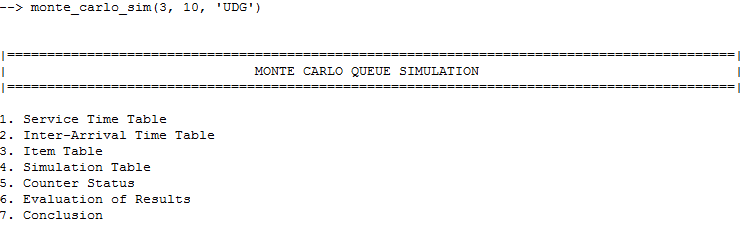
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### 2.2.8 CONCLUSIONS

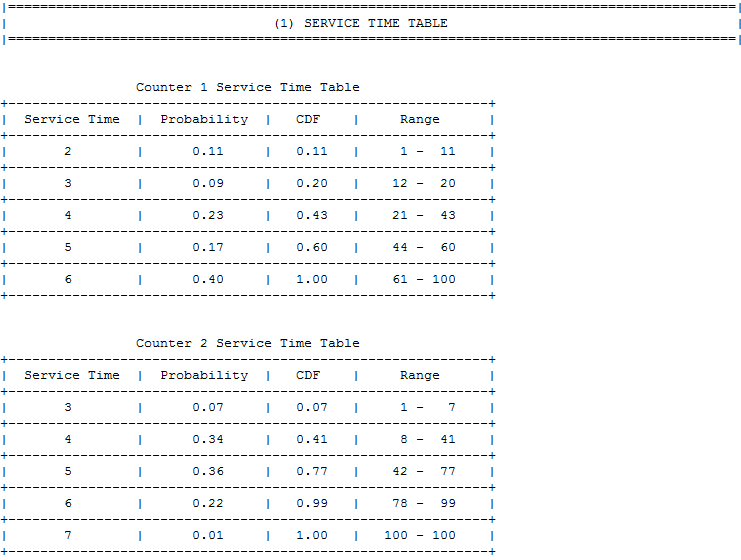


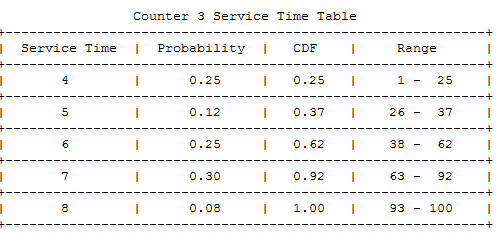
## 2.3 THREE SERVERS (HIGH PEAK HOURS)

### 2.3.1 TABLE OF CONTENTS

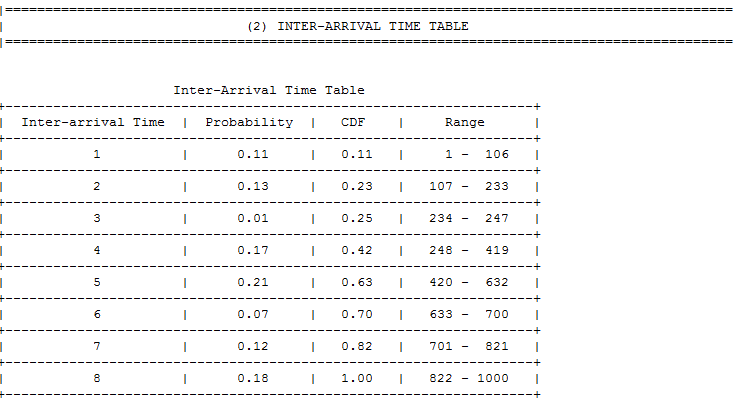


### 2.3.2 SERVICE TIME TABLE

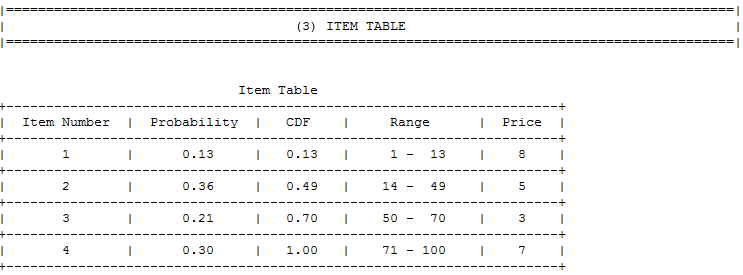




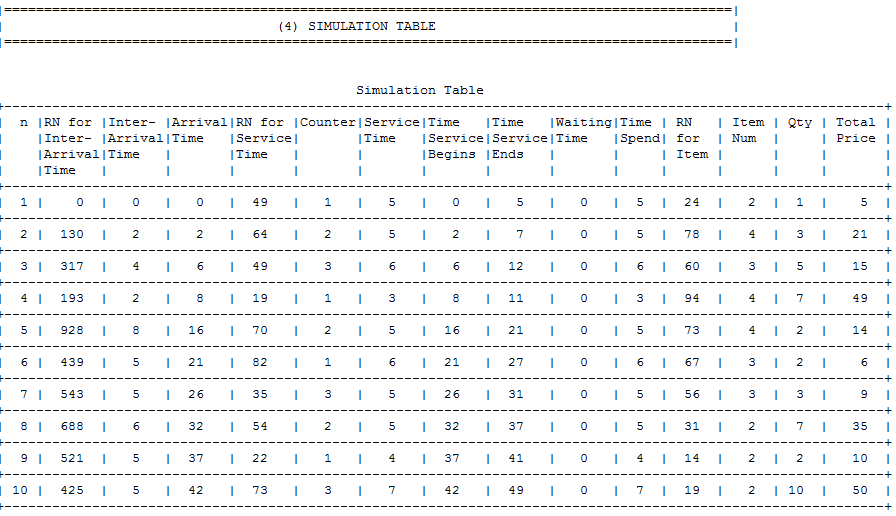
### 2.3.3 INTER-ARRIVAL TIME TABLE



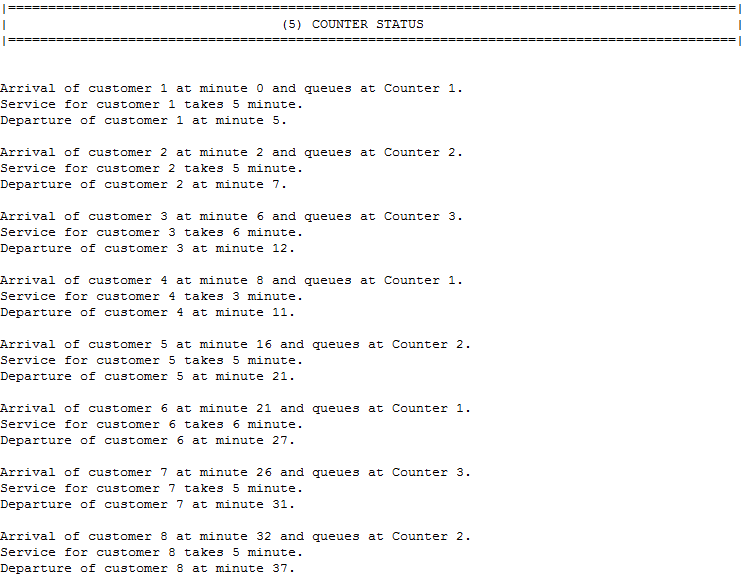
### 2.3.4 ITEM TABLE

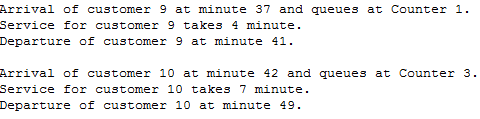


### 2.3.5 SIMULATION TABLE

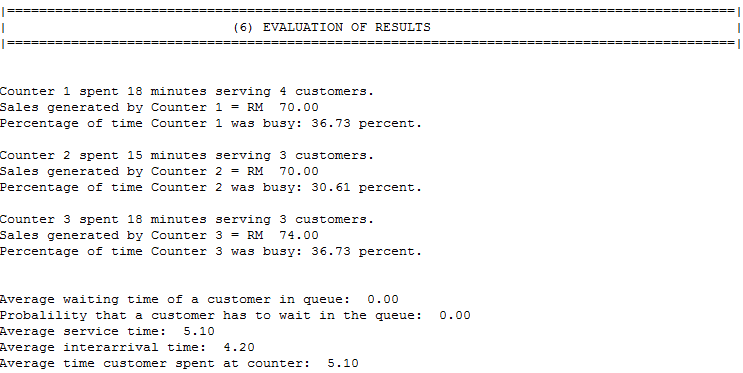


### 2.3.6 COUNTER STATUS

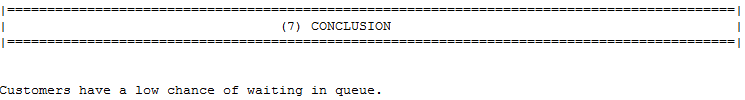




### 2.3.7 EVALUATION OF RESULTS

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### 2.3.8 CONCLUSIONS

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