1. Input:

```
== Module 03 Assignment: Programming Assignment 1 ==
The duration of the check in (min): 100
The coach average arrival rate (min): 5
The coach average service rate (min): 3
The first class average arrival rate (min): 3
The frist class average service rate (min): 4


Coach class total arrival interval: 46643
The average of arrival time: 310
The size of the vector: 150
First class total arrival interval: 18716
The average of arrival time: 187

==============================
Coach passenage service time
Coach class total service time: 34146
The average of service time: 227

==============================
First passenage service time
First class total service time: 29940
The average of service time: 299
First class,  adding a customer
1 persons in a line.
Passenagers in line:
1: 129, 280
```

Processing data:

```
==== Coach service station ====
 dequeue- 10: 395, 195
Current average waiting time: 53, max waiting time: 65
Coach total process seconds: 798
Senconds since open check-in: 1570
The rate of occupancy: 0.50828

First class,  adding a customer
3 persons in a line.
Passenagers in line:
1: 192, 344
2: 320, 356
3: 198, 260

Coach class, adding a customer
1 persons in a line.
Passenagers in line:
1: 222, 258

==== First service station ====
 dequeue- 11: 192, 344
Current average waiting time: 103, max waiting time: 172
First class total process secnds: 1648
Senconds since open check-in: 1776
Rate of occupancy: 0.927928
```

Final report:

```
Senconds since open check-in: 5977
The rate of occupancy: 0.648988

======  The final information  ======
 The duration of the simulation (min): 100
== The coach class ==
The maximum length (persons): 3
The average waiting time (sec): 71
The maximum waiting time (sec): 70
The rate of occupancy (%): 0.646392
== The first class ==
The maximum length (persons): 10
The average waiting time (sec): 100
The maximum waiting time (sec): 120
The rate of occupancy (%): 0.972505
```

2. Input:

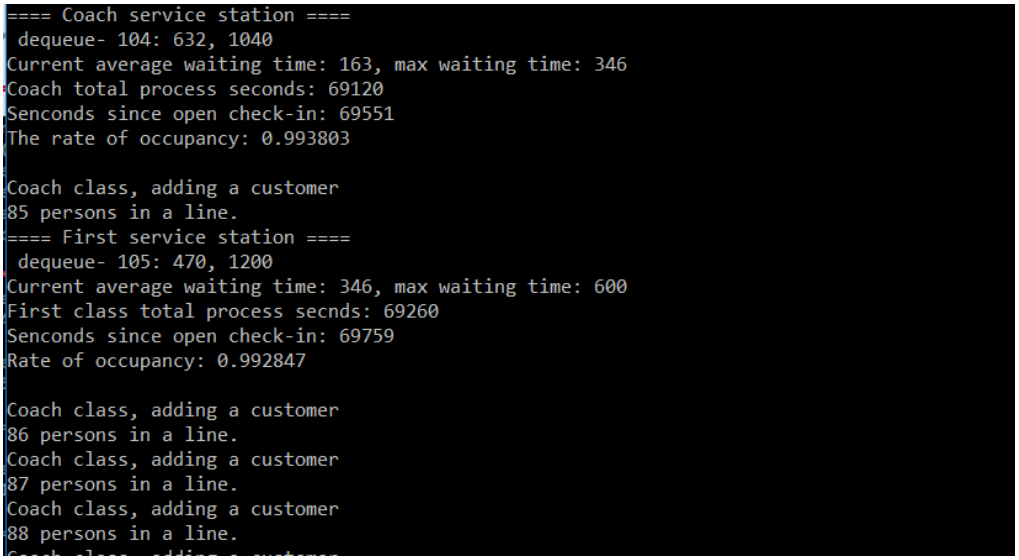
```
== Module 03 Assignment: Programming Assignment 1 ==
The duration of the check in (min): 1200
The coach average arrival rate (min): 8
The coach average service rate (min): 16
The first class average arrival rate (min): 10
The frist class average service rate (min): 20


Coach class total arrival interval: 73216
The average of arrival time: 488
The size of the vector: 150
First class total arrival interval: 63132
The average of arrival time: 631

==============================
Coach passenage service time
Coach class total service time: 174784
The average of service time: 1165

==============================
First passenage service time
First class total service time: 147520
The average of service time: 1475
```

Processing:



Final report: