

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 first 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
```

```
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```
Coach passenge service time  
Coach class total service time: 34146  
The average of service time: 227
```

```
=====
```

```
First passenge 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  
Seconds 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  
Seconds 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:

```
==== Coach service station ====
dequeue- 104: 632, 1040
Current average waiting time: 163, max waiting time: 346
Coach total process seconds: 69120
Senconds since open check-in: 69551
The rate of occupancy: 0.993803

Coach class, adding a customer
85 persons in a line.
==== First service station ====
dequeue- 105: 470, 1200
Current average waiting time: 346, max waiting time: 600
First class total process secnds: 69260
Senconds since open check-in: 69759
Rate of occupancy: 0.992847

Coach class, adding a customer
86 persons in a line.
Coach class, adding a customer
87 persons in a line.
Coach class, adding a customer
88 persons in a line.
Coach class, adding a customer
```

Final report:

```
==== First service station ====
dequeue- 107: 888, 1780
Current average waiting time: 355, max waiting time: 890
First class total process secnds: 71040
Senconds since open check-in: 71539
Rate of occupancy: 0.993025

Coach class, adding a customer
89 persons in a line.
===== The final information =====
The duration of the simulation (min): 1200
== The coach class ==
The maximum length (persons): 89
The average waiting time (sec): 162
The maximum waiting time (sec): 624
The rate of occupancy (%): 0.985986
== The first class ==
The maximum length (persons): 57
The average waiting time (sec): 355
The maximum waiting time (sec): 890
The rate of occupancy (%): 0.986653
```