Written Assignment 1: Suggested Solution

1. (Simulation by Hand)



1. Avg. # in system = 



1. Avg Time in System:

|  |  |  |  |
| --- | --- | --- | --- |
| Customer | Arrive | Depart | Time In System |
| 1 | 25.1 | 130.0 | 104.9 |
| 2 | 41.5 | 70.2 | 28.7 |
| 3 | 96.7 | 151.2 | 54.5 |
| 4 | 112.7 | 170.9 | 58.2 |
|  |  | Sum | 246.3 |



1. No – customer 2 arrived after customer 1 but departed before customer 1 (The queue is fifo, but the overall system is not).