```
/Library/Java/JavaVirtualMachines/jdk-11.0.2.jdk/Contents/Home/bin/j
   Please enter number of customers:
 3
  20
 4 CID:1
 5 Time Since Last Arrival: 0
 6 Arrival Time: 0
   Service Time: 1
 8 Time Server Begins: 0
 9 Time Customer waits in Queue: 0
10 Time Service End: 1
11 Time Customer Spends in System: 1
12 Idle Time of Server: 0
13 Random Digit for Service Time: 2
14 Random Digit for Arrival Time: 707
16 CID: 2
17 Time Since Last Arrival: 7
18 Arrival Time: 7
19 Service Time: 4
20 Time Server Begins: 7
21 Time Customer waits in Queue: 0
22 Time Service End: 11
23 Time Customer Spends in System: 424 Idle Time of Server: 6
25 Random Digit for Service Time: 83
26 Random Digit for Arrival Time: 826
29 Time Since Last Arrival: 5
30 Arrival Time: 12
31 Service Time: 1
32 Time Server Begins: 12
33 Time Customer waits in Queue: 0
34 Time Service End: 13
35 Time Customer Spends in System: 1
36 Idle Time of Server: 1
37 Random Digit for Service Time: 3
38 Random Digit for Arrival Time: 532
40 CID: 4
41 Time Since Last Arrival: 3
42 Arrival Time: 15
43 Service Time: 1
44 Time Server Begins: 15
   Time Customer waits in Queue: 0
45
46
   Time Service End: 16
47
   Time Customer Spends in System: 1
48 Idle Time of Server: 2
49 Random Digit for Service Time: 1
50 Random Digit for Arrival Time: 356
52 CID: 5
53 Time Since Last Arrival: 2
54 Arrival Time: 17
55
   Service Time: 2
56 Time Server Begins: 17
57 Time Customer waits in Queue: 0
58 Time Service End: 19
59 Time Customer Spends in System: 2
```

```
Idle Time of Server: 1
 61 Random Digit for Service Time: 18
 62 Random Digit for Arrival Time: 179
 64 CID:6
 65 Time Since Last Arrival: 8
 66 Arrival Time: 25
 67 Service Time: 4
 68 Time Server Begins: 25
 69 Time Customer waits in Queue: 0
 70 Time Service End: 29
    Time Customer Spends in System: 4
 72 Idle Time of Server : 673 Random Digit for Service Time : 75
 74 Random Digit for Arrival Time: 918
 75
    76 CID: 7
 77 Time Since Last Arrival: 1
 78 Arrival Time: 26
 79 Service Time: 4
    Time Server Begins: 29
    Time Customer waits in Queue: 3
    Time Service End: 33
 82
 83 Time Customer Spends in System: 7
 84 Idle Time of Server: 0
 85
    Random Digit for Service Time: 63
    Random Digit for Arrival Time: 38
 88 CID: 8
 89 Time Since Last Arrival: 4
90 Arrival Time: 30
 91 Service Time: 2
 92 Time Server Begins: 33
 93 Time Customer waits in Queue: 3
 94 Time Service End: 35
    Time Customer Spends in System: 5
 95
 96 Idle Time of Server: 0
 97
    Random Digit for Service Time: 17
 98 Random Digit for Arrival Time: 437
 100 CID: 9
101 Time Since Last Arrival: 7
102 Arrival Time: 37
103 Service Time: 3
    Time Server Begins: 37
104
    Time Customer waits in Queue: 0
105
106
    Time Service End: 40
107 Time Customer Spends in System: 3
108 Idle Time of Server: 2
109 Random Digit for Service Time: 40
110 Random Digit for Arrival Time: 866
112 CID: 10
    Time Since Last Arrival: 6
113
114 Arrival Time: 43
115 Service Time: 3
116 Time Server Begins: 43
117 Time Customer waits in Queue: 0
118 Time Service End: 46
```

```
Time Customer Spends in System: 3
120 Idle Time of Server: 3
121 Random Digit for Service Time: 40
122 Random Digit for Arrival Time: 728
124 CID: 11
125 Time Since Last Arrival: 7
126 Arrival Time: 50
127 Service Time: 6
128 Time Server Begins: 50
129 Time Customer waits in Queue: 0
130 Time Service End: 56
131
    Time Customer Spends in System: 6
132 Idle Time of Server: 4
133 Random Digit for Service Time: 99
134
    Random Digit for Arrival Time: 816
135
    136 CID: 12
137 Time Since Last Arrival: 7
138 Arrival Time: 57
139 Service Time: 1
140 Time Server Begins: 57
141 Time Customer waits in Queue: 0
142 Time Service End: 58
143 Time Customer Spends in System: 1
144 Idle Time of Server: 1
145 Random Digit for Service Time: 2
146
    Random Digit for Arrival Time: 785
149 Time Since Last Arrival: 6
150 Arrival Time: 63
151 Service Time: 5
152 Time Server Begins: 63
153 Time Customer waits in Queue: 0
154 Time Service End: 68
155
    Time Customer Spends in System: 5
156 Idle Time of Server: 5
157
   Random Digit for Service Time: 86
158 Random Digit for Arrival Time: 701
160 CID: 14
161 Time Since Last Arrival: 5
162 Arrival Time: 68
163
    Service Time: 4
    Time Server Begins: 68
164
165
    Time Customer waits in Queue: 0
166
    Time Service End: 72
167 Time Customer Spends in System: 4
168 Idle Time of Server: 0
169 Random Digit for Service Time: 80
170 Random Digit for Arrival Time: 567
172 CID: 15
173
    Time Since Last Arrival: 1
174 Arrival Time : 69
175 Service Time: 3
176 Time Server Begins: 72
177 Time Customer waits in Queue: 3
```

```
Time Service End: 75
    Time Customer Spends in System: 6
179
180 Idle Time of Server: 0
181 Random Digit for Service Time: 58
182 Random Digit for Arrival Time: 75
183
    184 CID: 16
185
    Time Since Last Arrival: 4
186 Arrival Time: 73
187
    Service Time: 5
188 Time Server Begins: 75
    Time Customer waits in Queue: 2
189
190
    Time Service End: 80
191 Time Customer Spends in System: 7
192 Idle Time of Server: 0
193 Random Digit for Service Time: 87
194 Random Digit for Arrival Time: 462
196 CID: 17
    Time Since Last Arrival: 4
197
198 Arrival Time: 77
199 Service Time: 4
200 Time Server Begins: 80
201 Time Customer waits in Queue: 3
202
    Time Service End: 84
203
    Time Customer Spends in System: 7
204 Idle Time of Server: 0
205
    Random Digit for Service Time: 76
206
    Random Digit for Arrival Time: 491
207
    208 CID: 18
209 Time Since Last Arrival: 6
210 Arrival Time: 83
211 Service Time: 4
212 Time Server Begins: 84
213 Time Customer waits in Queue: 1
    Time Service End: 88
Time Customer Spends in System: 5
214
215
216 Idle Time of Server: 0
217 Random Digit for Service Time: 82
218 Random Digit for Arrival Time: 666
220 CID: 19
221 Time Since Last Arrival: 1
222
223
    Arrival Time: 84
    Service Time: 3
224
    Time Server Begins: 88
225
    Time Customer waits in Queue: 4
226
    Time Service End: 91
227
    Time Customer Spends in System: 7
228 Idle Time of Server: 0
229 Random Digit for Service Time: 31
230 Random Digit for Arrival Time: 82
233
    Time Since Last Arrival: 1
234 Arrival Time: 85
235 Service Time: 2
236 Time Server Begins: 91
```

```
Time Customer waits in Queue: 6
238 Time Service End: 93239 Time Customer Spends in System: 8
240 Idle Time of Server: 0
241 Random Digit for Service Time: 13
242 Random Digit for Arrival Time: 108
243
    244 average waiting time for a customer: 1.25
247
    probably of the server being busy: 0.6666666666666667
248
    average service time: 3.1
249
250
    expected value: 3.2
    average time between arrivals: 4.473684210526316
251
    discrete uniform distribution: 4.5
252
    average waiting time of those who wait: 3.125
253
    average time a customer spends in the system: 4.35
254
    average time customer spends in the system: 4.35
255
256
257
    Process finished with exit code 0
```