```
/Library/Java/JavaVirtualMachines/jdk-11.0.2.jdk/Contents/Home/bin/j
   Please Enter number of customers:
 3
  100
 4 ABLE CUSTOMER SIZE: 1
 5 CID: 1
 6 Time Since Last Arrival: 0
 7 Arrival Time: 0
 8 Service Time: 4
 9 Time Server Begins: 0
10 Time Customer waits in Queue: 0
11 Time Service End: 4
12
   Time Customer Spends in System: 4
13 Idle Time of Server: 0
14 Random Digit for Service Time: 59
15 Random Digit for Arrival Time: 48
16 Service Name: ABLE
18 CID: 2
19 Time Since Last Arrival: 1
20 Arrival Time: 1
21 Service Time : 4
22 Time Server Begins: 1
23 Time Customer waits in Queue : 0 24 Time Service End : 5
25 Time Customer Spends in System: 4
26 Idle Time of Server: 0
27 Random Digit for Service Time: 47
28 Random Digit for Arrival Time: 13
29 Service Name: BACKER
31 CID: 3
32 Time Since Last Arrival: 1
33 Arrival Time: 2
34 Service Time: 2
35 Time Server Begins: 4
36 Time Customer waits in Queue: 2
37 Time Service End: 6
38 Time Customer Spends in System: 4
39 Idle Time of Server: 0
40 Random Digit for Service Time: 29
41 Random Digit for Arrival Time: 21
42 Service Name: ABLE
44 CID: 4
45
   Time Since Last Arrival: 2
46 Arrival Time: 4
47 Service Time: 6
48 Time Server Begins: 5
49 Time Customer waits in Queue: 1
50 Time Service End: 11
51 Time Customer Spends in System: 7
52 Idle Time of Server: 0
53 Random Digit for Service Time: 85
54 Random Digit for Arrival Time: 44
55 Service Name: BACKER
57 CID: 5
58 Time Since Last Arrival: 3
59 Arrival Time: 7
```

```
60
    Service Time: 5
    Time Server Begins: 7
 61
    Time Customer waits in Queue: 0
 63
    Time Service End: 12
    Time Customer Spends in System: 5
 64
 65 Idle Time of Server: 1
 66 Random Digit for Service Time: 98
 67 Random Digit for Arrival Time: 75
 68 Service Name: ABLE
 70 CID: 6
 71 Time Since Last Arrival: 2
 72 Arrival Time: 9
 73
    Service Time: 3
 74 Time Server Begins: 11
 75 Time Customer waits in Queue: 2
 76 Time Service End: 14
 77 Time Customer Spends in System: 5
 78 Idle Time of Server: 0
 79 Random Digit for Service Time: 7
 80 Random Digit for Arrival Time: 40
 81 Service Name: BACKER
    82
 83 CID: 7
 84 Time Since Last Arrival: 1
 85 Arrival Time: 10
    Service Time: 5
Time Server Begins: 12
 86
 87
 88
    Time Customer waits in Queue: 2
 89
    Time Service End: 17
 90 Time Customer Spends in System: 7
 91 Idle Time of Server: 0
 92 Random Digit for Service Time: 93
 93 Random Digit for Arrival Time: 16
 94 Service Name: ABLE
 96 CID: 8
 97
    Time Since Last Arrival: 2
 98 Arrival Time : 12
 99 Service Time: 4
100 Time Server Begins: 14
101 Time Customer waits in Queue: 2
102
    Time Service End: 18
103
    Time Customer Spends in System: 6
104 Idle Time of Server: 0
105
    Random Digit for Service Time: 56
106 Random Digit for Arrival Time: 52
109 CID: 9
110 Time Since Last Arrival: 1
111 Arrival Time: 13
112 Service Time: 2
113
    Time Server Begins: 17
114
    Time Customer waits in Queue: 4
115
    Time Service End: 19
116 Time Customer Spends in System: 6
117 Idle Time of Server: 0
118 Random Digit for Service Time: 15
```

```
Random Digit for Arrival Time: 11
120 Service Name: ABLE
122 CID: 10
123 Time Since Last Arrival: 3
124 Arrival Time: 16
125 Service Time: 3
126 Time Server Begins: 18
127 Time Customer waits in Queue: 2
128 Time Service End: 21
129 Time Customer Spends in System: 5
130 Idle Time of Server: 0
131 Random Digit for Service Time: 13
132 Random Digit for Arrival Time: 74
133 Service Name: BACKER
134
    135 CID: 11
136 Time Since Last Arrival: 2
137 Arrival Time: 18
138 Service Time: 5
139
    Time Server Begins: 19
140 Time Customer waits in Queue: 1
141 Time Service End: 24
142 Time Customer Spends in System: 6
143 Idle Time of Server: 0
144 Random Digit for Service Time: 95
145
    Random Digit for Arrival Time: 34
146
    Service Name: ABLE
148
    CID: 12
149 Time Since Last Arrival: 2
150 Arrival Time: 20
151 Service Time: 5
152 Time Server Begins: 21
153 Time Customer waits in Queue: 1
154 Time Service End: 26
155
    Time Customer Spends in System: 6
156 Idle Time of Server: 0
157
   Random Digit for Service Time: 65
158 Random Digit for Arrival Time: 27
159 Service Name: BACKER
161 CID: 13
162
    Time Since Last Arrival: 2
    Arrival Time: 22
163
    Service Time: 3
164
    Time Server Begins: 24
165
166
    Time Customer waits in Queue: 2
    Time Service End: 27
167
168 Time Customer Spends in System: 5
169 Idle Time of Server: 0
170 Random Digit for Service Time: 33
171 Random Digit for Arrival Time: 32
172 Service Name: ABLE
173
    174 CID: 14
175 Time Since Last Arrival: 2
176 Arrival Time: 24
177 Service Time: 5
```

```
Time Server Begins: 26
    Time Customer waits in Queue: 2
179
180 Time Service End: 31
181 Time Customer Spends in System: 7
182 Idle Time of Server: 0
183 Random Digit for Service Time: 69
184 Random Digit for Arrival Time: 55
185
    Service Name: BACKER
187 CID: 15
188
    Time Since Last Arrival: 2
189 Arrival Time: 26
190
    Service Time: 5
191 Time Server Begins: 27
192
    Time Customer waits in Queue: 1
193
    Time Service End: 32
194 Time Customer Spends in System: 6
195 Idle Time of Server: 0
196 Random Digit for Service Time: 87
    Random Digit for Arrival Time: 35
197
198 Service Name: ABLE
200 CID: 16
201 Time Since Last Arrival: 2
202 Arrival Time: 28
203
    Service Time: 3
204
    Time Server Begins: 31
    Time Customer waits in Queue: 3
205
206
    Time Service End: 34
    Time Customer Spends in System: 6
207
208 Idle Time of Server: 0
209 Random Digit for Service Time: 26
210 Random Digit for Arrival Time: 38
211 Service Name: BACKER
213 CID: 17
214
    Time Since Last Arrival: 2
215 Arrival Time: 30
216 Service Time: 4
217 Time Server Begins: 32
218 Time Customer waits in Queue: 2
219 Time Service End: 36
220 Time Customer Spends in System: 6
221 Idle Time of Server: 0
222
    Random Digit for Service Time: 67
223
    Random Digit for Arrival Time: 49
224
    Service Name: ABLE
225
   226
    CID: 18
227 Time Since Last Arrival: 2
228 Arrival Time: 32
229
    Service Time: 3
230 Time Server Begins: 34
231
    Time Customer waits in Queue: 2
232
    Time Service End: 37
233
    Time Customer Spends in System: 5
234 Idle Time of Server: 0
235
    Random Digit for Service Time: 35
236 Random Digit for Arrival Time: 48
```

```
Service Name: BACKER
238
    239 CID: 19
240 Time Since Last Arrival : 2
241 Arrival Time : 34
242 Service Time: 4
243 Time Server Begins: 36
244 Time Customer waits in Queue: 2
245 Time Service End: 40
246 Time Customer Spends in System: 6
247
    Idle Time of Server: 0
248
    Random Digit for Service Time: 78
249 Random Digit for Arrival Time: 35
250 Service Name : ABLE
252 CID: 20
253 Time Since Last Arrival: 3
254 Arrival Time: 37
255 Service Time: 5
    Time Server Begins: 37
Time Customer waits in Queue: 0
256
257
258
    Time Service End: 42
259 Time Customer Spends in System: 5
260 Idle Time of Server: 0
261 Random Digit for Service Time: 72
262
    Random Digit for Arrival Time: 70
263
    Service Name: BACKER
266 Time Since Last Arrival: 3
267 Arrival Time: 40
268 Service Time: 4
269 Time Server Begins: 40
270 Time Customer waits in Queue: 0
271 Time Service End: 44
272 Time Customer Spends in System: 4
273 Idle Time of Server: 0
274 Random Digit for Service Time: 78
275 Random Digit for Arrival Time: 83
276 Service Name: ABLE
278 CID: 22
279 Time Since Last Arrival: 2
280 Arrival Time: 42
    Service Time: 4
281
282
    Time Server Begins: 42
283
    Time Customer waits in Queue: 0
284
    Time Service End: 46
285
    Time Customer Spends in System: 4
286 Idle Time of Server: 0
287 Random Digit for Service Time: 58
288 Random Digit for Arrival Time: 31
289 Service Name: BACKER
292
    Time Since Last Arrival: 4
293 Arrival Time: 46
294 Service Time: 5
295 Time Server Begins: 46
```

```
Time Customer waits in Queue: 0
297
    Time Service End: 51
298 Time Customer Spends in System: 5
299 Idle Time of Server: 2
300 Random Digit for Service Time: 90
301 Random Digit for Arrival Time: 90
302 Service Name: ABLE
304 CID: 24
305
    Time Since Last Arrival: 4
306 Arrival Time: 50
307
    Service Time: 6
308
    Time Server Begins: 50
309
    Time Customer waits in Queue: 0
310 Time Service End: 56
311
    Time Customer Spends in System: 6
312 Idle Time of Server: 4
313 Random Digit for Service Time: 91
314 Random Digit for Arrival Time: 94
315
    Service Name: BACKER
316
    CID: 25
317
318 Time Since Last Arrival: 3
319 Arrival Time: 53
320 Service Time: 2
    Time Server Begins: 53
321
322
    Time Customer waits in Queue: 0
323
    Time Service End: 55
324
    Time Customer Spends in System: 2
325
    Idle Time of Server: 2
326 Random Digit for Service Time: 9
327 Random Digit for Arrival Time: 73
328 Service Name: ABLE
330 CID: 26
331
    Time Since Last Arrival: 2
332
333
    Arrival Time: 55
    Service Time: 2
    Time Server Begins: 55
334
335
    Time Customer waits in Queue: 0
336
    Time Service End: 57
337
    Time Customer Spends in System: 2
338 Idle Time of Server: 0
339
    Random Digit for Service Time: 4
340
    Random Digit for Arrival Time: 28
341
    Service Name: ABLE
342
    343
    CID: 27
344
    Time Since Last Arrival: 2
345 Arrival Time: 57
346 Service Time: 4
347
    Time Server Begins: 57
348 Time Customer waits in Queue: 0
349
    Time Service End: 61
350
    Time Customer Spends in System: 4
351 Idle Time of Server: 0
352
    Random Digit for Service Time: 63
353
    Random Digit for Arrival Time: 48
354 Service Name: ABLE
```

```
356 CID: 28
357
    Time Since Last Arrival: 4
358 Arrival Time: 61
359 Service Time: 5
360 Time Server Begins: 61
361 Time Customer waits in Queue: 0
    Time Service End: 66
362
    Time Customer Spends in System: 5
363
364 Idle Time of Server: 0
365
    Random Digit for Service Time: 91
366
    Random Digit for Arrival Time: 88
367
    Service Name: ABLE
369 CID: 29
370 Time Since Last Arrival: 2
371 Arrival Time: 63
372 Service Time: 4
373 Time Server Begins: 63
374 Time Customer waits in Queue: 0
375
    Time Service End: 67
376
    Time Customer Spends in System: 4
377
    Idle Time of Server: 7
378 Random Digit for Service Time: 59
379 Random Digit for Arrival Time: 49
380 Service Name: BACKER
CID: 30
382
383
    Time Since Last Arrival: 2
384
    Arrival Time: 65
385
    Service Time: 5
386 Time Server Begins: 66
387 Time Customer waits in Oueue: 1
388 Time Service End: 71
389 Time Customer Spends in System: 6
390 Idle Time of Server: 0
391 Random Digit for Service Time: 90
392
    Random Digit for Arrival Time: 26
393 Service Name: ABLE
395 CID: 31
396 Time Since Last Arrival: 1
397 Arrival Time: 66
398 Service Time: 6
399
    Time Server Begins: 67
    Time Customer waits in Queue: 1
400
401
    Time Service End: 73
402
    Time Customer Spends in System: 7
403 Idle Time of Server: 0
404 Random Digit for Service Time: 98
405 Random Digit for Arrival Time: 10
406 Service Name: BACKER
408 CID: 32
   Time Since Last Arrival: 2
409
410 Arrival Time: 68
411 Service Time: 5
412 Time Server Begins: 71
413 Time Customer waits in Queue: 3
```

```
Time Service End: 76
415
    Time Customer Spends in System: 8
416 Idle Time of Server: 0
417 Random Digit for Service Time: 87
418 Random Digit for Arrival Time: 35
419 Service Name: ABLE
421 CID: 33
422
    Time Since Last Arrival: 1
423 Arrival Time: 69
424 Service Time: 6
425
    Time Server Begins: 73
426
    Time Customer waits in Queue: 4
427
    Time Service End: 79
428
    Time Customer Spends in System: 10
429 Idle Time of Server: 0
430 Random Digit for Service Time: 88
431 Random Digit for Arrival Time: 1
432 Service Name: BACKER
433
    434 CID: 34
435
    Time Since Last Arrival: 2
436
    Arrival Time: 71
437
    Service Time: 3
438 Time Server Begins: 76
439 Time Customer waits in Queue: 5
440 Time Service End: 79
    Time Customer Spends in System: 8
441
442
    Idle Time of Server: 0
443
    Random Digit for Service Time: 44
444 Random Digit for Arrival Time: 28
445 Service Name: ABLE
447 CID: 35
448 Time Since Last Arrival: 3
449 Arrival Time: 74
450
    Service Time: 2
451
    Time Server Begins: 79
452
    Time Customer waits in Queue: 5
453
    Time Service End: 81
454
    Time Customer Spends in System: 7
455
    Idle Time of Server: 0
456
    Random Digit for Service Time: 16
457
    Random Digit for Arrival Time: 68
458
    Service Name: ABLE
459
    460
461
    Time Since Last Arrival: 1
462 Arrival Time: 75
463 Service Time: 5
464 Time Server Begins: 79
465 Time Customer waits in Queue: 4
466 Time Service End: 84
    Time Customer Spends in System: 9
467
468 Idle Time of Server: 0
469 Random Digit for Service Time: 71
470 Random Digit for Arrival Time: 17
471 Service Name: BACKER
```

```
CID: 37
473
474 Time Since Last Arrival: 2
475 Arrival Time: 77
476 Service Time: 5
477
    Time Server Begins: 81
478 Time Customer waits in Queue: 4
479
    Time Service End: 86
480 Time Customer Spends in System: 9
481 Idle Time of Server: 0
482
    Random Digit for Service Time: 93
483
    Random Digit for Arrival Time: 29
484
    Service Name: ABLE
485
    CID: 38
486
487
    Time Since Last Arrival: 1
488 Arrival Time: 78
489 Service Time: 3
490 Time Server Begins: 84
491 Time Customer waits in Queue: 6
    Time Service End: 87
492
    Time Customer Spends in System: 9
493
494 Idle Time of Server: 0
495
    Random Digit for Service Time: 21
496 Random Digit for Arrival Time: 18
497 Service Name: BACKER
499 CID: 39
500 Time Since Last Arrival: 3
501 Arrival Time: 81
502
    Service Time: 3
    Time Server Begins: 86
503
504 Time Customer waits in Queue: 5
505 Time Service End: 89
506 Time Customer Spends in System: 8
507 Idle Time of Server: 0
508 Random Digit for Service Time: 58
    Random Digit for Arrival Time: 80
509
510 Service Name: ABLE
512 CID: 40
513 Time Since Last Arrival: 1
514 Arrival Time: 82
515
    Service Time: 4
516
    Time Server Begins: 87
517
    Time Customer waits in Queue: 5
518
    Time Service End: 91
519
    Time Customer Spends in System: 9
520 Idle Time of Server: 0
521 Random Digit for Service Time: 58
522
    Random Digit for Arrival Time: 10
523
    Service Name: BACKER
524
    525
    CID: 41
526
    Time Since Last Arrival: 3
527
    Arrival Time: 85
528 Service Time: 5
529 Time Server Begins: 89
530 Time Customer waits in Queue: 4
531 Time Service End: 94
```

```
Time Customer Spends in System: 9
    Idle Time of Server: 0
533
534
    Random Digit for Service Time: 95
535
    Random Digit for Arrival Time: 78
536 Service Name: ABLE
   537
538 CID: 42
539 Time Since Last Arrival: 2
540 Arrival Time: 87
541 Service Time: 6
542
    Time Server Begins: 91
543
    Time Customer waits in Queue: 4
544
    Time Service End: 97
545
    Time Customer Spends in System: 10
546 Idle Time of Server: 0
547
    Random Digit for Service Time: 93
548 Random Digit for Arrival Time: 35
549 Service Name: BACKER
551 CID: 43
552
    Time Since Last Arrival: 2
553
    Arrival Time: 89
554
    Service Time: 2
555
    Time Server Begins: 94
556
    Time Customer waits in Queue: 5
557
    Time Service End: 96
558
    Time Customer Spends in System: 7
559
    Idle Time of Server: 0
560
    Random Digit for Service Time: 23
561
    Random Digit for Arrival Time: 40
562
    Service Name: ABLE
564 CID: 44
565 Time Since Last Arrival: 3
566 Arrival Time: 92
567
    Service Time: 2
    Time Server Begins: 96
Time Customer waits in Queue: 4
568
569
570 Time Service End: 98
571 Time Customer Spends in System: 6
572 Idle Time of Server: 0
573
    Random Digit for Service Time: 6
574
    Random Digit for Arrival Time: 69
575
    Service Name: ABLE
576
    577
    CID: 45
578
    Time Since Last Arrival: 2
579 Arrival Time: 94
580 Service Time: 5
581 Time Server Begins: 97
582 Time Customer waits in Queue: 3
583
    Time Service End: 102
584
    Time Customer Spends in System: 8
585 Idle Time of Server: 0
586
    Random Digit for Service Time: 62
    Random Digit for Arrival Time: 49
587
588 Service Name: BACKER
590 CID: 46
```

```
591
    Time Since Last Arrival: 3
592
    Arrival Time: 97
593
    Service Time: 3
594
    Time Server Begins: 98
595
    Time Customer waits in Queue: 1
596
    Time Service End: 101
597
    Time Customer Spends in System: 4
598 Idle Time of Server: 0
599
    Random Digit for Service Time: 48
600 Random Digit for Arrival Time: 76
601
    Service Name: ABLE
602
    CID: 47
603
604
    Time Since Last Arrival: 2
605 Arrival Time: 99
606
    Service Time: 2
607 Time Server Begins: 101
608 Time Customer waits in Queue: 2
609 Time Service End: 103
610 Time Customer Spends in System: 4
611 Idle Time of Server: 0
612
    Random Digit for Service Time: 8
613
    Random Digit for Arrival Time: 52
614
    Service Name: ABLE
615
    616 CID:48
617
    Time Since Last Arrival: 1
618 Arrival Time: 100
619
    Service Time: 6
620
    Time Server Begins: 102
621 Time Customer waits in Queue: 2
622
    Time Service End: 108
623 Time Customer Spends in System: 8
624 Idle Time of Server: 0
625 Random Digit for Service Time: 82
    Random Digit for Arrival Time: 3
626
627
    Service Name: BACKER
628
    629 CID:49
630 Time Since Last Arrival: 2
631 Arrival Time: 102
632
    Service Time: 2
633
    Time Server Begins: 103
634
    Time Customer waits in Queue: 1
635
    Time Service End: 105
636
    Time Customer Spends in System: 3
    Idle Time of Server: 0
637
638
    Random Digit for Service Time: 15
    Random Digit for Arrival Time: 46
639
640 Service Name: ABLE
641
    CID: 50
642
    Time Since Last Arrival: 2
643
644 Arrival Time: 104
645
    Service Time: 2
646
    Time Server Begins: 105
647
    Time Customer waits in Queue: 1
648 Time Service End: 107
649 Time Customer Spends in System: 3
```

```
Idle Time of Server: 0
    Random Digit for Service Time: 25
651
    Random Digit for Arrival Time: 53
653
    Service Name: ABLE
654
    655 CID: 51
656
    Time Since Last Arrival: 4
657 Arrival Time: 108
658 Service Time: 2
659 Time Server Begins: 108
660
    Time Customer waits in Queue: 0
    Time Service End: 110
661
662
    Time Customer Spends in System: 2
    Idle Time of Server: 1
663
664 Random Digit for Service Time: 13
665 Random Digit for Arrival Time: 87
666 Service Name: ABLE
668 CID: 52
    Time Since Last Arrival: 1
669
670 Arrival Time: 109
671 Service Time: 4
672
    Time Server Begins: 109
673
    Time Customer waits in Queue: 0
674
    Time Service End: 113
675
    Time Customer Spends in System: 4
676 Idle Time of Server: 1
677
    Random Digit for Service Time: 36
678
    Random Digit for Arrival Time: 3
679
    Service Name: BACKER
681 CID:53
682 Time Since Last Arrival: 1
683 Arrival Time: 110
684 Service Time: 5
685
    Time Server Begins: 110
    Time Customer waits in Queue: 0
686
    Time Service End: 115
687
688 Time Customer Spends in System: 5
689 Idle Time of Server: 0
690 Random Digit for Service Time: 93
691 Random Digit for Arrival Time: 15
692
    Service Name: ABLE
693
    694
    CID: 54
695
    Time Since Last Arrival: 3
696
    Arrival Time: 113
697
    Service Time: 3
   Time Server Begins: 113
698
699 Time Customer waits in Queue: 0
700 Time Service End: 116
701 Time Customer Spends in System: 3
702 Idle Time of Server: 0
703
    Random Digit for Service Time: 11
704 Random Digit for Arrival Time: 84
705
    Service Name: BACKER
707 CID: 55
708 Time Since Last Arrival: 4
```

```
709
    Arrival Time: 117
710 Service Time: 3
711 Time Server Begins: 117
712
    Time Customer waits in Queue: 0
713
    Time Service End: 120
714 Time Customer Spends in System: 3
715 Idle Time of Server: 2
716 Random Digit for Service Time: 46
717
    Random Digit for Arrival Time: 88
718 Service Name: ABLE
720 CID: 56
721 Time Since Last Arrival: 4
722 Arrival Time: 121
723 Service Time: 5
724
    Time Server Begins: 121
725 Time Customer waits in Queue: 0
726 Time Service End: 126
727 Time Customer Spends in System: 5
728 Idle Time of Server: 1
729 Random Digit for Service Time: 92
730 Random Digit for Arrival Time: 91
731 Service Name: ABLE
732
    733 CID: 57
734
    Time Since Last Arrival: 1
735 Arrival Time: 122
736
    Service Time: 3
737
    Time Server Begins: 122
738
    Time Customer waits in Queue: 0
739 Time Service End: 125
740 Time Customer Spends in System: 3
741 Idle Time of Server: 6
742 Random Digit for Service Time: 28
743 Random Digit for Arrival Time: 5
744 Service Name: BACKER
746 CID:58
   Time Since Last Arrival: 1
747
748 Arrival Time: 123
749 Service Time: 6
750 Time Server Begins: 125
751 Time Customer waits in Queue: 2
752
    Time Service End: 131
    Time Customer Spends in System: 8
754
    Idle Time of Server: 0
755
    Random Digit for Service Time: 96
756
    Random Digit for Arrival Time: 20
757
    Service Name: BACKER
758
    759 CID: 59
760 Time Since Last Arrival: 1
761 Arrival Time: 124
762
    Service Time: 4
763
    Time Server Begins: 126
764
    Time Customer waits in Queue: 2
765
    Time Service End: 130
766 Time Customer Spends in System: 6
767 Idle Time of Server: 0
```

```
Random Digit for Service Time: 72
769 Random Digit for Arrival Time: 24
770 Service Name: ABLE
772 CID: 60
773 Time Since Last Arrival: 4
774 Arrival Time: 128
775 Service Time: 5
776 Time Server Begins: 130
777 Time Customer waits in Queue: 2
778 Time Service End: 135
779
    Time Customer Spends in System: 7
780 Idle Time of Server: 0
781 Random Digit for Service Time: 96
782 Random Digit for Arrival Time: 90
783 Service Name: ABLE
785 CID: 61
786 Time Since Last Arrival: 2
787 Arrival Time: 130
788 Service Time: 3
789 Time Server Begins: 131
790 Time Customer waits in Queue: 1
791 Time Service End: 134
792 Time Customer Spends in System: 4
793 Idle Time of Server: 0
794
    Random Digit for Service Time: 32
795
    Random Digit for Arrival Time: 47
796
    Service Name: BACKER
797
   798 CID: 62
799 Time Since Last Arrival: 3
800 Arrival Time: 133
801 Service Time: 5
802 Time Server Begins: 134
803 Time Customer waits in Queue: 1
    Time Service End: 139
804
    Time Customer Spends in System : 6
805
806 Idle Time of Server: 0
807 Random Digit for Service Time: 71
808 Random Digit for Arrival Time: 78
809 Service Name: BACKER
811 CID: 63
812
    Time Since Last Arrival: 2
813
    Arrival Time: 135
814
    Service Time: 5
815
    Time Server Begins: 135
816 Time Customer waits in Queue: 0
817 Time Service End: 140
818 Time Customer Spends in System: 5
819 Idle Time of Server: 0
820 Random Digit for Service Time: 86
821 Random Digit for Arrival Time: 59
822
    Service Name: ABLE
823
   824 CID: 64
825 Time Since Last Arrival: 2
826 Arrival Time: 137
```

```
827
    Service Time: 5
828
    Time Server Begins: 139
    Time Customer waits in Queue: 2
830
    Time Service End: 144
831
    Time Customer Spends in System: 7
832 Idle Time of Server: 0
833
    Random Digit for Service Time: 72
834
    Random Digit for Arrival Time: 63
835
    Service Name: BACKER
836
    837
    CID: 65
838
    Time Since Last Arrival: 1
839 Arrival Time: 138
840
    Service Time: 2
841 Time Server Begins: 140
842
    Time Customer waits in Queue: 2
843
    Time Service End: 142
844
    Time Customer Spends in System: 4
845 Idle Time of Server: 0
    Random Digit for Service Time: 20
846
    Random Digit for Arrival Time: 23
847
848 Service Name: ABLE
849
    850 CID: 66
851
    Time Since Last Arrival: 2
852 Arrival Time: 140
853
    Service Time: 2
854
    Time Server Begins: 142
855
    Time Customer waits in Queue: 2
856
    Time Service End: 144
857
    Time Customer Spends in System: 4
858 Idle Time of Server: 0
859 Random Digit for Service Time: 4
860 Random Digit for Arrival Time: 42
861 Service Name: ABLE
862
    CID: 67
863
864
    Time Since Last Arrival: 2
865 Arrival Time: 142
866 Service Time: 3
867 Time Server Begins: 144
868 Time Customer waits in Queue: 2
869 Time Service End: 147
870 Time Customer Spends in System: 5
871
    Idle Time of Server: 0
872
    Random Digit for Service Time: 48
873
    Random Digit for Arrival Time: 29
874
    Service Name: ABLE
875
    876 CID: 68
877
    Time Since Last Arrival: 2
878 Arrival Time: 144
879
    Service Time: 3
880
    Time Server Begins: 144
881
    Time Customer waits in Queue: 0
882
    Time Service End: 147
883
    Time Customer Spends in System: 3
884 Idle Time of Server: 0
885 Random Digit for Service Time: 29
```

```
Random Digit for Arrival Time: 43
887
    Service Name: BACKER
888
    889 CID: 69
890 Time Since Last Arrival: 3
891 Arrival Time: 147
892
   Service Time: 5
893
    Time Server Begins: 147
894
    Time Customer waits in Queue: 0
895
    Time Service End: 152
896
    Time Customer Spends in System: 5
    Idle Time of Server: 0
897
898
    Random Digit for Service Time: 92
899 Random Digit for Arrival Time: 77
900 Service Name: ABLE
902 CID: 70
903 Time Since Last Arrival: 3
904 Arrival Time: 150
905
    Service Time: 5
906
    Time Server Begins: 150
907
    Time Customer waits in Queue: 0
908 Time Service End: 155
909 Time Customer Spends in System: 5
910 Idle Time of Server: 3
911 Random Digit for Service Time: 76
912
    Random Digit for Arrival Time: 79
913
    Service Name: BACKER
914
    CID: 71
915
916
    Time Since Last Arrival: 1
917 Arrival Time: 151
918 Service Time: 5
919 Time Server Begins: 152
920 Time Customer waits in Queue: 1
921 Time Service End: 157
922
    Time Customer Spends in System: 6
923
    Idle Time of Server: 0
924
    Random Digit for Service Time: 98
925 Random Digit for Arrival Time: 16
926 Service Name: ABLE
927
   928 CID: 72
929
    Time Since Last Arrival: 2
930 Arrival Time: 153
931
    Service Time: 6
932
    Time Server Begins: 155
933
    Time Customer waits in Queue: 2
934
    Time Service End: 161
935
    Time Customer Spends in System: 8
936 Idle Time of Server: 0
937
    Random Digit for Service Time: 87
938
    Random Digit for Arrival Time: 48
939 Service Name: BACKER
941 CID: 73
942 Time Since Last Arrival: 1
943 Arrival Time: 154
944 Service Time: 2
```

```
Time Server Begins: 157
 946
     Time Customer waits in Queue: 3
     Time Service End: 159
 947
 948
     Time Customer Spends in System: 5
 949 Idle Time of Server: 0
 950 Random Digit for Service Time: 18
 951
     Random Digit for Arrival Time: 9
 952
     Service Name: ABLE
 953
     954 CID: 74
 955
     Time Since Last Arrival: 2
 956
     Arrival Time: 156
 957
     Service Time: 5
 958 Time Server Begins : 159
 959 Time Customer waits in Queue: 3
 960 Time Service End: 164
 961 Time Customer Spends in System: 8
 962 Idle Time of Server: 0
 963 Random Digit for Service Time: 85
 964 Random Digit for Arrival Time: 41
 965 Service Name: ABLE
 967 CID: 75
 968 Time Since Last Arrival: 3
 969 Arrival Time: 159
 970 Service Time: 3
 971 Time Server Begins: 161
 972 Time Customer waits in Queue: 2
 973
     Time Service End: 164
 974
     Time Customer Spends in System: 5
 975 Idle Time of Server: 0
 976 Random Digit for Service Time: 23
 977 Random Digit for Arrival Time: 72
 978 Service Name: BACKER
 980 CID: 76
 981 Time Since Last Arrival: 3
982 Arrival Time: 162
 983
     Service Time: 5
 984 Time Server Begins: 164
 985 Time Customer waits in Queue: 2
 986 Time Service End: 169
 987
     Time Customer Spends in System: 7
 988 Idle Time of Server: 0
     Random Digit for Service Time: 85
 989
 990
     Random Digit for Arrival Time: 68
 991 Service Name: ABLE
 992
    993 CID: 77
 994 Time Since Last Arrival: 2
 995 Arrival Time: 164
 996 Service Time: 5
 997 Time Server Begins: 164
 998 Time Customer waits in Queue: 0
     Time Service End: 169
 999
1000 Time Customer Spends in System: 5
1001 Idle Time of Server: 0
1002 Random Digit for Service Time: 65
1003 Random Digit for Arrival Time: 41
```

```
Service Name: BACKER
1004
1005
     1006 CID: 78
1007 Time Since Last Arrival : 1
1008 Arrival Time : 165
1009 Service Time: 2
1010 Time Server Begins: 169
1011 Time Customer waits in Queue: 4
1012 Time Service End: 171
1013 Time Customer Spends in System: 6
1014 Idle Time of Server: 0
1015
     Random Digit for Service Time: 29
1016 Random Digit for Arrival Time: 22
1017 Service Name: ABLE
1019 CID: 79
1020 Time Since Last Arrival: 3
1021 Arrival Time : 168
1022 Service Time: 4
1023 Time Server Begins: 169
1024 Time Customer waits in Queue : 1
1025
     Time Service End: 173
1026 Time Customer Spends in System: 5
1027 Idle Time of Server: 0
1028 Random Digit for Service Time: 60
1029 Random Digit for Arrival Time: 70
1030 Service Name: BACKER
1032 CID: 80
1033 Time Since Last Arrival: 3
1034 Arrival Time: 171
1035 Service Time: 2
1036 Time Server Begins: 171
1037 Time Customer waits in Queue: 0
1038 Time Service End: 173
1039 Time Customer Spends in System: 2
1040 Idle Time of Server: 0
1041 Random Digit for Service Time: 26
1042 Random Digit for Arrival Time: 69
1043 Service Name: ABLE
1045 CID: 81
1046 Time Since Last Arrival: 1
1047 Arrival Time: 172
1048 Service Time : 2
1049 Time Server Begins : 173
1050 Time Customer waits in Queue: 1
1051 Time Service End: 175
1052 Time Customer Spends in System: 3
1053 Idle Time of Server: 0
1054 Random Digit for Service Time: 23
1055 Random Digit for Arrival Time: 17
1056 Service Name: ABLE
1058 CID: 82
1059 Time Since Last Arrival : 2
1060 Arrival Time : 174
1061 Service Time: 4
1062 Time Server Begins: 174
```

```
Time Customer waits in Queue: 0
1063
1064
     Time Service End: 178
     Time Customer Spends in System: 4
1065
1066 Idle Time of Server: 1
     Random Digit for Service Time: 39
1067
1068 Random Digit for Arrival Time: 34
1069 Service Name: BACKER
1071 CID: 83
1072 Time Since Last Arrival: 4
1073 Arrival Time: 178
1074 Service Time: 3
1075
     Time Server Begins: 178
1076
     Time Customer waits in Queue: 0
1077
     Time Service End: 181
1078 Time Customer Spends in System: 3
1079 Idle Time of Server: 3
1080 Random Digit for Service Time: 36
1081 Random Digit for Arrival Time: 90
1082 Service Name: ABLE
1083
     1084 CID: 84
1085 Time Since Last Arrival: 3
1086 Arrival Time: 181
1087 Service Time: 5
1088 Time Server Begins: 181
1089 Time Customer waits in Queue: 0
1090 Time Service End: 186
1091
     Time Customer Spends in System: 5
1092 Idle Time of Server: 0
1093 Random Digit for Service Time: 90
1094 Random Digit for Arrival Time: 70
1095 Service Name: ABLE
1097 CID: 85
1098 Time Since Last Arrival: 2
1099 Arrival Time: 183
1100 Service Time: 5
1101 Time Server Begins: 183
1102 Time Customer waits in Queue: 0
1103 Time Service End: 188
1104 Time Customer Spends in System: 5
1105 Idle Time of Server: 5
1106 Random Digit for Service Time: 73
1107
     Random Digit for Arrival Time: 48
1108
     Service Name: BACKER
1110 CID: 86
1111 Time Since Last Arrival: 1
1112 Arrival Time : 184
1113 Service Time: 3
1114 Time Server Begins: 186
1115 Time Customer waits in Queue: 2
1116 Time Service End: 189
1117
     Time Customer Spends in System: 5
1118 Idle Time of Server: 0
1119 Random Digit for Service Time: 52
1120 Random Digit for Arrival Time: 6
1121 Service Name: ABLE
```

```
1122
     1123
     CID: 87
1124
     Time Since Last Arrival: 1
1125 Arrival Time: 185
1126 Service Time: 3
1127 Time Server Begins: 188
1128 Time Customer waits in Queue: 3
1129 Time Service End: 191
1130 Time Customer Spends in System: 6
1131 Idle Time of Server: 0
1132
     Random Digit for Service Time: 11
1133
     Random Digit for Arrival Time: 20
1134
     Service Name: BACKER
1135
    1136 CID: 88
1137 Time Since Last Arrival: 4
1138 Arrival Time : 189
1139 Service Time: 5
1140 Time Server Begins: 189
1141 Time Customer waits in Oueue: 0
     Time Service End: 194
1142
1143
     Time Customer Spends in System: 5
1144 Idle Time of Server: 0
1145 Random Digit for Service Time: 90
1146 Random Digit for Arrival Time: 96
1147 Service Name: ABLE
1149 CID: 89
1150 Time Since Last Arrival: 1
1151 Arrival Time: 190
1152
     Service Time: 4
1153 Time Server Begins: 191
1154 Time Customer waits in Oueue: 1
1155 Time Service End: 195
1156 Time Customer Spends in System: 5
1157 Idle Time of Server: 0
1158
     Random Digit for Service Time: 41
     Random Digit for Arrival Time: 4
1159
1160 Service Name: BACKER
1162 CID: 90
1163 Time Since Last Arrival: 2
1164 Arrival Time: 192
1165
     Service Time: 5
1166
     Time Server Begins: 194
1167
     Time Customer waits in Queue: 2
1168
     Time Service End: 199
1169 Time Customer Spends in System: 7
1170 Idle Time of Server: 0
1171 Random Digit for Service Time: 97
1172 Random Digit for Arrival Time: 37
1173 Service Name: ABLE
1175 CID: 91
1176 Time Since Last Arrival: 2
    Arrival Time: 194
1177
1178 Service Time: 3
1179 Time Server Begins: 195
1180 Time Customer waits in Queue: 1
```

```
Time Service End: 198
1181
1182
     Time Customer Spends in System: 4
     Idle Time of Server: 0
1183
1184 Random Digit for Service Time: 23
1185 Random Digit for Arrival Time: 61
1186 Service Name: BACKER
1187
    1188 CID: 92
1189 Time Since Last Arrival: 1
1190 Arrival Time: 195
1191 Service Time: 4
     Time Server Begins: 198
1192
1193
     Time Customer waits in Queue: 3
1194
     Time Service End: 202
1195
     Time Customer Spends in System: 7
1196 Idle Time of Server: 0
1197 Random Digit for Service Time: 53
1198 Random Digit for Arrival Time: 4
1199 Service Name: BACKER
1201 CID: 93
     Time Since Last Arrival: 1
1202
1203
    Arrival Time: 196
1204 Service Time: 2
1205 Time Server Begins: 199
1206 Time Customer waits in Queue: 3
1207
     Time Service End: 201
1208 Time Customer Spends in System: 5
1209 Idle Time of Server: 0
1210 Random Digit for Service Time: 28
1211 Random Digit for Arrival Time: 5
1212 Service Name: ABLE
1214 CID: 94
1215 Time Since Last Arrival: 1
1216 Arrival Time: 197
1217
     Service Time: 2
1218
     Time Server Begins: 201
1219 Time Customer waits in Queue: 4
1220 Time Service End: 203
1221 Time Customer Spends in System: 6
1222 Idle Time of Server: 0
1223
     Random Digit for Service Time: 17
1224
     Random Digit for Arrival Time: 22
1225
     Service Name: ABLE
1226
     CID: 95
1227
1228 Time Since Last Arrival: 1
1229 Arrival Time: 198
1230 Service Time: 6
1231 Time Server Begins: 202
1232 Time Customer waits in Queue: 4
1233
    Time Service End: 208
     Time Customer Spends in System: 10
1234
     Idle Time of Server: 0
1235
1236 Random Digit for Service Time: 91
1237 Random Digit for Arrival Time: 20
1238 Service Name: BACKER
```

```
1240 CID: 96
1241
     Time Since Last Arrival: 1
1242 Arrival Time: 199
1243
     Service Time: 4
1244
     Time Server Begins: 203
1245 Time Customer waits in Queue: 4
1246 Time Service End: 207
1247 Time Customer Spends in System: 8
1248 Idle Time of Server: 0
1249 Random Digit for Service Time: 80
1250 Random Digit for Arrival Time: 16
1251 Service Name: ABLE
1253 CID: 97
1254 Time Since Last Arrival: 2
1255 Arrival Time: 201
1256 Service Time: 4
1257 Time Server Begins: 207
1258 Time Customer waits in Queue: 6
1259 Time Service End: 211
1260 Time Customer Spends in System: 10
1261 Idle Time of Server: 0
1262
     Random Digit for Service Time: 74
1263
     Random Digit for Arrival Time: 47
1264 Service Name: ABLE
1266 CID: 98
1267
     Time Since Last Arrival: 1
1268 Arrival Time: 202
1269
     Service Time: 3
1270 Time Server Begins: 208
1271 Time Customer waits in Queue: 6
1272 Time Service End: 211
1273 Time Customer Spends in System: 9
1274 Idle Time of Server: 0
1275 Random Digit for Service Time: 33
1276 Random Digit for Arrival Time: 12
1279 CID: 99
1280 Time Since Last Arrival: 1
1281 Arrival Time: 203
1282 Service Time: 5
1283
     Time Server Begins: 211
     Time Customer waits in Queue: 8
1284
1285
     Time Service End: 216
1286
     Time Customer Spends in System: 13
1287
     Idle Time of Server: 0
1288 Random Digit for Service Time: 95
1289 Random Digit for Arrival Time: 24
1290 Service Name: ABLE
1292 CID: 100
1293
     Time Since Last Arrival: 3
1294 Arrival Time : 206
1295 Service Time: 5
1296 Time Server Begins: 211
1297 Time Customer waits in Queue: 5
1298 Time Service End: 216
```

```
1299
     Time Customer Spends in System: 10
1300
     Idle Time of Server: 0
     Random Digit for Service Time: 80
1301
1302
     Random Digit for Arrival Time: 77
     Service Name: BACKER
1303
1304
     1305 ABLE CALCULATIONS:
1306 ABLE average waiting time for a customer: 1.9298245614035088
1307 ABLE probably that a customer has to wait in queue: 0.684210526315
1308 ABLE fraction of idle time of the server: 0.05555555555555555
ABLE average service time: 3.5789473684210527
1310
1311 ABLE expected value: 3.29
1312
     ABLE average time between arrivals: 3.625
1313
     ABLE discrete uniform distribution: 2.5
1314
     ABLE average waiting time of those who wait: 2.8205128205128207
1315
     ABLE average time a customer spends in the system: 5.508771929824
1316 ABLE average time customer spends in the system: 5.5087719298245
1317
     The able customer: 57
1318
     The backer customer: 43
1319
     1320 BACKER CALCULATIONS:
1321
     BACKER average waiting time for a customer: 1.813953488372093
1322
     BACKER probably that a customer has to wait in queue : 0.697674418
1323
     BACKER fraction of idle time of the server: 0.125
1324
     BACKER probably of the server being busy: 0.875
     BACKER average service time: 4.372093023255814 BACKER expected value: 4.25
1325
1326
1327
     BACKER average time between arrivals: 4.904761904761905
1328
     BACKER discrete uniform distribution: 2.5
1329
     BACKER average waiting time of those who wait: 2.6
1330
     BACKER average time a customer spends in the system: 6.186046511
1331
     BACKER average time customer spends in the system: 6.18604651161
1332
     The able customer: 57
1333
     The backer customer: 43
1334
     Excel written successfully...
1335
1336
     Process finished with exit code 0
1337
```