```
/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: 2
 9 Time Server Begins: 0
10 Time Customer waits in Queue: 0
11 Time Service End: 2
12
   Time Customer Spends in System: 2
13 Idle Time of Server: 0
14 Random Digit for Service Time: 14
15 Random Digit for Arrival Time: 71
16 Service Name: ABLE
18 CID: 2
19 Time Since Last Arrival: 2
20 Arrival Time : 2
21 Service Time : 5
22 Time Server Begins: 2
23 Time Customer waits in Queue : 0 24 Time Service End : 7
25 Time Customer Spends in System: 5
26 Idle Time of Server: 0
27 Random Digit for Service Time: 94
28 Random Digit for Arrival Time: 32
29 Service Name: ABLE
31 CID: 3
32 Time Since Last Arrival: 2
33 Arrival Time: 4
34 Service Time: 3
35 Time Server Begins: 4
36 Time Customer waits in Queue: 0
37 Time Service End: 7
38 Time Customer Spends in System: 3
39 Idle Time of Server: 0
40 Random Digit for Service Time: 10
41 Random Digit for Arrival Time: 41
42 Service Name: BACKER
44 CID: 4
45
   Time Since Last Arrival: 2
46 Arrival Time: 6
47 Service Time: 4
48 Time Server Begins: 7
49 Time Customer waits in Queue: 1
50 Time Service End: 11
51 Time Customer Spends in System: 5
52 Idle Time of Server: 0
53 Random Digit for Service Time: 70
54 Random Digit for Arrival Time: 41
55 Service Name: ABLE
57 CID: 5
58 Time Since Last Arrival: 3
59 Arrival Time: 9
```

```
60
    Service Time: 4
 61 Time Server Begins: 9
    Time Customer waits in Queue: 0
 63
    Time Service End: 13
    Time Customer Spends in System: 4
 64
 65 Idle Time of Server: 2
 66 Random Digit for Service Time: 37
 67 Random Digit for Arrival Time: 76
 68 Service Name: BACKER
 70 CID: 6
 71 Time Since Last Arrival: 1
 72 Arrival Time: 10
 73
    Service Time: 3
 74 Time Server Begins: 11
 75 Time Customer waits in Queue: 1
 76 Time Service End: 14
 77 Time Customer Spends in System: 4
 78 Idle Time of Server: 0
 79 Random Digit for Service Time: 58
 80 Random Digit for Arrival Time: 22
 81 Service Name: ABLE
    82
 83 CID: 7
 84 Time Since Last Arrival: 3
 85 Arrival Time: 13
    Service Time: 4
Time Server Begins: 13
 86
 87
 88
    Time Customer waits in Queue: 0
 89
    Time Service End: 17
 90 Time Customer Spends in System: 4
 91 Idle Time of Server: 0
 92 Random Digit for Service Time: 57
 93 Random Digit for Arrival Time: 84
 94 Service Name: BACKER
 96 CID: 8
 97
    Time Since Last Arrival: 1
 98 Arrival Time : 14
 99 Service Time: 5
100 Time Server Begins: 14
101 Time Customer waits in Queue: 0
102
    Time Service End: 19
103
    Time Customer Spends in System: 5
104 Idle Time of Server: 0
105
    Random Digit for Service Time: 87
106 Random Digit for Arrival Time: 10
109 CID: 9
110 Time Since Last Arrival: 3
111 Arrival Time: 17
112 Service Time: 4
113
    Time Server Begins: 17
114
    Time Customer waits in Queue: 0
115
    Time Service End: 21
116 Time Customer Spends in System: 4
117 Idle Time of Server: 0
118 Random Digit for Service Time: 49
```

```
Random Digit for Arrival Time: 80
120 Service Name: BACKER
122 CID: 10
123 Time Since Last Arrival: 3
124 Arrival Time: 20
125 Service Time: 2
126 Time Server Begins: 20
127 Time Customer waits in Queue: 0
128 Time Service End: 22
129 Time Customer Spends in System: 2
130 Idle Time of Server: 1
131 Random Digit for Service Time: 26
132 Random Digit for Arrival Time: 82
133 Service Name: ABLE
134
    135 CID: 11
136 Time Since Last Arrival: 2
137 Arrival Time: 22
138 Service Time: 2
139
    Time Server Begins: 22
140 Time Customer waits in Queue: 0
141 Time Service End: 24
142 Time Customer Spends in System: 2
143 Idle Time of Server: 0
144 Random Digit for Service Time: 14
145
    Random Digit for Arrival Time: 40
146
    Service Name: ABLE
149 Time Since Last Arrival: 3
150 Arrival Time: 25
151 Service Time: 3
152 Time Server Begins: 25
153 Time Customer waits in Queue: 0
154 Time Service End: 28
155
    Time Customer Spends in System: 3
156 Idle Time of Server: 1
157
   Random Digit for Service Time: 43
158 Random Digit for Arrival Time: 71
159 Service Name: ABLE
161 CID: 13
162
    Time Since Last Arrival: 1
    Arrival Time: 26
163
    Service Time: 4
164
    Time Server Begins: 26
165
166
    Time Customer waits in Queue: 0
   Time Service End: 30
167
168 Time Customer Spends in System: 4
169 Idle Time of Server: 5
170 Random Digit for Service Time: 49
171 Random Digit for Arrival Time: 16
172 Service Name: BACKER
173
   174 CID: 14
175 Time Since Last Arrival: 3
176 Arrival Time: 29
177 Service Time: 5
```

```
Time Server Begins: 29
    Time Customer waits in Queue: 0
179
180 Time Service End: 34
181 Time Customer Spends in System: 5
182 Idle Time of Server: 1
183 Random Digit for Service Time: 95
184 Random Digit for Arrival Time: 79
185
    Service Name: ABLE
187 CID: 15
188
    Time Since Last Arrival: 2
189 Arrival Time: 31
190
    Service Time: 4
191 Time Server Begins: 31
192
    Time Customer waits in Queue: 0
193
    Time Service End: 35
194 Time Customer Spends in System: 4
195 Idle Time of Server: 1
196 Random Digit for Service Time: 40
197
    Random Digit for Arrival Time: 55
198 Service Name: BACKER
200 CID: 16
201 Time Since Last Arrival: 1
202 Arrival Time: 32
203 Service Time: 4
204
    Time Server Begins: 34
    Time Customer waits in Queue: 2
205
206
    Time Service End: 38
207
    Time Customer Spends in System: 6
208 Idle Time of Server: 0
209 Random Digit for Service Time: 65
210 Random Digit for Arrival Time: 4
211 Service Name: ABLE
213 CID: 17
214
    Time Since Last Arrival: 1
215 Arrival Time: 33
216 Service Time: 6
217 Time Server Begins: 35
218 Time Customer waits in Queue: 2
219 Time Service End: 41
220 Time Customer Spends in System: 8
221 Idle Time of Server: 0
222
    Random Digit for Service Time: 92
223
    Random Digit for Arrival Time: 15
224
    Service Name: BACKER
226
    CID: 18
227 Time Since Last Arrival: 4
228 Arrival Time: 37
229
    Service Time: 3
230 Time Server Begins: 38
231
    Time Customer waits in Queue: 1
232
    Time Service End: 41
233
    Time Customer Spends in System: 4
234 Idle Time of Server: 0
235
    Random Digit for Service Time: 34
236 Random Digit for Arrival Time: 89
```

```
Service Name: ABLE
238
    239 CID: 19
240 Time Since Last Arrival: 3
241 Arrival Time: 40
242 Service Time: 2
243 Time Server Begins: 41
244 Time Customer waits in Queue: 1
245 Time Service End: 43
246 Time Customer Spends in System: 3
247 Idle Time of Server: 0
248
    Random Digit for Service Time: 23
249 Random Digit for Arrival Time: 73
250 Service Name : ABLE
252 CID: 20
253 Time Since Last Arrival: 4
254 Arrival Time: 44
255 Service Time: 4
256
    Time Server Begins: 44
257
    Time Customer waits in Queue : 0
258
    Time Service End: 48
259 Time Customer Spends in System: 4
260 Idle Time of Server: 1
261 Random Digit for Service Time: 82
262
    Random Digit for Arrival Time: 93
263
    Service Name: ABLE
CID: 21
265
266 Time Since Last Arrival: 4
267 Arrival Time: 48
268 Service Time: 3
269 Time Server Begins: 48
270 Time Customer waits in Queue: 0
271 Time Service End: 51
272 Time Customer Spends in System: 3
273 Idle Time of Server: 0
274 Random Digit for Service Time: 38
275 Random Digit for Arrival Time: 95
276 Service Name: ABLE
278 CID: 22
279 Time Since Last Arrival: 1
280 Arrival Time: 49
281
    Service Time: 6
282
    Time Server Begins: 49
283
    Time Customer waits in Queue: 0
284
    Time Service End: 55
285
    Time Customer Spends in System: 6
286 Idle Time of Server: 8
287 Random Digit for Service Time: 85
288 Random Digit for Arrival Time: 20
289 Service Name: BACKER
292
    Time Since Last Arrival: 2
293 Arrival Time: 51
294 Service Time: 3
295 Time Server Begins: 51
```

```
Time Customer waits in Queue: 0
297
    Time Service End: 54
298 Time Customer Spends in System: 3
299 Idle Time of Server: 0
300 Random Digit for Service Time: 35
301 Random Digit for Arrival Time: 35
302 Service Name: ABLE
304 CID: 24
305
    Time Since Last Arrival: 2
306 Arrival Time: 53
307
    Service Time: 4
308
    Time Server Begins: 54
309
    Time Customer waits in Queue: 1
310 Time Service End: 58
311
    Time Customer Spends in System: 5
312 Idle Time of Server: 0
313 Random Digit for Service Time: 67
314 Random Digit for Arrival Time: 58
315
    Service Name: ABLE
316
    317
    CID: 25
318 Time Since Last Arrival: 1
319 Arrival Time: 54
320 Service Time: 3
    Time Server Begins: 55
321
322
    Time Customer waits in Queue: 1
323
    Time Service End: 58
324
    Time Customer Spends in System: 4
325
    Idle Time of Server: 0
326 Random Digit for Service Time: 7
327 Random Digit for Arrival Time: 20
328 Service Name: BACKER
330 CID: 26
331
    Time Since Last Arrival: 2
332
333
    Arrival Time: 56
    Service Time: 4
    Time Server Begins: 58
334
335
    Time Customer waits in Queue: 2
336
    Time Service End: 62
337
    Time Customer Spends in System: 6
338 Idle Time of Server: 0
339
    Random Digit for Service Time: 61
340
    Random Digit for Arrival Time: 64
341
    Service Name: ABLE
342
    343
    CID: 27
344
    Time Since Last Arrival: 2
345 Arrival Time: 58
346 Service Time: 3
347
    Time Server Begins: 58
348 Time Customer waits in Queue: 0
349
    Time Service End: 61
350
    Time Customer Spends in System: 3
351 Idle Time of Server: 0
352
    Random Digit for Service Time: 33
353
    Random Digit for Arrival Time: 58
354 Service Name: BACKER
```

```
356 CID: 28
357
    Time Since Last Arrival: 2
358 Arrival Time: 60
359 Service Time: 4
360 Time Server Begins: 61
361 Time Customer waits in Queue: 1
   Time Service End: 65
362
363
    Time Customer Spends in System: 5
364 Idle Time of Server: 0
365
    Random Digit for Service Time: 45
366
    Random Digit for Arrival Time: 38
367
    Service Name: BACKER
369 CID: 29
370 Time Since Last Arrival: 1
371 Arrival Time: 61
372 Service Time: 2
373 Time Server Begins: 62
374 Time Customer waits in Queue: 1
375
    Time Service End: 64
376
    Time Customer Spends in System: 3
377
   Idle Time of Server: 0
378 Random Digit for Service Time: 2
379 Random Digit for Arrival Time: 14
380 Service Name: ABLE
CID: 30
382
383
    Time Since Last Arrival: 4
384
    Arrival Time: 65
385
    Service Time: 2
386 Time Server Begins: 65
387 Time Customer waits in Oueue: 0
388 Time Service End: 67
389 Time Customer Spends in System: 2
390 Idle Time of Server: 1
391 Random Digit for Service Time: 20
392
    Random Digit for Arrival Time: 89
393 Service Name: ABLE
395 CID: 31
396 Time Since Last Arrival: 4
397 Arrival Time: 69
398 Service Time: 4
399
    Time Server Begins: 69
400
    Time Customer waits in Queue: 0
401
    Time Service End: 73
402
    Time Customer Spends in System: 4
403 Idle Time of Server: 2
404 Random Digit for Service Time: 64
405 Random Digit for Arrival Time: 98
406 Service Name: ABLE
408 CID: 32
   Time Since Last Arrival: 2
409
410 Arrival Time: 71
411 Service Time: 3
412 Time Server Begins: 71
413 Time Customer waits in Queue: 0
```

```
Time Service End: 74
415
    Time Customer Spends in System: 3
416 Idle Time of Server: 6
417 Random Digit for Service Time: 6
418 Random Digit for Arrival Time: 27
419 Service Name: BACKER
421 CID: 33
422
    Time Since Last Arrival: 4
423 Arrival Time: 75
424 Service Time: 5
425
    Time Server Begins: 75
426
    Time Customer waits in Queue: 0
427
    Time Service End: 80
428
    Time Customer Spends in System: 5
429 Idle Time of Server: 2
430 Random Digit for Service Time: 91
431 Random Digit for Arrival Time: 95
432 Service Name: ABLE
435
    Time Since Last Arrival: 2
436 Arrival Time: 77
437
    Service Time: 4
438 Time Server Begins: 77
439 Time Customer waits in Queue: 0
440 Time Service End: 81
    Time Customer Spends in System: 4
441
442
    Idle Time of Server: 3
443
    Random Digit for Service Time: 48
444 Random Digit for Arrival Time: 49
445 Service Name: BACKER
447 CID: 35
448 Time Since Last Arrival: 1
449 Arrival Time: 78
450
    Service Time: 3
451
    Time Server Begins: 80
452
    Time Customer waits in Queue: 2
453
    Time Service End: 83
454
    Time Customer Spends in System: 5
455 Idle Time of Server: 0
456
    Random Digit for Service Time: 48
457
    Random Digit for Arrival Time: 11
458
    Service Name: ABLE
459
    460
461
    Time Since Last Arrival: 3
462 Arrival Time: 81
463 Service Time: 3
464 Time Server Begins: 81
465 Time Customer waits in Queue: 0
466 Time Service End: 84
    Time Customer Spends in System: 3
467
468 Idle Time of Server: 0
469 Random Digit for Service Time: 11
470 Random Digit for Arrival Time: 74
471 Service Name: BACKER
```

```
CID: 37
473
474 Time Since Last Arrival: 2
475 Arrival Time: 83
476 Service Time: 2
477
    Time Server Begins: 83
478 Time Customer waits in Queue: 0
479 Time Service End: 85
480 Time Customer Spends in System: 2
481 Idle Time of Server: 0
482
    Random Digit for Service Time: 5
483
    Random Digit for Arrival Time: 46
484
    Service Name: ABLE
485
    CID: 38
486
487
    Time Since Last Arrival: 1
488 Arrival Time: 84
489 Service Time: 5
490 Time Server Begins: 84
491 Time Customer waits in Queue: 0
    Time Service End: 89
492
    Time Customer Spends in System : 5
493
494 Idle Time of Server: 0
495
    Random Digit for Service Time: 78
496 Random Digit for Arrival Time: 23
497 Service Name: BACKER
499 CID: 39
500 Time Since Last Arrival: 4
501 Arrival Time: 88
502
    Service Time: 3
    Time Server Begins: 88
503
504 Time Customer waits in Queue: 0
505 Time Service End: 91
506 Time Customer Spends in System: 3
507 Idle Time of Server: 3
508 Random Digit for Service Time: 33
    Random Digit for Arrival Time: 86
509
510 Service Name: ABLE
512 CID: 40
513 Time Since Last Arrival: 2
514 Arrival Time: 90
515
    Service Time: 4
516
    Time Server Begins: 90
517
    Time Customer waits in Queue: 0
518
    Time Service End: 94
519
    Time Customer Spends in System: 4
520 Idle Time of Server: 1
521 Random Digit for Service Time: 56
522
    Random Digit for Arrival Time: 32
523
    Service Name: BACKER
524
    525
    CID: 41
526
    Time Since Last Arrival: 2
527
    Arrival Time: 92
528 Service Time: 5
529 Time Server Begins: 92
530 Time Customer waits in Queue: 0
531 Time Service End: 97
```

```
Time Customer Spends in System: 5
    Idle Time of Server: 1
533
534
    Random Digit for Service Time: 84
535
    Random Digit for Arrival Time: 26
536 Service Name: ABLE
   537
538 CID: 42
539 Time Since Last Arrival: 2
540 Arrival Time: 94
541 Service Time: 5
542
    Time Server Begins: 94
543
    Time Customer waits in Queue: 0
544
    Time Service End: 99
545
    Time Customer Spends in System: 5
546 Idle Time of Server: 0
547
    Random Digit for Service Time: 62
548 Random Digit for Arrival Time: 59
549 Service Name: BACKER
551 CID: 43
552
    Time Since Last Arrival: 2
553
    Arrival Time: 96
554
    Service Time: 2
555
    Time Server Begins: 97
556
    Time Customer waits in Queue: 1
557
    Time Service End: 99
558
    Time Customer Spends in System: 3
559
    Idle Time of Server: 0
560
    Random Digit for Service Time: 11
561
    Random Digit for Arrival Time: 34
562
    Service Name: ABLE
564 CID: 44
565 Time Since Last Arrival: 1
566 Arrival Time: 97
567
    Service Time: 3
    Time Server Begins: 99
Time Customer waits in Queue: 2
568
569
570 Time Service End: 102
571 Time Customer Spends in System: 5
572 Idle Time of Server: 0
573
    Random Digit for Service Time: 55
574
    Random Digit for Arrival Time: 19
575
    Service Name: ABLE
576
    577
    CID: 45
578
    Time Since Last Arrival: 2
579 Arrival Time: 99
580 Service Time: 4
581 Time Server Begins: 99
582 Time Customer waits in Queue: 0
583
    Time Service End: 103
584
    Time Customer Spends in System: 4
585 Idle Time of Server: 0
586
    Random Digit for Service Time: 58
    Random Digit for Arrival Time: 48
587
588 Service Name: BACKER
590 CID: 46
```

```
591
    Time Since Last Arrival\,:\, 1
    Arrival Time: 100
592
593
    Service Time: 3
594
    Time Server Begins: 102
595
    Time Customer waits in Queue: 2
596
    Time Service End: 105
597
    Time Customer Spends in System: 5
598 Idle Time of Server: 0
599 Random Digit for Service Time: 44
600 Random Digit for Arrival Time: 20
601
    Service Name: ABLE
602
    CID: 47
603
604
    Time Since Last Arrival: 2
605 Arrival Time: 102
606
    Service Time: 3
607 Time Server Begins: 103
608 Time Customer waits in Queue: 1
609 Time Service End: 106
610 Time Customer Spends in System: 4
611 Idle Time of Server: 0
612 Random Digit for Service Time: 7
613
    Random Digit for Arrival Time: 49
614
    Service Name: BACKER
616 CID:48
617
    Time Since Last Arrival: 4
618 Arrival Time: 106
619
    Service Time: 2
620
    Time Server Begins: 106
621 Time Customer waits in Queue: 0
622
    Time Service End: 108
623 Time Customer Spends in System: 2
624 Idle Time of Server: 1
625 Random Digit for Service Time: 29
    Random Digit for Arrival Time: 86
626
627
    Service Name: ABLE
628
    629 CID: 49
630 Time Since Last Arrival: 4
631 Arrival Time: 110
632
    Service Time: 2
633
    Time Server Begins: 110
634
    Time Customer waits in Queue: 0
635
    Time Service End: 112
636
    Time Customer Spends in System: 2
    Idle Time of Server: 2
637
638
    Random Digit for Service Time: 26
639 Random Digit for Arrival Time: 93
640 Service Name: ABLE
CID: 50
642
    Time Since Last Arrival: 3
643
644 Arrival Time: 113
645
    Service Time: 2
646
    Time Server Begins: 113
647
    Time Customer waits in Queue: 0
648 Time Service End: 115
649 Time Customer Spends in System: 2
```

```
Idle Time of Server: 1
    Random Digit for Service Time: 4
651
    Random Digit for Arrival Time: 81
653
    Service Name: ABLE
654
    655 CID: 51
656
    Time Since Last Arrival: 1
657 Arrival Time: 114
658 Service Time: 4
659 Time Server Begins: 114
660
    Time Customer waits in Queue: 0
    Time Service End: 118
661
662
    Time Customer Spends in System: 4
    Idle Time of Server: 8
663
664 Random Digit for Service Time: 45
665
    Random Digit for Arrival Time: 13
666 Service Name: BACKER
668 CID: 52
    Time Since Last Arrival: 1
669
670 Arrival Time: 115
671 Service Time: 2
672
    Time Server Begins: 115
673
    Time Customer waits in Queue: 0
674
    Time Service End: 117
675
    Time Customer Spends in System: 2
676 Idle Time of Server: 0
677
    Random Digit for Service Time: 27
678
    Random Digit for Arrival Time: 25
679
    Service Name: ABLE
681 CID:53
682 Time Since Last Arrival: 3
683 Arrival Time: 118
684 Service Time: 2
685
    Time Server Begins: 118
    Time Customer waits in Queue: 0
686
    Time Service End: 120
687
688 Time Customer Spends in System: 2
689 Idle Time of Server: 1
690 Random Digit for Service Time: 6
691 Random Digit for Arrival Time: 74
692
    Service Name: ABLE
693
    694
    CID: 54
695
    Time Since Last Arrival: 3
696
    Arrival Time: 121
697
    Service Time: 4
698
   Time Server Begins: 121
699 Time Customer waits in Queue: 0
700 Time Service End: 125
701 Time Customer Spends in System: 4
702 Idle Time of Server: 1
703
    Random Digit for Service Time: 59
704 Random Digit for Arrival Time: 81
705
    Service Name: ABLE
707 CID: 55
708 Time Since Last Arrival: 1
```

```
709
    Arrival Time: 122
710 Service Time: 6
711 Time Server Begins: 122
712
    Time Customer waits in Queue: 0
713
    Time Service End: 128
714 Time Customer Spends in System: 6
715 Idle Time of Server: 4
716 Random Digit for Service Time: 88
717
    Random Digit for Arrival Time: 4
718 Service Name: BACKER
720 CID: 56
721 Time Since Last Arrival: 2
722 Arrival Time: 124
723 Service Time: 2
724
    Time Server Begins: 125
725 Time Customer waits in Queue: 1
726 Time Service End: 127
727 Time Customer Spends in System: 3
728 Idle Time of Server: 0
729 Random Digit for Service Time: 1
730 Random Digit for Arrival Time: 29
731
    Service Name: ABLE
732
    733 CID: 57
734
    Time Since Last Arrival: 1
735 Arrival Time: 125
736
    Service Time: 4
737
    Time Server Begins: 127
738
    Time Customer waits in Queue: 2
739
    Time Service End: 131
740 Time Customer Spends in System: 6
741 Idle Time of Server: 0
742 Random Digit for Service Time: 61
743 Random Digit for Arrival Time: 5
744 Service Name: ABLE
745
    746 CID:58
747
   Time Since Last Arrival: 2
748 Arrival Time: 127
749 Service Time: 6
750 Time Server Begins: 128
751 Time Customer waits in Queue: 1
752
    Time Service End: 134
    Time Customer Spends in System: 7
754
    Idle Time of Server: 0
755
    Random Digit for Service Time: 98
756
    Random Digit for Arrival Time: 33
757
    Service Name: BACKER
758
    759 CID: 59
760 Time Since Last Arrival: 2
761 Arrival Time: 129
762
    Service Time: 3
763
    Time Server Begins: 131
764
    Time Customer waits in Queue: 2
765
    Time Service End: 134
766 Time Customer Spends in System: 5
767 Idle Time of Server: 0
```

```
Random Digit for Service Time: 40
769 Random Digit for Arrival Time: 27
770 Service Name: ABLE
772 CID: 60
773 Time Since Last Arrival: 3
774 Arrival Time: 132
775 Service Time: 5
776 Time Server Begins: 134
777 Time Customer waits in Queue: 2
778 Time Service End: 139
779
    Time Customer Spends in System: 7
780 Idle Time of Server: 0
781 Random Digit for Service Time: 90
782 Random Digit for Arrival Time: 74
783 Service Name: ABLE
785 CID: 61
786 Time Since Last Arrival: 2
787 Arrival Time: 134
788 Service Time: 6
789 Time Server Begins: 134
790 Time Customer waits in Queue: 0
791 Time Service End: 140
792 Time Customer Spends in System: 6
793 Idle Time of Server: 0
794
    Random Digit for Service Time: 82
795
    Random Digit for Arrival Time: 43
796
    Service Name: BACKER
797
   798 CID: 62
799 Time Since Last Arrival: 2
800 Arrival Time: 136
801 Service Time: 5
802 Time Server Begins: 139
803 Time Customer waits in Queue: 3
    Time Service End: 144
Time Customer Spends in System: 8
804
805
806 Idle Time of Server: 0
807 Random Digit for Service Time: 84
808 Random Digit for Arrival Time: 61
809 Service Name: ABLE
811 CID: 63
    Time Since Last Arrival: 2
812
813
    Arrival Time: 138
    Service Time: 3
814
815
    Time Server Begins: 140
816 Time Customer waits in Queue: 2
817 Time Service End: 143
818 Time Customer Spends in System: 5
819 Idle Time of Server: 0
820 Random Digit for Service Time: 31
821 Random Digit for Arrival Time: 32
822
    Service Name: BACKER
824 CID: 64
825 Time Since Last Arrival: 1
826 Arrival Time: 139
```

```
827
    Service Time: 6
828
    Time Server Begins: 143
    Time Customer waits in Queue: 4
830
    Time Service End: 149
831
    Time Customer Spends in System: 10
832 Idle Time of Server: 0
833
    Random Digit for Service Time: 95
834
    Random Digit for Arrival Time: 9
835
    Service Name: BACKER
837
    CID: 65
838
    Time Since Last Arrival: 2
839 Arrival Time: 141
840
    Service Time: 4
841 Time Server Begins: 144
842
    Time Customer waits in Queue: 3
843
    Time Service End: 148
844
    Time Customer Spends in System: 7
845 Idle Time of Server: 0
    Random Digit for Service Time: 62
846
    Random Digit for Arrival Time: 39
847
848 Service Name: ABLE
849
    850 CID: 66
851
    Time Since Last Arrival: 1
852 Arrival Time: 142
853
    Service Time: 4
854
    Time Server Begins: 148
855
    Time Customer waits in Queue: 6
856
    Time Service End: 152
857
    Time Customer Spends in System: 10
858 Idle Time of Server: 0
859 Random Digit for Service Time: 59
860 Random Digit for Arrival Time: 4
861 Service Name: ABLE
862
    CID: 67
863
864
    Time Since Last Arrival: 2
865 Arrival Time: 144
866 Service Time: 5
867 Time Server Begins: 149
868 Time Customer waits in Queue: 5
869 Time Service End: 154
870 Time Customer Spends in System: 10
871
    Idle Time of Server: 0
872
    Random Digit for Service Time: 80
873
    Random Digit for Arrival Time: 63
874
    Service Name: BACKER
875
   876 CID: 68
877
    Time Since Last Arrival: 2
878 Arrival Time: 146
879
    Service Time: 2
880
    Time Server Begins: 152
881
    Time Customer waits in Queue: 6
882
    Time Service End: 154
883
    Time Customer Spends in System: 8
884 Idle Time of Server: 0
885 Random Digit for Service Time: 26
```

```
Random Digit for Arrival Time: 60
887
    Service Name: ABLE
888
    889 CID: 69
890 Time Since Last Arrival: 2
891 Arrival Time: 148
892
   Service Time: 3
893
    Time Server Begins: 154
894
    Time Customer waits in Queue: 6
895
    Time Service End: 157
896
    Time Customer Spends in System: 9
    Idle Time of Server: 0
897
898
    Random Digit for Service Time: 54
899 Random Digit for Arrival Time: 46
900 Service Name: ABLE
902 CID: 70
903 Time Since Last Arrival: 2
904 Arrival Time: 150
905
    Service Time: 6
906
    Time Server Begins: 154
907
    Time Customer waits in Queue: 4
908 Time Service End: 160
909 Time Customer Spends in System: 10
910 Idle Time of Server: 0
911 Random Digit for Service Time: 92
912
    Random Digit for Arrival Time: 52
913
    Service Name: BACKER
914
    CID: 71
915
916
    Time Since Last Arrival: 2
917 Arrival Time: 152
918 Service Time: 3
919 Time Server Begins: 157
920 Time Customer waits in Queue: 5
921 Time Service End: 160
922
    Time Customer Spends in System: 8
923
    Idle Time of Server: 0
924
    Random Digit for Service Time: 56
925 Random Digit for Arrival Time: 35
926 Service Name: ABLE
927
   928 CID: 72
929
    Time Since Last Arrival: 2
930 Arrival Time: 154
931
    Service Time: 2
932
    Time Server Begins: 160
933
    Time Customer waits in Queue: 6
934
    Time Service End: 162
935
    Time Customer Spends in System: 8
936 Idle Time of Server: 0
937
    Random Digit for Service Time: 11
938 Random Digit for Arrival Time: 58
939 Service Name: ABLE
941 CID: 73
942 Time Since Last Arrival: 3
943 Arrival Time: 157
944 Service Time: 5
```

```
Time Server Begins: 160
 946
     Time Customer waits in Queue: 3
     Time Service End: 165
 947
 948
     Time Customer Spends in System: 8
 949 Idle Time of Server: 0
 950 Random Digit for Service Time: 74
 951
     Random Digit for Arrival Time: 75
 952
     Service Name: BACKER
 953
     954 CID: 74
 955
     Time Since Last Arrival: 3
 956
     Arrival Time: 160
     Service Time: 4
 957
 958 Time Server Begins : 162
 959 Time Customer waits in Queue: 2
 960 Time Service End: 166
 961 Time Customer Spends in System: 6
 962 Idle Time of Server: 0
 963 Random Digit for Service Time: 64
 964 Random Digit for Arrival Time: 82
 965
    Service Name: ABLE
 967 CID: 75
 968 Time Since Last Arrival: 3
 969 Arrival Time: 163
 970 Service Time: 3
 971 Time Server Begins: 165
 972 Time Customer waits in Queue: 2
 973
     Time Service End: 168
 974
     Time Customer Spends in System: 5
 975 Idle Time of Server: 0
 976 Random Digit for Service Time: 30
 977 Random Digit for Arrival Time: 78
 978 Service Name: BACKER
 980 CID: 76
 981
     Time Since Last Arrival: 2
 982 Arrival Time : 165
 983
     Service Time: 4
 984 Time Server Begins: 166
 985 Time Customer waits in Queue: 1
 986 Time Service End: 170
 987
     Time Customer Spends in System: 5
 988 Idle Time of Server: 0
     Random Digit for Service Time: 62
 989
 990
     Random Digit for Arrival Time: 53
 991 Service Name: ABLE
 992
    993 CID: 77
 994 Time Since Last Arrival: 3
 995 Arrival Time: 168
 996 Service Time: 5
 997 Time Server Begins: 168
 998 Time Customer waits in Queue: 0
     Time Service End: 173
 999
1000 Time Customer Spends in System: 5
1001 Idle Time of Server: 0
1002 Random Digit for Service Time: 78
1003 Random Digit for Arrival Time: 71
```

```
Service Name: BACKER
1004
1005
     1006 CID: 78
1007 Time Since Last Arrival: 3
1008 Arrival Time: 171
1009 Service Time: 3
1010 Time Server Begins: 171
1011 Time Customer waits in Queue: 0
1012 Time Service End: 174
1013 Time Customer Spends in System: 3
1014 Idle Time of Server: 1
1015
     Random Digit for Service Time: 52
1016 Random Digit for Arrival Time: 70
1017 Service Name: ABLE
1019 CID: 79
1020 Time Since Last Arrival: 2
1021 Arrival Time: 173
1022 Service Time: 4
1023 Time Server Begins: 173
1024 Time Customer waits in Queue: 0
1025
     Time Service End: 177
1026 Time Customer Spends in System: 4
1027 Idle Time of Server: 0
1028 Random Digit for Service Time: 51
1029 Random Digit for Arrival Time: 27
1030 Service Name: BACKER
1032 CID: 80
    Time Since Last Arrival: 2
1033
1034 Arrival Time: 175
1035 Service Time: 4
1036 Time Server Begins: 175
1037 Time Customer waits in Queue: 0
1038 Time Service End: 179
1039 Time Customer Spends in System: 4
1040 Idle Time of Server: 1
1041 Random Digit for Service Time: 60
1042 Random Digit for Arrival Time: 29
1043 Service Name: ABLE
1045 CID: 81
1046 Time Since Last Arrival: 2
1047 Arrival Time: 177
1048 Service Time: 5
1049 Time Server Begins: 177
1050 Time Customer waits in Queue: 0
1051 Time Service End: 182
1052 Time Customer Spends in System: 5
1053 Idle Time of Server: 0
1054 Random Digit for Service Time: 64
1055 Random Digit for Arrival Time: 45
1056 Service Name: BACKER
1057
    1058 CID: 82
1059 Time Since Last Arrival: 4
1060 Arrival Time: 181
1061 Service Time: 3
1062 Time Server Begins: 181
```

```
Time Customer waits in Queue: 0
1063
1064
     Time Service End: 184
     Time Customer Spends in System: 3
1065
1066 Idle Time of Server: 2
     Random Digit for Service Time: 45
1067
1068 Random Digit for Arrival Time: 88
1069 Service Name: ABLE
1071 CID: 83
1072 Time Since Last Arrival: 1
1073 Arrival Time: 182
1074 Service Time: 5
1075
     Time Server Begins: 182
1076
     Time Customer waits in Queue: 0
1077
     Time Service End: 187
1078 Time Customer Spends in System: 5
1079 Idle Time of Server: 0
1080 Random Digit for Service Time: 71
1081 Random Digit for Arrival Time: 25
1082 Service Name: BACKER
1083
     1084 CID: 84
1085 Time Since Last Arrival: 2
1086 Arrival Time: 184
1087 Service Time: 2
1088 Time Server Begins: 184
1089 Time Customer waits in Queue: 0
1090 Time Service End: 186
1091
     Time Customer Spends in System: 2
1092 Idle Time of Server: 0
1093 Random Digit for Service Time: 5
1094 Random Digit for Arrival Time: 51
1095 Service Name: ABLE
1097 CID: 85
1098 Time Since Last Arrival: 3
1099 Arrival Time: 187
1100 Service Time: 4
1101 Time Server Begins: 187
1102 Time Customer waits in Queue: 0
1103 Time Service End: 191
1104 Time Customer Spends in System: 4
1105 Idle Time of Server: 1
1106 Random Digit for Service Time: 77
1107
     Random Digit for Arrival Time: 83
1108
     Service Name: ABLE
1110 CID: 86
1111 Time Since Last Arrival: 2
1112 Arrival Time : 189
1113 Service Time: 4
1114 Time Server Begins: 189
1115 Time Customer waits in Queue: 0
1116 Time Service End: 193
     Time Customer Spends in System: 4
1117
1118 Idle Time of Server: 2
1119 Random Digit for Service Time: 41
1120 Random Digit for Arrival Time: 39
1121 Service Name: BACKER
```

```
1122
     1123
     CID: 87
1124
     Time Since Last Arrival: 1
1125 Arrival Time: 190
1126 Service Time: 3
1127 Time Server Begins: 191
1128 Time Customer waits in Queue: 1
1129 Time Service End: 194
1130 Time Customer Spends in System: 4
1131 Idle Time of Server: 0
1132
     Random Digit for Service Time: 51
1133
     Random Digit for Arrival Time: 25
1134
     Service Name: ABLE
1135
    1136 CID: 88
1137 Time Since Last Arrival: 4
1138 Arrival Time : 194
1139 Service Time: 3
1140 Time Server Begins: 194
1141 Time Customer waits in Oueue: 0
     Time Service End: 197
1142
1143
     Time Customer Spends in System: 3
1144 Idle Time of Server: 0
1145 Random Digit for Service Time: 43
1146 Random Digit for Arrival Time: 99
1147 Service Name: ABLE
1149 CID: 89
1150 Time Since Last Arrival: 2
1151 Arrival Time: 196
1152
     Service Time: 4
1153 Time Server Begins: 196
1154 Time Customer waits in Oueue: 0
1155 Time Service End: 200
1156 Time Customer Spends in System: 4
1157 Idle Time of Server: 3
1158
     Random Digit for Service Time: 53
     Random Digit for Arrival Time: 65
1159
1160 Service Name: BACKER
1162 CID: 90
1163 Time Since Last Arrival: 1
1164 Arrival Time: 197
1165 Service Time: 5
1166
     Time Server Begins: 197
1167
     Time Customer waits in Queue: 0
1168
     Time Service End: 202
1169 Time Customer Spends in System: 5
1170 Idle Time of Server: 0
1171 Random Digit for Service Time: 85
1172 Random Digit for Arrival Time: 3
1173 Service Name: ABLE
1175 CID: 91
1176 Time Since Last Arrival: 3
    Arrival Time: 200
1177
1178 Service Time: 4
1179 Time Server Begins: 200
1180 Time Customer waits in Queue: 0
```

```
Time Service End: 204
1181
1182
     Time Customer Spends in System: 4
     Idle Time of Server: 0
1183
1184 Random Digit for Service Time: 36
1185 Random Digit for Arrival Time: 73
1186 Service Name: BACKER
1187
    1188 CID: 92
1189 Time Since Last Arrival: 1
1190 Arrival Time: 201
1191 Service Time: 3
     Time Server Begins: 202
1192
1193
     Time Customer waits in Queue: 1
1194
     Time Service End: 205
1195
     Time Customer Spends in System: 4
1196 Idle Time of Server: 0
1197 Random Digit for Service Time: 36
1198 Random Digit for Arrival Time: 11
1199 Service Name: ABLE
1201 CID: 93
     Time Since Last Arrival: 1
1202
1203
    Arrival Time: 202
1204 Service Time: 4
1205 Time Server Begins: 204
1206 Time Customer waits in Queue: 2
1207
     Time Service End: 208
1208 Time Customer Spends in System: 6
1209 Idle Time of Server: 0
1210 Random Digit for Service Time: 54
1211 Random Digit for Arrival Time: 24
1212 Service Name: BACKER
1214 CID: 94
1215 Time Since Last Arrival: 1
1216 Arrival Time: 203
1217
     Service Time: 4
1218
     Time Server Begins: 205
1219 Time Customer waits in Queue: 2
1220 Time Service End: 209
1221 Time Customer Spends in System: 6
1222 Idle Time of Server: 0
1223
     Random Digit for Service Time: 76
1224
     Random Digit for Arrival Time: 14
1225
     Service Name: ABLE
1226
     CID: 95
1227
1228 Time Since Last Arrival: 2
1229 Arrival Time: 205
1230 Service Time: 5
1231 Time Server Begins: 208
1232 Time Customer waits in Queue: 3
1233
     Time Service End: 213
     Time Customer Spends in System: 8
1234
     Idle Time of Server: 0
1235
1236 Random Digit for Service Time: 80
1237 Random Digit for Arrival Time: 35
1238 Service Name: BACKER
```

```
1240 CID: 96
1241
     Time Since Last Arrival: 1
1242 Arrival Time: 206
1243
     Service Time: 2
1244
     Time Server Begins: 209
1245 Time Customer waits in Queue: 3
1246 Time Service End: 211
1247 Time Customer Spends in System: 5
1248 Idle Time of Server: 0
1249 Random Digit for Service Time: 18
1250 Random Digit for Arrival Time: 2
1251 Service Name: ABLE
1253 CID: 97
1254 Time Since Last Arrival: 2
1255 Arrival Time: 208
1256 Service Time: 2
1257 Time Server Begins: 211
1258 Time Customer waits in Queue: 3
1259 Time Service End: 213
1260 Time Customer Spends in System: 5
1261 Idle Time of Server: 0
     Random Digit for Service Time: 5
1262
1263
     Random Digit for Arrival Time: 64
1264 Service Name: ABLE
1266 CID: 98
1267
     Time Since Last Arrival: 2
1268 Arrival Time: 210
1269
     Service Time: 4
1270 Time Server Begins: 213
1271 Time Customer waits in Queue: 3
1272 Time Service End: 217
1273 Time Customer Spends in System: 7
1274 Idle Time of Server: 0
1275 Random Digit for Service Time: 75
1276 Random Digit for Arrival Time: 39
1279 CID: 99
1280 Time Since Last Arrival: 3
1281 Arrival Time: 213
1282 Service Time: 5
1283
     Time Server Begins: 213
     Time Customer waits in Queue: 0
1284
1285
     Time Service End: 218
1286
     Time Customer Spends in System: 5
1287
     Idle Time of Server: 0
1288 Random Digit for Service Time: 77
1289 Random Digit for Arrival Time: 77
1290 Service Name: BACKER
1292 CID: 100
1293
     Time Since Last Arrival: 2
1294 Arrival Time: 215
1295 Service Time: 4
1296 Time Server Begins: 217
1297 Time Customer waits in Queue: 2
1298 Time Service End: 221
```

```
1299
      Time Customer Spends in System: 6
1300
     Idle Time of Server: 0
     Random Digit for Service Time: 67
1301
1302
     Random Digit for Arrival Time: 52
     Service Name: ABLE
1303
1304
     1305 ABLE CALCULATIONS:
1306 ABLE average waiting time for a customer: 1.2622950819672132
1307 ABLE probably that a customer has to wait in queue: 0.524590163934
1308 ABLE fraction of idle time of the server: 0.1085972850678733
1309 ABLE probably of the server being busy: 0.8914027149321266
     ABLE average service time: 3.2295081967213113
1310
1311
     ABLE expected value: 3.29
1312
     ABLE average time between arrivals: 3.58333333333333333
     ABLE discrete uniform distribution: 2.5
1313
1314
     ABLE average waiting time of those who wait: 2.40625
1315
     ABLE average time a customer spends in the system: 4.49180327868
1316 ABLE average time customer spends in the system: 4.4918032786885
1317
     The able customer: 61
1318
     The backer customer: 39
1319
      1320 BACKER CALCULATIONS:
1321
     BACKER average waiting time for a customer: 0.7948717948717948
1322
     BACKER probably that a customer has to wait in queue: 0.333333333
1323
      BACKER fraction of idle time of the server: 0.19724770642201836
1324
      BACKER probably of the server being busy: 0.8027522935779816
1325
     BACKER average service time: 4.384615384615385
BACKER expected value: 4.25
1326
1327
     BACKER average time between arrivals: 5.605263157894737
1328
     BACKER discrete uniform distribution: 2.5
1329
     BACKER average waiting time of those who wait: 2.384615384615384
1330
     BACKER average time a customer spends in the system: 5.179487179
1331
     BACKER average time customer spends in the system: 5.1794871794
1332
     The able customer: 61
1333
     The backer customer: 39
1334
     Excel written successfully...
1335
1336
     Process finished with exit code 0
1337
```