```
/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: 16
15 Random Digit for Arrival Time: 95
16 Service Name: ABLE
18 CID: 2
19 Time Since Last Arrival: 2
20 Arrival Time : 2
21 Service Time : 2
22 Time Server Begins: 2
23 Time Customer waits in Queue : 0 24 Time Service End : 4
25 Time Customer Spends in System: 2
26 Idle Time of Server: 0
27 Random Digit for Service Time: 15
28 Random Digit for Arrival Time: 47
29 Service Name: ABLE
31 CID: 3
32 Time Since Last Arrival: 2
33 Arrival Time: 4
34 Service Time: 5
35 Time Server Begins: 4
36 Time Customer waits in Queue: 0
37 Time Service End: 9
38 Time Customer Spends in System: 5
39 Idle Time of Server: 0
40 Random Digit for Service Time: 88
41 Random Digit for Arrival Time: 46
42 Service Name: ABLE
44 CID: 4
45
   Time Since Last Arrival: 4
46 Arrival Time: 8
47 Service Time: 6
48 Time Server Begins: 8
49 Time Customer waits in Queue: 0
50 Time Service End: 14
51 Time Customer Spends in System: 6
52 Idle Time of Server: 0
53 Random Digit for Service Time: 98
54 Random Digit for Arrival Time: 94
55 Service Name: BACKER
57 CID: 5
58 Time Since Last Arrival: 2
59 Arrival Time: 10
```

```
60
    Service Time: 5
    Time Server Begins: 10
 61
    Time Customer waits in Queue: 0
 63
    Time Service End: 15
    Time Customer Spends in System: 5
 64
 65 Idle Time of Server: 1
 66 Random Digit for Service Time: 86
 67 Random Digit for Arrival Time: 58
 68 Service Name: ABLE
 70 CID: 6
 71 Time Since Last Arrival: 4
 72 Arrival Time: 14
 73
    Service Time: 6
 74 Time Server Begins: 14
 75 Time Customer waits in Queue: 0
 76 Time Service End: 20
 77 Time Customer Spends in System: 6
 78 Idle Time of Server: 0
 79 Random Digit for Service Time: 89
 80 Random Digit for Arrival Time: 97
 81 Service Name: BACKER
    82
 83 CID: 7
 84 Time Since Last Arrival: 3
 85 Arrival Time: 17
    Service Time: 2
Time Server Begins: 17
 86
 87
 88
    Time Customer waits in Queue: 0
 89
    Time Service End: 19
 90 Time Customer Spends in System: 2
 91 Idle Time of Server: 2
 92 Random Digit for Service Time: 16
 93 Random Digit for Arrival Time: 75
 94 Service Name: ABLE
 96 CID: 8
 97
    Time Since Last Arrival: 2
 98 Arrival Time: 19
 99 Service Time: 3
100 Time Server Begins: 19
101 Time Customer waits in Queue: 0
102
    Time Service End: 22
103
    Time Customer Spends in System: 3
104 Idle Time of Server: 0
105
    Random Digit for Service Time: 54
106 Random Digit for Arrival Time: 37
109 CID: 9
110 Time Since Last Arrival: 3
111 Arrival Time: 22
112 Service Time: 2
113
    Time Server Begins: 22
114
    Time Customer waits in Queue: 0
115
    Time Service End: 24
116 Time Customer Spends in System: 2
117 Idle Time of Server: 0
118 Random Digit for Service Time: 15
```

```
Random Digit for Arrival Time: 68
120 Service Name: ABLE
122 CID: 10
123 Time Since Last Arrival: 2
124 Arrival Time: 24
125 Service Time: 2
126 Time Server Begins: 24
127 Time Customer waits in Queue: 0
128 Time Service End: 26
129 Time Customer Spends in System: 2
130 Idle Time of Server: 0
131 Random Digit for Service Time: 26
132 Random Digit for Arrival Time: 65
133 Service Name: ABLE
134
    135 CID: 11
136 Time Since Last Arrival: 2
137 Arrival Time: 26
138 Service Time: 5
139
    Time Server Begins: 26
140 Time Customer waits in Queue: 0
141
   Time Service End: 31
142 Time Customer Spends in System: 5
143 Idle Time of Server: 0
144 Random Digit for Service Time: 97
145
    Random Digit for Arrival Time: 34
146
    Service Name: ABLE
148
    CID: 12
149 Time Since Last Arrival: 1
150 Arrival Time: 27
151 Service Time: 5
152 Time Server Begins: 27
153 Time Customer waits in Queue: 0
154 Time Service End: 32
155
    Time Customer Spends in System: 5
156 Idle Time of Server: 7
157
   Random Digit for Service Time: 67
158 Random Digit for Arrival Time: 25
159 Service Name: BACKER
161 CID: 13
162
    Time Since Last Arrival: 3
    Arrival Time: 30
163
    Service Time: 3
164
165
    Time Server Begins: 31
166
    Time Customer waits in Queue: 1
    Time Service End: 34
167
168 Time Customer Spends in System: 4
169 Idle Time of Server: 0
170 Random Digit for Service Time: 46
171 Random Digit for Arrival Time: 73
172 Service Name: ABLE
173
    174 CID: 14
175 Time Since Last Arrival: 2
176 Arrival Time: 32
177 Service Time: 5
```

```
Time Server Begins: 32
    Time Customer waits in Queue: 0
179
180 Time Service End: 37
181 Time Customer Spends in System: 5
182 Idle Time of Server: 0
183 Random Digit for Service Time: 74
184 Random Digit for Arrival Time: 46
185
    Service Name: BACKER
187 CID: 15
188
    Time Since Last Arrival: 1
189 Arrival Time: 33
190
    Service Time: 2
191 Time Server Begins: 34
192
    Time Customer waits in Queue: 1
193
    Time Service End: 36
194 Time Customer Spends in System: 3
195 Idle Time of Server: 0
196 Random Digit for Service Time: 15
    Random Digit for Arrival Time: 12
197
198 Service Name: ABLE
200 CID: 16
201 Time Since Last Arrival: 1
202 Arrival Time: 34
203
    Service Time: 4
204
    Time Server Begins: 36
    Time Customer waits in Queue: 2
205
206
    Time Service End: 40
207
    Time Customer Spends in System: 6
208 Idle Time of Server: 0
209 Random Digit for Service Time: 63
210 Random Digit for Arrival Time: 5
211 Service Name: ABLE
213 CID: 17
214
    Time Since Last Arrival: 1
215 Arrival Time: 35
216 Service Time: 3
217 Time Server Begins: 37
218 Time Customer waits in Queue: 2
219 Time Service End: 40
220 Time Customer Spends in System: 5
221 Idle Time of Server: 0
222
    Random Digit for Service Time: 29
223
    Random Digit for Arrival Time: 20
224
    Service Name: BACKER
226
    CID: 18
227 Time Since Last Arrival: 2
228 Arrival Time: 37
229
    Service Time: 3
230 Time Server Begins: 40
231
    Time Customer waits in Queue: 3
232
    Time Service End: 43
233
    Time Customer Spends in System: 6
234 Idle Time of Server: 0
235
    Random Digit for Service Time: 42
236 Random Digit for Arrival Time: 40
```

```
Service Name: ABLE
238
    239 CID: 19
240 Time Since Last Arrival: 2
241 Arrival Time: 39
242 Service Time: 5
243 Time Server Begins: 40
244 Time Customer waits in Queue: 1
245 Time Service End: 45
246 Time Customer Spends in System: 6
247 Idle Time of Server: 0
248
    Random Digit for Service Time: 62
249 Random Digit for Arrival Time : 37250 Service Name : BACKER
252 CID: 20
253 Time Since Last Arrival: 2
254 Arrival Time: 41
255 Service Time: 5
256
    Time Server Begins: 43
257
    Time Customer waits in Queue : 2
258
    Time Service End: 48
259 Time Customer Spends in System: 7
260 Idle Time of Server: 0
261 Random Digit for Service Time: 94
262
    Random Digit for Arrival Time: 65
263
    Service Name: ABLE
266 Time Since Last Arrival: 1
267 Arrival Time: 42
268 Service Time: 4
269 Time Server Begins: 45
270 Time Customer waits in Queue: 3
271 Time Service End: 49
272 Time Customer Spends in System: 7
273 Idle Time of Server: 0
274 Random Digit for Service Time: 41
275 Random Digit for Arrival Time: 1
276 Service Name: BACKER
278 CID: 22
279 Time Since Last Arrival: 2
280 Arrival Time: 44
    Service Time: 2
281
282
    Time Server Begins: 48
283
    Time Customer waits in Queue: 4
284
    Time Service End: 50
285
    Time Customer Spends in System: 6
286 Idle Time of Server: 0
287 Random Digit for Service Time: 9
288 Random Digit for Arrival Time: 34
289 Service Name: ABLE
292
    Time Since Last Arrival: 2
293 Arrival Time: 46
294 Service Time: 3
295 Time Server Begins: 49
```

```
Time Customer waits in Queue: 3
297
    Time Service End: 52
298 Time Customer Spends in System: 6
299 Idle Time of Server: 0
300 Random Digit for Service Time: 22
301 Random Digit for Arrival Time: 40
302 Service Name: BACKER
304 CID: 24
305
    Time Since Last Arrival: 3
306 Arrival Time: 49
307
    Service Time: 3
308
    Time Server Begins: 50
309
    Time Customer waits in Queue: 1
310 Time Service End: 53
311
    Time Customer Spends in System: 4
312 Idle Time of Server: 0
313 Random Digit for Service Time: 46
314 Random Digit for Arrival Time: 73
315
    Service Name: ABLE
316
    317
    CID: 25
318 Time Since Last Arrival: 3
319 Arrival Time: 52
320 Service Time: 5
321
    Time Server Begins: 52
322
    Time Customer waits in Queue: 0
323
    Time Service End: 57
324
    Time Customer Spends in System: 5
325
    Idle Time of Server: 0
326 Random Digit for Service Time: 80
327 Random Digit for Arrival Time: 68
328 Service Name: BACKER
330 CID: 26
331
    Time Since Last Arrival: 2
332
333
    Arrival Time: 54
    Service Time: 4
    Time Server Begins: 54
334
335
    Time Customer waits in Queue: 0
336
    Time Service End: 58
337
    Time Customer Spends in System: 4
338 Idle Time of Server: 1
339
    Random Digit for Service Time: 83
340
    Random Digit for Arrival Time: 29
341
    Service Name: ABLE
342
    343
    CID: 27
344
    Time Since Last Arrival: 0
345 Arrival Time: 54
346 Service Time: 3
347
    Time Server Begins: 57
348 Time Customer waits in Queue: 3
349
    Time Service End: 60
350
    Time Customer Spends in System: 6
351 Idle Time of Server: 0
352
    Random Digit for Service Time: 2
353
    Random Digit for Arrival Time: 0
354 Service Name: BACKER
```

```
356 CID: 28
357
    Time Since Last Arrival: 2
358 Arrival Time: 56
359 Service Time: 2
360 Time Server Begins: 58
361 Time Customer waits in Queue: 2
    Time Service End: 60
362
363
    Time Customer Spends in System: 4
364 Idle Time of Server: 0
365
    Random Digit for Service Time: 7
366
    Random Digit for Arrival Time: 30
367
    Service Name: ABLE
369 CID: 29
370 Time Since Last Arrival: 1
371 Arrival Time: 57
372 Service Time: 2
373 Time Server Begins: 60
374 Time Customer waits in Queue: 3
375
    Time Service End: 62
376
    Time Customer Spends in System: 5
377
    Idle Time of Server: 0
378 Random Digit for Service Time: 12
379 Random Digit for Arrival Time: 12
380 Service Name: ABLE
CID: 30
382
383
    Time Since Last Arrival: 2
384
    Arrival Time: 59
385
    Service Time: 3
386 Time Server Begins: 60
387 Time Customer waits in Oueue: 1
388 Time Service End: 63
389 Time Customer Spends in System: 4
390 Idle Time of Server: 0
391 Random Digit for Service Time: 25
392
    Random Digit for Arrival Time: 26
393 Service Name: BACKER
395 CID: 31
396 Time Since Last Arrival: 2
397 Arrival Time: 61
398 Service Time: 4
399
    Time Server Begins: 62
400
    Time Customer waits in Queue: 1
401
    Time Service End: 66
402
    Time Customer Spends in System: 5
403 Idle Time of Server: 0
404 Random Digit for Service Time: 60
405 Random Digit for Arrival Time: 44
406 Service Name: ABLE
408 CID: 32
   Time Since Last Arrival: 1
409
410 Arrival Time: 62
411 Service Time: 3
412 Time Server Begins: 63
413 Time Customer waits in Queue: 1
```

```
Time Service End: 66
415
    Time Customer Spends in System: 4
416 Idle Time of Server: 0
417 Random Digit for Service Time: 17
418 Random Digit for Arrival Time: 10
419 Service Name: BACKER
421 CID: 33
422
    Time Since Last Arrival: 2
423 Arrival Time: 64
424 Service Time: 2
425
    Time Server Begins: 66
426
    Time Customer waits in Queue: 2
427
    Time Service End: 68
428
    Time Customer Spends in System: 4
429 Idle Time of Server: 0
430 Random Digit for Service Time: 15
431 Random Digit for Arrival Time: 48
432 Service Name: ABLE
435
    Time Since Last Arrival: 2
436
    Arrival Time: 66
437
    Service Time: 4
438 Time Server Begins: 66
439 Time Customer waits in Queue: 0
440 Time Service End: 70
    Time Customer Spends in System: 4
441
442
    Idle Time of Server: 0
443
    Random Digit for Service Time: 42
444 Random Digit for Arrival Time: 61
445 Service Name: BACKER
447 CID: 35
448 Time Since Last Arrival: 2
449 Arrival Time: 68
450
    Service Time: 3
451
    Time Server Begins: 68
452
    Time Customer waits in Queue: 0
453
    Time Service End: 71
454
    Time Customer Spends in System: 3
455
    Idle Time of Server: 0
456
    Random Digit for Service Time: 32
457
    Random Digit for Arrival Time: 54
458
    Service Name: ABLE
459
    460
461
    Time Since Last Arrival: 3
462 Arrival Time: 71
463 Service Time: 5
464 Time Server Begins: 71
465 Time Customer waits in Queue: 0
466 Time Service End: 76
    Time Customer Spends in System: 5
467
468 Idle Time of Server: 0
469 Random Digit for Service Time: 99
470 Random Digit for Arrival Time: 83
471 Service Name: ABLE
```

```
CID: 37
473
474 Time Since Last Arrival: 2
475 Arrival Time: 73
476 Service Time: 4
477
    Time Server Begins: 73
478 Time Customer waits in Queue: 0
479
    Time Service End: 77
480 Time Customer Spends in System: 4
481 Idle Time of Server: 3
482
    Random Digit for Service Time: 41
    Random Digit for Arrival Time: 57
483
484
    Service Name: BACKER
485
    CID: 38
486
487
    Time Since Last Arrival: 1
488 Arrival Time: 74
489 Service Time: 3
490 Time Server Begins: 76
491 Time Customer waits in Queue: 2
492
    Time Service End: 79
    Time Customer Spends in System : 5
493
494 Idle Time of Server: 0
495
    Random Digit for Service Time: 46
496 Random Digit for Arrival Time: 25
497 Service Name: ABLE
499 CID: 39
500 Time Since Last Arrival: 2
501 Arrival Time: 76
502
    Service Time: 5
    Time Server Begins: 77
503
504 Time Customer waits in Queue: 1
505 Time Service End: 82
506 Time Customer Spends in System: 6
507 Idle Time of Server: 0
508 Random Digit for Service Time: 70
509
    Random Digit for Arrival Time: 34
510 Service Name: BACKER
512 CID: 40
513 Time Since Last Arrival: 3
514 Arrival Time: 79
515
    Service Time: 4
516
    Time Server Begins: 79
517
    Time Customer waits in Queue: 0
518
    Time Service End: 83
519
    Time Customer Spends in System: 4
520 Idle Time of Server: 0
521 Random Digit for Service Time: 69
    Random Digit for Arrival Time: 74
522
523
    Service Name: ABLE
524
    525
    CID: 41
526
    Time Since Last Arrival: 3
527
    Arrival Time: 82
528 Service Time: 3
529 Time Server Begins: 82
530 Time Customer waits in Queue: 0
531 Time Service End: 85
```

```
Time Customer Spends in System: 3
    Idle Time of Server: 0
533
534
    Random Digit for Service Time: 17
535
    Random Digit for Arrival Time: 72
536 Service Name: BACKER
   537
538 CID: 42
539 Time Since Last Arrival: 1
540 Arrival Time: 83
541 Service Time: 5
542
    Time Server Begins: 83
543
    Time Customer waits in Queue: 0
544
    Time Service End: 88
545
    Time Customer Spends in System: 5
546
    Idle Time of Server: 0
547
    Random Digit for Service Time: 94
548 Random Digit for Arrival Time: 19
549 Service Name: ABLE
551 CID: 43
552
    Time Since Last Arrival: 4
553
    Arrival Time: 87
554
    Service Time: 6
555
    Time Server Begins: 87
556
    Time Customer waits in Queue: 0
557
    Time Service End: 93
558
    Time Customer Spends in System: 6
559
    Idle Time of Server: 2
560
    Random Digit for Service Time: 83
561
    Random Digit for Arrival Time: 90
562
    Service Name: BACKER
564 CID: 44
565 Time Since Last Arrival: 2
566 Arrival Time: 89
567
    Service Time: 2
    Time Server Begins: 89
Time Customer waits in Queue: 0
568
569
570 Time Service End: 91
571 Time Customer Spends in System: 2
572 Idle Time of Server: 1
573
    Random Digit for Service Time: 25
574
    Random Digit for Arrival Time: 50
575
    Service Name: ABLE
576
    577
    CID: 45
578
    Time Since Last Arrival: 1
579
    Arrival Time: 90
580 Service Time: 3
581 Time Server Begins: 91
582 Time Customer waits in Queue: 1
583
    Time Service End: 94
584
    Time Customer Spends in System: 4
585
    Idle Time of Server: 0
586
    Random Digit for Service Time: 48
    Random Digit for Arrival Time: 20
587
588 Service Name: ABLE
590 CID: 46
```

```
591
    Time Since Last Arrival\,:\, 1
592
    Arrival Time: 91
593
    Service Time: 5
594
    Time Server Begins: 93
595
    Time Customer waits in Queue: 2
596
    Time Service End: 98
597
    Time Customer Spends in System: 7
598 Idle Time of Server: 0
599 Random Digit for Service Time: 65
600 Random Digit for Arrival Time: 14
    Service Name: BACKER
601
602
    CID: 47
603
604
    Time Since Last Arrival: 2
605 Arrival Time: 93
606
    Service Time: 4
607 Time Server Begins: 94
608 Time Customer waits in Queue: 1
609 Time Service End: 98
610 Time Customer Spends in System: 5
611 Idle Time of Server: 0
612
    Random Digit for Service Time: 76
613
    Random Digit for Arrival Time: 49
614
    Service Name: ABLE
616 CID:48
617
    Time Since Last Arrival: 2
618 Arrival Time: 95
619
    Service Time: 2
620
    Time Server Begins: 98
621 Time Customer waits in Queue: 3
622
    Time Service End: 100
623 Time Customer Spends in System: 5
624 Idle Time of Server: 0
625 Random Digit for Service Time: 6
    Random Digit for Arrival Time: 60
626
627
    Service Name: ABLE
628
    629 CID: 49
630 Time Since Last Arrival: 4
631 Arrival Time: 99
632
    Service Time: 3
    Time Server Begins: 99
633
634
    Time Customer waits in Queue: 0
635
    Time Service End: 102
    Time Customer Spends in System: 3
636
637
    Idle Time of Server: 1
638
    Random Digit for Service Time: 17
639 Random Digit for Arrival Time: 91
640 Service Name: BACKER
CID: 50
642
    Time Since Last Arrival: 3
643
644 Arrival Time: 102
645
    Service Time: 4
    Time Server Begins: 102
646
647
    Time Customer waits in Queue: 0
648 Time Service End: 106
649 Time Customer Spends in System: 4
```

```
Idle Time of Server: 2
    Random Digit for Service Time: 63
651
    Random Digit for Arrival Time: 70
653
    Service Name: ABLE
654
    655 CID: 51
656
    Time Since Last Arrival: 1
657 Arrival Time: 103
658 Service Time: 3
659 Time Server Begins: 103
660
    Time Customer waits in Queue: 0
    Time Service End: 106
661
662
    Time Customer Spends in System: 3
    Idle Time of Server: 1
663
664 Random Digit for Service Time: 5
665 Random Digit for Arrival Time: 23
666 Service Name: BACKER
668 CID: 52
    Time Since Last Arrival: 2
669
670 Arrival Time: 105
671 Service Time: 4
672
    Time Server Begins: 106
673
    Time Customer waits in Queue: 1
674
    Time Service End: 110
675
    Time Customer Spends in System: 5
676 Idle Time of Server: 0
677
    Random Digit for Service Time: 61
678
    Random Digit for Arrival Time: 32
679
    Service Name: ABLE
681 CID:53
682 Time Since Last Arrival: 0
683 Arrival Time: 105
684 Service Time: 4
685
    Time Server Begins: 106
    Time Customer waits in Queue: 1
686
    Time Service End: 110
687
688 Time Customer Spends in System: 5
689 Idle Time of Server: 0
690 Random Digit for Service Time: 42
691 Random Digit for Arrival Time: 0
692
    Service Name: BACKER
693
    694
    CID: 54
695
    Time Since Last Arrival: 2
696
    Arrival Time: 107
697
    Service Time: 4
698
   Time Server Begins: 110
699 Time Customer waits in Queue: 3
700 Time Service End: 114
701 Time Customer Spends in System: 7
702 Idle Time of Server: 0
703
    Random Digit for Service Time: 63
704 Random Digit for Arrival Time: 26
705
    Service Name: ABLE
707 CID: 55
708 Time Since Last Arrival: 3
```

```
709
    Arrival Time: 110
710 Service Time: 5
711 Time Server Begins: 110
712
    Time Customer waits in Queue: 0
713
    Time Service End: 115
714 Time Customer Spends in System: 5
715 Idle Time of Server: 0
716 Random Digit for Service Time: 77
717
    Random Digit for Arrival Time: 80
718 Service Name: BACKER
720 CID: 56
721 Time Since Last Arrival: 2
722 Arrival Time: 112
723 Service Time: 3
724
    Time Server Begins: 114
725 Time Customer waits in Queue: 2
726 Time Service End: 117
727 Time Customer Spends in System: 5
728 Idle Time of Server: 0
729 Random Digit for Service Time: 49
730 Random Digit for Arrival Time: 45
731 Service Name: ABLE
732
    733 CID: 57
734
    Time Since Last Arrival: 1
735 Arrival Time: 113
736
    Service Time: 6
737
    Time Server Begins: 115
738
    Time Customer waits in Queue: 2
739 Time Service End: 121
740 Time Customer Spends in System: 8
741 Idle Time of Server: 0
742 Random Digit for Service Time: 96
743 Random Digit for Arrival Time: 16
744 Service Name: BACKER
745
    746 CID:58
   Time Since Last Arrival: 3
747
748 Arrival Time: 116
749 Service Time: 4
750 Time Server Begins: 117
751 Time Customer waits in Queue: 1
752
    Time Service End: 121
    Time Customer Spends in System: 5
754
    Idle Time of Server: 0
755
    Random Digit for Service Time: 82
756
    Random Digit for Arrival Time: 84
757
    Service Name: ABLE
758
    759 CID: 59
760 Time Since Last Arrival: 2
761 Arrival Time: 118
762
    Service Time: 4
763
    Time Server Begins: 121
764
    Time Customer waits in Queue: 3
765
    Time Service End: 125
766 Time Customer Spends in System: 7
767 Idle Time of Server: 0
```

```
Random Digit for Service Time: 63
769 Random Digit for Arrival Time: 49
770 Service Name: ABLE
772 CID: 60
773 Time Since Last Arrival: 4
774 Arrival Time: 122
775 Service Time: 3
776 Time Server Begins: 122
777 Time Customer waits in Queue: 0
778 Time Service End: 125
779
    Time Customer Spends in System: 3
780 Idle Time of Server: 1
781 Random Digit for Service Time: 6
782 Random Digit for Arrival Time: 97
783 Service Name: BACKER
785 CID: 61
786 Time Since Last Arrival: 1
787 Arrival Time: 123
788 Service Time: 3
789 Time Server Begins: 125
790 Time Customer waits in Queue: 2
791 Time Service End: 128
792 Time Customer Spends in System: 5
793 Idle Time of Server: 0
794
    Random Digit for Service Time: 37
795
    Random Digit for Arrival Time: 1
796
    Service Name: ABLE
797
   798 CID: 62
799 Time Since Last Arrival: 1
800 Arrival Time: 124
801 Service Time: 5
802 Time Server Begins: 125
803 Time Customer waits in Queue: 1
    Time Service End: 130
Time Customer Spends in System: 6
804
805
806 Idle Time of Server: 0
807 Random Digit for Service Time: 79
808 Random Digit for Arrival Time: 11
809 Service Name: BACKER
811 CID: 63
    Time Since Last Arrival: 2
812
813
    Arrival Time: 126
    Service Time: 4
814
815
    Time Server Begins: 128
816 Time Customer waits in Queue: 2
817 Time Service End: 132
818 Time Customer Spends in System: 6
819 Idle Time of Server: 0
820 Random Digit for Service Time: 74
821 Random Digit for Arrival Time: 64
822
    Service Name: ABLE
824 CID: 64
825 Time Since Last Arrival: 1
826 Arrival Time: 127
```

```
827
    Service Time: 3
828
    Time Server Begins: 130
    Time Customer waits in Queue: 3
830
    Time Service End: 133
831
    Time Customer Spends in System: 6
832 Idle Time of Server: 0
833
    Random Digit for Service Time: 11
834
    Random Digit for Arrival Time: 5
835
    Service Name: BACKER
837
    CID: 65
838
    Time Since Last Arrival: 4
839 Arrival Time: 131
840
    Service Time: 2
841 Time Server Begins: 132
842
    Time Customer waits in Queue: 1
843
    Time Service End: 134
844
    Time Customer Spends in System: 3
845 Idle Time of Server: 0
846
    Random Digit for Service Time: 30
    Random Digit for Arrival Time: 92
847
848 Service Name: ABLE
849
    850 CID: 66
851
    Time Since Last Arrival: 2
852 Arrival Time: 133
853
    Service Time: 3
854
    Time Server Begins: 133
855
    Time Customer waits in Queue: 0
856
    Time Service End: 136
857
    Time Customer Spends in System: 3
858 Idle Time of Server: 0
859 Random Digit for Service Time: 9
860 Random Digit for Arrival Time: 36
861 Service Name: BACKER
862
    CID: 67
863
864
    Time Since Last Arrival: 3
865 Arrival Time: 136
866 Service Time: 2
867 Time Server Begins: 136
868 Time Customer waits in Queue: 0
869 Time Service End: 138
870 Time Customer Spends in System: 2
871
    Idle Time of Server: 2
872
    Random Digit for Service Time: 7
873
    Random Digit for Arrival Time: 74
874
    Service Name: ABLE
875
   876 CID: 68
877
    Time Since Last Arrival: 1
878 Arrival Time: 137
879
    Service Time: 4
880
    Time Server Begins: 137
881
    Time Customer waits in Queue: 0
882
    Time Service End: 141
883
    Time Customer Spends in System: 4
884 Idle Time of Server: 1
885 Random Digit for Service Time: 37
```

```
Random Digit for Arrival Time: 4
887
    Service Name: BACKER
888
    889 CID: 69
890 Time Since Last Arrival: 2
891 Arrival Time: 139
892 Service Time: 2
893
   Time Server Begins: 139
894
    Time Customer waits in Queue: 0
895
    Time Service End: 141
896
    Time Customer Spends in System: 2
    Idle Time of Server: 1
897
898
    Random Digit for Service Time: 1
899 Random Digit for Arrival Time: 63
900 Service Name: ABLE
902 CID: 70
903 Time Since Last Arrival: 1
904 Arrival Time: 140
905
    Service Time: 4
906
    Time Server Begins: 141
907
    Time Customer waits in Queue: 1
908 Time Service End: 145
909 Time Customer Spends in System: 5
910 Idle Time of Server: 0
911 Random Digit for Service Time: 74
912
    Random Digit for Arrival Time: 22
913
    Service Name: ABLE
914
    CID: 71
915
916
    Time Since Last Arrival: 1
917 Arrival Time: 141
918 Service Time: 5
919 Time Server Begins: 141
920 Time Customer waits in Queue: 0
921 Time Service End: 146
922
    Time Customer Spends in System: 5
923
    Idle Time of Server: 0
924 Random Digit for Service Time: 79
925 Random Digit for Arrival Time: 8
926 Service Name: BACKER
927
   928 CID: 72
929
    Time Since Last Arrival: 2
930 Arrival Time: 143
931
    Service Time: 3
    Time Server Begins: 145
932
933
    Time Customer waits in Queue: 2
934
    Time Service End: 148
935
    Time Customer Spends in System: 5
936 Idle Time of Server: 0
937
    Random Digit for Service Time: 44
938 Random Digit for Arrival Time: 64
939 Service Name: ABLE
941 CID: 73
942 Time Since Last Arrival: 4
943 Arrival Time: 147
944 Service Time: 6
```

```
Time Server Begins: 147
 946
     Time Customer waits in Queue: 0
     Time Service End: 153
 947
 948
     Time Customer Spends in System: 6
 949 Idle Time of Server: 1
 950 Random Digit for Service Time: 89
 951
     Random Digit for Arrival Time: 97
 952
     Service Name: BACKER
 953
     954 CID: 74
 955
     Time Since Last Arrival: 2
 956
     Arrival Time: 149
 957
     Service Time: 4
 958 Time Server Begins: 149
 959 Time Customer waits in Queue: 0
 960 Time Service End: 153
 961 Time Customer Spends in System: 4
 962 Idle Time of Server: 1
 963 Random Digit for Service Time: 82
 964 Random Digit for Arrival Time: 40
 965 Service Name: ABLE
 967 CID: 75
 968 Time Since Last Arrival: 1
 969 Arrival Time: 150
 970 Service Time: 0
 971 Time Server Begins: 153
 972 Time Customer waits in Queue: 3
 973
     Time Service End: 153
 974
     Time Customer Spends in System: 3
 975 Idle Time of Server: 0
 976 Random Digit for Service Time: 0
 977 Random Digit for Arrival Time: 16
 978 Service Name: ABLE
 980 CID: 76
 981 Time Since Last Ar
982 Arrival Time: 151
     Time Since Last Arrival: 1
 983
     Service Time: 2
 984 Time Server Begins: 153
 985 Time Customer waits in Queue: 2
 986 Time Service End: 155
 987
     Time Customer Spends in System: 4
 988 Idle Time of Server: 0
     Random Digit for Service Time: 10
 989
 990
     Random Digit for Arrival Time: 13
 991 Service Name: ABLE
 992
     993 CID: 77
 994 Time Since Last Arrival: 1
 995 Arrival Time: 152
 996 Service Time: 4
 997 Time Server Begins: 153
 998 Time Customer waits in Queue: 1
     Time Service End: 157
 999
1000 Time Customer Spends in System: 5
1001 Idle Time of Server: 0
1002 Random Digit for Service Time: 53
1003 Random Digit for Arrival Time: 15
```

```
Service Name: BACKER
1004
1005
     1006 CID: 78
1007 Time Since Last Arrival : 2
1008 Arrival Time : 154
1009 Service Time: 4
1010 Time Server Begins: 155
1011 Time Customer waits in Queue: 1
1012 Time Service End: 159
1013 Time Customer Spends in System: 5
1014 Idle Time of Server: 0
1015
     Random Digit for Service Time: 59
1016 Random Digit for Arrival Time: 38
1017 Service Name: ABLE
1019 CID: 79
1020 Time Since Last Arrival: 4
1021 Arrival Time : 158
1022 Service Time: 6
1023 Time Server Begins: 158
1024 Time Customer waits in Queue: 0
1025
     Time Service End: 164
1026 Time Customer Spends in System: 6
1027 Idle Time of Server: 1
1028 Random Digit for Service Time: 97
1029 Random Digit for Arrival Time: 90
1030 Service Name: BACKER
1032 CID: 80
    Time Since Last Arrival: 1
1033
1034 Arrival Time: 159
1035 Service Time: 5
1036 Time Server Begins: 159
1037 Time Customer waits in Queue: 0
1038 Time Service End: 164
1039 Time Customer Spends in System: 5
1040 Idle Time of Server: 0
1041 Random Digit for Service Time: 86
1042 Random Digit for Arrival Time: 25
1043 Service Name: ABLE
1045 CID: 81
1046 Time Since Last Arrival: 2
1047 Arrival Time: 161
1048 Service Time: 5
1049 Time Server Begins: 164
1050 Time Customer waits in Queue: 3
1051 Time Service End: 169
1052 Time Customer Spends in System: 8
1053 Idle Time of Server: 0
1054 Random Digit for Service Time: 88
1055 Random Digit for Arrival Time: 59
1056 Service Name: ABLE
1058 CID: 82
1059 Time Since Last Arrival: 2
1060 Arrival Time: 163
1061 Service Time: 3
1062 Time Server Begins: 164
```

```
Time Customer waits in Queue: 1
1063
1064
     Time Service End: 167
     Time Customer Spends in System: 4
1065
1066 Idle Time of Server: 0
     Random Digit for Service Time: 5
1067
1068 Random Digit for Arrival Time: 51
1069 Service Name: BACKER
1071 CID: 83
1072 Time Since Last Arrival: 2
1073 Arrival Time: 165
1074 Service Time: 4
1075
     Time Server Begins: 167
1076
     Time Customer waits in Queue: 2
1077
     Time Service End: 171
1078 Time Customer Spends in System: 6
1079 Idle Time of Server: 0
1080 Random Digit for Service Time: 42
1081 Random Digit for Arrival Time: 59
1082 Service Name: BACKER
1083
     1084 CID: 84
1085
     Time Since Last Arrival: 2
1086 Arrival Time: 167
1087 Service Time: 3
1088 Time Server Begins: 169
1089 Time Customer waits in Queue: 2
1090 Time Service End: 172
1091
     Time Customer Spends in System: 5
1092 Idle Time of Server: 0
1093 Random Digit for Service Time: 47
1094 Random Digit for Arrival Time: 64
1095 Service Name: ABLE
1097 CID: 85
1098 Time Since Last Arrival: 1
1099 Arrival Time: 168
1100 Service Time: 3
1101 Time Server Begins: 171
1102 Time Customer waits in Queue: 3
1103 Time Service End: 174
1104 Time Customer Spends in System: 6
1105 Idle Time of Server: 0
1106 Random Digit for Service Time: 29
1107
     Random Digit for Arrival Time: 22
1108
     Service Name: BACKER
1110 CID: 86
1111 Time Since Last Arrival: 4
1112 Arrival Time : 172
1113 Service Time: 3
1114 Time Server Begins: 172
1115 Time Customer waits in Queue: 0
1116 Time Service End: 175
1117
     Time Customer Spends in System: 3
1118 Idle Time of Server: 0
1119 Random Digit for Service Time: 33
1120 Random Digit for Arrival Time: 97
1121 Service Name: ABLE
```

```
1122
     1123
     CID: 87
1124
     Time Since Last Arrival: 2
1125 Arrival Time: 174
1126 Service Time: 3
1127 Time Server Begins: 174
1128 Time Customer waits in Queue: 0
1129 Time Service End: 177
1130 Time Customer Spends in System: 3
1131 Idle Time of Server: 0
1132
     Random Digit for Service Time: 2
1133
     Random Digit for Arrival Time: 65
1134
     Service Name: BACKER
1135
    1136 CID: 88
1137 Time Since Last Arrival: 2
1138 Arrival Time : 176
1139 Service Time: 2
1140 Time Server Begins: 176
1141 Time Customer waits in Oueue: 0
     Time Service End: 178
1142
1143
     Time Customer Spends in System: 2
1144 Idle Time of Server: 1
1145 Random Digit for Service Time: 6
1146 Random Digit for Arrival Time: 49
1147 Service Name: ABLE
1149 CID: 89
1150 Time Since Last Arrival: 1
1151 Arrival Time: 177
1152
     Service Time: 6
1153 Time Server Begins: 177
1154 Time Customer waits in Oueue: 0
1155 Time Service End: 183
1156 Time Customer Spends in System: 6
1157 Idle Time of Server: 0
1158
     Random Digit for Service Time: 92
     Random Digit for Arrival Time: 23
1159
1160 Service Name: BACKER
1162 CID: 90
1163 Time Since Last Arrival: 2
1164 Arrival Time: 179
1165 Service Time: 2
1166
     Time Server Begins: 179
1167
     Time Customer waits in Queue: 0
1168
     Time Service End: 181
1169 Time Customer Spends in System: 2
1170 Idle Time of Server: 1
1171 Random Digit for Service Time: 12
1172 Random Digit for Arrival Time: 40
1173 Service Name: ABLE
1175 CID: 91
1176 Time Since Last Arrival: 2
    Arrival Time: 181
1177
1178 Service Time: 3
1179 Time Server Begins: 181
1180 Time Customer waits in Queue: 0
```

```
Time Service End: 184
1181
1182
     Time Customer Spends in System: 3
     Idle Time of Server: 0
1183
1184 Random Digit for Service Time: 55
1185 Random Digit for Arrival Time: 65
1186 Service Name: ABLE
1187
    1188 CID: 92
1189 Time Since Last Arrival: 2
1190 Arrival Time: 183
1191 Service Time: 3
     Time Server Begins: 183
1192
1193
     Time Customer waits in Queue: 0
1194
     Time Service End: 186
1195
     Time Customer Spends in System: 3
1196 Idle Time of Server: 0
1197 Random Digit for Service Time: 18
1198 Random Digit for Arrival Time: 52
1199 Service Name: BACKER
1201 CID: 93
     Time Since Last Arrival: 2
1202
1203
    Arrival Time: 185
1204 Service Time: 5
1205 Time Server Begins: 185
1206 Time Customer waits in Queue: 0
1207 Time Service End: 190
1208 Time Customer Spends in System: 5
1209 Idle Time of Server: 1
1210 Random Digit for Service Time: 97
1211 Random Digit for Arrival Time: 27
1212 Service Name: ABLE
1214 CID: 94
1215 Time Since Last Arrival: 3
1216 Arrival Time: 188
1217
     Service Time: 4
1218
     Time Server Begins: 188
1219 Time Customer waits in Queue: 0
1220 Time Service End: 192
1221 Time Customer Spends in System: 4
1222 Idle Time of Server: 2
1223
     Random Digit for Service Time: 58
1224
     Random Digit for Arrival Time: 69
1225
     Service Name: BACKER
1226
     CID: 95
1227
1228 Time Since Last Arrival: 3
1229 Arrival Time: 191
1230 Service Time: 5
1231 Time Server Begins: 191
1232 Time Customer waits in Queue: 0
1233
    Time Service End: 196
     Time Customer Spends in System: 5
1234
     Idle Time of Server: 1
1235
1236 Random Digit for Service Time: 87
1237 Random Digit for Arrival Time: 70
1238 Service Name: ABLE
```

```
1240 CID: 96
1241
     Time Since Last Arrival: 2
1242 Arrival Time: 193
1243
     Service Time: 3
1244
     Time Server Begins: 193
1245 Time Customer waits in Queue: 0
1246 Time Service End: 196
1247 Time Customer Spends in System: 3
1248 Idle Time of Server: 1
1249 Random Digit for Service Time: 15
1250 Random Digit for Arrival Time: 48
1251 Service Name: BACKER
1253 CID: 97
1254 Time Since Last Arrival: 4
1255 Arrival Time: 197
1256 Service Time: 5
1257 Time Server Begins: 197
1258 Time Customer waits in Queue: 0
1259 Time Service End: 202
1260 Time Customer Spends in System: 5
1261 Idle Time of Server: 1
1262
     Random Digit for Service Time: 89
1263
     Random Digit for Arrival Time: 90
1264 Service Name: ABLE
1266 CID: 98
1267
     Time Since Last Arrival: 2
1268 Arrival Time: 199
1269
     Service Time: 5
1270 Time Server Begins: 199
1271 Time Customer waits in Queue: 0
1272 Time Service End: 204
1273 Time Customer Spends in System: 5
1274 Idle Time of Server: 3
1275 Random Digit for Service Time: 64
1276 Random Digit for Arrival Time: 64
1279 CID: 99
1280 Time Since Last Arrival: 4
1281 Arrival Time: 203
1282 Service Time: 2
1283
     Time Server Begins: 203
     Time Customer waits in Queue: 0
1284
1285
     Time Service End: 205
1286
     Time Customer Spends in System: 2
1287
     Idle Time of Server: 1
1288 Random Digit for Service Time: 22
1289 Random Digit for Arrival Time: 87
1290 Service Name: ABLE
1292 CID: 100
1293
     Time Since Last Arrival: 4
1294 Arrival Time : 207
1295 Service Time: 2
1296 Time Server Begins: 207
1297 Time Customer waits in Queue: 0
1298 Time Service End: 209
```

```
1299
      Time Customer Spends in System: 2
1300
     Idle Time of Server: 2
     Random Digit for Service Time: 21
1301
1302
     Random Digit for Arrival Time: 89
     Service Name: ABLE
1303
1304
     1305 ABLE CALCULATIONS:
1306 ABLE average waiting time for a customer: 0.9830508474576272
1307 ABLE probably that a customer has to wait in queue: 0.50847457627
1308 ABLE fraction of idle time of the server: 0.090909090909091
1309 ABLE probably of the server being busy: 0.90909090909091
     ABLE average service time: 3.2203389830508473
1310
1311
     ABLE expected value: 3.29
1312
     ABLE average time between arrivals: 3.5689655172413794
1313
     ABLE discrete uniform distribution: 2.5
1314
     ABLE average waiting time of those who wait: 1.933333333333333333
1315
     ABLE average time a customer spends in the system: 4.20338983050
1316 ABLE average time customer spends in the system: 4.2033898305084
1317
     The able customer: 59
1318
     The backer customer: 41
1319
      1320 BACKER CALCULATIONS:
1321
     BACKER average waiting time for a customer: 0.7560975609756098
1322
     BACKER probably that a customer has to wait in queue : 0.414634146
1323
      BACKER fraction of idle time of the server: 0.11764705882352941
1324
      BACKER probably of the server being busy: 0.8823529411764706
     BACKER average service time: 4.195121951219512
BACKER expected value: 4.25
1325
1326
1327
     BACKER average time between arrivals: 4.975
1328
     BACKER discrete uniform distribution: 2.5
1329
     BACKER average waiting time of those who wait: 1.823529411764705
1330
     BACKER average time a customer spends in the system: 4.951219512
1331
     BACKER average time customer spends in the system: 4.95121951219
1332
     The able customer: 59
1333
     The backer customer: 41
1334
     Excel written successfully...
1335
1336
     Process finished with exit code 0
1337
```