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1 /Library/Java/JavaVirtualMachines/jdk-11.0.2.jdk/Contents/Home/bin/j
2 Please enter number of customers :
3 100
4 CID : 1
5 Time Since Last Arrival : 0
6 Arrival Time : 0
7 Service Time : 1
8 Time Server Begins : 0
9 Time Customer waits in Queue : 0
10 Time Service End : 1
11 Time Customer Spends in System : 1
12 Idle Time of Server : 0
13 Random Digit for Service Time : 5
14 Random Digit for Arrival Time : 547
15 ++++++
16 CID : 2
17 Time Since Last Arrival : 4
18 Arrival Time : 4
19 Service Time : 3
20 Time Server Begins : 4
21 Time Customer waits in Queue : 0
22 Time Service End : 7
23 Time Customer Spends in System : 3
24 Idle Time of Server : 3
25 Random Digit for Service Time : 43
26 Random Digit for Arrival Time : 434
27 ++++++
28 CID : 3
29 Time Since Last Arrival : 4
30 Arrival Time : 8
31 Service Time : 1
32 Time Server Begins : 8
33 Time Customer waits in Queue : 0
34 Time Service End : 9
35 Time Customer Spends in System : 1
36 Idle Time of Server : 1
37 Random Digit for Service Time : 3
38 Random Digit for Arrival Time : 384
39 ++++++
40 CID : 4
41 Time Since Last Arrival : 6
42 Arrival Time : 14
43 Service Time : 2
44 Time Server Begins : 14
45 Time Customer waits in Queue : 0
46 Time Service End : 16
47 Time Customer Spends in System : 2
48 Idle Time of Server : 5
49 Random Digit for Service Time : 16
50 Random Digit for Arrival Time : 685
51 ++++++
52 CID : 5
53 Time Since Last Arrival : 4
54 Arrival Time : 18
55 Service Time : 1
56 Time Server Begins : 18
57 Time Customer waits in Queue : 0
58 Time Service End : 19
59 Time Customer Spends in System : 1

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60 Idle Time of Server : 2
61 Random Digit for Service Time : 7
62 Random Digit for Arrival Time : 390
63 ++++++
64 CID : 6
65 Time Since Last Arrival : 7
66 Arrival Time : 25
67 Service Time : 1
68 Time Server Begins : 25
69 Time Customer waits in Queue : 0
70 Time Service End : 26
71 Time Customer Spends in System : 1
72 Idle Time of Server : 6
73 Random Digit for Service Time : 3
74 Random Digit for Arrival Time : 811
75 ++++++
76 CID : 7
77 Time Since Last Arrival : 1
78 Arrival Time : 26
79 Service Time : 3
80 Time Server Begins : 26
81 Time Customer waits in Queue : 0
82 Time Service End : 29
83 Time Customer Spends in System : 3
84 Idle Time of Server : 0
85 Random Digit for Service Time : 51
86 Random Digit for Arrival Time : 58
87 ++++++
88 CID : 8
89 Time Since Last Arrival : 6
90 Arrival Time : 32
91 Service Time : 4
92 Time Server Begins : 32
93 Time Customer waits in Queue : 0
94 Time Service End : 36
95 Time Customer Spends in System : 4
96 Idle Time of Server : 3
97 Random Digit for Service Time : 72
98 Random Digit for Arrival Time : 637
99 ++++++
100 CID : 9
101 Time Since Last Arrival : 2
102 Arrival Time : 34
103 Service Time : 0
104 Time Server Begins : 36
105 Time Customer waits in Queue : 2
106 Time Service End : 36
107 Time Customer Spends in System : 2
108 Idle Time of Server : 0
109 Random Digit for Service Time : 0
110 Random Digit for Arrival Time : 136
111 ++++++
112 CID : 10
113 Time Since Last Arrival : 1
114 Arrival Time : 35
115 Service Time : 4
116 Time Server Begins : 36
117 Time Customer waits in Queue : 1
118 Time Service End : 40
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119 Time Customer Spends in System : 5
120 Idle Time of Server : 0
121 Random Digit for Service Time : 80
122 Random Digit for Arrival Time : 71
123 ++++++
124 CID : 11
125 Time Since Last Arrival : 3
126 Arrival Time : 38
127 Service Time : 2
128 Time Server Begins : 40
129 Time Customer waits in Queue : 2
130 Time Service End : 42
131 Time Customer Spends in System : 4
132 Idle Time of Server : 0
133 Random Digit for Service Time : 21
134 Random Digit for Arrival Time : 350
135 ++++++
136 CID : 12
137 Time Since Last Arrival : 3
138 Arrival Time : 41
139 Service Time : 1
140 Time Server Begins : 42
141 Time Customer waits in Queue : 1
142 Time Service End : 43
143 Time Customer Spends in System : 2
144 Idle Time of Server : 0
145 Random Digit for Service Time : 2
146 Random Digit for Arrival Time : 323
147 ++++++
148 CID : 13
149 Time Since Last Arrival : 5
150 Arrival Time : 46
151 Service Time : 2
152 Time Server Begins : 46
153 Time Customer waits in Queue : 0
154 Time Service End : 48
155 Time Customer Spends in System : 2
156 Idle Time of Server : 3
157 Random Digit for Service Time : 23
158 Random Digit for Arrival Time : 549
159 ++++++
160 CID : 14
161 Time Since Last Arrival : 3
162 Arrival Time : 49
163 Service Time : 5
164 Time Server Begins : 49
165 Time Customer waits in Queue : 0
166 Time Service End : 54
167 Time Customer Spends in System : 5
168 Idle Time of Server : 1
169 Random Digit for Service Time : 86
170 Random Digit for Arrival Time : 282
171 ++++++
172 CID : 15
173 Time Since Last Arrival : 4
174 Arrival Time : 53
175 Service Time : 3
176 Time Server Begins : 54
177 Time Customer waits in Queue : 1
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178 Time Service End : 57
179 Time Customer Spends in System : 4
180 Idle Time of Server : 0
181 Random Digit for Service Time : 41
182 Random Digit for Arrival Time : 434
183 ++++++
184 CID : 16
185 Time Since Last Arrival : 4
186 Arrival Time : 57
187 Service Time : 5
188 Time Server Begins : 57
189 Time Customer waits in Queue : 0
190 Time Service End : 62
191 Time Customer Spends in System : 5
192 Idle Time of Server : 0
193 Random Digit for Service Time : 94
194 Random Digit for Arrival Time : 443
195 ++++++
196 CID : 17
197 Time Since Last Arrival : 3
198 Arrival Time : 60
199 Service Time : 4
200 Time Server Begins : 62
201 Time Customer waits in Queue : 2
202 Time Service End : 66
203 Time Customer Spends in System : 6
204 Idle Time of Server : 0
205 Random Digit for Service Time : 66
206 Random Digit for Arrival Time : 340
207 ++++++
208 CID : 18
209 Time Since Last Arrival : 6
210 Arrival Time : 66
211 Service Time : 4
212 Time Server Begins : 66
213 Time Customer waits in Queue : 0
214 Time Service End : 70
215 Time Customer Spends in System : 4
216 Idle Time of Server : 0
217 Random Digit for Service Time : 62
218 Random Digit for Arrival Time : 635
219 ++++++
220 CID : 19
221 Time Since Last Arrival : 4
222 Arrival Time : 70
223 Service Time : 4
224 Time Server Begins : 70
225 Time Customer waits in Queue : 0
226 Time Service End : 74
227 Time Customer Spends in System : 4
228 Idle Time of Server : 0
229 Random Digit for Service Time : 69
230 Random Digit for Arrival Time : 406
231 ++++++
232 CID : 20
233 Time Since Last Arrival : 5
234 Arrival Time : 75
235 Service Time : 5
236 Time Server Begins : 75
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237 Time Customer waits in Queue : 0
238 Time Service End : 80
239 Time Customer Spends in System : 5
240 Idle Time of Server : 1
241 Random Digit for Service Time : 91
242 Random Digit for Arrival Time : 616
243 ++++++
244 CID : 21
245 Time Since Last Arrival : 3
246 Arrival Time : 78
247 Service Time : 2
248 Time Server Begins : 80
249 Time Customer waits in Queue : 2
250 Time Service End : 82
251 Time Customer Spends in System : 4
252 Idle Time of Server : 0
253 Random Digit for Service Time : 12
254 Random Digit for Arrival Time : 259
255 ++++++
256 CID : 22
257 Time Since Last Arrival : 3
258 Arrival Time : 81
259 Service Time : 3
260 Time Server Begins : 82
261 Time Customer waits in Queue : 1
262 Time Service End : 85
263 Time Customer Spends in System : 4
264 Idle Time of Server : 0
265 Random Digit for Service Time : 32
266 Random Digit for Arrival Time : 270
267 ++++++
268 CID : 23
269 Time Since Last Arrival : 3
270 Arrival Time : 84
271 Service Time : 6
272 Time Server Begins : 85
273 Time Customer waits in Queue : 1
274 Time Service End : 91
275 Time Customer Spends in System : 7
276 Idle Time of Server : 0
277 Random Digit for Service Time : 97
278 Random Digit for Arrival Time : 294
279 ++++++
280 CID : 24
281 Time Since Last Arrival : 2
282 Arrival Time : 86
283 Service Time : 1
284 Time Server Begins : 91
285 Time Customer waits in Queue : 5
286 Time Service End : 92
287 Time Customer Spends in System : 6
288 Idle Time of Server : 0
289 Random Digit for Service Time : 8
290 Random Digit for Arrival Time : 185
291 ++++++
292 CID : 25
293 Time Since Last Arrival : 2
294 Arrival Time : 88
295 Service Time : 3
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296 Time Server Begins : 92
297 Time Customer waits in Queue : 4
298 Time Service End : 95
299 Time Customer Spends in System : 7
300 Idle Time of Server : 0
301 Random Digit for Service Time : 36
302 Random Digit for Arrival Time : 154
303 ++++++
304 CID : 26
305 Time Since Last Arrival : 3
306 Arrival Time : 91
307 Service Time : 3
308 Time Server Begins : 95
309 Time Customer waits in Queue : 4
310 Time Service End : 98
311 Time Customer Spends in System : 7
312 Idle Time of Server : 0
313 Random Digit for Service Time : 43
314 Random Digit for Arrival Time : 315
315 ++++++
316 CID : 27
317 Time Since Last Arrival : 7
318 Arrival Time : 98
319 Service Time : 1
320 Time Server Begins : 98
321 Time Customer waits in Queue : 0
322 Time Service End : 99
323 Time Customer Spends in System : 1
324 Idle Time of Server : 0
325 Random Digit for Service Time : 3
326 Random Digit for Arrival Time : 786
327 ++++++
328 CID : 28
329 Time Since Last Arrival : 5
330 Arrival Time : 103
331 Service Time : 3
332 Time Server Begins : 103
333 Time Customer waits in Queue : 0
334 Time Service End : 106
335 Time Customer Spends in System : 3
336 Idle Time of Server : 4
337 Random Digit for Service Time : 50
338 Random Digit for Arrival Time : 587
339 ++++++
340 CID : 29
341 Time Since Last Arrival : 3
342 Arrival Time : 106
343 Service Time : 5
344 Time Server Begins : 106
345 Time Customer waits in Queue : 0
346 Time Service End : 111
347 Time Customer Spends in System : 5
348 Idle Time of Server : 0
349 Random Digit for Service Time : 88
350 Random Digit for Arrival Time : 321
351 ++++++
352 CID : 30
353 Time Since Last Arrival : 2
354 Arrival Time : 108
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355 Service Time : 2
356 Time Server Begins : 111
357 Time Customer waits in Queue : 3
358 Time Service End : 113
359 Time Customer Spends in System : 5
360 Idle Time of Server : 0
361 Random Digit for Service Time : 25
362 Random Digit for Arrival Time : 150
363 ++++++
364 CID : 31
365 Time Since Last Arrival : 1
366 Arrival Time : 109
367 Service Time : 4
368 Time Server Begins : 113
369 Time Customer waits in Queue : 4
370 Time Service End : 117
371 Time Customer Spends in System : 8
372 Idle Time of Server : 0
373 Random Digit for Service Time : 79
374 Random Digit for Arrival Time : 84
375 ++++++
376 CID : 32
377 Time Since Last Arrival : 1
378 Arrival Time : 110
379 Service Time : 3
380 Time Server Begins : 117
381 Time Customer waits in Queue : 7
382 Time Service End : 120
383 Time Customer Spends in System : 10
384 Idle Time of Server : 0
385 Random Digit for Service Time : 46
386 Random Digit for Arrival Time : 64
387 ++++++
388 CID : 33
389 Time Since Last Arrival : 2
390 Arrival Time : 112
391 Service Time : 4
392 Time Server Begins : 120
393 Time Customer waits in Queue : 8
394 Time Service End : 124
395 Time Customer Spends in System : 12
396 Idle Time of Server : 0
397 Random Digit for Service Time : 76
398 Random Digit for Arrival Time : 169
399 ++++++
400 CID : 34
401 Time Since Last Arrival : 7
402 Arrival Time : 119
403 Service Time : 4
404 Time Server Begins : 124
405 Time Customer waits in Queue : 5
406 Time Service End : 128
407 Time Customer Spends in System : 9
408 Idle Time of Server : 0
409 Random Digit for Service Time : 69
410 Random Digit for Arrival Time : 861
411 ++++++
412 CID : 35
413 Time Since Last Arrival : 1
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414 Arrival Time : 120
415 Service Time : 1
416 Time Server Begins : 128
417 Time Customer waits in Queue : 8
418 Time Service End : 129
419 Time Customer Spends in System : 9
420 Idle Time of Server : 0
421 Random Digit for Service Time : 6
422 Random Digit for Arrival Time : 14
423 ++++++
424 CID : 36
425 Time Since Last Arrival : 1
426 Arrival Time : 121
427 Service Time : 3
428 Time Server Begins : 129
429 Time Customer waits in Queue : 8
430 Time Service End : 132
431 Time Customer Spends in System : 11
432 Idle Time of Server : 0
433 Random Digit for Service Time : 51
434 Random Digit for Arrival Time : 125
435 ++++++
436 CID : 37
437 Time Since Last Arrival : 4
438 Arrival Time : 125
439 Service Time : 4
440 Time Server Begins : 132
441 Time Customer waits in Queue : 7
442 Time Service End : 136
443 Time Customer Spends in System : 11
444 Idle Time of Server : 0
445 Random Digit for Service Time : 81
446 Random Digit for Arrival Time : 452
447 ++++++
448 CID : 38
449 Time Since Last Arrival : 2
450 Arrival Time : 127
451 Service Time : 4
452 Time Server Begins : 136
453 Time Customer waits in Queue : 9
454 Time Service End : 140
455 Time Customer Spends in System : 13
456 Idle Time of Server : 0
457 Random Digit for Service Time : 64
458 Random Digit for Arrival Time : 160
459 ++++++
460 CID : 39
461 Time Since Last Arrival : 6
462 Arrival Time : 133
463 Service Time : 1
464 Time Server Begins : 140
465 Time Customer waits in Queue : 7
466 Time Service End : 141
467 Time Customer Spends in System : 8
468 Idle Time of Server : 0
469 Random Digit for Service Time : 6
470 Random Digit for Arrival Time : 661
471 ++++++
472 CID : 40
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473 Time Since Last Arrival : 6
474 Arrival Time : 139
475 Service Time : 4
476 Time Server Begins : 141
477 Time Customer waits in Queue : 2
478 Time Service End : 145
479 Time Customer Spends in System : 6
480 Idle Time of Server : 0
481 Random Digit for Service Time : 61
482 Random Digit for Arrival Time : 705
483 ++++++
484 CID : 41
485 Time Since Last Arrival : 4
486 Arrival Time : 143
487 Service Time : 4
488 Time Server Begins : 145
489 Time Customer waits in Queue : 2
490 Time Service End : 149
491 Time Customer Spends in System : 6
492 Idle Time of Server : 0
493 Random Digit for Service Time : 83
494 Random Digit for Arrival Time : 379
495 ++++++
496 CID : 42
497 Time Since Last Arrival : 7
498 Arrival Time : 150
499 Service Time : 6
500 Time Server Begins : 150
501 Time Customer waits in Queue : 0
502 Time Service End : 156
503 Time Customer Spends in System : 6
504 Idle Time of Server : 1
505 Random Digit for Service Time : 98
506 Random Digit for Arrival Time : 770
507 ++++++
508 CID : 43
509 Time Since Last Arrival : 5
510 Arrival Time : 155
511 Service Time : 4
512 Time Server Begins : 156
513 Time Customer waits in Queue : 1
514 Time Service End : 160
515 Time Customer Spends in System : 5
516 Idle Time of Server : 0
517 Random Digit for Service Time : 73
518 Random Digit for Arrival Time : 542
519 ++++++
520 CID : 44
521 Time Since Last Arrival : 3
522 Arrival Time : 158
523 Service Time : 3
524 Time Server Begins : 160
525 Time Customer waits in Queue : 2
526 Time Service End : 163
527 Time Customer Spends in System : 5
528 Idle Time of Server : 0
529 Random Digit for Service Time : 33
530 Random Digit for Arrival Time : 273
531 ++++++
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532 CID : 45
533 Time Since Last Arrival : 5
534 Arrival Time : 163
535 Service Time : 3
536 Time Server Begins : 163
537 Time Customer waits in Queue : 0
538 Time Service End : 166
539 Time Customer Spends in System : 3
540 Idle Time of Server : 0
541 Random Digit for Service Time : 59
542 Random Digit for Arrival Time : 562
543 ++++++
544 CID : 46
545 Time Since Last Arrival : 3
546 Arrival Time : 166
547 Service Time : 4
548 Time Server Begins : 166
549 Time Customer waits in Queue : 0
550 Time Service End : 170
551 Time Customer Spends in System : 4
552 Idle Time of Server : 0
553 Random Digit for Service Time : 70
554 Random Digit for Arrival Time : 327
555 ++++++
556 CID : 47
557 Time Since Last Arrival : 7
558 Arrival Time : 173
559 Service Time : 2
560 Time Server Begins : 173
561 Time Customer waits in Queue : 0
562 Time Service End : 175
563 Time Customer Spends in System : 2
564 Idle Time of Server : 3
565 Random Digit for Service Time : 16
566 Random Digit for Arrival Time : 795
567 ++++++
568 CID : 48
569 Time Since Last Arrival : 6
570 Arrival Time : 179
571 Service Time : 2
572 Time Server Begins : 179
573 Time Customer waits in Queue : 0
574 Time Service End : 181
575 Time Customer Spends in System : 2
576 Idle Time of Server : 4
577 Random Digit for Service Time : 13
578 Random Digit for Arrival Time : 632
579 ++++++
580 CID : 49
581 Time Since Last Arrival : 3
582 Arrival Time : 182
583 Service Time : 3
584 Time Server Begins : 182
585 Time Customer waits in Queue : 0
586 Time Service End : 185
587 Time Customer Spends in System : 3
588 Idle Time of Server : 1
589 Random Digit for Service Time : 45
590 Random Digit for Arrival Time : 369
```

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591 ++++++
592 CID : 50
593 Time Since Last Arrival : 2
594 Arrival Time : 184
595 Service Time : 4
596 Time Server Begins : 185
597 Time Customer waits in Queue : 1
598 Time Service End : 189
599 Time Customer Spends in System : 5
600 Idle Time of Server : 0
601 Random Digit for Service Time : 63
602 Random Digit for Arrival Time : 166
603 ++++++
604 CID : 51
605 Time Since Last Arrival : 7
606 Arrival Time : 191
607 Service Time : 3
608 Time Server Begins : 191
609 Time Customer waits in Queue : 0
610 Time Service End : 194
611 Time Customer Spends in System : 3
612 Idle Time of Server : 2
613 Random Digit for Service Time : 54
614 Random Digit for Arrival Time : 833
615 ++++++
616 CID : 52
617 Time Since Last Arrival : 7
618 Arrival Time : 198
619 Service Time : 1
620 Time Server Begins : 198
621 Time Customer waits in Queue : 0
622 Time Service End : 199
623 Time Customer Spends in System : 1
624 Idle Time of Server : 4
625 Random Digit for Service Time : 8
626 Random Digit for Arrival Time : 780
627 ++++++
628 CID : 53
629 Time Since Last Arrival : 4
630 Arrival Time : 202
631 Service Time : 1
632 Time Server Begins : 202
633 Time Customer waits in Queue : 0
634 Time Service End : 203
635 Time Customer Spends in System : 1
636 Idle Time of Server : 3
637 Random Digit for Service Time : 2
638 Random Digit for Arrival Time : 466
639 ++++++
640 CID : 54
641 Time Since Last Arrival : 7
642 Arrival Time : 209
643 Service Time : 4
644 Time Server Begins : 209
645 Time Customer waits in Queue : 0
646 Time Service End : 213
647 Time Customer Spends in System : 4
648 Idle Time of Server : 6
649 Random Digit for Service Time : 62
```

```
650 Random Digit for Arrival Time : 757
651 ++++++
652 CID : 55
653 Time Since Last Arrival : 6
654 Arrival Time : 215
655 Service Time : 2
656 Time Server Begins : 215
657 Time Customer waits in Queue : 0
658 Time Service End : 217
659 Time Customer Spends in System : 2
660 Idle Time of Server : 2
661 Random Digit for Service Time : 20
662 Random Digit for Arrival Time : 729
663 ++++++
664 CID : 56
665 Time Since Last Arrival : 7
666 Arrival Time : 222
667 Service Time : 3
668 Time Server Begins : 222
669 Time Customer waits in Queue : 0
670 Time Service End : 225
671 Time Customer Spends in System : 3
672 Idle Time of Server : 5
673 Random Digit for Service Time : 51
674 Random Digit for Arrival Time : 804
675 ++++++
676 CID : 57
677 Time Since Last Arrival : 2
678 Arrival Time : 224
679 Service Time : 3
680 Time Server Begins : 225
681 Time Customer waits in Queue : 1
682 Time Service End : 228
683 Time Customer Spends in System : 4
684 Idle Time of Server : 0
685 Random Digit for Service Time : 50
686 Random Digit for Arrival Time : 217
687 ++++++
688 CID : 58
689 Time Since Last Arrival : 1
690 Arrival Time : 225
691 Service Time : 4
692 Time Server Begins : 228
693 Time Customer waits in Queue : 3
694 Time Service End : 232
695 Time Customer Spends in System : 7
696 Idle Time of Server : 0
697 Random Digit for Service Time : 66
698 Random Digit for Arrival Time : 59
699 ++++++
700 CID : 59
701 Time Since Last Arrival : 5
702 Arrival Time : 230
703 Service Time : 4
704 Time Server Begins : 232
705 Time Customer waits in Queue : 2
706 Time Service End : 236
707 Time Customer Spends in System : 6
708 Idle Time of Server : 0
```

```
709 Random Digit for Service Time : 64
710 Random Digit for Arrival Time : 514
711 ++++++
712 CID : 60
713 Time Since Last Arrival : 4
714 Arrival Time : 234
715 Service Time : 3
716 Time Server Begins : 236
717 Time Customer waits in Queue : 2
718 Time Service End : 239
719 Time Customer Spends in System : 5
720 Idle Time of Server : 0
721 Random Digit for Service Time : 47
722 Random Digit for Arrival Time : 461
723 ++++++
724 CID : 61
725 Time Since Last Arrival : 4
726 Arrival Time : 238
727 Service Time : 4
728 Time Server Begins : 239
729 Time Customer waits in Queue : 1
730 Time Service End : 243
731 Time Customer Spends in System : 5
732 Idle Time of Server : 0
733 Random Digit for Service Time : 67
734 Random Digit for Arrival Time : 453
735 ++++++
736 CID : 62
737 Time Since Last Arrival : 3
738 Arrival Time : 241
739 Service Time : 6
740 Time Server Begins : 243
741 Time Customer waits in Queue : 2
742 Time Service End : 249
743 Time Customer Spends in System : 8
744 Idle Time of Server : 0
745 Random Digit for Service Time : 98
746 Random Digit for Arrival Time : 296
747 ++++++
748 CID : 63
749 Time Since Last Arrival : 6
750 Arrival Time : 247
751 Service Time : 3
752 Time Server Begins : 249
753 Time Customer waits in Queue : 2
754 Time Service End : 252
755 Time Customer Spends in System : 5
756 Idle Time of Server : 0
757 Random Digit for Service Time : 53
758 Random Digit for Arrival Time : 728
759 ++++++
760 CID : 64
761 Time Since Last Arrival : 2
762 Arrival Time : 249
763 Service Time : 1
764 Time Server Begins : 252
765 Time Customer waits in Queue : 3
766 Time Service End : 253
767 Time Customer Spends in System : 4
```

```
768 Idle Time of Server : 0
769 Random Digit for Service Time : 8
770 Random Digit for Arrival Time : 212
771 ++++++
772 CID : 65
773 Time Since Last Arrival : 1
774 Arrival Time : 250
775 Service Time : 4
776 Time Server Begins : 253
777 Time Customer waits in Queue : 3
778 Time Service End : 257
779 Time Customer Spends in System : 7
780 Idle Time of Server : 0
781 Random Digit for Service Time : 62
782 Random Digit for Arrival Time : 98
783 ++++++
784 CID : 66
785 Time Since Last Arrival : 4
786 Arrival Time : 254
787 Service Time : 2
788 Time Server Begins : 257
789 Time Customer waits in Queue : 3
790 Time Service End : 259
791 Time Customer Spends in System : 5
792 Idle Time of Server : 0
793 Random Digit for Service Time : 17
794 Random Digit for Arrival Time : 449
795 ++++++
796 CID : 67
797 Time Since Last Arrival : 4
798 Arrival Time : 258
799 Service Time : 4
800 Time Server Begins : 259
801 Time Customer waits in Queue : 1
802 Time Service End : 263
803 Time Customer Spends in System : 5
804 Idle Time of Server : 0
805 Random Digit for Service Time : 70
806 Random Digit for Arrival Time : 483
807 ++++++
808 CID : 68
809 Time Since Last Arrival : 4
810 Arrival Time : 262
811 Service Time : 3
812 Time Server Begins : 263
813 Time Customer waits in Queue : 1
814 Time Service End : 266
815 Time Customer Spends in System : 4
816 Idle Time of Server : 0
817 Random Digit for Service Time : 43
818 Random Digit for Arrival Time : 413
819 ++++++
820 CID : 69
821 Time Since Last Arrival : 8
822 Arrival Time : 270
823 Service Time : 4
824 Time Server Begins : 270
825 Time Customer waits in Queue : 0
826 Time Service End : 274
```

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827 Time Customer Spends in System : 4
828 Idle Time of Server : 4
829 Random Digit for Service Time : 82
830 Random Digit for Arrival Time : 905
831 ++++++
832 CID : 70
833 Time Since Last Arrival : 6
834 Arrival Time : 276
835 Service Time : 2
836 Time Server Begins : 276
837 Time Customer waits in Queue : 0
838 Time Service End : 278
839 Time Customer Spends in System : 2
840 Idle Time of Server : 2
841 Random Digit for Service Time : 29
842 Random Digit for Arrival Time : 736
843 ++++++
844 CID : 71
845 Time Since Last Arrival : 2
846 Arrival Time : 278
847 Service Time : 3
848 Time Server Begins : 278
849 Time Customer waits in Queue : 0
850 Time Service End : 281
851 Time Customer Spends in System : 3
852 Idle Time of Server : 0
853 Random Digit for Service Time : 53
854 Random Digit for Arrival Time : 182
855 ++++++
856 CID : 72
857 Time Since Last Arrival : 4
858 Arrival Time : 282
859 Service Time : 2
860 Time Server Begins : 282
861 Time Customer waits in Queue : 0
862 Time Service End : 284
863 Time Customer Spends in System : 2
864 Idle Time of Server : 1
865 Random Digit for Service Time : 11
866 Random Digit for Arrival Time : 402
867 ++++++
868 CID : 73
869 Time Since Last Arrival : 1
870 Arrival Time : 283
871 Service Time : 5
872 Time Server Begins : 284
873 Time Customer waits in Queue : 1
874 Time Service End : 289
875 Time Customer Spends in System : 6
876 Idle Time of Server : 0
877 Random Digit for Service Time : 90
878 Random Digit for Arrival Time : 69
879 ++++++
880 CID : 74
881 Time Since Last Arrival : 6
882 Arrival Time : 289
883 Service Time : 4
884 Time Server Begins : 289
885 Time Customer waits in Queue : 0
```

```
886 Time Service End : 293
887 Time Customer Spends in System : 4
888 Idle Time of Server : 0
889 Random Digit for Service Time : 74
890 Random Digit for Arrival Time : 665
891 ++++++
892 CID : 75
893 Time Since Last Arrival : 7
894 Arrival Time : 296
895 Service Time : 4
896 Time Server Begins : 296
897 Time Customer waits in Queue : 0
898 Time Service End : 300
899 Time Customer Spends in System : 4
900 Idle Time of Server : 3
901 Random Digit for Service Time : 80
902 Random Digit for Arrival Time : 753
903 ++++++
904 CID : 76
905 Time Since Last Arrival : 6
906 Arrival Time : 302
907 Service Time : 3
908 Time Server Begins : 302
909 Time Customer waits in Queue : 0
910 Time Service End : 305
911 Time Customer Spends in System : 3
912 Idle Time of Server : 2
913 Random Digit for Service Time : 58
914 Random Digit for Arrival Time : 672
915 ++++++
916 CID : 77
917 Time Since Last Arrival : 7
918 Arrival Time : 309
919 Service Time : 3
920 Time Server Begins : 309
921 Time Customer waits in Queue : 0
922 Time Service End : 312
923 Time Customer Spends in System : 3
924 Idle Time of Server : 4
925 Random Digit for Service Time : 58
926 Random Digit for Arrival Time : 842
927 ++++++
928 CID : 78
929 Time Since Last Arrival : 7
930 Arrival Time : 316
931 Service Time : 2
932 Time Server Begins : 316
933 Time Customer waits in Queue : 0
934 Time Service End : 318
935 Time Customer Spends in System : 2
936 Idle Time of Server : 4
937 Random Digit for Service Time : 18
938 Random Digit for Arrival Time : 759
939 ++++++
940 CID : 79
941 Time Since Last Arrival : 5
942 Arrival Time : 321
943 Service Time : 4
944 Time Server Begins : 321
```



```
945 Time Customer waits in Queue : 0
946 Time Service End : 325
947 Time Customer Spends in System : 4
948 Idle Time of Server : 3
949 Random Digit for Service Time : 72
950 Random Digit for Arrival Time : 502
951 ++++++
952 CID : 80
953 Time Since Last Arrival : 1
954 Arrival Time : 322
955 Service Time : 1
956 Time Server Begins : 325
957 Time Customer waits in Queue : 3
958 Time Service End : 326
959 Time Customer Spends in System : 4
960 Idle Time of Server : 0
961 Random Digit for Service Time : 10
962 Random Digit for Arrival Time : 35
963 ++++++
964 CID : 81
965 Time Since Last Arrival : 3
966 Arrival Time : 325
967 Service Time : 1
968 Time Server Begins : 326
969 Time Customer waits in Queue : 1
970 Time Service End : 327
971 Time Customer Spends in System : 2
972 Idle Time of Server : 0
973 Random Digit for Service Time : 7
974 Random Digit for Arrival Time : 307
975 ++++++
976 CID : 82
977 Time Since Last Arrival : 8
978 Arrival Time : 333
979 Service Time : 2
980 Time Server Begins : 333
981 Time Customer waits in Queue : 0
982 Time Service End : 335
983 Time Customer Spends in System : 2
984 Idle Time of Server : 6
985 Random Digit for Service Time : 13
986 Random Digit for Arrival Time : 980
987 ++++++
988 CID : 83
989 Time Since Last Arrival : 6
990 Arrival Time : 339
991 Service Time : 6
992 Time Server Begins : 339
993 Time Customer waits in Queue : 0
994 Time Service End : 345
995 Time Customer Spends in System : 6
996 Idle Time of Server : 4
997 Random Digit for Service Time : 99
998 Random Digit for Arrival Time : 669
999 ++++++
1000 CID : 84
1001 Time Since Last Arrival : 4
1002 Arrival Time : 343
1003 Service Time : 3
```

```
1004 Time Server Begins : 345
1005 Time Customer waits in Queue : 2
1006 Time Service End : 348
1007 Time Customer Spends in System : 5
1008 Idle Time of Server : 0
1009 Random Digit for Service Time : 56
1010 Random Digit for Arrival Time : 442
1011 ++++++
1012 CID : 85
1013 Time Since Last Arrival : 2
1014 Arrival Time : 345
1015 Service Time : 4
1016 Time Server Begins : 348
1017 Time Customer waits in Queue : 3
1018 Time Service End : 352
1019 Time Customer Spends in System : 7
1020 Idle Time of Server : 0
1021 Random Digit for Service Time : 85
1022 Random Digit for Arrival Time : 240
1023 ++++++
1024 CID : 86
1025 Time Since Last Arrival : 7
1026 Arrival Time : 352
1027 Service Time : 6
1028 Time Server Begins : 352
1029 Time Customer waits in Queue : 0
1030 Time Service End : 358
1031 Time Customer Spends in System : 6
1032 Idle Time of Server : 0
1033 Random Digit for Service Time : 99
1034 Random Digit for Arrival Time : 839
1035 ++++++
1036 CID : 87
1037 Time Since Last Arrival : 8
1038 Arrival Time : 360
1039 Service Time : 5
1040 Time Server Begins : 360
1041 Time Customer waits in Queue : 0
1042 Time Service End : 365
1043 Time Customer Spends in System : 5
1044 Idle Time of Server : 2
1045 Random Digit for Service Time : 88
1046 Random Digit for Arrival Time : 884
1047 ++++++
1048 CID : 88
1049 Time Since Last Arrival : 8
1050 Arrival Time : 368
1051 Service Time : 4
1052 Time Server Begins : 368
1053 Time Customer waits in Queue : 0
1054 Time Service End : 372
1055 Time Customer Spends in System : 4
1056 Idle Time of Server : 3
1057 Random Digit for Service Time : 69
1058 Random Digit for Arrival Time : 941
1059 ++++++
1060 CID : 89
1061 Time Since Last Arrival : 1
1062 Arrival Time : 369
```

```
1063 Service Time : 3
1064 Time Server Begins : 372
1065 Time Customer waits in Queue : 3
1066 Time Service End : 375
1067 Time Customer Spends in System : 6
1068 Idle Time of Server : 0
1069 Random Digit for Service Time : 43
1070 Random Digit for Arrival Time : 51
1071 ++++++
1072 CID : 90
1073 Time Since Last Arrival : 7
1074 Arrival Time : 376
1075 Service Time : 4
1076 Time Server Begins : 376
1077 Time Customer waits in Queue : 0
1078 Time Service End : 380
1079 Time Customer Spends in System : 4
1080 Idle Time of Server : 1
1081 Random Digit for Service Time : 70
1082 Random Digit for Arrival Time : 768
1083 ++++++
1084 CID : 91
1085 Time Since Last Arrival : 3
1086 Arrival Time : 379
1087 Service Time : 2
1088 Time Server Begins : 380
1089 Time Customer waits in Queue : 1
1090 Time Service End : 382
1091 Time Customer Spends in System : 3
1092 Idle Time of Server : 0
1093 Random Digit for Service Time : 25
1094 Random Digit for Arrival Time : 287
1095 ++++++
1096 CID : 92
1097 Time Since Last Arrival : 5
1098 Arrival Time : 384
1099 Service Time : 3
1100 Time Server Begins : 384
1101 Time Customer waits in Queue : 0
1102 Time Service End : 387
1103 Time Customer Spends in System : 3
1104 Idle Time of Server : 2
1105 Random Digit for Service Time : 32
1106 Random Digit for Arrival Time : 523
1107 ++++++
1108 CID : 93
1109 Time Since Last Arrival : 2
1110 Arrival Time : 386
1111 Service Time : 5
1112 Time Server Begins : 387
1113 Time Customer waits in Queue : 1
1114 Time Service End : 392
1115 Time Customer Spends in System : 6
1116 Idle Time of Server : 0
1117 Random Digit for Service Time : 95
1118 Random Digit for Arrival Time : 157
1119 ++++++
1120 CID : 94
1121 Time Since Last Arrival : 1
```

```
1122 Arrival Time : 387
1123 Service Time : 4
1124 Time Server Begins : 392
1125 Time Customer waits in Queue : 5
1126 Time Service End : 396
1127 Time Customer Spends in System : 9
1128 Idle Time of Server : 0
1129 Random Digit for Service Time : 75
1130 Random Digit for Arrival Time : 103
1131 ++++++
1132 CID : 95
1133 Time Since Last Arrival : 4
1134 Arrival Time : 391
1135 Service Time : 4
1136 Time Server Begins : 396
1137 Time Customer waits in Queue : 5
1138 Time Service End : 400
1139 Time Customer Spends in System : 9
1140 Idle Time of Server : 0
1141 Random Digit for Service Time : 81
1142 Random Digit for Arrival Time : 376
1143 ++++++
1144 CID : 96
1145 Time Since Last Arrival : 6
1146 Arrival Time : 397
1147 Service Time : 3
1148 Time Server Begins : 400
1149 Time Customer waits in Queue : 3
1150 Time Service End : 403
1151 Time Customer Spends in System : 6
1152 Idle Time of Server : 0
1153 Random Digit for Service Time : 33
1154 Random Digit for Arrival Time : 712
1155 ++++++
1156 CID : 97
1157 Time Since Last Arrival : 7
1158 Arrival Time : 404
1159 Service Time : 2
1160 Time Server Begins : 404
1161 Time Customer waits in Queue : 0
1162 Time Service End : 406
1163 Time Customer Spends in System : 2
1164 Idle Time of Server : 1
1165 Random Digit for Service Time : 19
1166 Random Digit for Arrival Time : 802
1167 ++++++
1168 CID : 98
1169 Time Since Last Arrival : 3
1170 Arrival Time : 407
1171 Service Time : 3
1172 Time Server Begins : 407
1173 Time Customer waits in Queue : 0
1174 Time Service End : 410
1175 Time Customer Spends in System : 3
1176 Idle Time of Server : 1
1177 Random Digit for Service Time : 41
1178 Random Digit for Arrival Time : 299
1179 ++++++
1180 CID : 99
```

```
1181 Time Since Last Arrival : 4
1182 Arrival Time : 411
1183 Service Time : 2
1184 Time Server Begins : 411
1185 Time Customer waits in Queue : 0
1186 Time Service End : 413
1187 Time Customer Spends in System : 2
1188 Idle Time of Server : 1
1189 Random Digit for Service Time : 12
1190 Random Digit for Arrival Time : 395
1191 ++++++
1192 CID : 100
1193 Time Since Last Arrival : 2
1194 Arrival Time : 413
1195 Service Time : 2
1196 Time Server Begins : 413
1197 Time Customer waits in Queue : 0
1198 Time Service End : 415
1199 Time Customer Spends in System : 2
1200 Idle Time of Server : 0
1201 Random Digit for Service Time : 27
1202 Random Digit for Arrival Time : 195
1203 ++++++
1204 average waiting time for a customer : 1.52
1205 probably that a customer has to wait in queue : 0.5
1206 fraction of idle time of the server : 0.25060240963855424
1207 probably of the server being busy : 0.7493975903614458
1208 average service time : 3.11
1209 expected value : 3.2
1210 average time between arrivals : 4.171717171717172
1211 discrete uniform distribution : 4.5
1212 average waiting time of those who wait : 3.04
1213 average time a customer spends in the system : 4.63
1214 average time customer spends in the system : 4.63
1215 Excel written successfully..
1216
1217 Process finished with exit code 0
1218
```