

```
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 : 2
8 Time Server Begins : 0
9 Time Customer waits in Queue : 0
10 Time Service End : 2
11 Time Customer Spends in System : 2
12 Idle Time of Server : 0
13 Random Digit for Service Time : 19
14 Random Digit for Arrival Time : 149
15 ++++++
16 CID : 2
17 Time Since Last Arrival : 7
18 Arrival Time : 7
19 Service Time : 4
20 Time Server Begins : 7
21 Time Customer waits in Queue : 0
22 Time Service End : 11
23 Time Customer Spends in System : 4
24 Idle Time of Server : 5
25 Random Digit for Service Time : 75
26 Random Digit for Arrival Time : 837
27 ++++++
28 CID : 3
29 Time Since Last Arrival : 5
30 Arrival Time : 12
31 Service Time : 3
32 Time Server Begins : 12
33 Time Customer waits in Queue : 0
34 Time Service End : 15
35 Time Customer Spends in System : 3
36 Idle Time of Server : 1
37 Random Digit for Service Time : 42
38 Random Digit for Arrival Time : 542
39 ++++++
40 CID : 4
41 Time Since Last Arrival : 1
42 Arrival Time : 13
43 Service Time : 2
44 Time Server Begins : 15
45 Time Customer waits in Queue : 2
46 Time Service End : 17
47 Time Customer Spends in System : 4
48 Idle Time of Server : 0
49 Random Digit for Service Time : 15
50 Random Digit for Arrival Time : 86
51 ++++++
52 CID : 5
53 Time Since Last Arrival : 3
54 Arrival Time : 16
55 Service Time : 3
56 Time Server Begins : 17
57 Time Customer waits in Queue : 1
58 Time Service End : 20
59 Time Customer Spends in System : 4
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60 Idle Time of Server : 0
61 Random Digit for Service Time : 32
62 Random Digit for Arrival Time : 361
63 ++++++
64 CID : 6
65 Time Since Last Arrival : 2
66 Arrival Time : 18
67 Service Time : 2
68 Time Server Begins : 20
69 Time Customer waits in Queue : 2
70 Time Service End : 22
71 Time Customer Spends in System : 4
72 Idle Time of Server : 0
73 Random Digit for Service Time : 24
74 Random Digit for Arrival Time : 224
75 ++++++
76 CID : 7
77 Time Since Last Arrival : 3
78 Arrival Time : 21
79 Service Time : 3
80 Time Server Begins : 22
81 Time Customer waits in Queue : 1
82 Time Service End : 25
83 Time Customer Spends in System : 4
84 Idle Time of Server : 0
85 Random Digit for Service Time : 39
86 Random Digit for Arrival Time : 363
87 ++++++
88 CID : 8
89 Time Since Last Arrival : 8
90 Arrival Time : 29
91 Service Time : 3
92 Time Server Begins : 29
93 Time Customer waits in Queue : 0
94 Time Service End : 32
95 Time Customer Spends in System : 3
96 Idle Time of Server : 4
97 Random Digit for Service Time : 57
98 Random Digit for Arrival Time : 922
99 ++++++
100 CID : 9
101 Time Since Last Arrival : 4
102 Arrival Time : 33
103 Service Time : 4
104 Time Server Begins : 33
105 Time Customer waits in Queue : 0
106 Time Service End : 37
107 Time Customer Spends in System : 4
108 Idle Time of Server : 1
109 Random Digit for Service Time : 85
110 Random Digit for Arrival Time : 479
111 ++++++
112 CID : 10
113 Time Since Last Arrival : 4
114 Arrival Time : 37
115 Service Time : 3
116 Time Server Begins : 37
117 Time Customer waits in Queue : 0
118 Time Service End : 40
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119 Time Customer Spends in System : 3
120 Idle Time of Server : 0
121 Random Digit for Service Time : 36
122 Random Digit for Arrival Time : 438
123 ++++++
124 CID : 11
125 Time Since Last Arrival : 6
126 Arrival Time : 43
127 Service Time : 3
128 Time Server Begins : 43
129 Time Customer waits in Queue : 0
130 Time Service End : 46
131 Time Customer Spends in System : 3
132 Idle Time of Server : 3
133 Random Digit for Service Time : 48
134 Random Digit for Arrival Time : 692
135 ++++++
136 CID : 12
137 Time Since Last Arrival : 1
138 Arrival Time : 44
139 Service Time : 5
140 Time Server Begins : 46
141 Time Customer waits in Queue : 2
142 Time Service End : 51
143 Time Customer Spends in System : 7
144 Idle Time of Server : 0
145 Random Digit for Service Time : 91
146 Random Digit for Arrival Time : 115
147 ++++++
148 CID : 13
149 Time Since Last Arrival : 5
150 Arrival Time : 49
151 Service Time : 1
152 Time Server Begins : 51
153 Time Customer waits in Queue : 2
154 Time Service End : 52
155 Time Customer Spends in System : 3
156 Idle Time of Server : 0
157 Random Digit for Service Time : 1
158 Random Digit for Arrival Time : 617
159 ++++++
160 CID : 14
161 Time Since Last Arrival : 8
162 Arrival Time : 57
163 Service Time : 4
164 Time Server Begins : 57
165 Time Customer waits in Queue : 0
166 Time Service End : 61
167 Time Customer Spends in System : 4
168 Idle Time of Server : 5
169 Random Digit for Service Time : 68
170 Random Digit for Arrival Time : 889
171 ++++++
172 CID : 15
173 Time Since Last Arrival : 8
174 Arrival Time : 65
175 Service Time : 2
176 Time Server Begins : 65
177 Time Customer waits in Queue : 0
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178 Time Service End : 67
179 Time Customer Spends in System : 2
180 Idle Time of Server : 4
181 Random Digit for Service Time : 19
182 Random Digit for Arrival Time : 908
183 ++++++
184 CID : 16
185 Time Since Last Arrival : 5
186 Arrival Time : 70
187 Service Time : 3
188 Time Server Begins : 70
189 Time Customer waits in Queue : 0
190 Time Service End : 73
191 Time Customer Spends in System : 3
192 Idle Time of Server : 3
193 Random Digit for Service Time : 31
194 Random Digit for Arrival Time : 505
195 ++++++
196 CID : 17
197 Time Since Last Arrival : 7
198 Arrival Time : 77
199 Service Time : 3
200 Time Server Begins : 77
201 Time Customer waits in Queue : 0
202 Time Service End : 80
203 Time Customer Spends in System : 3
204 Idle Time of Server : 4
205 Random Digit for Service Time : 53
206 Random Digit for Arrival Time : 853
207 ++++++
208 CID : 18
209 Time Since Last Arrival : 2
210 Arrival Time : 79
211 Service Time : 3
212 Time Server Begins : 80
213 Time Customer waits in Queue : 1
214 Time Service End : 83
215 Time Customer Spends in System : 4
216 Idle Time of Server : 0
217 Random Digit for Service Time : 31
218 Random Digit for Arrival Time : 224
219 ++++++
220 CID : 19
221 Time Since Last Arrival : 3
222 Arrival Time : 82
223 Service Time : 4
224 Time Server Begins : 83
225 Time Customer waits in Queue : 1
226 Time Service End : 87
227 Time Customer Spends in System : 5
228 Idle Time of Server : 0
229 Random Digit for Service Time : 74
230 Random Digit for Arrival Time : 354
231 ++++++
232 CID : 20
233 Time Since Last Arrival : 5
234 Arrival Time : 87
235 Service Time : 4
236 Time Server Begins : 87
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237 Time Customer waits in Queue : 0
238 Time Service End : 91
239 Time Customer Spends in System : 4
240 Idle Time of Server : 0
241 Random Digit for Service Time : 69
242 Random Digit for Arrival Time : 567
243 ++++++
244 CID : 21
245 Time Since Last Arrival : 3
246 Arrival Time : 90
247 Service Time : 3
248 Time Server Begins : 91
249 Time Customer waits in Queue : 1
250 Time Service End : 94
251 Time Customer Spends in System : 4
252 Idle Time of Server : 0
253 Random Digit for Service Time : 40
254 Random Digit for Arrival Time : 360
255 ++++++
256 CID : 22
257 Time Since Last Arrival : 8
258 Arrival Time : 98
259 Service Time : 3
260 Time Server Begins : 98
261 Time Customer waits in Queue : 0
262 Time Service End : 101
263 Time Customer Spends in System : 3
264 Idle Time of Server : 4
265 Random Digit for Service Time : 33
266 Random Digit for Arrival Time : 949
267 ++++++
268 CID : 23
269 Time Since Last Arrival : 7
270 Arrival Time : 105
271 Service Time : 1
272 Time Server Begins : 105
273 Time Customer waits in Queue : 0
274 Time Service End : 106
275 Time Customer Spends in System : 1
276 Idle Time of Server : 4
277 Random Digit for Service Time : 4
278 Random Digit for Arrival Time : 759
279 ++++++
280 CID : 24
281 Time Since Last Arrival : 4
282 Arrival Time : 109
283 Service Time : 5
284 Time Server Begins : 109
285 Time Customer waits in Queue : 0
286 Time Service End : 114
287 Time Customer Spends in System : 5
288 Idle Time of Server : 3
289 Random Digit for Service Time : 91
290 Random Digit for Arrival Time : 382
291 ++++++
292 CID : 25
293 Time Since Last Arrival : 8
294 Arrival Time : 117
295 Service Time : 4
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296 Time Server Begins : 117
297 Time Customer waits in Queue : 0
298 Time Service End : 121
299 Time Customer Spends in System : 4
300 Idle Time of Server : 3
301 Random Digit for Service Time : 76
302 Random Digit for Arrival Time : 897
303 ++++++
304 CID : 26
305 Time Since Last Arrival : 2
306 Arrival Time : 119
307 Service Time : 4
308 Time Server Begins : 121
309 Time Customer waits in Queue : 2
310 Time Service End : 125
311 Time Customer Spends in System : 6
312 Idle Time of Server : 0
313 Random Digit for Service Time : 82
314 Random Digit for Arrival Time : 211
315 ++++++
316 CID : 27
317 Time Since Last Arrival : 2
318 Arrival Time : 121
319 Service Time : 2
320 Time Server Begins : 125
321 Time Customer waits in Queue : 4
322 Time Service End : 127
323 Time Customer Spends in System : 6
324 Idle Time of Server : 0
325 Random Digit for Service Time : 28
326 Random Digit for Arrival Time : 140
327 ++++++
328 CID : 28
329 Time Since Last Arrival : 4
330 Arrival Time : 125
331 Service Time : 5
332 Time Server Begins : 127
333 Time Customer waits in Queue : 2
334 Time Service End : 132
335 Time Customer Spends in System : 7
336 Idle Time of Server : 0
337 Random Digit for Service Time : 90
338 Random Digit for Arrival Time : 471
339 ++++++
340 CID : 29
341 Time Since Last Arrival : 4
342 Arrival Time : 129
343 Service Time : 3
344 Time Server Begins : 132
345 Time Customer waits in Queue : 3
346 Time Service End : 135
347 Time Customer Spends in System : 6
348 Idle Time of Server : 0
349 Random Digit for Service Time : 47
350 Random Digit for Arrival Time : 395
351 ++++++
352 CID : 30
353 Time Since Last Arrival : 2
354 Arrival Time : 131
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355 Service Time : 6
356 Time Server Begins : 135
357 Time Customer waits in Queue : 4
358 Time Service End : 141
359 Time Customer Spends in System : 10
360 Idle Time of Server : 0
361 Random Digit for Service Time : 99
362 Random Digit for Arrival Time : 209
363 ++++++
364 CID : 31
365 Time Since Last Arrival : 6
366 Arrival Time : 137
367 Service Time : 3
368 Time Server Begins : 141
369 Time Customer waits in Queue : 4
370 Time Service End : 144
371 Time Customer Spends in System : 7
372 Idle Time of Server : 0
373 Random Digit for Service Time : 53
374 Random Digit for Arrival Time : 689
375 ++++++
376 CID : 32
377 Time Since Last Arrival : 8
378 Arrival Time : 145
379 Service Time : 4
380 Time Server Begins : 145
381 Time Customer waits in Queue : 0
382 Time Service End : 149
383 Time Customer Spends in System : 4
384 Idle Time of Server : 1
385 Random Digit for Service Time : 84
386 Random Digit for Arrival Time : 883
387 ++++++
388 CID : 33
389 Time Since Last Arrival : 2
390 Arrival Time : 147
391 Service Time : 3
392 Time Server Begins : 149
393 Time Customer waits in Queue : 2
394 Time Service End : 152
395 Time Customer Spends in System : 5
396 Idle Time of Server : 0
397 Random Digit for Service Time : 50
398 Random Digit for Arrival Time : 245
399 ++++++
400 CID : 34
401 Time Since Last Arrival : 1
402 Arrival Time : 148
403 Service Time : 3
404 Time Server Begins : 152
405 Time Customer waits in Queue : 4
406 Time Service End : 155
407 Time Customer Spends in System : 7
408 Idle Time of Server : 0
409 Random Digit for Service Time : 36
410 Random Digit for Arrival Time : 112
411 ++++++
412 CID : 35
413 Time Since Last Arrival : 3
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414 Arrival Time : 151
415 Service Time : 3
416 Time Server Begins : 155
417 Time Customer waits in Queue : 4
418 Time Service End : 158
419 Time Customer Spends in System : 7
420 Idle Time of Server : 0
421 Random Digit for Service Time : 56
422 Random Digit for Arrival Time : 289
423 ++++++
424 CID : 36
425 Time Since Last Arrival : 6
426 Arrival Time : 157
427 Service Time : 3
428 Time Server Begins : 158
429 Time Customer waits in Queue : 1
430 Time Service End : 161
431 Time Customer Spends in System : 4
432 Idle Time of Server : 0
433 Random Digit for Service Time : 49
434 Random Digit for Arrival Time : 649
435 ++++++
436 CID : 37
437 Time Since Last Arrival : 1
438 Arrival Time : 158
439 Service Time : 5
440 Time Server Begins : 161
441 Time Customer waits in Queue : 3
442 Time Service End : 166
443 Time Customer Spends in System : 8
444 Idle Time of Server : 0
445 Random Digit for Service Time : 86
446 Random Digit for Arrival Time : 68
447 ++++++
448 CID : 38
449 Time Since Last Arrival : 6
450 Arrival Time : 164
451 Service Time : 4
452 Time Server Begins : 166
453 Time Customer waits in Queue : 2
454 Time Service End : 170
455 Time Customer Spends in System : 6
456 Idle Time of Server : 0
457 Random Digit for Service Time : 77
458 Random Digit for Arrival Time : 725
459 ++++++
460 CID : 39
461 Time Since Last Arrival : 7
462 Arrival Time : 171
463 Service Time : 2
464 Time Server Begins : 171
465 Time Customer waits in Queue : 0
466 Time Service End : 173
467 Time Customer Spends in System : 2
468 Idle Time of Server : 1
469 Random Digit for Service Time : 27
470 Random Digit for Arrival Time : 857
471 ++++++
472 CID : 40
```



```
473 Time Since Last Arrival : 3
474 Arrival Time : 174
475 Service Time : 5
476 Time Server Begins : 174
477 Time Customer waits in Queue : 0
478 Time Service End : 179
479 Time Customer Spends in System : 5
480 Idle Time of Server : 1
481 Random Digit for Service Time : 95
482 Random Digit for Arrival Time : 282
483 ++++++
484 CID : 41
485 Time Since Last Arrival : 2
486 Arrival Time : 176
487 Service Time : 3
488 Time Server Begins : 179
489 Time Customer waits in Queue : 3
490 Time Service End : 182
491 Time Customer Spends in System : 6
492 Idle Time of Server : 0
493 Random Digit for Service Time : 40
494 Random Digit for Arrival Time : 176
495 ++++++
496 CID : 42
497 Time Since Last Arrival : 3
498 Arrival Time : 179
499 Service Time : 4
500 Time Server Begins : 182
501 Time Customer waits in Queue : 3
502 Time Service End : 186
503 Time Customer Spends in System : 7
504 Idle Time of Server : 0
505 Random Digit for Service Time : 63
506 Random Digit for Arrival Time : 259
507 ++++++
508 CID : 43
509 Time Since Last Arrival : 8
510 Arrival Time : 187
511 Service Time : 4
512 Time Server Begins : 187
513 Time Customer waits in Queue : 0
514 Time Service End : 191
515 Time Customer Spends in System : 4
516 Idle Time of Server : 1
517 Random Digit for Service Time : 67
518 Random Digit for Arrival Time : 910
519 ++++++
520 CID : 44
521 Time Since Last Arrival : 8
522 Arrival Time : 195
523 Service Time : 1
524 Time Server Begins : 195
525 Time Customer waits in Queue : 0
526 Time Service End : 196
527 Time Customer Spends in System : 1
528 Idle Time of Server : 4
529 Random Digit for Service Time : 9
530 Random Digit for Arrival Time : 925
531 ++++++
```

```
532 CID : 45
533 Time Since Last Arrival : 7
534 Arrival Time : 202
535 Service Time : 3
536 Time Server Begins : 202
537 Time Customer waits in Queue : 0
538 Time Service End : 205
539 Time Customer Spends in System : 3
540 Idle Time of Server : 6
541 Random Digit for Service Time : 39
542 Random Digit for Arrival Time : 843
543 ++++++
544 CID : 46
545 Time Since Last Arrival : 5
546 Arrival Time : 207
547 Service Time : 1
548 Time Server Begins : 207
549 Time Customer waits in Queue : 0
550 Time Service End : 208
551 Time Customer Spends in System : 1
552 Idle Time of Server : 2
553 Random Digit for Service Time : 10
554 Random Digit for Arrival Time : 528
555 ++++++
556 CID : 47
557 Time Since Last Arrival : 1
558 Arrival Time : 208
559 Service Time : 1
560 Time Server Begins : 208
561 Time Customer waits in Queue : 0
562 Time Service End : 209
563 Time Customer Spends in System : 1
564 Idle Time of Server : 0
565 Random Digit for Service Time : 1
566 Random Digit for Arrival Time : 94
567 ++++++
568 CID : 48
569 Time Since Last Arrival : 7
570 Arrival Time : 215
571 Service Time : 4
572 Time Server Begins : 215
573 Time Customer waits in Queue : 0
574 Time Service End : 219
575 Time Customer Spends in System : 4
576 Idle Time of Server : 6
577 Random Digit for Service Time : 73
578 Random Digit for Arrival Time : 834
579 ++++++
580 CID : 49
581 Time Since Last Arrival : 4
582 Arrival Time : 219
583 Service Time : 4
584 Time Server Begins : 219
585 Time Customer waits in Queue : 0
586 Time Service End : 223
587 Time Customer Spends in System : 4
588 Idle Time of Server : 0
589 Random Digit for Service Time : 82
590 Random Digit for Arrival Time : 414
```

```
591 ++++++
592 CID : 50
593 Time Since Last Arrival : 5
594 Arrival Time : 224
595 Service Time : 5
596 Time Server Begins : 224
597 Time Customer waits in Queue : 0
598 Time Service End : 229
599 Time Customer Spends in System : 5
600 Idle Time of Server : 1
601 Random Digit for Service Time : 88
602 Random Digit for Arrival Time : 506
603 ++++++
604 CID : 51
605 Time Since Last Arrival : 8
606 Arrival Time : 232
607 Service Time : 3
608 Time Server Begins : 232
609 Time Customer waits in Queue : 0
610 Time Service End : 235
611 Time Customer Spends in System : 3
612 Idle Time of Server : 3
613 Random Digit for Service Time : 49
614 Random Digit for Arrival Time : 942
615 ++++++
616 CID : 52
617 Time Since Last Arrival : 6
618 Arrival Time : 238
619 Service Time : 5
620 Time Server Begins : 238
621 Time Customer waits in Queue : 0
622 Time Service End : 243
623 Time Customer Spends in System : 5
624 Idle Time of Server : 3
625 Random Digit for Service Time : 89
626 Random Digit for Arrival Time : 661
627 ++++++
628 CID : 53
629 Time Since Last Arrival : 1
630 Arrival Time : 239
631 Service Time : 3
632 Time Server Begins : 243
633 Time Customer waits in Queue : 4
634 Time Service End : 246
635 Time Customer Spends in System : 7
636 Idle Time of Server : 0
637 Random Digit for Service Time : 51
638 Random Digit for Arrival Time : 78
639 ++++++
640 CID : 54
641 Time Since Last Arrival : 6
642 Arrival Time : 245
643 Service Time : 4
644 Time Server Begins : 246
645 Time Customer waits in Queue : 1
646 Time Service End : 250
647 Time Customer Spends in System : 5
648 Idle Time of Server : 0
649 Random Digit for Service Time : 81
```

```
650 Random Digit for Arrival Time : 678
651 ++++++
652 CID : 55
653 Time Since Last Arrival : 1
654 Arrival Time : 246
655 Service Time : 3
656 Time Server Begins : 250
657 Time Customer waits in Queue : 4
658 Time Service End : 253
659 Time Customer Spends in System : 7
660 Idle Time of Server : 0
661 Random Digit for Service Time : 47
662 Random Digit for Arrival Time : 59
663 ++++++
664 CID : 56
665 Time Since Last Arrival : 4
666 Arrival Time : 250
667 Service Time : 4
668 Time Server Begins : 253
669 Time Customer waits in Queue : 3
670 Time Service End : 257
671 Time Customer Spends in System : 7
672 Idle Time of Server : 0
673 Random Digit for Service Time : 63
674 Random Digit for Arrival Time : 498
675 ++++++
676 CID : 57
677 Time Since Last Arrival : 1
678 Arrival Time : 251
679 Service Time : 5
680 Time Server Begins : 257
681 Time Customer waits in Queue : 6
682 Time Service End : 262
683 Time Customer Spends in System : 11
684 Idle Time of Server : 0
685 Random Digit for Service Time : 92
686 Random Digit for Arrival Time : 115
687 ++++++
688 CID : 58
689 Time Since Last Arrival : 5
690 Arrival Time : 256
691 Service Time : 5
692 Time Server Begins : 262
693 Time Customer waits in Queue : 6
694 Time Service End : 267
695 Time Customer Spends in System : 11
696 Idle Time of Server : 0
697 Random Digit for Service Time : 91
698 Random Digit for Arrival Time : 549
699 ++++++
700 CID : 59
701 Time Since Last Arrival : 4
702 Arrival Time : 260
703 Service Time : 6
704 Time Server Begins : 267
705 Time Customer waits in Queue : 7
706 Time Service End : 273
707 Time Customer Spends in System : 13
708 Idle Time of Server : 0
```

```
709 Random Digit for Service Time : 99
710 Random Digit for Arrival Time : 421
711 ++++++
712 CID : 60
713 Time Since Last Arrival : 2
714 Arrival Time : 262
715 Service Time : 4
716 Time Server Begins : 273
717 Time Customer waits in Queue : 11
718 Time Service End : 277
719 Time Customer Spends in System : 15
720 Idle Time of Server : 0
721 Random Digit for Service Time : 66
722 Random Digit for Arrival Time : 159
723 ++++++
724 CID : 61
725 Time Since Last Arrival : 7
726 Arrival Time : 269
727 Service Time : 4
728 Time Server Begins : 277
729 Time Customer waits in Queue : 8
730 Time Service End : 281
731 Time Customer Spends in System : 12
732 Idle Time of Server : 0
733 Random Digit for Service Time : 81
734 Random Digit for Arrival Time : 857
735 ++++++
736 CID : 62
737 Time Since Last Arrival : 2
738 Arrival Time : 271
739 Service Time : 3
740 Time Server Begins : 281
741 Time Customer waits in Queue : 10
742 Time Service End : 284
743 Time Customer Spends in System : 13
744 Idle Time of Server : 0
745 Random Digit for Service Time : 53
746 Random Digit for Arrival Time : 140
747 ++++++
748 CID : 63
749 Time Since Last Arrival : 4
750 Arrival Time : 275
751 Service Time : 4
752 Time Server Begins : 284
753 Time Customer waits in Queue : 9
754 Time Service End : 288
755 Time Customer Spends in System : 13
756 Idle Time of Server : 0
757 Random Digit for Service Time : 61
758 Random Digit for Arrival Time : 461
759 ++++++
760 CID : 64
761 Time Since Last Arrival : 2
762 Arrival Time : 277
763 Service Time : 3
764 Time Server Begins : 288
765 Time Customer waits in Queue : 11
766 Time Service End : 291
767 Time Customer Spends in System : 14
```

```
768 Idle Time of Server : 0
769 Random Digit for Service Time : 53
770 Random Digit for Arrival Time : 210
771 ++++++
772 CID : 65
773 Time Since Last Arrival : 7
774 Arrival Time : 284
775 Service Time : 4
776 Time Server Begins : 291
777 Time Customer waits in Queue : 7
778 Time Service End : 295
779 Time Customer Spends in System : 11
780 Idle Time of Server : 0
781 Random Digit for Service Time : 75
782 Random Digit for Arrival Time : 760
783 ++++++
784 CID : 66
785 Time Since Last Arrival : 2
786 Arrival Time : 286
787 Service Time : 1
788 Time Server Begins : 295
789 Time Customer waits in Queue : 9
790 Time Service End : 296
791 Time Customer Spends in System : 10
792 Idle Time of Server : 0
793 Random Digit for Service Time : 7
794 Random Digit for Arrival Time : 166
795 ++++++
796 CID : 67
797 Time Since Last Arrival : 4
798 Arrival Time : 290
799 Service Time : 2
800 Time Server Begins : 296
801 Time Customer waits in Queue : 6
802 Time Service End : 298
803 Time Customer Spends in System : 8
804 Idle Time of Server : 0
805 Random Digit for Service Time : 14
806 Random Digit for Arrival Time : 392
807 ++++++
808 CID : 68
809 Time Since Last Arrival : 8
810 Arrival Time : 298
811 Service Time : 4
812 Time Server Begins : 298
813 Time Customer waits in Queue : 0
814 Time Service End : 302
815 Time Customer Spends in System : 4
816 Idle Time of Server : 0
817 Random Digit for Service Time : 76
818 Random Digit for Arrival Time : 967
819 ++++++
820 CID : 69
821 Time Since Last Arrival : 1
822 Arrival Time : 299
823 Service Time : 3
824 Time Server Begins : 302
825 Time Customer waits in Queue : 3
826 Time Service End : 305
```

```
827 Time Customer Spends in System : 6
828 Idle Time of Server : 0
829 Random Digit for Service Time : 39
830 Random Digit for Arrival Time : 22
831 ++++++
832 CID : 70
833 Time Since Last Arrival : 7
834 Arrival Time : 306
835 Service Time : 3
836 Time Server Begins : 306
837 Time Customer waits in Queue : 0
838 Time Service End : 309
839 Time Customer Spends in System : 3
840 Idle Time of Server : 1
841 Random Digit for Service Time : 49
842 Random Digit for Arrival Time : 800
843 ++++++
844 CID : 71
845 Time Since Last Arrival : 6
846 Arrival Time : 312
847 Service Time : 4
848 Time Server Begins : 312
849 Time Customer waits in Queue : 0
850 Time Service End : 316
851 Time Customer Spends in System : 4
852 Idle Time of Server : 3
853 Random Digit for Service Time : 62
854 Random Digit for Arrival Time : 731
855 ++++++
856 CID : 72
857 Time Since Last Arrival : 8
858 Arrival Time : 320
859 Service Time : 3
860 Time Server Begins : 320
861 Time Customer waits in Queue : 0
862 Time Service End : 323
863 Time Customer Spends in System : 3
864 Idle Time of Server : 4
865 Random Digit for Service Time : 54
866 Random Digit for Arrival Time : 974
867 ++++++
868 CID : 73
869 Time Since Last Arrival : 6
870 Arrival Time : 326
871 Service Time : 3
872 Time Server Begins : 326
873 Time Customer waits in Queue : 0
874 Time Service End : 329
875 Time Customer Spends in System : 3
876 Idle Time of Server : 3
877 Random Digit for Service Time : 46
878 Random Digit for Arrival Time : 725
879 ++++++
880 CID : 74
881 Time Since Last Arrival : 7
882 Arrival Time : 333
883 Service Time : 4
884 Time Server Begins : 333
885 Time Customer waits in Queue : 0
```

```
886 Time Service End : 337
887 Time Customer Spends in System : 4
888 Idle Time of Server : 4
889 Random Digit for Service Time : 62
890 Random Digit for Arrival Time : 816
891 ++++++
892 CID : 75
893 Time Since Last Arrival : 8
894 Arrival Time : 341
895 Service Time : 3
896 Time Server Begins : 341
897 Time Customer waits in Queue : 0
898 Time Service End : 344
899 Time Customer Spends in System : 3
900 Idle Time of Server : 4
901 Random Digit for Service Time : 47
902 Random Digit for Arrival Time : 894
903 ++++++
904 CID : 76
905 Time Since Last Arrival : 3
906 Arrival Time : 344
907 Service Time : 5
908 Time Server Begins : 344
909 Time Customer waits in Queue : 0
910 Time Service End : 349
911 Time Customer Spends in System : 5
912 Idle Time of Server : 0
913 Random Digit for Service Time : 88
914 Random Digit for Arrival Time : 368
915 ++++++
916 CID : 77
917 Time Since Last Arrival : 2
918 Arrival Time : 346
919 Service Time : 3
920 Time Server Begins : 349
921 Time Customer waits in Queue : 3
922 Time Service End : 352
923 Time Customer Spends in System : 6
924 Idle Time of Server : 0
925 Random Digit for Service Time : 38
926 Random Digit for Arrival Time : 166
927 ++++++
928 CID : 78
929 Time Since Last Arrival : 4
930 Arrival Time : 350
931 Service Time : 4
932 Time Server Begins : 352
933 Time Customer waits in Queue : 2
934 Time Service End : 356
935 Time Customer Spends in System : 6
936 Idle Time of Server : 0
937 Random Digit for Service Time : 73
938 Random Digit for Arrival Time : 403
939 ++++++
940 CID : 79
941 Time Since Last Arrival : 1
942 Arrival Time : 351
943 Service Time : 4
944 Time Server Begins : 356
```



```
945 Time Customer waits in Queue : 5
946 Time Service End : 360
947 Time Customer Spends in System : 9
948 Idle Time of Server : 0
949 Random Digit for Service Time : 66
950 Random Digit for Arrival Time : 37
951 ++++++
952 CID : 80
953 Time Since Last Arrival : 5
954 Arrival Time : 356
955 Service Time : 2
956 Time Server Begins : 360
957 Time Customer waits in Queue : 4
958 Time Service End : 362
959 Time Customer Spends in System : 6
960 Idle Time of Server : 0
961 Random Digit for Service Time : 28
962 Random Digit for Arrival Time : 580
963 ++++++
964 CID : 81
965 Time Since Last Arrival : 6
966 Arrival Time : 362
967 Service Time : 3
968 Time Server Begins : 362
969 Time Customer waits in Queue : 0
970 Time Service End : 365
971 Time Customer Spends in System : 3
972 Idle Time of Server : 0
973 Random Digit for Service Time : 38
974 Random Digit for Arrival Time : 708
975 ++++++
976 CID : 82
977 Time Since Last Arrival : 2
978 Arrival Time : 364
979 Service Time : 4
980 Time Server Begins : 365
981 Time Customer waits in Queue : 1
982 Time Service End : 369
983 Time Customer Spends in System : 5
984 Idle Time of Server : 0
985 Random Digit for Service Time : 82
986 Random Digit for Arrival Time : 162
987 ++++++
988 CID : 83
989 Time Since Last Arrival : 7
990 Arrival Time : 371
991 Service Time : 4
992 Time Server Begins : 371
993 Time Customer waits in Queue : 0
994 Time Service End : 375
995 Time Customer Spends in System : 4
996 Idle Time of Server : 2
997 Random Digit for Service Time : 70
998 Random Digit for Arrival Time : 849
999 ++++++
1000 CID : 84
1001 Time Since Last Arrival : 3
1002 Arrival Time : 374
1003 Service Time : 2
```

```
1004 Time Server Begins : 375
1005 Time Customer waits in Queue : 1
1006 Time Service End : 377
1007 Time Customer Spends in System : 3
1008 Idle Time of Server : 0
1009 Random Digit for Service Time : 27
1010 Random Digit for Arrival Time : 322
1011 ++++++
1012 CID : 85
1013 Time Since Last Arrival : 6
1014 Arrival Time : 380
1015 Service Time : 2
1016 Time Server Begins : 380
1017 Time Customer waits in Queue : 0
1018 Time Service End : 382
1019 Time Customer Spends in System : 2
1020 Idle Time of Server : 3
1021 Random Digit for Service Time : 12
1022 Random Digit for Arrival Time : 702
1023 ++++++
1024 CID : 86
1025 Time Since Last Arrival : 5
1026 Arrival Time : 385
1027 Service Time : 3
1028 Time Server Begins : 385
1029 Time Customer waits in Queue : 0
1030 Time Service End : 388
1031 Time Customer Spends in System : 3
1032 Idle Time of Server : 3
1033 Random Digit for Service Time : 59
1034 Random Digit for Arrival Time : 608
1035 ++++++
1036 CID : 87
1037 Time Since Last Arrival : 3
1038 Arrival Time : 388
1039 Service Time : 2
1040 Time Server Begins : 388
1041 Time Customer waits in Queue : 0
1042 Time Service End : 390
1043 Time Customer Spends in System : 2
1044 Idle Time of Server : 0
1045 Random Digit for Service Time : 14
1046 Random Digit for Arrival Time : 278
1047 ++++++
1048 CID : 88
1049 Time Since Last Arrival : 8
1050 Arrival Time : 396
1051 Service Time : 4
1052 Time Server Begins : 396
1053 Time Customer waits in Queue : 0
1054 Time Service End : 400
1055 Time Customer Spends in System : 4
1056 Idle Time of Server : 6
1057 Random Digit for Service Time : 74
1058 Random Digit for Arrival Time : 938
1059 ++++++
1060 CID : 89
1061 Time Since Last Arrival : 8
1062 Arrival Time : 404
```

```
1063 Service Time : 3
1064 Time Server Begins : 404
1065 Time Customer waits in Queue : 0
1066 Time Service End : 407
1067 Time Customer Spends in System : 3
1068 Idle Time of Server : 4
1069 Random Digit for Service Time : 56
1070 Random Digit for Arrival Time : 876
1071 ++++++
1072 CID : 90
1073 Time Since Last Arrival : 2
1074 Arrival Time : 406
1075 Service Time : 5
1076 Time Server Begins : 407
1077 Time Customer waits in Queue : 1
1078 Time Service End : 412
1079 Time Customer Spends in System : 6
1080 Idle Time of Server : 0
1081 Random Digit for Service Time : 89
1082 Random Digit for Arrival Time : 147
1083 ++++++
1084 CID : 91
1085 Time Since Last Arrival : 1
1086 Arrival Time : 407
1087 Service Time : 2
1088 Time Server Begins : 412
1089 Time Customer waits in Queue : 5
1090 Time Service End : 414
1091 Time Customer Spends in System : 7
1092 Idle Time of Server : 0
1093 Random Digit for Service Time : 12
1094 Random Digit for Arrival Time : 13
1095 ++++++
1096 CID : 92
1097 Time Since Last Arrival : 2
1098 Arrival Time : 409
1099 Service Time : 1
1100 Time Server Begins : 414
1101 Time Customer waits in Queue : 5
1102 Time Service End : 415
1103 Time Customer Spends in System : 6
1104 Idle Time of Server : 0
1105 Random Digit for Service Time : 5
1106 Random Digit for Arrival Time : 154
1107 ++++++
1108 CID : 93
1109 Time Since Last Arrival : 4
1110 Arrival Time : 413
1111 Service Time : 4
1112 Time Server Begins : 415
1113 Time Customer waits in Queue : 2
1114 Time Service End : 419
1115 Time Customer Spends in System : 6
1116 Idle Time of Server : 0
1117 Random Digit for Service Time : 73
1118 Random Digit for Arrival Time : 435
1119 ++++++
1120 CID : 94
1121 Time Since Last Arrival : 5
```

```
1122 Arrival Time : 418
1123 Service Time : 3
1124 Time Server Begins : 419
1125 Time Customer waits in Queue : 1
1126 Time Service End : 422
1127 Time Customer Spends in System : 4
1128 Idle Time of Server : 0
1129 Random Digit for Service Time : 38
1130 Random Digit for Arrival Time : 572
1131 ++++++
1132 CID : 95
1133 Time Since Last Arrival : 6
1134 Arrival Time : 424
1135 Service Time : 1
1136 Time Server Begins : 424
1137 Time Customer waits in Queue : 0
1138 Time Service End : 425
1139 Time Customer Spends in System : 1
1140 Idle Time of Server : 2
1141 Random Digit for Service Time : 1
1142 Random Digit for Arrival Time : 714
1143 ++++++
1144 CID : 96
1145 Time Since Last Arrival : 7
1146 Arrival Time : 431
1147 Service Time : 3
1148 Time Server Begins : 431
1149 Time Customer waits in Queue : 0
1150 Time Service End : 434
1151 Time Customer Spends in System : 3
1152 Idle Time of Server : 6
1153 Random Digit for Service Time : 33
1154 Random Digit for Arrival Time : 763
1155 ++++++
1156 CID : 97
1157 Time Since Last Arrival : 5
1158 Arrival Time : 436
1159 Service Time : 2
1160 Time Server Begins : 436
1161 Time Customer waits in Queue : 0
1162 Time Service End : 438
1163 Time Customer Spends in System : 2
1164 Idle Time of Server : 2
1165 Random Digit for Service Time : 20
1166 Random Digit for Arrival Time : 579
1167 ++++++
1168 CID : 98
1169 Time Since Last Arrival : 4
1170 Arrival Time : 440
1171 Service Time : 1
1172 Time Server Begins : 440
1173 Time Customer waits in Queue : 0
1174 Time Service End : 441
1175 Time Customer Spends in System : 1
1176 Idle Time of Server : 2
1177 Random Digit for Service Time : 2
1178 Random Digit for Arrival Time : 469
1179 ++++++
1180 CID : 99
```

```
1181 Time Since Last Arrival : 5
1182 Arrival Time : 445
1183 Service Time : 5
1184 Time Server Begins : 445
1185 Time Customer waits in Queue : 0
1186 Time Service End : 450
1187 Time Customer Spends in System : 5
1188 Idle Time of Server : 4
1189 Random Digit for Service Time : 95
1190 Random Digit for Arrival Time : 536
1191 ++++++
1192 CID : 100
1193 Time Since Last Arrival : 3
1194 Arrival Time : 448
1195 Service Time : 3
1196 Time Server Begins : 450
1197 Time Customer waits in Queue : 2
1198 Time Service End : 453
1199 Time Customer Spends in System : 5
1200 Idle Time of Server : 0
1201 Random Digit for Service Time : 50
1202 Random Digit for Arrival Time : 294
1203 ++++++
1204 average waiting time for a customer : 1.91
1205 probably that a customer has to wait in queue : 0.51
1206 fraction of idle time of the server : 0.2781456953642384
1207 probably of the server being busy : 0.7218543046357616
1208 average service time : 3.27
1209 expected value : 3.2
1210 average time between arrivals : 4.525252525252525
1211 discrete uniform distribution : 4.5
1212 average waiting time of those who wait : 3.7450980392156863
1213 average time a customer spends in the system : 5.18
1214 average time customer spends in the system : 5.18
1215 Excel written successfully..
1216
1217 Process finished with exit code 0
1218
```