

```
1 /Library/Java/JavaVirtualMachines/jdk-11.0.2.jdk/Contents/Home/bin/j
2 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 : 3
9 Time Server Begins : 0
10 Time Customer waits in Queue : 0
11 Time Service End : 3
12 Time Customer Spends in System : 3
13 Idle Time of Server : 0
14 Random Digit for Service Time : 58
15 Random Digit for Arrival Time : 69
16 Service Name : ABLE
17 +++++
18 CID : 2
19 Time Since Last Arrival : 4
20 Arrival Time : 4
21 Service Time : 4
22 Time Server Begins : 4
23 Time Customer waits in Queue : 0
24 Time Service End : 8
25 Time Customer Spends in System : 4
26 Idle Time of Server : 1
27 Random Digit for Service Time : 74
28 Random Digit for Arrival Time : 91
29 Service Name : ABLE
30 +++++
31 CID : 3
32 Time Since Last Arrival : 1
33 Arrival Time : 5
34 Service Time : 4
35 Time Server Begins : 5
36 Time Customer waits in Queue : 0
37 Time Service End : 9
38 Time Customer Spends in System : 4
39 Idle Time of Server : 0
40 Random Digit for Service Time : 58
41 Random Digit for Arrival Time : 15
42 Service Name : BACKER
43 +++++
44 CID : 4
45 Time Since Last Arrival : 2
46 Arrival Time : 7
47 Service Time : 4
48 Time Server Begins : 8
49 Time Customer waits in Queue : 1
50 Time Service End : 12
51 Time Customer Spends in System : 5
52 Idle Time of Server : 0
53 Random Digit for Service Time : 78
54 Random Digit for Arrival Time : 51
55 Service Name : ABLE
56 +++++
57 CID : 5
58 Time Since Last Arrival : 1
59 Arrival Time : 8
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60 Service Time : 5
61 Time Server Begins : 9
62 Time Customer waits in Queue : 1
63 Time Service End : 14
64 Time Customer Spends in System : 6
65 Idle Time of Server : 0
66 Random Digit for Service Time : 74
67 Random Digit for Arrival Time : 5
68 Service Name : BACKER
69 ++++++
70 CID : 6
71 Time Since Last Arrival : 2
72 Arrival Time : 10
73 Service Time : 2
74 Time Server Begins : 12
75 Time Customer waits in Queue : 2
76 Time Service End : 14
77 Time Customer Spends in System : 4
78 Idle Time of Server : 0
79 Random Digit for Service Time : 21
80 Random Digit for Arrival Time : 48
81 Service Name : ABLE
82 ++++++
83 CID : 7
84 Time Since Last Arrival : 3
85 Arrival Time : 13
86 Service Time : 3
87 Time Server Begins : 14
88 Time Customer waits in Queue : 1
89 Time Service End : 17
90 Time Customer Spends in System : 4
91 Idle Time of Server : 0
92 Random Digit for Service Time : 37
93 Random Digit for Arrival Time : 82
94 Service Name : ABLE
95 ++++++
96 CID : 8
97 Time Since Last Arrival : 2
98 Arrival Time : 15
99 Service Time : 3
100 Time Server Begins : 15
101 Time Customer waits in Queue : 0
102 Time Service End : 18
103 Time Customer Spends in System : 3
104 Idle Time of Server : 1
105 Random Digit for Service Time : 12
106 Random Digit for Arrival Time : 26
107 Service Name : BACKER
108 ++++++
109 CID : 9
110 Time Since Last Arrival : 2
111 Arrival Time : 17
112 Service Time : 2
113 Time Server Begins : 17
114 Time Customer waits in Queue : 0
115 Time Service End : 19
116 Time Customer Spends in System : 2
117 Idle Time of Server : 0
118 Random Digit for Service Time : 30
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119 Random Digit for Arrival Time : 36
120 Service Name : ABLE
121 ++++++
122 CID : 10
123 Time Since Last Arrival : 2
124 Arrival Time : 19
125 Service Time : 3
126 Time Server Begins : 19
127 Time Customer waits in Queue : 0
128 Time Service End : 22
129 Time Customer Spends in System : 3
130 Idle Time of Server : 0
131 Random Digit for Service Time : 31
132 Random Digit for Arrival Time : 64
133 Service Name : ABLE
134 ++++++
135 CID : 11
136 Time Since Last Arrival : 3
137 Arrival Time : 22
138 Service Time : 3
139 Time Server Begins : 22
140 Time Customer waits in Queue : 0
141 Time Service End : 25
142 Time Customer Spends in System : 3
143 Idle Time of Server : 0
144 Random Digit for Service Time : 57
145 Random Digit for Arrival Time : 68
146 Service Name : ABLE
147 ++++++
148 CID : 12
149 Time Since Last Arrival : 3
150 Arrival Time : 25
151 Service Time : 3
152 Time Server Begins : 25
153 Time Customer waits in Queue : 0
154 Time Service End : 28
155 Time Customer Spends in System : 3
156 Idle Time of Server : 0
157 Random Digit for Service Time : 43
158 Random Digit for Arrival Time : 84
159 Service Name : ABLE
160 ++++++
161 CID : 13
162 Time Since Last Arrival : 2
163 Arrival Time : 27
164 Service Time : 3
165 Time Server Begins : 27
166 Time Customer waits in Queue : 0
167 Time Service End : 30
168 Time Customer Spends in System : 3
169 Idle Time of Server : 9
170 Random Digit for Service Time : 11
171 Random Digit for Arrival Time : 27
172 Service Name : BACKER
173 ++++++
174 CID : 14
175 Time Since Last Arrival : 2
176 Arrival Time : 29
177 Service Time : 3
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178 Time Server Begins : 29
179 Time Customer waits in Queue : 0
180 Time Service End : 32
181 Time Customer Spends in System : 3
182 Idle Time of Server : 1
183 Random Digit for Service Time : 45
184 Random Digit for Arrival Time : 46
185 Service Name : ABLE
186 ++++++
187 CID : 15
188 Time Since Last Arrival : 1
189 Arrival Time : 30
190 Service Time : 3
191 Time Server Begins : 30
192 Time Customer waits in Queue : 0
193 Time Service End : 33
194 Time Customer Spends in System : 3
195 Idle Time of Server : 0
196 Random Digit for Service Time : 24
197 Random Digit for Arrival Time : 16
198 Service Name : BACKER
199 ++++++
200 CID : 16
201 Time Since Last Arrival : 2
202 Arrival Time : 32
203 Service Time : 3
204 Time Server Begins : 32
205 Time Customer waits in Queue : 0
206 Time Service End : 35
207 Time Customer Spends in System : 3
208 Idle Time of Server : 0
209 Random Digit for Service Time : 41
210 Random Digit for Arrival Time : 36
211 Service Name : ABLE
212 ++++++
213 CID : 17
214 Time Since Last Arrival : 3
215 Arrival Time : 35
216 Service Time : 4
217 Time Server Begins : 35
218 Time Customer waits in Queue : 0
219 Time Service End : 39
220 Time Customer Spends in System : 4
221 Idle Time of Server : 0
222 Random Digit for Service Time : 82
223 Random Digit for Arrival Time : 72
224 Service Name : ABLE
225 ++++++
226 CID : 18
227 Time Since Last Arrival : 3
228 Arrival Time : 38
229 Service Time : 6
230 Time Server Begins : 38
231 Time Customer waits in Queue : 0
232 Time Service End : 44
233 Time Customer Spends in System : 6
234 Idle Time of Server : 5
235 Random Digit for Service Time : 82
236 Random Digit for Arrival Time : 66
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237 Service Name : BACKER
238 ++++++
239 CID : 19
240 Time Since Last Arrival : 3
241 Arrival Time : 41
242 Service Time : 2
243 Time Server Begins : 41
244 Time Customer waits in Queue : 0
245 Time Service End : 43
246 Time Customer Spends in System : 2
247 Idle Time of Server : 2
248 Random Digit for Service Time : 27
249 Random Digit for Arrival Time : 78
250 Service Name : ABLE
251 ++++++
252 CID : 20
253 Time Since Last Arrival : 0
254 Arrival Time : 41
255 Service Time : 3
256 Time Server Begins : 43
257 Time Customer waits in Queue : 2
258 Time Service End : 46
259 Time Customer Spends in System : 5
260 Idle Time of Server : 0
261 Random Digit for Service Time : 32
262 Random Digit for Arrival Time : 0
263 Service Name : ABLE
264 ++++++
265 CID : 21
266 Time Since Last Arrival : 1
267 Arrival Time : 42
268 Service Time : 4
269 Time Server Begins : 44
270 Time Customer waits in Queue : 2
271 Time Service End : 48
272 Time Customer Spends in System : 6
273 Idle Time of Server : 0
274 Random Digit for Service Time : 58
275 Random Digit for Arrival Time : 11
276 Service Name : BACKER
277 ++++++
278 CID : 22
279 Time Since Last Arrival : 2
280 Arrival Time : 44
281 Service Time : 4
282 Time Server Begins : 46
283 Time Customer waits in Queue : 2
284 Time Service End : 50
285 Time Customer Spends in System : 6
286 Idle Time of Server : 0
287 Random Digit for Service Time : 76
288 Random Digit for Arrival Time : 51
289 Service Name : ABLE
290 ++++++
291 CID : 23
292 Time Since Last Arrival : 2
293 Arrival Time : 46
294 Service Time : 3
295 Time Server Begins : 48
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296 Time Customer waits in Queue : 2
297 Time Service End : 51
298 Time Customer Spends in System : 5
299 Idle Time of Server : 0
300 Random Digit for Service Time : 33
301 Random Digit for Arrival Time : 43
302 Service Name : BACKER
303 ++++++
304 CID : 24
305 Time Since Last Arrival : 4
306 Arrival Time : 50
307 Service Time : 4
308 Time Server Begins : 50
309 Time Customer waits in Queue : 0
310 Time Service End : 54
311 Time Customer Spends in System : 4
312 Idle Time of Server : 0
313 Random Digit for Service Time : 62
314 Random Digit for Arrival Time : 97
315 Service Name : ABLE
316 ++++++
317 CID : 25
318 Time Since Last Arrival : 3
319 Arrival Time : 53
320 Service Time : 5
321 Time Server Begins : 53
322 Time Customer waits in Queue : 0
323 Time Service End : 58
324 Time Customer Spends in System : 5
325 Idle Time of Server : 2
326 Random Digit for Service Time : 79
327 Random Digit for Arrival Time : 66
328 Service Name : BACKER
329 ++++++
330 CID : 26
331 Time Since Last Arrival : 3
332 Arrival Time : 56
333 Service Time : 5
334 Time Server Begins : 56
335 Time Customer waits in Queue : 0
336 Time Service End : 61
337 Time Customer Spends in System : 5
338 Idle Time of Server : 2
339 Random Digit for Service Time : 90
340 Random Digit for Arrival Time : 68
341 Service Name : ABLE
342 ++++++
343 CID : 27
344 Time Since Last Arrival : 3
345 Arrival Time : 59
346 Service Time : 4
347 Time Server Begins : 59
348 Time Customer waits in Queue : 0
349 Time Service End : 63
350 Time Customer Spends in System : 4
351 Idle Time of Server : 1
352 Random Digit for Service Time : 57
353 Random Digit for Arrival Time : 79
354 Service Name : BACKER
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355 ++++++
356 CID : 28
357 Time Since Last Arrival : 4
358 Arrival Time : 63
359 Service Time : 3
360 Time Server Begins : 63
361 Time Customer waits in Queue : 0
362 Time Service End : 66
363 Time Customer Spends in System : 3
364 Idle Time of Server : 2
365 Random Digit for Service Time : 53
366 Random Digit for Arrival Time : 97
367 Service Name : ABLE
368 ++++++
369 CID : 29
370 Time Since Last Arrival : 2
371 Arrival Time : 65
372 Service Time : 5
373 Time Server Begins : 65
374 Time Customer waits in Queue : 0
375 Time Service End : 70
376 Time Customer Spends in System : 5
377 Idle Time of Server : 2
378 Random Digit for Service Time : 76
379 Random Digit for Arrival Time : 52
380 Service Name : BACKER
381 ++++++
382 CID : 30
383 Time Since Last Arrival : 2
384 Arrival Time : 67
385 Service Time : 2
386 Time Server Begins : 67
387 Time Customer waits in Queue : 0
388 Time Service End : 69
389 Time Customer Spends in System : 2
390 Idle Time of Server : 1
391 Random Digit for Service Time : 11
392 Random Digit for Arrival Time : 61
393 Service Name : ABLE
394 ++++++
395 CID : 31
396 Time Since Last Arrival : 4
397 Arrival Time : 71
398 Service Time : 2
399 Time Server Begins : 71
400 Time Customer waits in Queue : 0
401 Time Service End : 73
402 Time Customer Spends in System : 2
403 Idle Time of Server : 2
404 Random Digit for Service Time : 2
405 Random Digit for Arrival Time : 97
406 Service Name : ABLE
407 ++++++
408 CID : 32
409 Time Since Last Arrival : 2
410 Arrival Time : 73
411 Service Time : 4
412 Time Server Begins : 73
413 Time Customer waits in Queue : 0
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414 Time Service End : 77
415 Time Customer Spends in System : 4
416 Idle Time of Server : 0
417 Random Digit for Service Time : 61
418 Random Digit for Arrival Time : 58
419 Service Name : ABLE
420 ++++++
421 CID : 33
422 Time Since Last Arrival : 3
423 Arrival Time : 76
424 Service Time : 5
425 Time Server Begins : 76
426 Time Customer waits in Queue : 0
427 Time Service End : 81
428 Time Customer Spends in System : 5
429 Idle Time of Server : 6
430 Random Digit for Service Time : 69
431 Random Digit for Arrival Time : 77
432 Service Name : BACKER
433 ++++++
434 CID : 34
435 Time Since Last Arrival : 2
436 Arrival Time : 78
437 Service Time : 3
438 Time Server Begins : 78
439 Time Customer waits in Queue : 0
440 Time Service End : 81
441 Time Customer Spends in System : 3
442 Idle Time of Server : 1
443 Random Digit for Service Time : 35
444 Random Digit for Arrival Time : 39
445 Service Name : ABLE
446 ++++++
447 CID : 35
448 Time Since Last Arrival : 3
449 Arrival Time : 81
450 Service Time : 3
451 Time Server Begins : 81
452 Time Customer waits in Queue : 0
453 Time Service End : 84
454 Time Customer Spends in System : 3
455 Idle Time of Server : 0
456 Random Digit for Service Time : 45
457 Random Digit for Arrival Time : 70
458 Service Name : ABLE
459 ++++++
460 CID : 36
461 Time Since Last Arrival : 4
462 Arrival Time : 85
463 Service Time : 4
464 Time Server Begins : 85
465 Time Customer waits in Queue : 0
466 Time Service End : 89
467 Time Customer Spends in System : 4
468 Idle Time of Server : 1
469 Random Digit for Service Time : 61
470 Random Digit for Arrival Time : 91
471 Service Name : ABLE
472 ++++++
```



```
473 CID : 37
474 Time Since Last Arrival : 2
475 Arrival Time : 87
476 Service Time : 4
477 Time Server Begins : 87
478 Time Customer waits in Queue : 0
479 Time Service End : 91
480 Time Customer Spends in System : 4
481 Idle Time of Server : 6
482 Random Digit for Service Time : 51
483 Random Digit for Arrival Time : 45
484 Service Name : BACKER
485 ++++++
486 CID : 38
487 Time Since Last Arrival : 1
488 Arrival Time : 88
489 Service Time : 5
490 Time Server Begins : 89
491 Time Customer waits in Queue : 1
492 Time Service End : 94
493 Time Customer Spends in System : 6
494 Idle Time of Server : 0
495 Random Digit for Service Time : 88
496 Random Digit for Arrival Time : 12
497 Service Name : ABLE
498 ++++++
499 CID : 39
500 Time Since Last Arrival : 2
501 Arrival Time : 90
502 Service Time : 3
503 Time Server Begins : 91
504 Time Customer waits in Queue : 1
505 Time Service End : 94
506 Time Customer Spends in System : 4
507 Idle Time of Server : 0
508 Random Digit for Service Time : 26
509 Random Digit for Arrival Time : 55
510 Service Name : BACKER
511 ++++++
512 CID : 40
513 Time Since Last Arrival : 3
514 Arrival Time : 93
515 Service Time : 3
516 Time Server Begins : 94
517 Time Customer waits in Queue : 1
518 Time Service End : 97
519 Time Customer Spends in System : 4
520 Idle Time of Server : 0
521 Random Digit for Service Time : 39
522 Random Digit for Arrival Time : 84
523 Service Name : ABLE
524 ++++++
525 CID : 41
526 Time Since Last Arrival : 2
527 Arrival Time : 95
528 Service Time : 3
529 Time Server Begins : 95
530 Time Customer waits in Queue : 0
531 Time Service End : 98
```

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532 Time Customer Spends in System : 3
533 Idle Time of Server : 1
534 Random Digit for Service Time : 12
535 Random Digit for Arrival Time : 50
536 Service Name : BACKER
537 ++++++
538 CID : 42
539 Time Since Last Arrival : 2
540 Arrival Time : 97
541 Service Time : 3
542 Time Server Begins : 97
543 Time Customer waits in Queue : 0
544 Time Service End : 100
545 Time Customer Spends in System : 3
546 Idle Time of Server : 0
547 Random Digit for Service Time : 47
548 Random Digit for Arrival Time : 50
549 Service Name : ABLE
550 ++++++
551 CID : 43
552 Time Since Last Arrival : 1
553 Arrival Time : 98
554 Service Time : 3
555 Time Server Begins : 98
556 Time Customer waits in Queue : 0
557 Time Service End : 101
558 Time Customer Spends in System : 3
559 Idle Time of Server : 0
560 Random Digit for Service Time : 4
561 Random Digit for Arrival Time : 25
562 Service Name : BACKER
563 ++++++
564 CID : 44
565 Time Since Last Arrival : 4
566 Arrival Time : 102
567 Service Time : 2
568 Time Server Begins : 102
569 Time Customer waits in Queue : 0
570 Time Service End : 104
571 Time Customer Spends in System : 2
572 Idle Time of Server : 2
573 Random Digit for Service Time : 25
574 Random Digit for Arrival Time : 87
575 Service Name : ABLE
576 ++++++
577 CID : 45
578 Time Since Last Arrival : 3
579 Arrival Time : 105
580 Service Time : 4
581 Time Server Begins : 105
582 Time Customer waits in Queue : 0
583 Time Service End : 109
584 Time Customer Spends in System : 4
585 Idle Time of Server : 1
586 Random Digit for Service Time : 80
587 Random Digit for Arrival Time : 73
588 Service Name : ABLE
589 ++++++
590 CID : 46
```

```
591 Time Since Last Arrival : 4
592 Arrival Time : 109
593 Service Time : 5
594 Time Server Begins : 109
595 Time Customer waits in Queue : 0
596 Time Service End : 114
597 Time Customer Spends in System : 5
598 Idle Time of Server : 0
599 Random Digit for Service Time : 89
600 Random Digit for Arrival Time : 99
601 Service Name : ABLE
602 ++++++
603 CID : 47
604 Time Since Last Arrival : 1
605 Arrival Time : 110
606 Service Time : 3
607 Time Server Begins : 110
608 Time Customer waits in Queue : 0
609 Time Service End : 113
610 Time Customer Spends in System : 3
611 Idle Time of Server : 9
612 Random Digit for Service Time : 33
613 Random Digit for Arrival Time : 9
614 Service Name : BACKER
615 ++++++
616 CID : 48
617 Time Since Last Arrival : 4
618 Arrival Time : 114
619 Service Time : 2
620 Time Server Begins : 114
621 Time Customer waits in Queue : 0
622 Time Service End : 116
623 Time Customer Spends in System : 2
624 Idle Time of Server : 0
625 Random Digit for Service Time : 5
626 Random Digit for Arrival Time : 89
627 Service Name : ABLE
628 ++++++
629 CID : 49
630 Time Since Last Arrival : 3
631 Arrival Time : 117
632 Service Time : 4
633 Time Server Begins : 117
634 Time Customer waits in Queue : 0
635 Time Service End : 121
636 Time Customer Spends in System : 4
637 Idle Time of Server : 1
638 Random Digit for Service Time : 63
639 Random Digit for Arrival Time : 76
640 Service Name : ABLE
641 ++++++
642 CID : 50
643 Time Since Last Arrival : 1
644 Arrival Time : 118
645 Service Time : 3
646 Time Server Begins : 118
647 Time Customer waits in Queue : 0
648 Time Service End : 121
649 Time Customer Spends in System : 3
```

```
650 Idle Time of Server : 5
651 Random Digit for Service Time : 19
652 Random Digit for Arrival Time : 14
653 Service Name : BACKER
654 ++++++
655 CID : 51
656 Time Since Last Arrival : 3
657 Arrival Time : 121
658 Service Time : 4
659 Time Server Begins : 121
660 Time Customer waits in Queue : 0
661 Time Service End : 125
662 Time Customer Spends in System : 4
663 Idle Time of Server : 0
664 Random Digit for Service Time : 77
665 Random Digit for Arrival Time : 84
666 Service Name : ABLE
667 ++++++
668 CID : 52
669 Time Since Last Arrival : 4
670 Arrival Time : 125
671 Service Time : 3
672 Time Server Begins : 125
673 Time Customer waits in Queue : 0
674 Time Service End : 128
675 Time Customer Spends in System : 3
676 Idle Time of Server : 0
677 Random Digit for Service Time : 36
678 Random Digit for Arrival Time : 89
679 Service Name : ABLE
680 ++++++
681 CID : 53
682 Time Since Last Arrival : 4
683 Arrival Time : 129
684 Service Time : 3
685 Time Server Begins : 129
686 Time Customer waits in Queue : 0
687 Time Service End : 132
688 Time Customer Spends in System : 3
689 Idle Time of Server : 1
690 Random Digit for Service Time : 58
691 Random Digit for Arrival Time : 96
692 Service Name : ABLE
693 ++++++
694 CID : 54
695 Time Since Last Arrival : 2
696 Arrival Time : 131
697 Service Time : 5
698 Time Server Begins : 131
699 Time Customer waits in Queue : 0
700 Time Service End : 136
701 Time Customer Spends in System : 5
702 Idle Time of Server : 10
703 Random Digit for Service Time : 70
704 Random Digit for Arrival Time : 29
705 Service Name : BACKER
706 ++++++
707 CID : 55
708 Time Since Last Arrival : 4
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```
709 Arrival Time : 135
710 Service Time : 2
711 Time Server Begins : 135
712 Time Customer waits in Queue : 0
713 Time Service End : 137
714 Time Customer Spends in System : 2
715 Idle Time of Server : 3
716 Random Digit for Service Time : 20
717 Random Digit for Arrival Time : 94
718 Service Name : ABLE
719 ++++++
720 CID : 56
721 Time Since Last Arrival : 4
722 Arrival Time : 139
723 Service Time : 2
724 Time Server Begins : 139
725 Time Customer waits in Queue : 0
726 Time Service End : 141
727 Time Customer Spends in System : 2
728 Idle Time of Server : 2
729 Random Digit for Service Time : 23
730 Random Digit for Arrival Time : 95
731 Service Name : ABLE
732 ++++++
733 CID : 57
734 Time Since Last Arrival : 1
735 Arrival Time : 140
736 Service Time : 6
737 Time Server Begins : 140
738 Time Customer waits in Queue : 0
739 Time Service End : 146
740 Time Customer Spends in System : 6
741 Idle Time of Server : 4
742 Random Digit for Service Time : 83
743 Random Digit for Arrival Time : 22
744 Service Name : BACKER
745 ++++++
746 CID : 58
747 Time Since Last Arrival : 4
748 Arrival Time : 144
749 Service Time : 3
750 Time Server Begins : 144
751 Time Customer waits in Queue : 0
752 Time Service End : 147
753 Time Customer Spends in System : 3
754 Idle Time of Server : 3
755 Random Digit for Service Time : 52
756 Random Digit for Arrival Time : 90
757 Service Name : ABLE
758 ++++++
759 CID : 59
760 Time Since Last Arrival : 2
761 Arrival Time : 146
762 Service Time : 4
763 Time Server Begins : 146
764 Time Customer waits in Queue : 0
765 Time Service End : 150
766 Time Customer Spends in System : 4
767 Idle Time of Server : 0
```

```
768 Random Digit for Service Time : 52
769 Random Digit for Arrival Time : 50
770 Service Name : BACKER
771 ++++++
772 CID : 60
773 Time Since Last Arrival : 4
774 Arrival Time : 150
775 Service Time : 3
776 Time Server Begins : 150
777 Time Customer waits in Queue : 0
778 Time Service End : 153
779 Time Customer Spends in System : 3
780 Idle Time of Server : 3
781 Random Digit for Service Time : 50
782 Random Digit for Arrival Time : 94
783 Service Name : ABLE
784 ++++++
785 CID : 61
786 Time Since Last Arrival : 2
787 Arrival Time : 152
788 Service Time : 5
789 Time Server Begins : 152
790 Time Customer waits in Queue : 0
791 Time Service End : 157
792 Time Customer Spends in System : 5
793 Idle Time of Server : 2
794 Random Digit for Service Time : 80
795 Random Digit for Arrival Time : 33
796 Service Name : BACKER
797 ++++++
798 CID : 62
799 Time Since Last Arrival : 4
800 Arrival Time : 156
801 Service Time : 4
802 Time Server Begins : 156
803 Time Customer waits in Queue : 0
804 Time Service End : 160
805 Time Customer Spends in System : 4
806 Idle Time of Server : 3
807 Random Digit for Service Time : 76
808 Random Digit for Arrival Time : 89
809 Service Name : ABLE
810 ++++++
811 CID : 63
812 Time Since Last Arrival : 4
813 Arrival Time : 160
814 Service Time : 2
815 Time Server Begins : 160
816 Time Customer waits in Queue : 0
817 Time Service End : 162
818 Time Customer Spends in System : 2
819 Idle Time of Server : 0
820 Random Digit for Service Time : 22
821 Random Digit for Arrival Time : 98
822 Service Name : ABLE
823 ++++++
824 CID : 64
825 Time Since Last Arrival : 2
826 Arrival Time : 162
```

```
827 Service Time : 4
828 Time Server Begins : 162
829 Time Customer waits in Queue : 0
830 Time Service End : 166
831 Time Customer Spends in System : 4
832 Idle Time of Server : 0
833 Random Digit for Service Time : 74
834 Random Digit for Arrival Time : 56
835 Service Name : ABLE
836 ++++++
837 CID : 65
838 Time Since Last Arrival : 4
839 Arrival Time : 166
840 Service Time : 5
841 Time Server Begins : 166
842 Time Customer waits in Queue : 0
843 Time Service End : 171
844 Time Customer Spends in System : 5
845 Idle Time of Server : 0
846 Random Digit for Service Time : 92
847 Random Digit for Arrival Time : 99
848 Service Name : ABLE
849 ++++++
850 CID : 66
851 Time Since Last Arrival : 1
852 Arrival Time : 167
853 Service Time : 0
854 Time Server Begins : 167
855 Time Customer waits in Queue : 0
856 Time Service End : 167
857 Time Customer Spends in System : 0
858 Idle Time of Server : 10
859 Random Digit for Service Time : 0
860 Random Digit for Arrival Time : 24
861 Service Name : BACKER
862 ++++++
863 CID : 67
864 Time Since Last Arrival : 1
865 Arrival Time : 168
866 Service Time : 5
867 Time Server Begins : 168
868 Time Customer waits in Queue : 0
869 Time Service End : 173
870 Time Customer Spends in System : 5
871 Idle Time of Server : 1
872 Random Digit for Service Time : 64
873 Random Digit for Arrival Time : 17
874 Service Name : BACKER
875 ++++++
876 CID : 68
877 Time Since Last Arrival : 2
878 Arrival Time : 170
879 Service Time : 2
880 Time Server Begins : 171
881 Time Customer waits in Queue : 1
882 Time Service End : 173
883 Time Customer Spends in System : 3
884 Idle Time of Server : 0
885 Random Digit for Service Time : 23
```

```
886 Random Digit for Arrival Time : 49
887 Service Name : ABLE
888 ++++++
889 CID : 69
890 Time Since Last Arrival : 2
891 Arrival Time : 172
892 Service Time : 2
893 Time Server Begins : 173
894 Time Customer waits in Queue : 1
895 Time Service End : 175
896 Time Customer Spends in System : 3
897 Idle Time of Server : 0
898 Random Digit for Service Time : 19
899 Random Digit for Arrival Time : 27
900 Service Name : ABLE
901 ++++++
902 CID : 70
903 Time Since Last Arrival : 2
904 Arrival Time : 174
905 Service Time : 6
906 Time Server Begins : 174
907 Time Customer waits in Queue : 0
908 Time Service End : 180
909 Time Customer Spends in System : 6
910 Idle Time of Server : 1
911 Random Digit for Service Time : 90
912 Random Digit for Arrival Time : 30
913 Service Name : BACKER
914 ++++++
915 CID : 71
916 Time Since Last Arrival : 3
917 Arrival Time : 177
918 Service Time : 2
919 Time Server Begins : 177
920 Time Customer waits in Queue : 0
921 Time Service End : 179
922 Time Customer Spends in System : 2
923 Idle Time of Server : 2
924 Random Digit for Service Time : 24
925 Random Digit for Arrival Time : 69
926 Service Name : ABLE
927 ++++++
928 CID : 72
929 Time Since Last Arrival : 1
930 Arrival Time : 178
931 Service Time : 4
932 Time Server Begins : 179
933 Time Customer waits in Queue : 1
934 Time Service End : 183
935 Time Customer Spends in System : 5
936 Idle Time of Server : 0
937 Random Digit for Service Time : 63
938 Random Digit for Arrival Time : 24
939 Service Name : ABLE
940 ++++++
941 CID : 73
942 Time Since Last Arrival : 1
943 Arrival Time : 179
944 Service Time : 4
```



```
945 Time Server Begins : 180
946 Time Customer waits in Queue : 1
947 Time Service End : 184
948 Time Customer Spends in System : 5
949 Idle Time of Server : 0
950 Random Digit for Service Time : 53
951 Random Digit for Arrival Time : 3
952 Service Name : BACKER
953 ++++++
954 CID : 74
955 Time Since Last Arrival : 4
956 Arrival Time : 183
957 Service Time : 0
958 Time Server Begins : 183
959 Time Customer waits in Queue : 0
960 Time Service End : 183
961 Time Customer Spends in System : 0
962 Idle Time of Server : 0
963 Random Digit for Service Time : 0
964 Random Digit for Arrival Time : 90
965 Service Name : ABLE
966 ++++++
967 CID : 75
968 Time Since Last Arrival : 3
969 Arrival Time : 186
970 Service Time : 4
971 Time Server Begins : 186
972 Time Customer waits in Queue : 0
973 Time Service End : 190
974 Time Customer Spends in System : 4
975 Idle Time of Server : 3
976 Random Digit for Service Time : 67
977 Random Digit for Arrival Time : 84
978 Service Name : ABLE
979 ++++++
980 CID : 76
981 Time Since Last Arrival : 1
982 Arrival Time : 187
983 Service Time : 6
984 Time Server Begins : 187
985 Time Customer waits in Queue : 0
986 Time Service End : 193
987 Time Customer Spends in System : 6
988 Idle Time of Server : 3
989 Random Digit for Service Time : 87
990 Random Digit for Arrival Time : 17
991 Service Name : BACKER
992 ++++++
993 CID : 77
994 Time Since Last Arrival : 4
995 Arrival Time : 191
996 Service Time : 3
997 Time Server Begins : 191
998 Time Customer waits in Queue : 0
999 Time Service End : 194
1000 Time Customer Spends in System : 3
1001 Idle Time of Server : 1
1002 Random Digit for Service Time : 53
1003 Random Digit for Arrival Time : 86
```

```
1004 Service Name : ABLE
1005 ++++++
1006 CID : 78
1007 Time Since Last Arrival : 4
1008 Arrival Time : 195
1009 Service Time : 5
1010 Time Server Begins : 195
1011 Time Customer waits in Queue : 0
1012 Time Service End : 200
1013 Time Customer Spends in System : 5
1014 Idle Time of Server : 1
1015 Random Digit for Service Time : 93
1016 Random Digit for Arrival Time : 95
1017 Service Name : ABLE
1018 ++++++
1019 CID : 79
1020 Time Since Last Arrival : 4
1021 Arrival Time : 199
1022 Service Time : 4
1023 Time Server Begins : 199
1024 Time Customer waits in Queue : 0
1025 Time Service End : 203
1026 Time Customer Spends in System : 4
1027 Idle Time of Server : 6
1028 Random Digit for Service Time : 56
1029 Random Digit for Arrival Time : 90
1030 Service Name : BACKER
1031 ++++++
1032 CID : 80
1033 Time Since Last Arrival : 2
1034 Arrival Time : 201
1035 Service Time : 2
1036 Time Server Begins : 201
1037 Time Customer waits in Queue : 0
1038 Time Service End : 203
1039 Time Customer Spends in System : 2
1040 Idle Time of Server : 1
1041 Random Digit for Service Time : 3
1042 Random Digit for Arrival Time : 46
1043 Service Name : ABLE
1044 ++++++
1045 CID : 81
1046 Time Since Last Arrival : 3
1047 Arrival Time : 204
1048 Service Time : 2
1049 Time Server Begins : 204
1050 Time Customer waits in Queue : 0
1051 Time Service End : 206
1052 Time Customer Spends in System : 2
1053 Idle Time of Server : 1
1054 Random Digit for Service Time : 30
1055 Random Digit for Arrival Time : 82
1056 Service Name : ABLE
1057 ++++++
1058 CID : 82
1059 Time Since Last Arrival : 2
1060 Arrival Time : 206
1061 Service Time : 3
1062 Time Server Begins : 206
```

```
1063 Time Customer waits in Queue : 0
1064 Time Service End : 209
1065 Time Customer Spends in System : 3
1066 Idle Time of Server : 0
1067 Random Digit for Service Time : 42
1068 Random Digit for Arrival Time : 41
1069 Service Name : ABLE
1070 ++++++
1071 CID : 83
1072 Time Since Last Arrival : 3
1073 Arrival Time : 209
1074 Service Time : 2
1075 Time Server Begins : 209
1076 Time Customer waits in Queue : 0
1077 Time Service End : 211
1078 Time Customer Spends in System : 2
1079 Idle Time of Server : 0
1080 Random Digit for Service Time : 14
1081 Random Digit for Arrival Time : 78
1082 Service Name : ABLE
1083 ++++++
1084 CID : 84
1085 Time Since Last Arrival : 2
1086 Arrival Time : 211
1087 Service Time : 3
1088 Time Server Begins : 211
1089 Time Customer waits in Queue : 0
1090 Time Service End : 214
1091 Time Customer Spends in System : 3
1092 Idle Time of Server : 0
1093 Random Digit for Service Time : 48
1094 Random Digit for Arrival Time : 61
1095 Service Name : ABLE
1096 ++++++
1097 CID : 85
1098 Time Since Last Arrival : 0
1099 Arrival Time : 211
1100 Service Time : 3
1101 Time Server Begins : 211
1102 Time Customer waits in Queue : 0
1103 Time Service End : 214
1104 Time Customer Spends in System : 3
1105 Idle Time of Server : 8
1106 Random Digit for Service Time : 33
1107 Random Digit for Arrival Time : 0
1108 Service Name : BACKER
1109 ++++++
1110 CID : 86
1111 Time Since Last Arrival : 4
1112 Arrival Time : 215
1113 Service Time : 2
1114 Time Server Begins : 215
1115 Time Customer waits in Queue : 0
1116 Time Service End : 217
1117 Time Customer Spends in System : 2
1118 Idle Time of Server : 1
1119 Random Digit for Service Time : 9
1120 Random Digit for Arrival Time : 95
1121 Service Name : ABLE
```

```
1122 ++++++
1123 CID : 87
1124 Time Since Last Arrival : 1
1125 Arrival Time : 216
1126 Service Time : 6
1127 Time Server Begins : 216
1128 Time Customer waits in Queue : 0
1129 Time Service End : 222
1130 Time Customer Spends in System : 6
1131 Idle Time of Server : 2
1132 Random Digit for Service Time : 81
1133 Random Digit for Arrival Time : 2
1134 Service Name : BACKER
1135 ++++++
1136 CID : 88
1137 Time Since Last Arrival : 4
1138 Arrival Time : 220
1139 Service Time : 3
1140 Time Server Begins : 220
1141 Time Customer waits in Queue : 0
1142 Time Service End : 223
1143 Time Customer Spends in System : 3
1144 Idle Time of Server : 3
1145 Random Digit for Service Time : 31
1146 Random Digit for Arrival Time : 90
1147 Service Name : ABLE
1148 ++++++
1149 CID : 89
1150 Time Since Last Arrival : 1
1151 Arrival Time : 221
1152 Service Time : 5
1153 Time Server Begins : 222
1154 Time Customer waits in Queue : 1
1155 Time Service End : 227
1156 Time Customer Spends in System : 6
1157 Idle Time of Server : 0
1158 Random Digit for Service Time : 76
1159 Random Digit for Arrival Time : 5
1160 Service Name : BACKER
1161 ++++++
1162 CID : 90
1163 Time Since Last Arrival : 0
1164 Arrival Time : 221
1165 Service Time : 5
1166 Time Server Begins : 223
1167 Time Customer waits in Queue : 2
1168 Time Service End : 228
1169 Time Customer Spends in System : 7
1170 Idle Time of Server : 0
1171 Random Digit for Service Time : 85
1172 Random Digit for Arrival Time : 0
1173 Service Name : ABLE
1174 ++++++
1175 CID : 91
1176 Time Since Last Arrival : 1
1177 Arrival Time : 222
1178 Service Time : 4
1179 Time Server Begins : 227
1180 Time Customer waits in Queue : 5
```

```
1181 Time Service End : 231
1182 Time Customer Spends in System : 9
1183 Idle Time of Server : 0
1184 Random Digit for Service Time : 46
1185 Random Digit for Arrival Time : 13
1186 Service Name : BACKER
1187 ++++++
1188 CID : 92
1189 Time Since Last Arrival : 2
1190 Arrival Time : 224
1191 Service Time : 2
1192 Time Server Begins : 228
1193 Time Customer waits in Queue : 4
1194 Time Service End : 230
1195 Time Customer Spends in System : 6
1196 Idle Time of Server : 0
1197 Random Digit for Service Time : 1
1198 Random Digit for Arrival Time : 63
1199 Service Name : ABLE
1200 ++++++
1201 CID : 93
1202 Time Since Last Arrival : 2
1203 Arrival Time : 226
1204 Service Time : 5
1205 Time Server Begins : 230
1206 Time Customer waits in Queue : 4
1207 Time Service End : 235
1208 Time Customer Spends in System : 9
1209 Idle Time of Server : 0
1210 Random Digit for Service Time : 97
1211 Random Digit for Arrival Time : 42
1212 Service Name : ABLE
1213 ++++++
1214 CID : 94
1215 Time Since Last Arrival : 1
1216 Arrival Time : 227
1217 Service Time : 4
1218 Time Server Begins : 231
1219 Time Customer waits in Queue : 4
1220 Time Service End : 235
1221 Time Customer Spends in System : 8
1222 Idle Time of Server : 0
1223 Random Digit for Service Time : 48
1224 Random Digit for Arrival Time : 2
1225 Service Name : BACKER
1226 ++++++
1227 CID : 95
1228 Time Since Last Arrival : 2
1229 Arrival Time : 229
1230 Service Time : 3
1231 Time Server Begins : 235
1232 Time Customer waits in Queue : 6
1233 Time Service End : 238
1234 Time Customer Spends in System : 9
1235 Idle Time of Server : 0
1236 Random Digit for Service Time : 49
1237 Random Digit for Arrival Time : 49
1238 Service Name : ABLE
1239 ++++++
```

```
1240 CID : 96
1241 Time Since Last Arrival : 1
1242 Arrival Time : 230
1243 Service Time : 5
1244 Time Server Begins : 235
1245 Time Customer waits in Queue : 5
1246 Time Service End : 240
1247 Time Customer Spends in System : 10
1248 Idle Time of Server : 0
1249 Random Digit for Service Time : 67
1250 Random Digit for Arrival Time : 4
1251 Service Name : BACKER
1252 ++++++
1253 CID : 97
1254 Time Since Last Arrival : 2
1255 Arrival Time : 232
1256 Service Time : 2
1257 Time Server Begins : 238
1258 Time Customer waits in Queue : 6
1259 Time Service End : 240
1260 Time Customer Spends in System : 8
1261 Idle Time of Server : 0
1262 Random Digit for Service Time : 29
1263 Random Digit for Arrival Time : 60
1264 Service Name : ABLE
1265 ++++++
1266 CID : 98
1267 Time Since Last Arrival : 2
1268 Arrival Time : 234
1269 Service Time : 5
1270 Time Server Begins : 240
1271 Time Customer waits in Queue : 6
1272 Time Service End : 245
1273 Time Customer Spends in System : 11
1274 Idle Time of Server : 0
1275 Random Digit for Service Time : 94
1276 Random Digit for Arrival Time : 29
1277 Service Name : ABLE
1278 ++++++
1279 CID : 99
1280 Time Since Last Arrival : 1
1281 Arrival Time : 235
1282 Service Time : 4
1283 Time Server Begins : 240
1284 Time Customer waits in Queue : 5
1285 Time Service End : 244
1286 Time Customer Spends in System : 9
1287 Idle Time of Server : 0
1288 Random Digit for Service Time : 40
1289 Random Digit for Arrival Time : 9
1290 Service Name : BACKER
1291 ++++++
1292 CID : 100
1293 Time Since Last Arrival : 2
1294 Arrival Time : 237
1295 Service Time : 3
1296 Time Server Begins : 244
1297 Time Customer waits in Queue : 7
1298 Time Service End : 247
```

```
1299 Time Customer Spends in System : 10
1300 Idle Time of Server : 0
1301 Random Digit for Service Time : 15
1302 Random Digit for Arrival Time : 53
1303 Service Name : BACKER
1304 ++++++
1305 ABLE CALCULATIONS :
1306 ABLE average waiting time for a customer : 0.640625
1307 ABLE probably that a customer has to wait in queue : 0.25
1308 ABLE fraction of idle time of the server : 0.1836734693877551
1309 ABLE probably of the server being busy : 0.8163265306122449
1310 ABLE average service time : 3.125
1311 ABLE expected value : 3.29
1312 ABLE average time between arrivals : 3.7142857142857144
1313 ABLE discrete uniform distribution : 2.5
1314 ABLE average waiting time of those who wait : 2.5625
1315 ABLE average time a customer spends in the system : 3.765625
1316 ABLE average time customer spends in the system : 3.765625
1317 The able customer : 64
1318 The backer customer : 36
1319 ++++++
1320 BACKER CALCULATIONS :
1321 BACKER average waiting time for a customer : 0.9444444444444444
1322 BACKER probably that a customer has to wait in queue : 0.305555555
1323 BACKER fraction of idle time of the server : 0.3805668016194332
1324 BACKER probably of the server being busy : 0.6194331983805668
1325 BACKER average service time : 4.111111111111111
1326 BACKER expected value : 4.25
1327 BACKER average time between arrivals : 6.771428571428571
1328 BACKER discrete uniform distribution : 2.5
1329 BACKER average waiting time of those who wait : 3.090909090909091
1330 BACKER average time a customer spends in the system : 5.055555555
1331 BACKER average time customer spends in the system : 5.055555555
1332 The able customer : 64
1333 The backer customer : 36
1334 Excel written successfully..
1335
1336 Process finished with exit code 0
1337
```