

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



```
473 CID : 37
474 Time Since Last Arrival : 2
475 Arrival Time : 69
476 Service Time : 5
477 Time Server Begins : 76
478 Time Customer waits in Queue : 7
479 Time Service End : 81
480 Time Customer Spends in System : 12
481 Idle Time of Server : 0
482 Random Digit for Service Time : 72
483 Random Digit for Arrival Time : 44
484 Service Name : BACKER
485 ++++++
486 CID : 38
487 Time Since Last Arrival : 2
488 Arrival Time : 71
489 Service Time : 4
490 Time Server Begins : 79
491 Time Customer waits in Queue : 8
492 Time Service End : 83
493 Time Customer Spends in System : 12
494 Idle Time of Server : 0
495 Random Digit for Service Time : 81
496 Random Digit for Arrival Time : 51
497 Service Name : ABLE
498 ++++++
499 CID : 39
500 Time Since Last Arrival : 4
501 Arrival Time : 75
502 Service Time : 3
503 Time Server Begins : 81
504 Time Customer waits in Queue : 6
505 Time Service End : 84
506 Time Customer Spends in System : 9
507 Idle Time of Server : 0
508 Random Digit for Service Time : 15
509 Random Digit for Arrival Time : 91
510 Service Name : BACKER
511 ++++++
512 CID : 40
513 Time Since Last Arrival : 4
514 Arrival Time : 79
515 Service Time : 2
516 Time Server Begins : 83
517 Time Customer waits in Queue : 4
518 Time Service End : 85
519 Time Customer Spends in System : 6
520 Idle Time of Server : 0
521 Random Digit for Service Time : 17
522 Random Digit for Arrival Time : 95
523 Service Name : ABLE
524 ++++++
525 CID : 41
526 Time Since Last Arrival : 1
527 Arrival Time : 80
528 Service Time : 4
529 Time Server Begins : 84
530 Time Customer waits in Queue : 4
531 Time Service End : 88
```

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532 Time Customer Spends in System : 8
533 Idle Time of Server : 0
534 Random Digit for Service Time : 52
535 Random Digit for Arrival Time : 20
536 Service Name : BACKER
537 ++++++
538 CID : 42
539 Time Since Last Arrival : 2
540 Arrival Time : 82
541 Service Time : 2
542 Time Server Begins : 85
543 Time Customer waits in Queue : 3
544 Time Service End : 87
545 Time Customer Spends in System : 5
546 Idle Time of Server : 0
547 Random Digit for Service Time : 10
548 Random Digit for Arrival Time : 32
549 Service Name : ABLE
550 ++++++
551 CID : 43
552 Time Since Last Arrival : 2
553 Arrival Time : 84
554 Service Time : 2
555 Time Server Begins : 87
556 Time Customer waits in Queue : 3
557 Time Service End : 89
558 Time Customer Spends in System : 5
559 Idle Time of Server : 0
560 Random Digit for Service Time : 19
561 Random Digit for Arrival Time : 33
562 Service Name : ABLE
563 ++++++
564 CID : 44
565 Time Since Last Arrival : 4
566 Arrival Time : 88
567 Service Time : 5
568 Time Server Begins : 88
569 Time Customer waits in Queue : 0
570 Time Service End : 93
571 Time Customer Spends in System : 5
572 Idle Time of Server : 0
573 Random Digit for Service Time : 65
574 Random Digit for Arrival Time : 91
575 Service Name : BACKER
576 ++++++
577 CID : 45
578 Time Since Last Arrival : 1
579 Arrival Time : 89
580 Service Time : 2
581 Time Server Begins : 89
582 Time Customer waits in Queue : 0
583 Time Service End : 91
584 Time Customer Spends in System : 2
585 Idle Time of Server : 0
586 Random Digit for Service Time : 25
587 Random Digit for Arrival Time : 16
588 Service Name : ABLE
589 ++++++
590 CID : 46
```

```
591 Time Since Last Arrival : 1
592 Arrival Time : 90
593 Service Time : 2
594 Time Server Begins : 91
595 Time Customer waits in Queue : 1
596 Time Service End : 93
597 Time Customer Spends in System : 3
598 Idle Time of Server : 0
599 Random Digit for Service Time : 9
600 Random Digit for Arrival Time : 20
601 Service Name : ABLE
602 ++++++
603 CID : 47
604 Time Since Last Arrival : 2
605 Arrival Time : 92
606 Service Time : 3
607 Time Server Begins : 93
608 Time Customer waits in Queue : 1
609 Time Service End : 96
610 Time Customer Spends in System : 4
611 Idle Time of Server : 0
612 Random Digit for Service Time : 50
613 Random Digit for Arrival Time : 62
614 Service Name : ABLE
615 ++++++
616 CID : 48
617 Time Since Last Arrival : 4
618 Arrival Time : 96
619 Service Time : 2
620 Time Server Begins : 96
621 Time Customer waits in Queue : 0
622 Time Service End : 98
623 Time Customer Spends in System : 2
624 Idle Time of Server : 0
625 Random Digit for Service Time : 7
626 Random Digit for Arrival Time : 98
627 Service Name : ABLE
628 ++++++
629 CID : 49
630 Time Since Last Arrival : 2
631 Arrival Time : 98
632 Service Time : 4
633 Time Server Begins : 98
634 Time Customer waits in Queue : 0
635 Time Service End : 102
636 Time Customer Spends in System : 4
637 Idle Time of Server : 0
638 Random Digit for Service Time : 77
639 Random Digit for Arrival Time : 41
640 Service Name : ABLE
641 ++++++
642 CID : 50
643 Time Since Last Arrival : 1
644 Arrival Time : 99
645 Service Time : 6
646 Time Server Begins : 99
647 Time Customer waits in Queue : 0
648 Time Service End : 105
649 Time Customer Spends in System : 6
```

```
650 Idle Time of Server : 6
651 Random Digit for Service Time : 93
652 Random Digit for Arrival Time : 25
653 Service Name : BACKER
654 ++++++
655 CID : 51
656 Time Since Last Arrival : 2
657 Arrival Time : 101
658 Service Time : 2
659 Time Server Begins : 102
660 Time Customer waits in Queue : 1
661 Time Service End : 104
662 Time Customer Spends in System : 3
663 Idle Time of Server : 0
664 Random Digit for Service Time : 21
665 Random Digit for Arrival Time : 51
666 Service Name : ABLE
667 ++++++
668 CID : 52
669 Time Since Last Arrival : 2
670 Arrival Time : 103
671 Service Time : 4
672 Time Server Begins : 104
673 Time Customer waits in Queue : 1
674 Time Service End : 108
675 Time Customer Spends in System : 5
676 Idle Time of Server : 0
677 Random Digit for Service Time : 62
678 Random Digit for Arrival Time : 28
679 Service Name : ABLE
680 ++++++
681 CID : 53
682 Time Since Last Arrival : 1
683 Arrival Time : 104
684 Service Time : 6
685 Time Server Begins : 105
686 Time Customer waits in Queue : 1
687 Time Service End : 111
688 Time Customer Spends in System : 7
689 Idle Time of Server : 0
690 Random Digit for Service Time : 93
691 Random Digit for Arrival Time : 18
692 Service Name : BACKER
693 ++++++
694 CID : 54
695 Time Since Last Arrival : 3
696 Arrival Time : 107
697 Service Time : 4
698 Time Server Begins : 108
699 Time Customer waits in Queue : 1
700 Time Service End : 112
701 Time Customer Spends in System : 5
702 Idle Time of Server : 0
703 Random Digit for Service Time : 81
704 Random Digit for Arrival Time : 67
705 Service Name : ABLE
706 ++++++
707 CID : 55
708 Time Since Last Arrival : 1
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```
709 Arrival Time : 108
710 Service Time : 5
711 Time Server Begins : 111
712 Time Customer waits in Queue : 3
713 Time Service End : 116
714 Time Customer Spends in System : 8
715 Idle Time of Server : 0
716 Random Digit for Service Time : 73
717 Random Digit for Arrival Time : 17
718 Service Name : BACKER
719 ++++++
720 CID : 56
721 Time Since Last Arrival : 2
722 Arrival Time : 110
723 Service Time : 3
724 Time Server Begins : 112
725 Time Customer waits in Queue : 2
726 Time Service End : 115
727 Time Customer Spends in System : 5
728 Idle Time of Server : 0
729 Random Digit for Service Time : 49
730 Random Digit for Arrival Time : 63
731 Service Name : ABLE
732 ++++++
733 CID : 57
734 Time Since Last Arrival : 4
735 Arrival Time : 114
736 Service Time : 3
737 Time Server Begins : 115
738 Time Customer waits in Queue : 1
739 Time Service End : 118
740 Time Customer Spends in System : 4
741 Idle Time of Server : 0
742 Random Digit for Service Time : 31
743 Random Digit for Arrival Time : 86
744 Service Name : ABLE
745 ++++++
746 CID : 58
747 Time Since Last Arrival : 2
748 Arrival Time : 116
749 Service Time : 3
750 Time Server Begins : 116
751 Time Customer waits in Queue : 0
752 Time Service End : 119
753 Time Customer Spends in System : 3
754 Idle Time of Server : 0
755 Random Digit for Service Time : 5
756 Random Digit for Arrival Time : 47
757 Service Name : BACKER
758 ++++++
759 CID : 59
760 Time Since Last Arrival : 3
761 Arrival Time : 119
762 Service Time : 3
763 Time Server Begins : 119
764 Time Customer waits in Queue : 0
765 Time Service End : 122
766 Time Customer Spends in System : 3
767 Idle Time of Server : 1
```

```
768 Random Digit for Service Time : 38
769 Random Digit for Arrival Time : 70
770 Service Name : ABLE
771 ++++++
772 CID : 60
773 Time Since Last Arrival : 4
774 Arrival Time : 123
775 Service Time : 4
776 Time Server Begins : 123
777 Time Customer waits in Queue : 0
778 Time Service End : 127
779 Time Customer Spends in System : 4
780 Idle Time of Server : 1
781 Random Digit for Service Time : 70
782 Random Digit for Arrival Time : 99
783 Service Name : ABLE
784 ++++++
785 CID : 61
786 Time Since Last Arrival : 1
787 Arrival Time : 124
788 Service Time : 4
789 Time Server Begins : 124
790 Time Customer waits in Queue : 0
791 Time Service End : 128
792 Time Customer Spends in System : 4
793 Idle Time of Server : 5
794 Random Digit for Service Time : 60
795 Random Digit for Arrival Time : 2
796 Service Name : BACKER
797 ++++++
798 CID : 62
799 Time Since Last Arrival : 4
800 Arrival Time : 128
801 Service Time : 5
802 Time Server Begins : 128
803 Time Customer waits in Queue : 0
804 Time Service End : 133
805 Time Customer Spends in System : 5
806 Idle Time of Server : 1
807 Random Digit for Service Time : 93
808 Random Digit for Arrival Time : 91
809 Service Name : ABLE
810 ++++++
811 CID : 63
812 Time Since Last Arrival : 3
813 Arrival Time : 131
814 Service Time : 3
815 Time Server Begins : 131
816 Time Customer waits in Queue : 0
817 Time Service End : 134
818 Time Customer Spends in System : 3
819 Idle Time of Server : 3
820 Random Digit for Service Time : 35
821 Random Digit for Arrival Time : 71
822 Service Name : BACKER
823 ++++++
824 CID : 64
825 Time Since Last Arrival : 2
826 Arrival Time : 133
```

```
827 Service Time : 4
828 Time Server Begins : 133
829 Time Customer waits in Queue : 0
830 Time Service End : 137
831 Time Customer Spends in System : 4
832 Idle Time of Server : 0
833 Random Digit for Service Time : 65
834 Random Digit for Arrival Time : 42
835 Service Name : ABLE
836 ++++++
837 CID : 65
838 Time Since Last Arrival : 2
839 Arrival Time : 135
840 Service Time : 6
841 Time Server Begins : 135
842 Time Customer waits in Queue : 0
843 Time Service End : 141
844 Time Customer Spends in System : 6
845 Idle Time of Server : 1
846 Random Digit for Service Time : 82
847 Random Digit for Arrival Time : 63
848 Service Name : BACKER
849 ++++++
850 CID : 66
851 Time Since Last Arrival : 2
852 Arrival Time : 137
853 Service Time : 3
854 Time Server Begins : 137
855 Time Customer waits in Queue : 0
856 Time Service End : 140
857 Time Customer Spends in System : 3
858 Idle Time of Server : 0
859 Random Digit for Service Time : 40
860 Random Digit for Arrival Time : 48
861 Service Name : ABLE
862 ++++++
863 CID : 67
864 Time Since Last Arrival : 2
865 Arrival Time : 139
866 Service Time : 0
867 Time Server Begins : 140
868 Time Customer waits in Queue : 1
869 Time Service End : 140
870 Time Customer Spends in System : 1
871 Idle Time of Server : 0
872 Random Digit for Service Time : 0
873 Random Digit for Arrival Time : 30
874 Service Name : ABLE
875 ++++++
876 CID : 68
877 Time Since Last Arrival : 3
878 Arrival Time : 142
879 Service Time : 2
880 Time Server Begins : 142
881 Time Customer waits in Queue : 0
882 Time Service End : 144
883 Time Customer Spends in System : 2
884 Idle Time of Server : 2
885 Random Digit for Service Time : 11
```

```
886 Random Digit for Arrival Time : 83
887 Service Name : ABLE
888 ++++++
889 CID : 69
890 Time Since Last Arrival : 2
891 Arrival Time : 144
892 Service Time : 2
893 Time Server Begins : 144
894 Time Customer waits in Queue : 0
895 Time Service End : 146
896 Time Customer Spends in System : 2
897 Idle Time of Server : 0
898 Random Digit for Service Time : 3
899 Random Digit for Arrival Time : 52
900 Service Name : ABLE
901 ++++++
902 CID : 70
903 Time Since Last Arrival : 4
904 Arrival Time : 148
905 Service Time : 5
906 Time Server Begins : 148
907 Time Customer waits in Queue : 0
908 Time Service End : 153
909 Time Customer Spends in System : 5
910 Idle Time of Server : 2
911 Random Digit for Service Time : 99
912 Random Digit for Arrival Time : 91
913 Service Name : ABLE
914 ++++++
915 CID : 71
916 Time Since Last Arrival : 2
917 Arrival Time : 150
918 Service Time : 3
919 Time Server Begins : 150
920 Time Customer waits in Queue : 0
921 Time Service End : 153
922 Time Customer Spends in System : 3
923 Idle Time of Server : 9
924 Random Digit for Service Time : 32
925 Random Digit for Arrival Time : 61
926 Service Name : BACKER
927 ++++++
928 CID : 72
929 Time Since Last Arrival : 1
930 Arrival Time : 151
931 Service Time : 3
932 Time Server Begins : 153
933 Time Customer waits in Queue : 2
934 Time Service End : 156
935 Time Customer Spends in System : 5
936 Idle Time of Server : 0
937 Random Digit for Service Time : 48
938 Random Digit for Arrival Time : 4
939 Service Name : ABLE
940 ++++++
941 CID : 73
942 Time Since Last Arrival : 1
943 Arrival Time : 152
944 Service Time : 3
```



```
945 Time Server Begins : 153
946 Time Customer waits in Queue : 1
947 Time Service End : 156
948 Time Customer Spends in System : 4
949 Idle Time of Server : 0
950 Random Digit for Service Time : 3
951 Random Digit for Arrival Time : 21
952 Service Name : BACKER
953 ++++++
954 CID : 74
955 Time Since Last Arrival : 1
956 Arrival Time : 153
957 Service Time : 5
958 Time Server Begins : 156
959 Time Customer waits in Queue : 3
960 Time Service End : 161
961 Time Customer Spends in System : 8
962 Idle Time of Server : 0
963 Random Digit for Service Time : 96
964 Random Digit for Arrival Time : 2
965 Service Name : ABLE
966 ++++++
967 CID : 75
968 Time Since Last Arrival : 4
969 Arrival Time : 157
970 Service Time : 3
971 Time Server Begins : 157
972 Time Customer waits in Queue : 0
973 Time Service End : 160
974 Time Customer Spends in System : 3
975 Idle Time of Server : 1
976 Random Digit for Service Time : 18
977 Random Digit for Arrival Time : 99
978 Service Name : BACKER
979 ++++++
980 CID : 76
981 Time Since Last Arrival : 2
982 Arrival Time : 159
983 Service Time : 3
984 Time Server Begins : 160
985 Time Customer waits in Queue : 1
986 Time Service End : 163
987 Time Customer Spends in System : 4
988 Idle Time of Server : 0
989 Random Digit for Service Time : 4
990 Random Digit for Arrival Time : 65
991 Service Name : BACKER
992 ++++++
993 CID : 77
994 Time Since Last Arrival : 2
995 Arrival Time : 161
996 Service Time : 3
997 Time Server Begins : 161
998 Time Customer waits in Queue : 0
999 Time Service End : 164
1000 Time Customer Spends in System : 3
1001 Idle Time of Server : 0
1002 Random Digit for Service Time : 36
1003 Random Digit for Arrival Time : 61
```

```
1004 Service Name : ABLE
1005 ++++++
1006 CID : 78
1007 Time Since Last Arrival : 2
1008 Arrival Time : 163
1009 Service Time : 3
1010 Time Server Begins : 163
1011 Time Customer waits in Queue : 0
1012 Time Service End : 166
1013 Time Customer Spends in System : 3
1014 Idle Time of Server : 0
1015 Random Digit for Service Time : 18
1016 Random Digit for Arrival Time : 38
1017 Service Name : BACKER
1018 ++++++
1019 CID : 79
1020 Time Since Last Arrival : 3
1021 Arrival Time : 166
1022 Service Time : 2
1023 Time Server Begins : 166
1024 Time Customer waits in Queue : 0
1025 Time Service End : 168
1026 Time Customer Spends in System : 2
1027 Idle Time of Server : 2
1028 Random Digit for Service Time : 4
1029 Random Digit for Arrival Time : 78
1030 Service Name : ABLE
1031 ++++++
1032 CID : 80
1033 Time Since Last Arrival : 2
1034 Arrival Time : 168
1035 Service Time : 4
1036 Time Server Begins : 168
1037 Time Customer waits in Queue : 0
1038 Time Service End : 172
1039 Time Customer Spends in System : 4
1040 Idle Time of Server : 0
1041 Random Digit for Service Time : 79
1042 Random Digit for Arrival Time : 57
1043 Service Name : ABLE
1044 ++++++
1045 CID : 81
1046 Time Since Last Arrival : 3
1047 Arrival Time : 171
1048 Service Time : 3
1049 Time Server Begins : 171
1050 Time Customer waits in Queue : 0
1051 Time Service End : 174
1052 Time Customer Spends in System : 3
1053 Idle Time of Server : 5
1054 Random Digit for Service Time : 25
1055 Random Digit for Arrival Time : 84
1056 Service Name : BACKER
1057 ++++++
1058 CID : 82
1059 Time Since Last Arrival : 1
1060 Arrival Time : 172
1061 Service Time : 2
1062 Time Server Begins : 172
```

```
1063 Time Customer waits in Queue : 0
1064 Time Service End : 174
1065 Time Customer Spends in System : 2
1066 Idle Time of Server : 0
1067 Random Digit for Service Time : 7
1068 Random Digit for Arrival Time : 14
1069 Service Name : ABLE
1070 ++++++
1071 CID : 83
1072 Time Since Last Arrival : 1
1073 Arrival Time : 173
1074 Service Time : 2
1075 Time Server Begins : 174
1076 Time Customer waits in Queue : 1
1077 Time Service End : 176
1078 Time Customer Spends in System : 3
1079 Idle Time of Server : 0
1080 Random Digit for Service Time : 4
1081 Random Digit for Arrival Time : 23
1082 Service Name : ABLE
1083 ++++++
1084 CID : 84
1085 Time Since Last Arrival : 4
1086 Arrival Time : 177
1087 Service Time : 5
1088 Time Server Begins : 177
1089 Time Customer waits in Queue : 0
1090 Time Service End : 182
1091 Time Customer Spends in System : 5
1092 Idle Time of Server : 1
1093 Random Digit for Service Time : 89
1094 Random Digit for Arrival Time : 97
1095 Service Name : ABLE
1096 ++++++
1097 CID : 85
1098 Time Since Last Arrival : 4
1099 Arrival Time : 181
1100 Service Time : 4
1101 Time Server Begins : 181
1102 Time Customer waits in Queue : 0
1103 Time Service End : 185
1104 Time Customer Spends in System : 4
1105 Idle Time of Server : 7
1106 Random Digit for Service Time : 52
1107 Random Digit for Arrival Time : 86
1108 Service Name : BACKER
1109 ++++++
1110 CID : 86
1111 Time Since Last Arrival : 1
1112 Arrival Time : 182
1113 Service Time : 3
1114 Time Server Begins : 182
1115 Time Customer waits in Queue : 0
1116 Time Service End : 185
1117 Time Customer Spends in System : 3
1118 Idle Time of Server : 0
1119 Random Digit for Service Time : 42
1120 Random Digit for Arrival Time : 7
1121 Service Name : ABLE
```

```
1122 ++++++
1123 CID : 87
1124 Time Since Last Arrival : 2
1125 Arrival Time : 184
1126 Service Time : 2
1127 Time Server Begins : 185
1128 Time Customer waits in Queue : 1
1129 Time Service End : 187
1130 Time Customer Spends in System : 3
1131 Idle Time of Server : 0
1132 Random Digit for Service Time : 27
1133 Random Digit for Arrival Time : 59
1134 Service Name : ABLE
1135 ++++++
1136 CID : 88
1137 Time Since Last Arrival : 1
1138 Arrival Time : 185
1139 Service Time : 3
1140 Time Server Begins : 185
1141 Time Customer waits in Queue : 0
1142 Time Service End : 188
1143 Time Customer Spends in System : 3
1144 Idle Time of Server : 0
1145 Random Digit for Service Time : 9
1146 Random Digit for Arrival Time : 8
1147 Service Name : BACKER
1148 ++++++
1149 CID : 89
1150 Time Since Last Arrival : 3
1151 Arrival Time : 188
1152 Service Time : 2
1153 Time Server Begins : 188
1154 Time Customer waits in Queue : 0
1155 Time Service End : 190
1156 Time Customer Spends in System : 2
1157 Idle Time of Server : 1
1158 Random Digit for Service Time : 5
1159 Random Digit for Arrival Time : 85
1160 Service Name : ABLE
1161 ++++++
1162 CID : 90
1163 Time Since Last Arrival : 3
1164 Arrival Time : 191
1165 Service Time : 4
1166 Time Server Begins : 191
1167 Time Customer waits in Queue : 0
1168 Time Service End : 195
1169 Time Customer Spends in System : 4
1170 Idle Time of Server : 1
1171 Random Digit for Service Time : 68
1172 Random Digit for Arrival Time : 72
1173 Service Name : ABLE
1174 ++++++
1175 CID : 91
1176 Time Since Last Arrival : 2
1177 Arrival Time : 193
1178 Service Time : 5
1179 Time Server Begins : 193
1180 Time Customer waits in Queue : 0
```

```
1181 Time Service End : 198
1182 Time Customer Spends in System : 5
1183 Idle Time of Server : 5
1184 Random Digit for Service Time : 68
1185 Random Digit for Arrival Time : 58
1186 Service Name : BACKER
1187 ++++++
1188 CID : 92
1189 Time Since Last Arrival : 2
1190 Arrival Time : 195
1191 Service Time : 3
1192 Time Server Begins : 195
1193 Time Customer waits in Queue : 0
1194 Time Service End : 198
1195 Time Customer Spends in System : 3
1196 Idle Time of Server : 0
1197 Random Digit for Service Time : 34
1198 Random Digit for Arrival Time : 41
1199 Service Name : ABLE
1200 ++++++
1201 CID : 93
1202 Time Since Last Arrival : 1
1203 Arrival Time : 196
1204 Service Time : 4
1205 Time Server Begins : 198
1206 Time Customer waits in Queue : 2
1207 Time Service End : 202
1208 Time Customer Spends in System : 6
1209 Idle Time of Server : 0
1210 Random Digit for Service Time : 81
1211 Random Digit for Arrival Time : 25
1212 Service Name : ABLE
1213 ++++++
1214 CID : 94
1215 Time Since Last Arrival : 4
1216 Arrival Time : 200
1217 Service Time : 3
1218 Time Server Begins : 200
1219 Time Customer waits in Queue : 0
1220 Time Service End : 203
1221 Time Customer Spends in System : 3
1222 Idle Time of Server : 2
1223 Random Digit for Service Time : 29
1224 Random Digit for Arrival Time : 94
1225 Service Name : BACKER
1226 ++++++
1227 CID : 95
1228 Time Since Last Arrival : 2
1229 Arrival Time : 202
1230 Service Time : 4
1231 Time Server Begins : 202
1232 Time Customer waits in Queue : 0
1233 Time Service End : 206
1234 Time Customer Spends in System : 4
1235 Idle Time of Server : 0
1236 Random Digit for Service Time : 77
1237 Random Digit for Arrival Time : 54
1238 Service Name : ABLE
1239 ++++++
```

```
1240 CID : 96
1241 Time Since Last Arrival : 2
1242 Arrival Time : 204
1243 Service Time : 6
1244 Time Server Begins : 204
1245 Time Customer waits in Queue : 0
1246 Time Service End : 210
1247 Time Customer Spends in System : 6
1248 Idle Time of Server : 1
1249 Random Digit for Service Time : 91
1250 Random Digit for Arrival Time : 49
1251 Service Name : BACKER
1252 ++++++
1253 CID : 97
1254 Time Since Last Arrival : 2
1255 Arrival Time : 206
1256 Service Time : 2
1257 Time Server Begins : 206
1258 Time Customer waits in Queue : 0
1259 Time Service End : 208
1260 Time Customer Spends in System : 2
1261 Idle Time of Server : 0
1262 Random Digit for Service Time : 20
1263 Random Digit for Arrival Time : 55
1264 Service Name : ABLE
1265 ++++++
1266 CID : 98
1267 Time Since Last Arrival : 1
1268 Arrival Time : 207
1269 Service Time : 4
1270 Time Server Begins : 208
1271 Time Customer waits in Queue : 1
1272 Time Service End : 212
1273 Time Customer Spends in System : 5
1274 Idle Time of Server : 0
1275 Random Digit for Service Time : 83
1276 Random Digit for Arrival Time : 25
1277 Service Name : ABLE
1278 ++++++
1279 CID : 99
1280 Time Since Last Arrival : 3
1281 Arrival Time : 210
1282 Service Time : 4
1283 Time Server Begins : 210
1284 Time Customer waits in Queue : 0
1285 Time Service End : 214
1286 Time Customer Spends in System : 4
1287 Idle Time of Server : 0
1288 Random Digit for Service Time : 56
1289 Random Digit for Arrival Time : 85
1290 Service Name : BACKER
1291 ++++++
1292 CID : 100
1293 Time Since Last Arrival : 1
1294 Arrival Time : 211
1295 Service Time : 2
1296 Time Server Begins : 212
1297 Time Customer waits in Queue : 1
1298 Time Service End : 214
```

```
1299 Time Customer Spends in System : 3
1300 Idle Time of Server : 0
1301 Random Digit for Service Time : 11
1302 Random Digit for Arrival Time : 24
1303 Service Name : ABLE
1304 ++++++
1305 ABLE CALCULATIONS :
1306 ABLE average waiting time for a customer : 1.2258064516129032
1307 ABLE probably that a customer has to wait in queue : 0.532258064516
1308 ABLE fraction of idle time of the server : 0.07009345794392523
1309 ABLE probably of the server being busy : 0.9299065420560748
1310 ABLE average service time : 3.2096774193548385
1311 ABLE expected value : 3.29
1312 ABLE average time between arrivals : 3.459016393442623
1313 ABLE discrete uniform distribution : 2.5
1314 ABLE average waiting time of those who wait : 2.303030303030303
1315 ABLE average time a customer spends in the system : 4.435483870967
1316 ABLE average time customer spends in the system : 4.4354838709677
1317 The able customer : 62
1318 The backer customer : 38
1319 ++++++
1320 BACKER CALCULATIONS :
1321 BACKER average waiting time for a customer : 1.263157894736842
1322 BACKER probably that a customer has to wait in queue : 0.368421052
1323 BACKER fraction of idle time of the server : 0.24766355140186916
1324 BACKER probably of the server being busy : 0.7523364485981309
1325 BACKER average service time : 4.184210526315789
1326 BACKER expected value : 4.25
1327 BACKER average time between arrivals : 5.675675675675675
1328 BACKER discrete uniform distribution : 2.5
1329 BACKER average waiting time of those who wait : 3.428571428571428
1330 BACKER average time a customer spends in the system : 5.447368421
1331 BACKER average time customer spends in the system : 5.4473684210
1332 The able customer : 62
1333 The backer customer : 38
1334 Excel written successfully..
1335
1336 Process finished with exit code 0
1337
```