Wait Time Simulation Results:

Utilizing Linked Queues:

Arrival Rate: 18.

Average wait time using 1 queue: 319. Average time for those (11560) still in line: 320. Longest: 647.

Average wait time using 2 queues: 279. Average time for those (10046) still in line: 280. Longest: 568.

Average wait time using 3 queues: 239. Average time for those (8633) still in line: 240. Longest: 488.

Average wait time using 4 queues: 199. Average time for those (7203) still in line: 200. Longest: 409.

Average wait time using 5 queues: 159. Average time for those (5784) still in line: 160. Longest: 331.

Average wait time using 6 queues: 119. Average time for those (4328) still in line: 120. Longest: 252.

Average wait time using 7 queues: 79. Average time for those (2879) still in line: 80. Longest: 175.

Average wait time using 8 queues: 39. Average time for those (1465) still in line: 41. Longest: 91.

Average wait time using 9 queues: 2. Average time for those (93) still in line: 4. Longest: 15.

Average wait time using 10 queues: 0. Average time for those (3) still in line: 1. Longest: 1.

Utilizing Linked Deques:

Arrival Rate: 18.

Average wait time using 1 queue: 0. Average time for those (11497) still in line: 360. Longest: 720.

Average wait time using 2 queues: 0. Average time for those (10090) still in line: 361. Longest: 720.

Average wait time using 3 queues: 0. Average time for those (8641) still in line: 360. Longest: 720.

Average wait time using 4 queues: 0. Average time for those (7200) still in line: 360. Longest: 720.

Average wait time using 5 queues: 8. Average time for those (5762) still in line: 349. Longest: 720.

Average wait time using 6 queues: 31. Average time for those (4306) still in line: 296. Longest: 667.

Average wait time using 7 queues: 38. Average time for those (2859) still in line: 225. Longest: 561.

Average wait time using 8 queues: 27. Average time for those (1470) still in line: 134. Longest: 401.

Average wait time using 9 queues: 2. Average time for those (81) still in line: 13. Longest: 105.

Average wait time using 10 queues: 0. Average time for those (2) still in line: 1. Longest: 5.

Utilizing Linked Stacks:

Arrival Rate: 18.

Average wait time using 1 queue: 0. Average time for those (11503) still in line: 360. Longest: 720.

Average wait time using 2 queues: 0. Average time for those (10066) still in line: 360. Longest: 720.

Average wait time using 3 queues: 0. Average time for those (8644) still in line: 360. Longest: 720.

Average wait time using 4 queues: 0. Average time for those (7186) still in line: 360. Longest: 720.

Average wait time using 5 queues: 0. Average time for those (5785) still in line: 361. Longest: 720.

Average wait time using 6 queues: 0. Average time for those (4350) still in line: 360. Longest: 720.

Average wait time using 7 queues: 0. Average time for those (2871) still in line: 359. Longest: 720.

Average wait time using 8 queues: 0. Average time for those (1455) still in line: 361. Longest: 720.

Average wait time using 9 queues: 1. Average time for those (87) still in line: 228. Longest: 720.

Average wait time using 10 queues: 0. Average time for those (2) still in line: 6. Longest: 34.