Lab 4 Write Up

The actual status of working and non-working in this assignment seemed really ambiguous to us, but here is some snippets of our console output. Thank you for your time.

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40 | SPAWNING |
                  @ floor 4 | 4 new passengers have requested to go to floor 0
80 | SPAWNING | @ floor 4 | 4 new passengers have requested to go to floor 0
80 | PICKUP | eID 1 @ floor 4 | picked up passengers, currently heading to floor 0
100 | SPAWNING | @ floor_0 | 2 new passengers have requested to go to floor 4
100 | SPAWNING |
                     @ floor 4 | 6 new passengers have requested to go to floor 2
120 | SPAWNING | @ floor 4 | 4 new passengers have requested to go to floor 0
120 | DROPOFF | eID 1 @ floor 0 | dropped off 8 passengers
120 | PICKUP | eID_3 @ floor_0 | picked up passengers, currently heading to floor 4
140 | PICKUP
              | eID_0 @ floor_4 | picked up passengers, currently heading to floor 2
160 | DROPOFF | eID_3 @ floor_4 | dropped off 2 passengers
160 | SPAWNING |
                    @ floor_4 | 4 new passengers have requested to go to floor 0
180 | DROPOFF | eID 0 @ floor 0 | dropped off 4 passengers
200 | SPAWNING | @ floor_0 | 2 new passengers have requested to go to floor 4
200 | SPAWNING |
                     @ floor 1 | 1 new passengers have requested to go to floor 4
200 | SPAWNING |
                     @ floor 2 | 5 new passengers have requested to go to floor 0
200 | SPAWNING |
                     @ floor 3 | 4 new passengers have requested to go to floor 0
200 | SPAWNING | G floor_3 | 4 new passengers have requested to go to floor 0

200 | SPAWNING | G floor_4 | 6 new passengers have requested to go to floor 2

200 | SPAWNING | G floor 4 | 4 new passengers have requested to go to floor 0
200 | SPAWNING |
                      @ floor 4 | 4 new passengers have requested to go to floor 0
200 | PICKUP | eID_2 @ floor_4 | picked up passengers, currently heading to floor 2
220 | PICKUP | eID_1 @ floor_0 | picked up passengers, currently heading to floor 4
230 | PICKUP | eID_4 @ floor_2 | picked up passengers, currently heading to floor 0
235 | PICKUP | eID_3 @ floor_1 | picked up passengers, currently heading to floor 4
240 | DROPOFF | eID 2 @ floor 0 | dropped off 8 passengers
240 | SPAWNING |
                       @ floor 4 | 4 new passengers have requested to go to floor 0
260 | DROPOFF | eID 4 @ floor 0 | dropped off 5 passengers
260 | DROPOFF | eID 1 @ floor 4 | dropped off 2 passengers
270 | DROPOFF | eID_3 @ floor_4 | dropped off 1 passengers
280 | SPAWNING |
                       @ floor 4 | 4 new passengers have requested to go to floor 0
280 | PICKUP | eID_1 @ floor_4 | picked up passengers, currently heading to floor 0
295 | PICKUP | eID 4 @ floor 3 | picked up passengers, currently heading to floor 0
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320 | SPAWNING |
                  @ floor 4 | 4 new passengers have requested to go to floor 0
320 | DROPOFF | eID 1 @ floor 0 | dropped off 8 passengers
330 | DROPOFF | eID 4 @ floor 0 | dropped off 4 passengers
340 | PICKUP | eID 3 @ floor 0 | picked up passengers, currently heading to floor 4
360 | SPAWNING |
                    @ floor 4 | 4 new passengers have requested to go to floor 0
360 | PICKUP | eID_1 @ floor_4 | picked up passengers, currently heading to floor 3
370 | DROPOFF | eID 3 @ floor 2 | dropped off 5 passengers
380 | DROPOFF | eID 3 @ floor 4 | dropped off 2 passengers
400 | SPAWNING |
                 @ floor 0 | 2 new passengers have requested to go to floor 4
400 | DROPOFF | eID 1 @ floor 0 | dropped off 8 passengers
400 | SPAWNING | @ floor_1 | 1 new passengers have requested to go to floor 4
400 | SPAWNING |
                    @ floor_2 | 5 new passengers have requested to go to floor 0
400 | SPAWNING |
                    @ floor 3 | 4 new passengers have requested to go to floor 0
400 | SPAWNING |
                    @ floor 4 | 6 new passengers have requested to go to floor 2
400 | SPAWNING | 0 floor 4 | 4 new passengers have requested to go to floor 0
425 | PICKUP | eID 4 @ floor 1 | picked up passengers, currently heading to floor 4
440 | SPAWNING | @ floor 4 | 4 new passengers have requested to go to floor 0
440 | PICKUP | eID 3 @ floor 0 | picked up passengers, currently heading to floor 4
460 | DROPOFF | eID_4 @ floor_4 | dropped off 1 passengers
480 | DROPOFF | eID_3 @ floor_4 | dropped off 2 passengers
480 | SPAWNING | @ floor_4 | 4 new passengers have requested to go to floor 0
490 | PICKUP | eID_4 @ floor_2 | picked up passengers, currently heading to floor 0
500 | SPAWNING | @ floor_0 | 2 new passengers have requested to go to floor 4
500 | SPAWNING |
                    @ floor 1 | 3 new passengers have requested to go to floor 0
500 | SPAWNING |
                    @ floor 2 | 2 new passengers have requested to go to floor 1
500 | SPAWNING |
                     @ floor 4 | 6 new passengers have requested to go to floor 2
505 | PICKUP | eID 3 @ floor 3 | picked up passengers, currently heading to floor 0
520 | DROPOFF | eID 4 @ floor 0 | dropped off 5 passengers
520 | SPAWNING |
                    @ floor 4 | 4 new passengers have requested to go to floor 0
540 | PICKUP | eID 4 @ floor 0 | picked up passengers, currently heading to floor 4
540 | DROPOFF | eID_3 @ floor_0 | dropped off 4 passengers
560 | SPAWNING |
                    @ floor 4 | 4 new passengers have requested to go to floor 0
565 | PICKUP | eID_3 @ floor_1 | picked up passengers, currently heading to floor 0
```

Here are the final prints:

This elev	vator simulation ran for 1000 simulated seconds where each simulated second is equal to	100 real	l time miliseconds.
Floor 0	Total number of passengers requesting access: 35 Total number of passengers that exited an elevator on this floor: 7 Current number of passengers waiting for an elevator on the floor: 20 Elevator number currently heading towards this floor: -1		
Floor 1 	Total number of passengers requesting access: 11 Total number of passengers that exited an elevator on this floor: 4 Current number of passengers waiting for an elevator on the floor: 6 Elevator number currently heading towards this floor: -1		
Floor 2 - 	Total number of passengers requesting access: 32 Total number of passengers that exited an elevator on this floor: 10 Current number of passengers waiting for an elevator on the floor: 19 Elevator number currently heading towards this floor: -1		
Floor 3 	Total number of passengers requesting access: 20 Total number of passengers that exited an elevator on this floor: 4 Current number of passengers waiting for an elevator on the floor: 12 Elevator number currently heading towards this floor: -1		
Floor 4 	Total number of passengers requesting access: 166 Total number of passengers that exited an elevator on this floor: 12 Current number of passengers waiting for an elevator on the floor: 66 Elevator number currently heading towards this floor: -1		

	ELEVATOR STATES
Elevator 0	Total number of passengers that entered the elevator: 10 Total number of passengers that exited the elevator: 4
	Current number of passengers heading to any floor: 6
Elevator 1	Total number of passengers that entered the elevator: 34 Total number of passengers that exited the elevator: 26 Current number of passengers heading to any floor: 8
Elevator 2	Total number of passengers that entered the elevator: 14
	Total number of passengers that exited the elevator: 8 Current number of passengers heading to any floor: 6
Elevator 3	Total number of passengers that entered the elevator: 63
	Total number of passengers that exited the elevator: 43
	Current number of passengers heading to any floor: 20
Elevator 4	Total number of passengers that entered the elevator: 20
	Total number of passengers that exited the elevator: 22
	Current number of passengers heading to any floor: -2