

```
root@lamp: /root/Desktop/car-park
File Edit Tabs Help
Accumulation sum of car-waiting times in the queue = 762
Accumulation sum of car-parking durations = 1416
The car-park space utilization = 100.00
-----
^CRecieved SIGINT...

-----[SUMMARY]-----
2022-05-06 22:52:20      :   recieved shutdown signal.
2022-05-06 22:52:20      :   car park is shutting down
2022-05-06 22:52:20      :   The valets are leaving.
2022-05-06 22:52:20      :   done 12 valets left.
-----[stats]-----
number of ocupied slots = 16
total number of created cars = 98
total number of allowed to park cars = 34
total number of not allowed to park cars = 50
number of cars currently acquired by in-valets = 6
Accumulation sum of car-waiting times in the queue = 762
Accumulation sum of car-parking durations = 1445
The car-park space utilization = 96.88
-----
2022-05-06 22:52:21      :   monitor exiting...
Simulation started at 2022-05-06 22:49:29
Park Space Capacity was:    16 cars.
Allowed queue length was:    8 cars.
Number of in valets was:    6.
Number of out valets was:    6.
Expected arrivals was:    0.50.
Simulation stopped at:    2022-05-06 22:52:21
CP Simulation was executed for:    172 seconds
Total number of cars processed:    98
Number of cars that parked:    34
Number of cars turned away:    50
Number of cars in transit:    6
Number of cars still queued:    8
Number of cars still parked:    16
Average queue waiting time:    0.000
Average parking time:    0.000
Percentage of park utilization:    96.875%
Fri May 6 22:52:21 2022:    CarPark is closed.
Enter 'c' to close the graphical output
c
root@lamp ~/Desktop/car-park#
```

of actions = 55182

Car Park Simulator



Cars Refused = 1896

Cars Parked = 1063

Cars Left = 1047

In-Valets: 3

35635555

1 2 3

2953950944

Legend: Car Slot Time

READY WAIT FETCH MOVE

Park Full

Avg Queue Wait(s) = 42.33

Avg Parked Time(s) = 90.91

Park Utilization(%) = 100

Out-Valets: 2

524523

1 2

Clock Time: 5:15:3

Queue Full



V2-C2890



T5:11:59

V2-C2939



T5:13:48

V3-C2864



T5:11:4

V1-C2937



T5:13:41

V1-C2895



T5:12:8

V1-C2918



T5:12:59

V1-C2941



T5:13:55

V1-C2909



T5:12:34

V3-C2938



T5:13:43

V2-C2917



T5:12:56

V2-C2936



T5:13:39

V2-C2920



T5:13:9

V3-C2916



T5:12:51

V3-C2935



T5:13:35

V1-C2921



T5:13:10

V3-C2919



T5:13:7

A. M. Al-Qasimi

Car Parking Capacity = 16

22/02/2022

100.00


```
root@lamp: /root/Desktop/car-park
File Edit Tabs Help
Accumulation sum of car-parking durations = 75
The car-park space utilization = 96.88
-----[stats]-----
number of occupied slots = 16
total number of created cars = 26
total number of allowed to park cars = 18
total number of not allowed to park cars = 0
number of cars currently acquired by in-valets = 6
Accumulation sum of car-waiting times in the queue = 1
Accumulation sum of car-parking durations = 75
The car-park space utilization = 100.00
-----[stats]-----
number of occupied slots = 16
total number of created cars = 26
total number of allowed to park cars = 18
total number of not allowed to park cars = 0
number of cars currently acquired by in-valets = 6
Accumulation sum of car-waiting times in the queue = 1
Accumulation sum of car-parking durations = 75
The car-park space utilization = 100.00
```

Car Park Simulator

Cars Refused = 0

Cars Parked = 18

Cars Left = 2

In-Valets: 6

N	4	4	4	4	4	4
U	1	2	3	4	5	6
C	19	20	21	22	23	24

Legend: Car Slot Time
READY WAIT FETCH HOLD

Park Full

Avg Queue Wait(s) = 0.06

Avg Parked Time(s) = 37.50




Park Utilization(%) = 100

Out-Valets: 6

N	1	1	0	0	0	0
U	1	2	3	4	5	6
C	1	2	3	4	5	6

Clock Time: 22:50:19

In-Queue 2 cars  

V4-C16  T22:49:53	V6-C12  T22:49:50	V2-C8  T22:49:42	V5-C5  T22:49:35
V3-C15  T22:49:53	V5-C11  T22:49:47	V1-C7  T22:49:42	V6-C18  T22:49:55
V2-C14  T22:49:52	V4-C10  T22:49:44	V5-C17  T22:49:55	V2-C2  T22:49:34
V1-C13  T22:49:51	V3-C9  T22:49:43	V4-C4  T22:49:34	V1-C1  T22:49:33

A. M. Al-Qasimi Car Parking Capacity = 16 22/02/2022

Car Park Simulator

Cars Refused = 19

Cars Parked = 17

Cars Left = 1

In-Valets: 6

Park Full

Out-Valets: 6

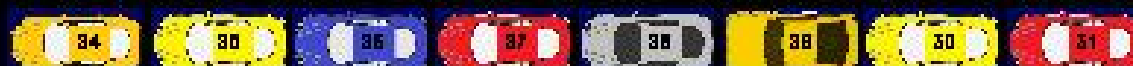
Avg Queue Wait(s) = 0.29

Avg Parked Time(s) = 19

Park Utilization(%) = 100

Clock Time: 22:55:17

Queue Full



V2-C14



T22:54:47

V4-C16



T22:54:48

V3-C15



T22:54:47

V5-C11



T22:54:46

V1-C13



T22:54:46

V6-C12



T22:54:46

V4-C10



T22:54:45

V3-C9



T22:54:45

V2-C8



T22:54:44

V1-C7



T22:54:44

V6-C6



T22:54:44

V5-C17



T22:54:50

V4-C4



T22:54:41

V3-C3



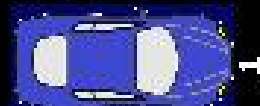
T22:54:40

V2-C2



T22:54:39

V1-C1



T22:54:39

Car Park Simulator



Cars Refused = 23250

Cars Parked = 9608

Cars Left = 9569

In-Valets: 6

NL 6 006 006 006 006 006 006 02
U 1 2 3 4 5 6
C 2 83 283 328 383 383 328 328 45
Legend: Car Slot Time
READY WAIT FETCH HOME

Vacant Slots = 1

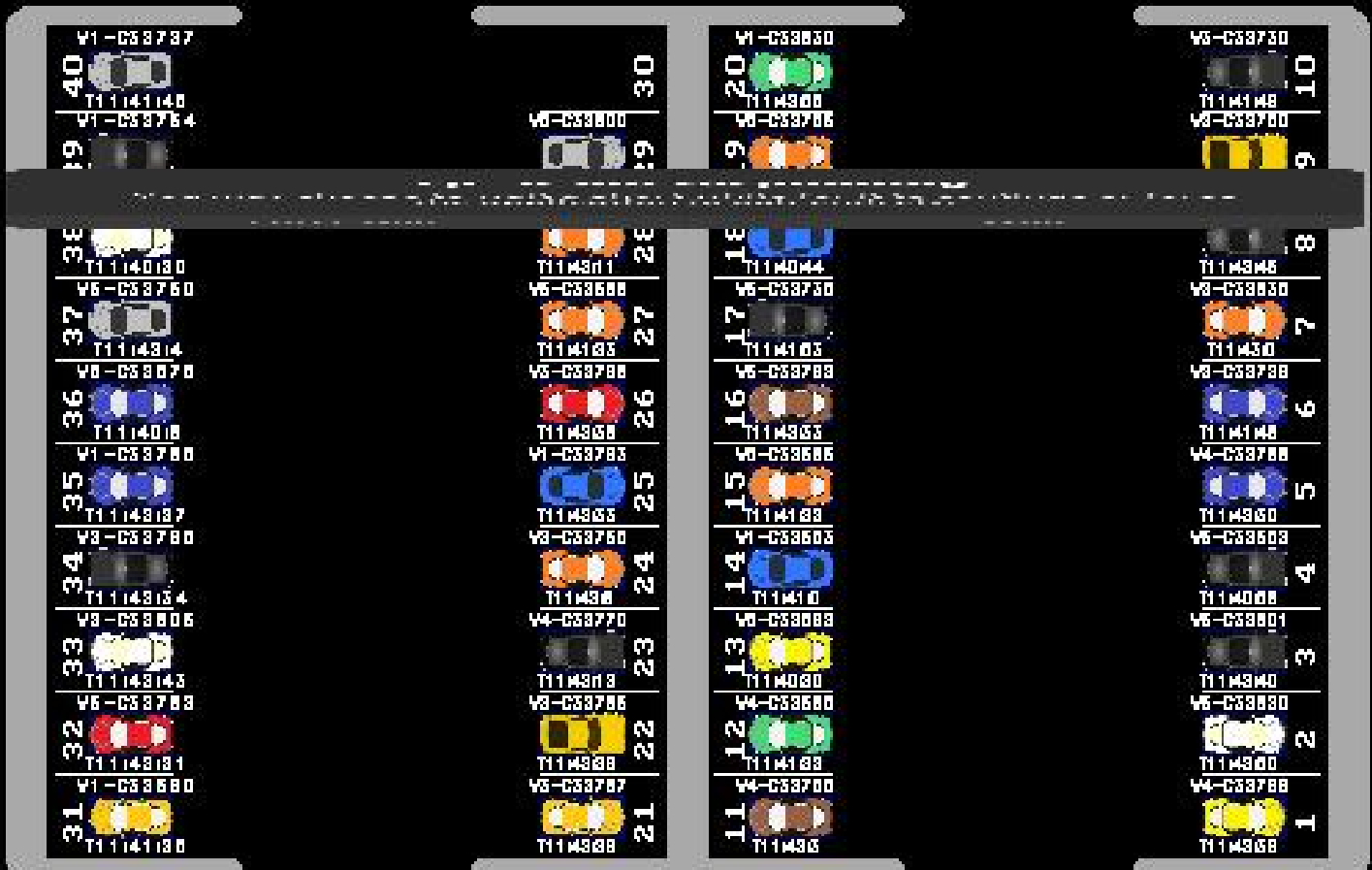
Avg Queue Wait(s) = 17.28
Avg Parked Time(s) = 90.83
Park Utilization(%) = 97.50

Out-Valets: 6

NL 5 955 955 955 955 955 955 94
U 1 2 3 4 5 6
C 32805
S 30
T 15

Clock Time: 11:43:25

In-Queue 7 cars



A. M. Al-Qasimi

Car Parking Capacity = 40

22/02/2022

Car Park Simulator

Cars Refused = 19

Cars Parked = 49

Cars Left = 9

In-Valets: 6

N 10 9 9 9 9 9
U 1 2 3 4 5 6
C 55 50 51 52 53 54
Legend: Car Slot Time
READY WAIT FETCH MOVE

Park Full

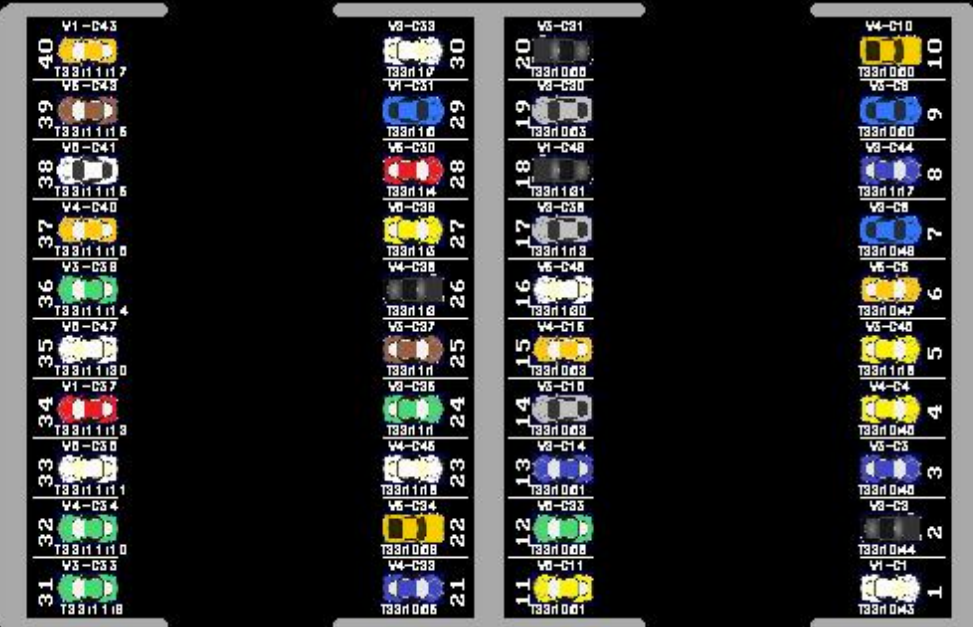
Avg Queue Wait(s) = 0.80
Avg Parked Time(s) = 23.67
Park Utilization(%) = 100

Out-Valets: 6

N 2 2 2 1 1 1
U 1 2 3 4 5 6
C
S
T

Clock Time: 22:11:42

Queue Full



top - 22:11:42 up 8:32, 1 user, load average: 0.96, 1.41, 1.27
Threads: 17 total, 1 running, 16 sleeping, 0 stopped, 0 zombie
%Cpu(s): 44.5 us, 5.3 sy, 0.0 ni, 48.8 id, 0.1 wa, 0.8 hi, 0.4 si, 0.0 st
MiB Mem : 7870.1 total, 1861.4 free, 3201.3 used, 2807.5 buff/cache
MiB Swap: 8469.8 total, 8308.8 free, 161.0 used. 3623.8 avail Mem

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
67934	hesham	20	0	949888	89432	49416	R	99.3	1.1	0:08.70	cp
67924	hesham	20	0	949888	89432	49416	S	13.3	1.1	0:04.50	cp
67917	hesham	20	0	949888	89432	49416	S	0.0	1.1	0:00.16	cp
67918	hesham	20	0	949888	89432	49416	S	0.0	1.1	0:00.00	SDLTimer
67921	hesham	39	19	949888	89432	49416	S	0.0	1.1	0:00.00	cp:disk\$0
67923	hesham	20	0	949888	89432	49416	S	0.0	1.1	0:00.00	cp:gdrv0
67925	hesham	20	0	949888	89432	49416	S	0.0	1.1	0:00.00	cp
67926	hesham	20	0	949888	89432	49416	S	0.0	1.1	0:00.00	cp
67927	hesham	20	0	949888	89432	49416	S	0.0	1.1	0:00.00	cp
67928	hesham	20	0	949888	89432	49416	S	0.0	1.1	0:00.00	cp
67929	hesham	20	0	949888	89432	49416	S	0.0	1.1	0:00.00	cp
67930	hesham	20	0	949888	89432	49416	S	0.0	1.1	0:00.00	cp
67931	hesham	20	0	949888	89432	49416	S	0.0	1.1	0:04.78	cp
67932	hesham	20	0	949888	89432	49416	S	0.0	1.1	0:07.40	cp
67933	hesham	20	0	949888	89432	49416	S	0.0	1.1	0:09.75	cp
67935	hesham	20	0	949888	89432	49416	S	0.0	1.1	0:00.51	cp
67936	hesham	20	0	949888	89432	49416	S	0.0	1.1	0:03.62	cp