

16	3'b0xx	x	06:59:58 AM	72	1	0	0	0	0	0	*	↑	06:59:59 AM	71	1	0	0	0	0	0	70	80	Rush hour is set. From now on, duration calculations will be based on Rush Hour limits.
17	3'b0xx	x	06:59:59 AM	71	1	0	0	0	0	0	*	↑	07:00:00 AM	70	1	0	1	0	0	0	70	80	
18	3'b0xx	x	07:00:00 AM	70	1	0	1	0	0	0	*	↑	07:00:01 AM	69	1	0	1	0	0	0	70	80	
19	⋮																					The red light duration of LightB becomes 70 during this time period.	
20	3'b0xx	x	07:02:21 AM	0	0	0	1	0	0	0	*	↑	07:02:22 AM	70	1	0	1	0	0	0	60	70	Just before LightA turns green, it updates its next red light duration. Since we are at rush hour, limits are changed to min: 30 and max: 60 for LightA. current_turn(70) + 5 = 75, but it is set to 60.
21	⋮																					In mere 3 seconds, 11 cars are added to RoadA by the detector. Please notice that detector works asynchronously, it is triggered by the positive edge of action . In RoadA there are 11 cars. Plates of those cars are: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11.	
22	3'b010	1	07:03:35 AM	58	0	1	1	0	0	0	↑	*	07:03:35 AM	58	0	1	1	1	0	0	60		70
23	3'b010	2	07:03:35 AM	58	0	1	1	1	0	0	↑	*	07:03:35 AM	58	0	1	1	2	0	0	60		70
24	3'b010	3	07:03:35 AM	58	0	1	1	2	0	0	↑	↑	07:03:36 AM	57	0	1	1	3	0	0	60		70
25	3'b010	4	07:03:36 AM	57	0	1	1	3	0	0	↑	*	07:03:36 AM	57	0	1	1	4	0	0	60		70
26	3'b010	5	07:03:36 AM	57	0	1	1	4	0	0	↑	*	07:03:36 AM	57	0	1	1	5	0	0	60		70
27	3'b010	6	07:03:36 AM	57	0	1	1	5	0	0	↑	*	07:03:36 AM	57	0	1	1	6	0	0	60		70
28	3'b010	7	07:03:36 AM	57	0	1	1	6	0	0	↑	*	07:03:36 AM	57	0	1	1	7	0	0	60		70
29	3'b010	8	07:03:36 AM	57	0	1	1	7	0	0	↑	↑	07:03:37 AM	56	0	1	1	8	0	0	60		70
30	3'b010	9	07:03:37 AM	56	0	1	1	8	0	0	↑	*	07:03:37 AM	56	0	1	1	9	0	0	60		70
31	3'b010	10	07:03:37 AM	56	0	1	1	9	0	0	↑	*	07:03:37 AM	56	0	1	1	10	0	0	60		70
32	3'b010	11	07:03:37 AM	56	0	1	1	10	0	0	↑	*	07:03:37 AM	56	0	1	1	11	0	0	60		70
33	⋮																					Car with plate number 1 (which was the first car on RoadA) got bored and passed the intersection during the red light. That plate number is added to the blacklist .	
34	3'b000	x	07:03:47 AM	46	0	1	1	11	0	0	↑	*	07:03:47 AM	46	0	1	1	10	0	0	60		70
35	⋮																						
36	3'b011	29	07:04:36 AM	68	1	0	1	10	0	0	↑	*	07:04:36 AM	68	1	0	1	10	1	0	60	70	After some time, cars with plate numbers 29 and 17 are stopped on RoadB.
37	3'b011	17	07:04:36 AM	68	1	0	1	10	1	0	↑	*	07:04:36 AM	68	1	0	1	10	2	0	60	70	
38	3'b001	x	07:04:36 AM	68	1	0	1	10	2	0	↑	*	07:04:36 AM	68	1	0	1	10	1	0	60	70	Car with plate number 29 (which was the first car on RoadB) got bored passed the intersection during the red light. That plate number is added to the blacklist .
39	3'b1xx	x	07:04:36 AM	68	1	0	1	10	1	0	*	↑	07:04:36 AM	68	1	0	1	10	1	1	60	70	System is in display mode now. Time update operations are paused. blacklistDisplay prints the plate numbers that are available on the blacklist.
40	3'b1xx	x	07:04:36 AM	68	1	0	1	10	1	1	*	↑	07:04:36 AM	68	1	0	1	10	1	29	60	70	
41	3'b1xx	x	07:04:36 AM	68	1	0	1	10	1	29	*	↑	07:04:36 AM	68	1	0	1	10	1	1	60	70	
42	3'b1xx	x	07:04:36 AM	68	1	0	1	10	1	1	*	↑	07:04:36 AM	68	1	0	1	10	1	29	60	70	

43	⋮																				Many hours have passed. It is now about to be midnight. There are no cars on the roads.		
44	3'b0xx	x	11:59:59 PM	75	1	0	0	0	0	29	*	↑	12:00:00 AM	74	1	0	0	0	0	0	70	80	Blacklist should be reset. blacklistDisplay should also be reset.

In this table, " ↑ " represents the rising edge, "*" represents otherwise.