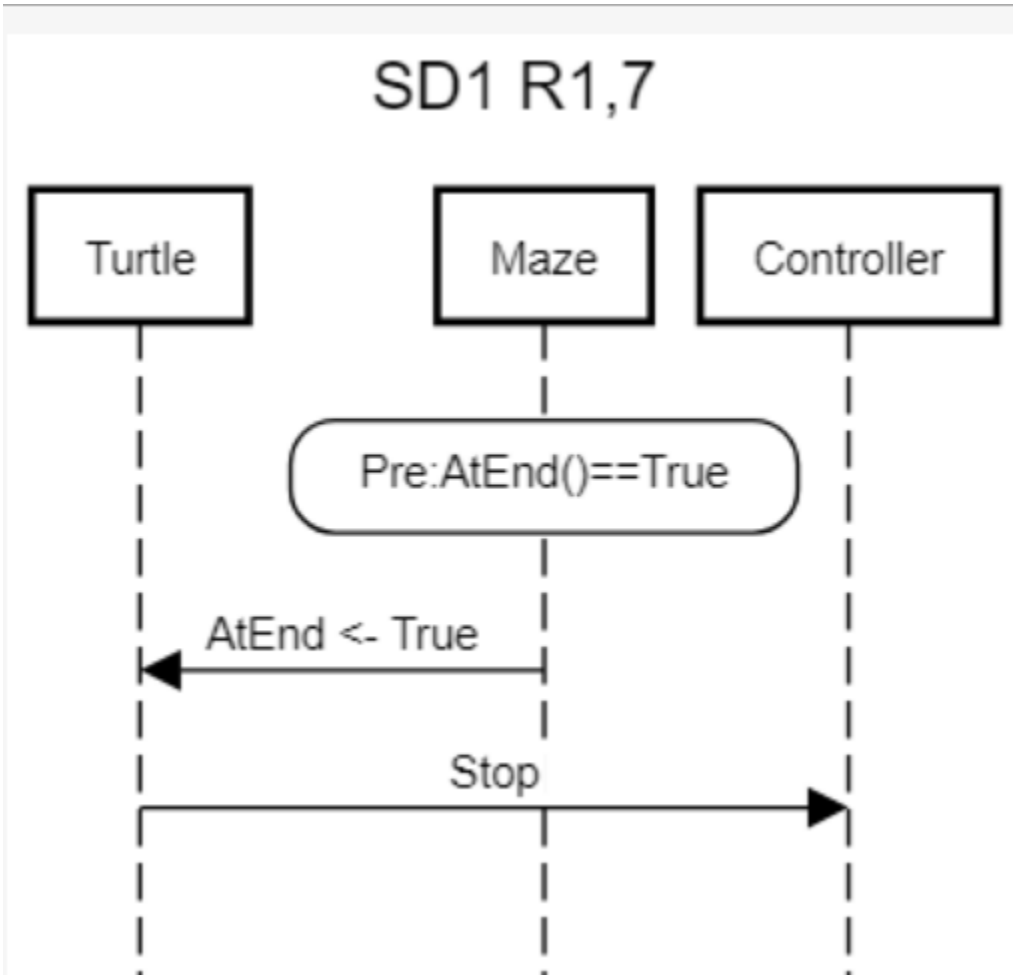
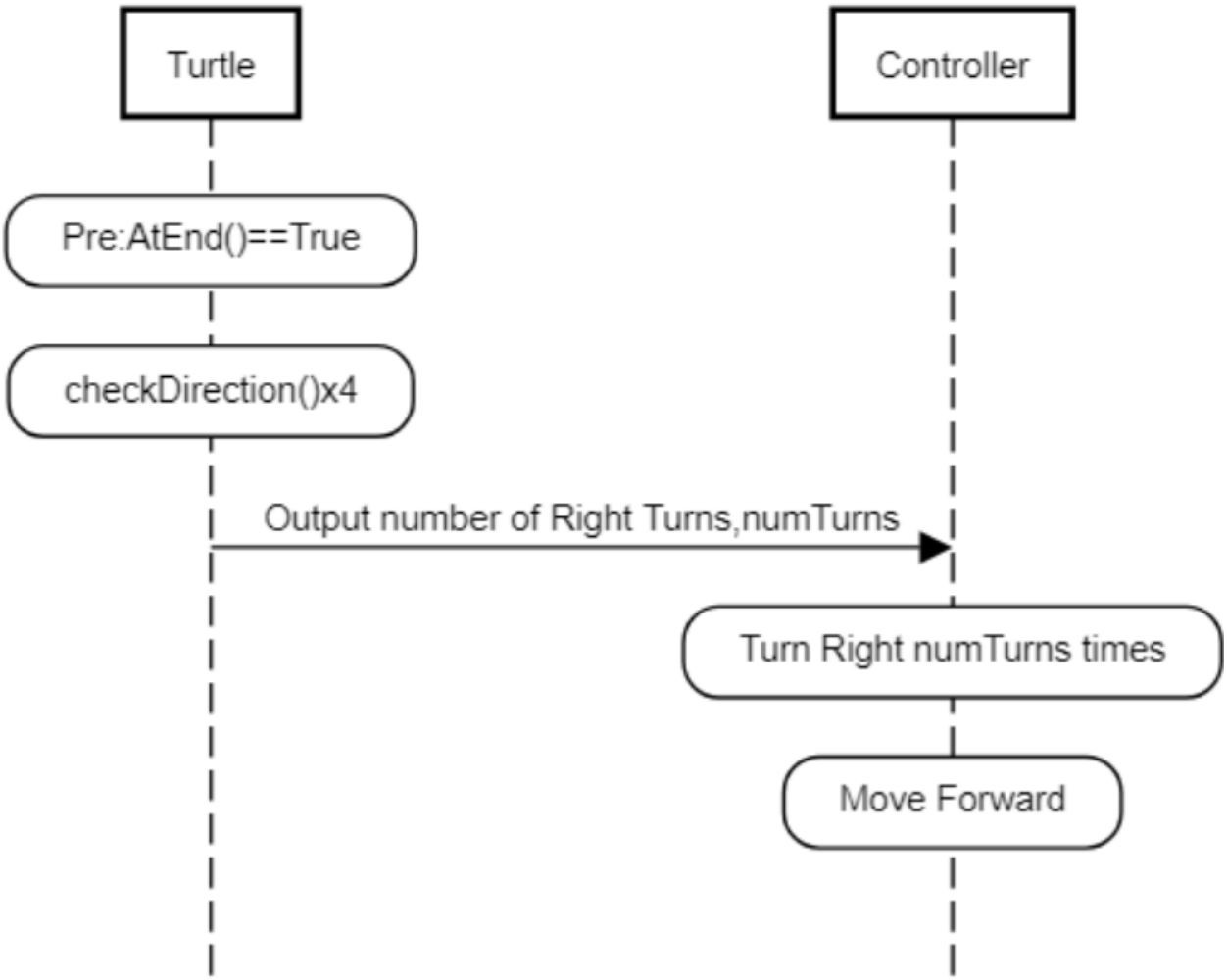
Andrew Chong(achong2)

- Q1: Final High Level Requirements
    - R1. If the turtle has reached the end square of the maze, it shall not move.
    - R2. The Turtle shall check the squares above,below,left,and right to determine if it can move in each direction using a checkDirection function()
    - R3. The Turtle shall check the squares above,below,left,and right of it to record the number of visits each square has.
    - R4. The Turtle shall turn towards and moves toward the square that has the lowest amount of visits out of the squares that are able to move in.
    - R5. The Turtle shall not rotate more than 90 degrees in a single iteration
    - R6. The Turtle shall only move in the direction that it is facing
    - R7. The Turtle shall only call AtEnd() on the current square it is on
- Q2: Final Sequence Diagrams
    -

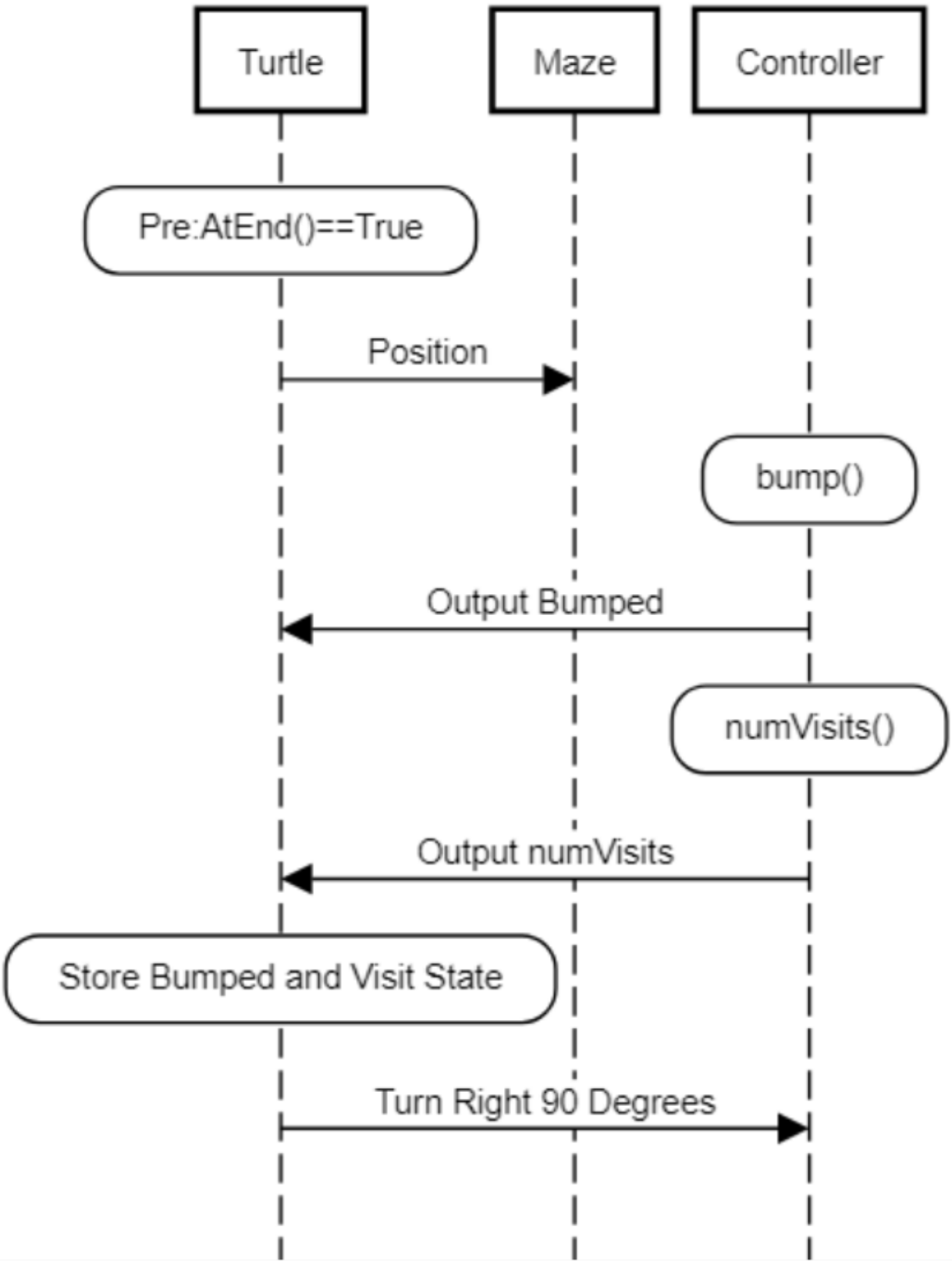


    -

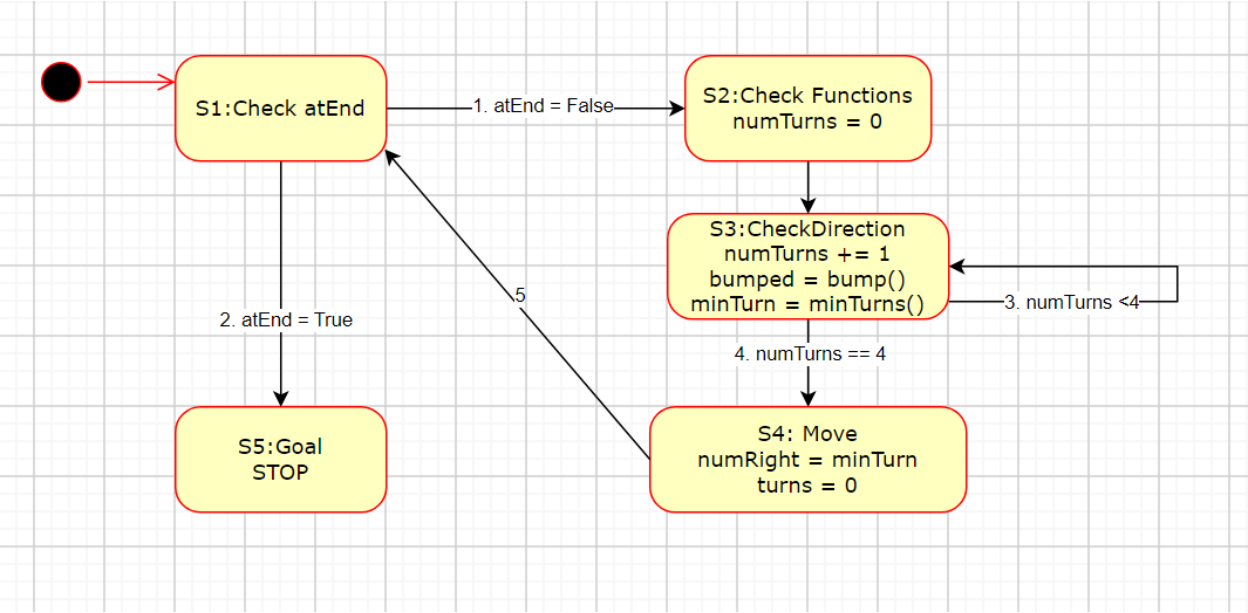
SD2 R2,4,6


Turtle
Controller
Pre:AtEnd()==True
checkDirection()x4
Output number of Right Turns,numTurns
Turn Right numTurns times
Move Forward

SD2.1 R2,3,5 checkDirection()



- Q3: Final Statechart(s) for Turtle



- Q4: Statement regarding compiler warnings. Does your code generate any compiler warnings with the earlier project warning set? If so, which types?
    - No, there are no warnings
- Q5: Statement regarding monitor failures. All working? If not, state which ones fail for which mazes.
    - No monitor failures

- Q6: Peer review logs. Show logs for your code from Project 6 and later. Status must be completed for all issues.

Project 6 Peer Review:

		Peer Review Checklist 18-642		
Group:		**21**		
Date:		**10/25/2023**		
Artifact:		**Project 6 Sequence Diagrams**		
Leader:		**Sahil Somani (ssomani)**		
Author/Scribe:		**Andrew Chong**		
Other Reviewers		**Tom Schmitz**		
Time spent:		**10 minutes**		
Issue	**Location**	**Rule**	**Issue Description**	**Status**
1	All SDs	6	No arc identifiers	Fixed
2	All SDs	2	Descriptions missing	Fixed
3	SD 2.1	3	Missing objects	Fixed
4	SD 2.1	4	Implicit jump from turtle to maze after "Output bumped"	Fixed
Status options: Fixed / Not Fixed / Not a Bug				v 2.0.4

		Peer Review Checklist 18-642		
Group:		**21**		
Date:		**10/25/2023**		
Artifact:		**Project 6 Requirements**		
Leader:		**Sahil Somani (ssomani)**		
Author/Scribe:		**Andrew Chong**		
Other Reviewers		**Tom Schmitz**		
Time spent:		**9 minutes**		
Issue	**Location**	**Rule**	**Issue Description**	**Status**
1	R2, R3	8	Requirements are a tiny bit vague	Fixed
2	R2	4	Does not specify what to do with walls	Fixed
Status options: Fixed / Not Fixed / Not a Bug				v 2.0.4

	Peer Review Checklist 18-642			
Group:	**11**			
Date:	**10/31/2023**			
Artifact:	**Project 7 Statechart**			
Leader:	**Wei-Che Huang (weichehu)**			
Author/Scribe:	**Andrew Chong**			
Other Reviewers				
Time spent:	**10 minutes**			

Issue	**Location**	**Rule**	**Issue Description**	**Status**
1	SC1	1	Missing outputs of the actuator	Fixed
2	SC1	4	Some arcs missing identifier	Fixed
3	SC1	6	Assignment not comparison	Fixed
4	All SD	5	Guard conditions on statechart do not correspond to SD	Fixed
Status options: Fixed / Not Fixed / Not a Bug				v 2.0.4

Project 7 Peer Review:

	Peer Review Checklist 18-642			
Group:	**11**			
Date:	**10/31/2023**			
Artifact:	**Project 7 Sequence Diagram**			
Leader:	**Wei-Che Huang (weichehu)**			
Author/Scribe:	**Andrew Chong**			
Other Reviewers				
Time spent:	**10 minutes**			

Issue	**Location**	**Rule**	**Issue Description**	**Status**
1	All SD	4	Missing arc identifiers	Fixed
2	SD-4	9	Missing postcondition	Fixed
Status options: Fixed / Not Fixed / Not a Bug				v 2.0.4

Project 8 Peer Review:

	Peer Review Checklist 18-642			
Group:	**5**			
Date:	**11/6/2023**			
Artifact:	**Project 8 Maze Code**			
Leader:	**Yihan Duan**			
Author/Scribe:	**Andrew Chong**			
Other Reviewers	**Zhangwen Wan**			
Time spent:	Not Fixed			
Issue	**Location**	**Rule**	**Issue Description**	**Status**
1	47	15	not initialized at definition	Fixed
2	76	2	inconsistent tab	Fixed
3	135-180	24	overcomplicated logic	Fixed
Status options: Fixed / Not Fixed / Not a Bug				v 2.0.4

	Peer Review Checklist 18-642			
Group:	**5**			
Date:	**11/6/2023**			
Artifact:	**Project 8 Turtle Code**			
Leader:	**Yihan Duan**			
Author/Scribe:	**Andrew Chong**			
Other Reviewers	**Zhangwen Wan**			
Time spent:	**15mins**			
Issue	**Location**	**Rule**	**Issue Description**	**Status**
1	48	2	Magic Number	Fixed
2	55	2	inconsistent tab	Fixed
3	76,83,91,97	2	Magic Numbers	Fixed
4	110	7	missing error case	Fixed
5	153	2	inconsistent tab	Fixed
Status options: Fixed / Not Fixed / Not a Bug				v 2.0.4

Project 9 Peer Review:

		Peer Review Checklist 18-642		
Group:		**12**		
Date:		**11/13/2023**		
Artifact:		**unit test**		
Leader:		**Jerry**		
Author/Scribe:		**Andrew**		
Other Reviewers		**Youqi Yang**		
Time spent:		**15min**		
Issue	**Location**	**Rule**	**Issue Description**	**Status**
1	test_RESET	1	No move functions on the reset test	Fixed
2	ALL	3	internal state is not checked	Fixed
3	Missing	2	State transition from S4 to S1 is not tested	Fixed
Status options: Fixed / Not Fixed / Not a Bug				v 2.0.4

Project 10 Peer Review:

		Peer Review Checklist 18-642		
Group:		**1**		
Date:		**11/28/2023**		
Artifact:		**Andrew's Project 10 Unit Test**		
Leader:		**Chi Gao**		
Author/Scribe:		**Andrew Chong**		
Other Reviewers		**Shenyi Qiao, Yueze Cao**		
Time spent:		**23 mins**		
Issue	**Location**	**Rule**	**Issue Description**	**Status**
1	test_END	2	bump is not tested for both true and false values	fixed
2	State Trans 4		State chart covers <4 and = 4,but not >4	fixed
3	Overall	3	Missing test case for default statements	fixed
4				
5				
6				
7				
8				
9				
10				
11				
12				
Status options: Fixed / Not Fixed / Not a Bug				v 2.0.4

Project 11 Peer Review:

		Peer Review Checklist 18-642		
Group:		**2**		
Date:		**12/6/2023**		
Artifact:		**Project 11 Monitor**		
Leader:		**Yaguang Li**		
Author/Scribe:		**Andrew Chong**		
Other Reviewers				
Time spent:		**20 mins**		
Issue	**Location**	**Rule**	**Issue Description**	**Status**
1	face monitor	2	postion checking is incomplete	Fixed
2	forward monitor	Note	might need to check if the orientation remains the same	Fixed
3	tick monitor	2	at most 1 of each interruptions could occur between each tick interrupt	Fixed
4	wall monitor	Note	Might be able to put the logic inside of the visit interrupt	Fixed
Status options: Fixed / Not Fixed / Not a Bug				v 2.0.4

- Q7: Maze solutions. Screen shot of all maze m1 .. m10 runs. For each maze include in the screen shot both the maze picture after the turtle has reached the end square and a window showing whether invariant violations occurred. If your turtle does not solve a maze show the degree to which it makes progress in a reasonable way.

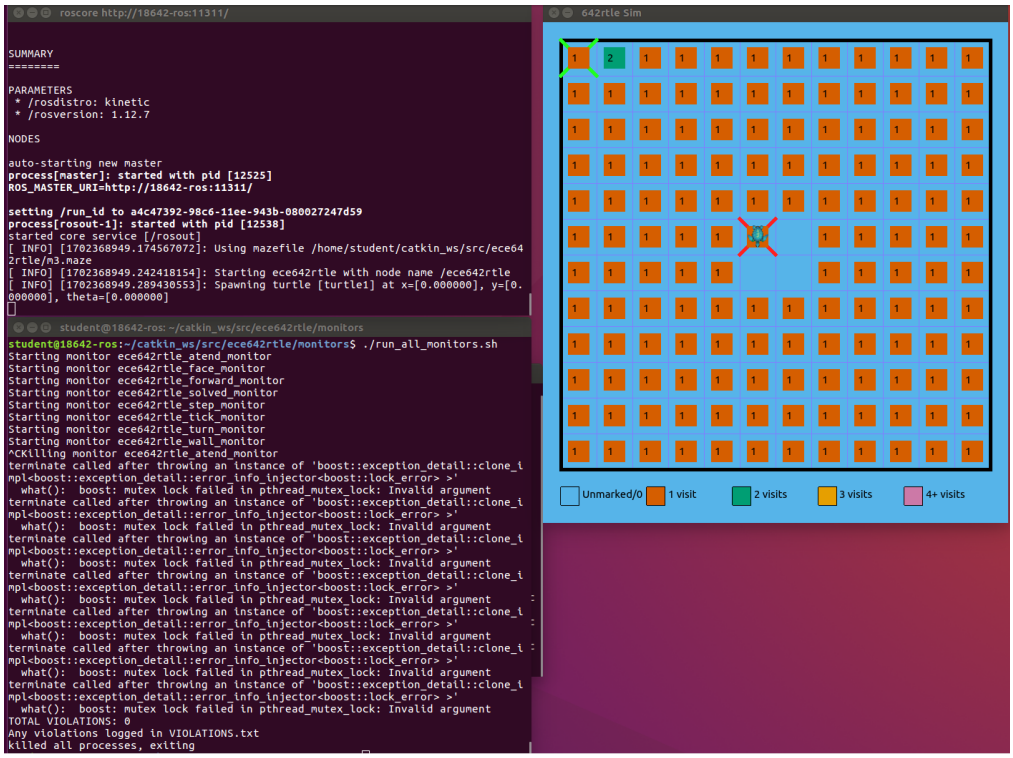
M1:


roscore http://18642-ros:11311/
SUMMARY
========
PARAMETERS
* /rosdistro: kinetic
* /rosversion: 1.12.7
NODES
auto-starting new master
process[master]: started with pid [8964]
ROS_MASTER_URI=http://18642-ros:11311/
setting /run_id to 2769f8c2-98c6-11ee-943b-080027247d59
process[rosout-1]: started with pid [8977]
started core service [/rosout]
[INFO] [1702368738.902651252]: Using mazefile /home/student/catkin_ws/src/ece642rtle/m1.maze
[INFO] [1702368738.973894106]: Starting ece642rtle with node name /ece642rtle
[INFO] [1702368739.025261249]: Spawning turtle [turtle1] at x=[5.000000], y=[0.000000], theta=[0.000000]
student@18642-ros: ~/catkin_ws/src/ece642rtle/monitors
student@18642-ros:~/catkin_ws/src/ece642rtle/monitors$ ./run_all_monitors.sh
Starting monitor ece642rtle_atend_monitor
Starting monitor ece642rtle_face_monitor
Starting monitor ece642rtle_forward_monitor
Starting monitor ece642rtle_solved_monitor
Starting monitor ece642rtle_step_monitor
Starting monitor ece642rtle_tick_monitor
Starting monitor ece642rtle_turn_monitor
Starting monitor ece642rtle_wall_monitor
^CKilling monitor ece642rtle_atend_monitor
terminate called after throwing an instance of 'boost::exception_detail::clone_impl<boost::exception_detail::error_info_injector<boost::lock_error> >'
what(): boost: mutex lock failed in pthread_mutex_lock: Invalid argument
TOTAL VIOLATIONS: 0
Any violations logged in VIOLATIONS.txt
killed all processes, exiting
642rtle Sim
Unmarked/0
1 visit
2 visits
3 visits
4+ visits

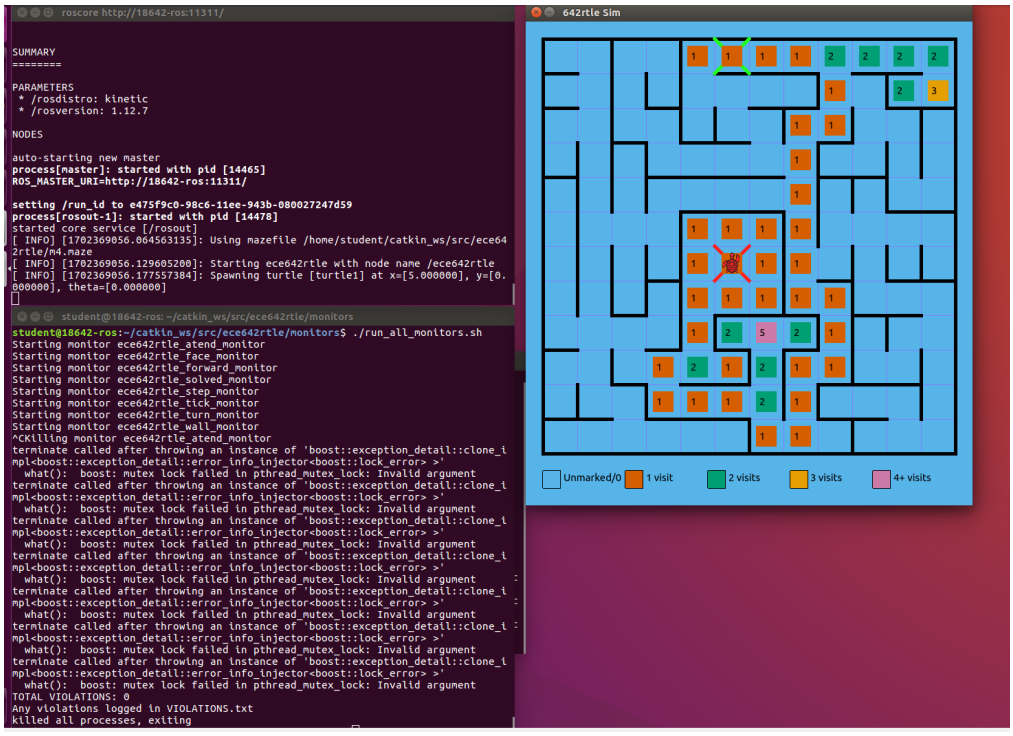
M2


roscore http://18642-ros:11311/
SUMMARY
========
PARAMETERS
* /rosdistro: kinetic
* /rosversion: 1.12.7
NODES
auto-starting new master
process[master]: started with pid [9727]
ROS_MASTER_URI=http://18642-ros:11311/
setting /run_id to 4facf94c-98c6-11ee-943b-080027247d59
process[rosout-1]: started with pid [9740]
started core service [/rosout]
[INFO] [1702368806.394692831]: Using mazefile /home/student/catkin_ws/src/ece642rtle/m2.maze
[INFO] [1702368806.486736372]: Starting ece642rtle with node name /ece642rtle
[INFO] [1702368806.540874538]: Spawning turtle [turtle1] at x=[5.000000], y=[0.000000], theta=[0.000000]
student@18642-ros: ~/catkin_ws/src/ece642rtle/monitors
student@18642-ros:~/catkin_ws/src/ece642rtle/monitors$ ./run_all_monitors.sh
Starting monitor ece642rtle_atend_monitor
Starting monitor ece642rtle_face_monitor
Starting monitor ece642rtle_forward_monitor
Starting monitor ece642rtle_solved_monitor
Starting monitor ece642rtle_step_monitor
Starting monitor ece642rtle_tick_monitor
Starting monitor ece642rtle_turn_monitor
Starting monitor ece642rtle_wall_monitor
^CKilling monitor ece642rtle_atend_monitor
terminate called after throwing an instance of 'boost::exception_detail::clone_impl<boost::exception_detail::error_info_injector<boost::lock_error> >'
what(): boost: mutex lock failed in pthread_mutex_lock: Invalid argument
TOTAL VIOLATIONS: 0
Any violations logged in VIOLATIONS.txt
killed all processes, exiting
642rtle Sim
Unmarked/0
1 visit
2 visits
3 visits
4+ visits

M3


roscore http://18642-ros:11311/
SUMMARY
========
PARAMETERS
* /rosdistro: kinetic
* /rosversion: 1.12.7
NODES
auto-starting new master
process[master]: started with pid [12525]
ROS_MASTER_URI=http://18642-ros:11311/
setting /run_id to a4c47392-98c6-11ee-943b-080027247d59
process[rosout-1]: started with pid [12538]
started core service [/rosout]
[INFO] [1702368949.174567072]: Using mazefile /home/student/catkin_ws/src/ece642rtle/m3.maze
[INFO] [1702368949.242418154]: Starting ece642rtle with node name /ece642rtle
[INFO] [1702368949.289430553]: Spawning turtle [turtle1] at x=[0.000000], y=[0.000000], theta=[0.000000]
student@18642-ros: ~/catkin_ws/src/ece642rtle/monitors
student@18642-ros:~/catkin_ws/src/ece642rtle/monitors$ ./run_all_monitors.sh
Starting monitor ece642rtle_atend_monitor
Starting monitor ece642rtle_face_monitor
Starting monitor ece642rtle_forward_monitor
Starting monitor ece642rtle_solved_monitor
Starting monitor ece642rtle_step_monitor
Starting monitor ece642rtle_tick_monitor
Starting monitor ece642rtle_turn_monitor
Starting monitor ece642rtle_wall_monitor
^CKilling monitor ece642rtle_atend_monitor
terminate called after throwing an instance of 'boost::exception_detail::clone_impl<boost::exception_detail::error_info_injector<boost::lock_error> >'
what(): boost: mutex lock failed in pthread_mutex_lock: Invalid argument
terminate called after throwing an instance of 'boost::exception_detail::clone_impl<boost::exception_detail::error_info_injector<boost::lock_error> >'
what(): boost: mutex lock failed in pthread_mutex_lock: Invalid argument
terminate called after throwing an instance of 'boost::exception_detail::clone_impl<boost::exception_detail::error_info_injector<boost::lock_error> >'
what(): boost: mutex lock failed in pthread_mutex_lock: Invalid argument
terminate called after throwing an instance of 'boost::exception_detail::clone_impl<boost::exception_detail::error_info_injector<boost::lock_error> >'
what(): boost: mutex lock failed in pthread_mutex_lock: Invalid argument
terminate called after throwing an instance of 'boost::exception_detail::clone_impl<boost::exception_detail::error_info_injector<boost::lock_error> >'
what(): boost: mutex lock failed in pthread_mutex_lock: Invalid argument
terminate called after throwing an instance of 'boost::exception_detail::clone_impl<boost::exception_detail::error_info_injector<boost::lock_error> >'
what(): boost: mutex lock failed in pthread_mutex_lock: Invalid argument
TOTAL VIOLATIONS: 0
Any violations logged in VIOLATIONS.txt
killed all processes, exiting
642rtle Sim
Unmarked/0
1 visit
2 visits
3 visits
4+ visits

M4


roscore http://18642-ros:11311/
SUMMARY
========
PARAMETERS
* /rosdistro: kinetic
* /rosversion: 1.12.7
NODES
auto-starting new master
process[master]: started with pid [14465]
ROS_MASTER_URI=http://18642-ros:11311/
setting /run_id to e475f9c0-98c6-11ee-943b-080027247d59
process[rosout-1]: started with pid [14478]
started core service [/rosout]
[INFO] [1702369056.064563135]: Using mazefile /home/student/catkin_ws/src/ece642rtle/m4.maze
[INFO] [1702369056.129605200]: Starting ece642rtle with node name /ece642rtle
[INFO] [1702369056.177557384]: Spawning turtle [turtle1] at x=[5.000000], y=[0.000000], theta=[0.000000]
student@18642-ros: ~/catkin_ws/src/ece642rtle/monitors
student@18642-ros:~/catkin_ws/src/ece642rtle/monitors$ ./run_all_monitors.sh
Starting monitor ece642rtle_atend_monitor
Starting monitor ece642rtle_face_monitor
Starting monitor ece642rtle_forward_monitor
Starting monitor ece642rtle_solved_monitor
Starting monitor ece642rtle_step_monitor
Starting monitor ece642rtle_tick_monitor
Starting monitor ece642rtle_turn_monitor
Starting monitor ece642rtle_wall_monitor
^CKilling monitor ece642rtle_atend_monitor
terminate called after throwing an instance of 'boost::exception_detail::clone_impl<boost::exception_detail::error_info_injector<boost::lock_error> >'
what(): boost: mutex lock failed in pthread_mutex_lock: Invalid argument
terminate called after throwing an instance of 'boost::exception_detail::clone_impl<boost::exception_detail::error_info_injector<boost::lock_error> >'
what(): boost: mutex lock failed in pthread_mutex_lock: Invalid argument
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what(): boost: mutex lock failed in pthread_mutex_lock: Invalid argument
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what(): boost: mutex lock failed in pthread_mutex_lock: Invalid argument
TOTAL VIOLATIONS: 0
Any violations logged in VIOLATIONS.txt
killed all processes, exiting
642rtle Sim
Unmarked/0
1 visit
2 visits
3 visits
4+ visits

M5


roscore http://18642-ros:11311/
SUMMARY
========
PARAMETERS
* /rosdistro: kinetic
* /rosversion: 1.12.7
NODES
auto-starting new master
process[master]: started with pid [15543]
ROS_MASTER_URI=http://18642-ros:11311/
setting /run_id to 0ee02028-98c7-11ee-943b-080027247d59
process[rosout-1]: started with pid [15556]
started core service [/rosout]
[INFO] [1702369127.355714656]: Using mazefile /home/student/catkin_ws/src/ece642rtle/m5.maze
[INFO] [1702369127.467862708]: Starting ece642rtle with node name /ece642rtle
[INFO] [1702369127.521790232]: Spawning turtle [turtle1] at x=[0.000000], y=[0.000000], theta=[0.000000]
student@18642-ros: ~/catkin_ws/src/ece642rtle/monitors
student@18642-ros:~/catkin_ws/src/ece642rtle/monitors$ ./run_all_monitors.sh
Starting monitor ece642rtle_atend_monitor
Starting monitor ece642rtle_face_monitor
Starting monitor ece642rtle_forward_monitor
Starting monitor ece642rtle_solved_monitor
Starting monitor ece642rtle_step_monitor
Starting monitor ece642rtle_tick_monitor
Starting monitor ece642rtle_turn_monitor
Starting monitor ece642rtle_wall_monitor
^Ckilling monitor ece642rtle_atend_monitor
terminate called after throwing an instance of 'boost::exception_detail::clone_impl<boost::exception_detail::error_info_injector<boost::lock_error> >'
what(): boost: mutex lock failed in pthread_mutex_lock: Invalid argument
TOTAL VIOLATIONS: 0
Any violations logged in VIOLATIONS.txt
killed all processes, exiting
642rtle Sim
Unmarked/0
1 visit
2 visits
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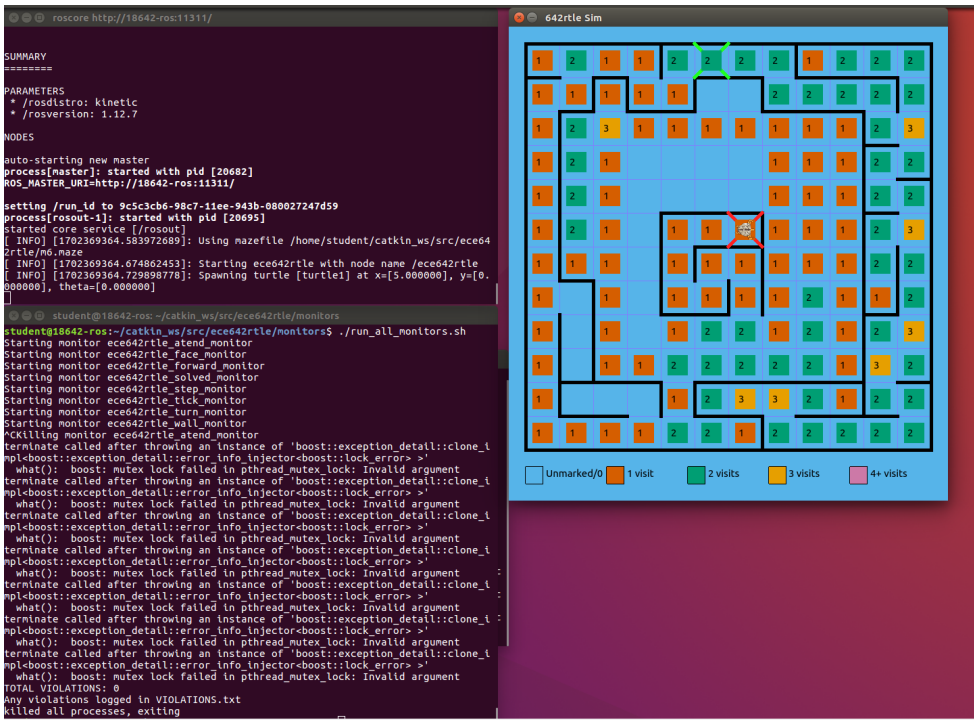
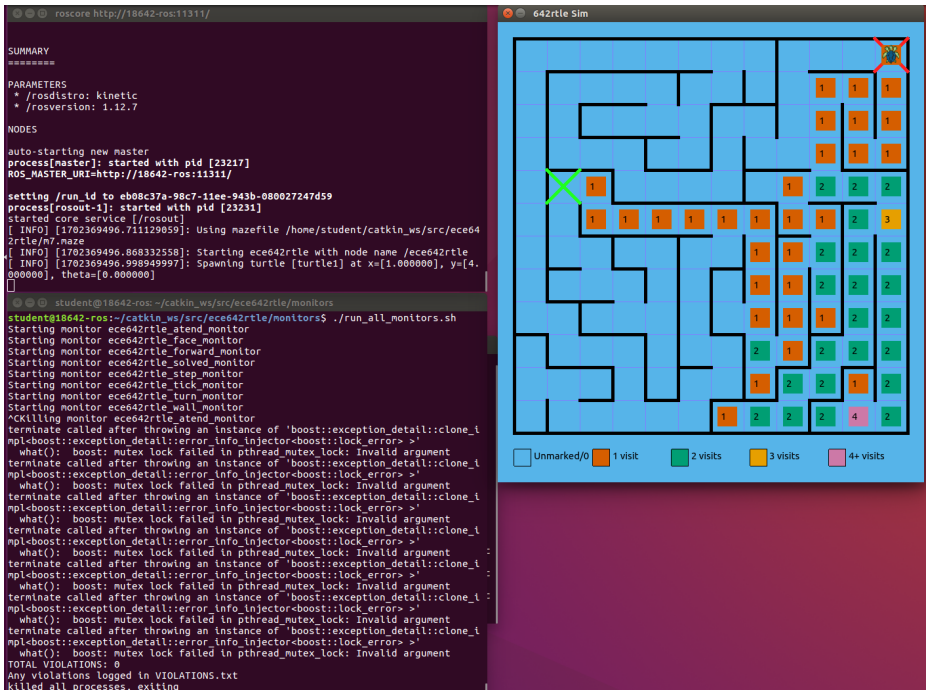
4+ visits

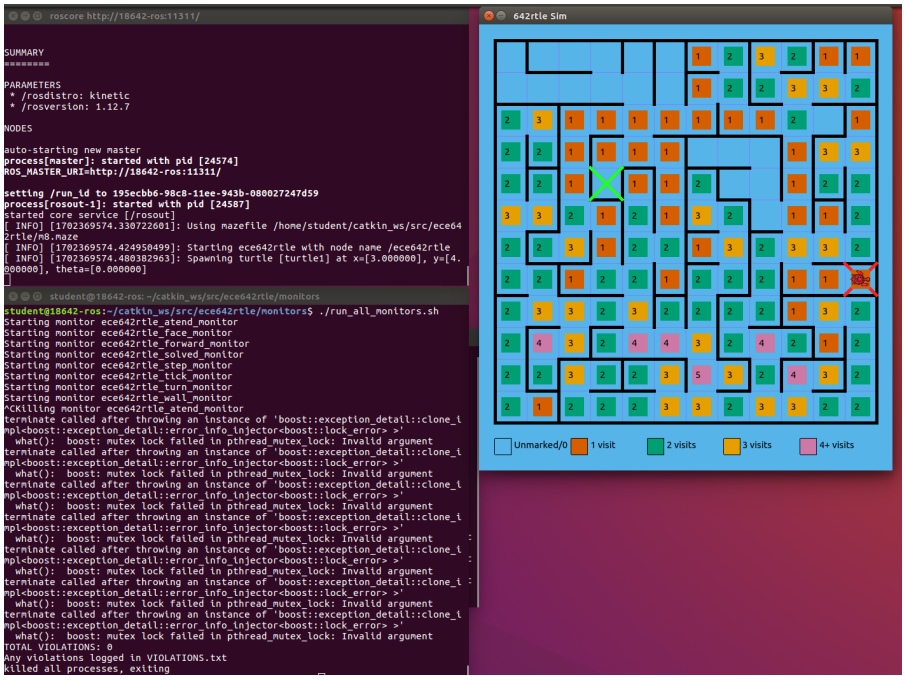
M6


roscore http://18642-ros:11311/
SUMMARY
========
PARAMETERS
* /rosdistro: kinetic
* /rosversion: 1.12.7
NODES
auto-starting new master
process[master]: started with pid [20682]
ROS_MASTER_URI=http://18642-ros:11311/
setting /run_id to 9c5c3cb6-98c7-11ee-943b-080027247d59
process[rosout-1]: started with pid [20695]
started core service [/rosout]
[INFO] [1702369364.583972689]: Using mazefile /home/student/catkin_ws/src/ece642rtle/m6.maze
[INFO] [1702369364.674862453]: Starting ece642rtle with node name /ece642rtle
[INFO] [1702369364.729898778]: Spawning turtle [turtle1] at x=[5.000000], y=[0.000000], theta=[0.000000]
student@18642-ros: ~/catkin_ws/src/ece642rtle/monitors
student@18642-ros:~/catkin_ws/src/ece642rtle/monitors$ ./run_all_monitors.sh
Starting monitor ece642rtle_atend_monitor
Starting monitor ece642rtle_face_monitor
Starting monitor ece642rtle_forward_monitor
Starting monitor ece642rtle_solved_monitor
Starting monitor ece642rtle_step_monitor
Starting monitor ece642rtle_tick_monitor
Starting monitor ece642rtle_turn_monitor
Starting monitor ece642rtle_wall_monitor
^Ckilling monitor ece642rtle_atend_monitor
terminate called after throwing an instance of 'boost::exception_detail::clone_impl<boost::exception_detail::error_info_injector<boost::lock_error> >'
what(): boost: mutex lock failed in pthread_mutex_lock: Invalid argument
TOTAL VIOLATIONS: 0
Any violations logged in VIOLATIONS.txt
killed all processes, exiting
642rtle Sim
Unmarked/0
1 visit
2 visits
3 visits
4+ visits

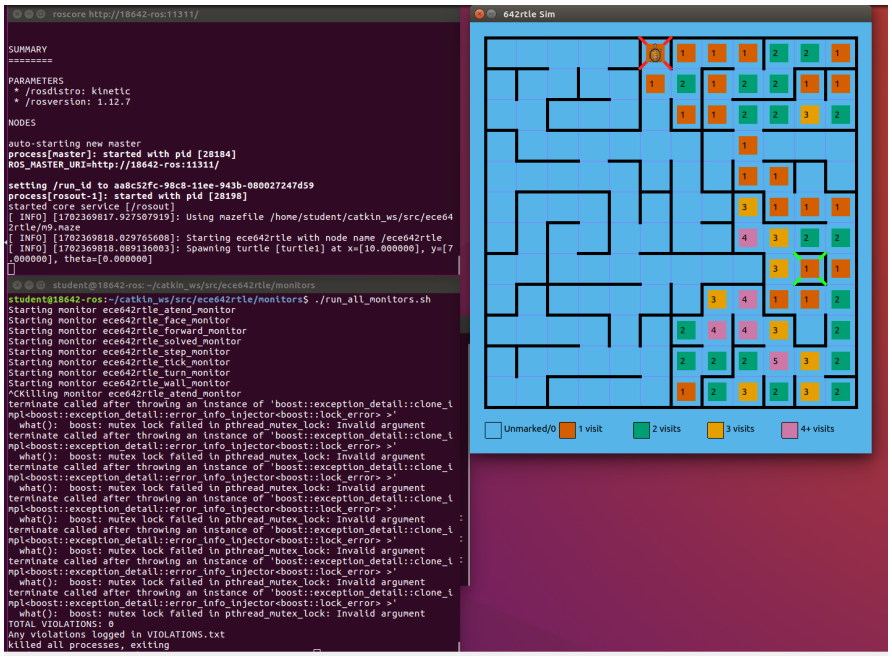
M7


roscore http://18642-ros:11311/
SUMMARY
========
PARAMETERS
* /rosdistro: kinetic
* /rosversion: 1.12.7
NODES
auto-starting new master
process[master]: started with pid [23217]
ROS_MASTER_URI=http://18642-ros:11311/
setting /run_id to eb08c37a-98c7-11ee-943b-080027247d59
process[rosout-1]: started with pid [23231]
started core service [/rosout]
[INFO] [1702369496.711129059]: Using mazefile /home/student/catkin_ws/src/ece642rtle/m7.maze
[INFO] [1702369496.868332558]: Starting ece642rtle with node name /ece642rtle
[INFO] [1702369496.998949997]: Spawning turtle [turtle1] at x=[1.000000], y=[4.000000], theta=[0.000000]
student@18642-ros: ~/catkin_ws/src/ece642rtle/monitors
student@18642-ros:~/catkin_ws/src/ece642rtle/monitors$ ./run_all_monitors.sh
Starting monitor ece642rtle_atend_monitor
Starting monitor ece642rtle_face_monitor
Starting monitor ece642rtle_forward_monitor
Starting monitor ece642rtle_solved_monitor
Starting monitor ece642rtle_step_monitor
Starting monitor ece642rtle_tick_monitor
Starting monitor ece642rtle_turn_monitor
Starting monitor ece642rtle_wall_monitor
^CKilling monitor ece642rtle_atend_monitor
terminate called after throwing an instance of 'boost::exception_detail::clone_impl<boost::exception_detail::error_info_injector<boost::lock_error> >'
what(): boost: mutex lock failed in pthread_mutex_lock: Invalid argument
TOTAL VIOLATIONS: 0
Any violations logged in VIOLATIONS.txt
killed all processes, exiting
642rtle Sim
Unmarked/0
1 visit
2 visits
3 visits
4+ visits

M8


roscore http://18642-ros:11311/
SUMMARY
========
PARAMETERS
* /rosdistro: kinetic
* /rosversion: 1.12.7
NODES
auto-starting new master
process[master]: started with pid [24574]
ROS_MASTER_URI=http://18642-ros:11311/
setting /run_id to 195ecbb6-98c8-11ee-943b-080027247d59
process[rosout-1]: started with pid [24587]
started core service [/rosout]
[INFO] [1702369574.330722601]: Using mazefile /home/student/catkin_ws/src/ece642rtle/m8.maze
[INFO] [1702369574.424950499]: Starting ece642rtle with node name /ece642rtle
[INFO] [1702369574.480382963]: Spawning turtle [turtle1] at x=[3.000000], y=[4.000000], theta=[0.000000]
student@18642-ros: ~/catkin_ws/src/ece642rtle/monitors
student@18642-ros:~/catkin_ws/src/ece642rtle/monitors$ ./run_all_monitors.sh
Starting monitor ece642rtle_atend_monitor
Starting monitor ece642rtle_face_monitor
Starting monitor ece642rtle_forward_monitor
Starting monitor ece642rtle_solved_monitor
Starting monitor ece642rtle_step_monitor
Starting monitor ece642rtle_tick_monitor
Starting monitor ece642rtle_turn_monitor
Starting monitor ece642rtle_wall_monitor
^CKilling monitor ece642rtle_atend_monitor
terminate called after throwing an instance of 'boost::exception_detail::clone_impl<boost::exception_detail::error_info_injector<boost::lock_error> >'
what(): boost: mutex lock failed in pthread_mutex_lock: Invalid argument
TOTAL VIOLATIONS: 0
Any violations logged in VIOLATIONS.txt
killed all processes, exiting
642rtle Sim
Unmarked/0
1 visit
2 visits
3 visits
4+ visits

M9


roscore http://18642-ros:11311/
SUMMARY
========
PARAMETERS
* /rosdistro: kinetic
* /rosversion: 1.12.7
NODES
auto-starting new master
process[master]: started with pid [28184]
ROS_MASTER_URI=http://18642-ros:11311/
setting /run_id to aa8c52fc-98c8-11ee-943b-080027247d59
process[rosout-1]: started with pid [28198]
started core service [/rosout]
[INFO] [1702369817.927507919]: Using mazefile /home/student/catkin_ws/src/ece642rtle/m9.maze
[INFO] [1702369818.029765608]: Starting ece642rtle with node name /ece642rtle
[INFO] [1702369818.089136003]: Spawning turtle [turtle1] at x=[10.000000], y=[7.000000], theta=[0.000000]
student@18642-ros: ~/catkin_ws/src/ece642rtle/monitors
student@18642-ros:~/catkin_ws/src/ece642rtle/monitors$ ./run_all_monitors.sh
Starting monitor ece642rtle_atend_monitor
Starting monitor ece642rtle_face_monitor
Starting monitor ece642rtle_forward_monitor
Starting monitor ece642rtle_solved_monitor
Starting monitor ece642rtle_step_monitor
Starting monitor ece642rtle_tick_monitor
Starting monitor ece642rtle_turn_monitor
Starting monitor ece642rtle_wall_monitor
^CKilling monitor ece642rtle_atend_monitor
terminate called after throwing an instance of 'boost::exception_detail::clone_impl<boost::exception_detail::error_info_injector<boost::lock_error> >'
what(): boost: mutex lock failed in pthread_mutex_lock: Invalid argument
TOTAL VIOLATIONS: 0
Any violations logged in VIOLATIONS.txt
killed all processes, exiting
642rtle Sim
Unmarked/0
1 visit
2 visits
3 visits
4+ visits

M10


roscore http://18642-ros:11311/
SUMMARY
========
PARAMETERS
* /rosdistro: kinetic
* /rosversion: 1.12.7
NODES
auto-starting new master
process[master]: started with pid [30026]
ROS_MASTER_URI=http://18642-ros:11311/
setting /run_id to 29a3b972-98c9-11ee-943b-080027247d59
process[rosout-1]: started with pid [30039]
started core service [/rosout]
[INFO] [1702370031.170935202]: Using mazefile /home/student/catkin_ws/src/ece642rtle/m10.maze
[INFO] [1702370031.178533095]: Initial rotation is 2
[INFO] [1702370031.293773719]: Starting ece642rtle with node name /ece642rtle
[INFO] [1702370031.354987086]: Spawning turtle [turtle1] at x=[10.000000], y=[7.000000], theta=[180.000000]
student@18642-ros: ~/catkin_ws/src/ece642rtle/monitors
student@18642-ros:~/catkin_ws/src/ece642rtle/monitors$ ./run_all_monitors.sh
Starting monitor ece642rtle_atend_monitor
Starting monitor ece642rtle_face_monitor
Starting monitor ece642rtle_forward_monitor
Starting monitor ece642rtle_solved_monitor
Starting monitor ece642rtle_step_monitor
Starting monitor ece642rtle_tick_monitor
Starting monitor ece642rtle_turn_monitor
Starting monitor ece642rtle_wall_monitor
^CKilling monitor ece642rtle_atend_monitor
terminate called after throwing an instance of 'boost::exception_detail::clone_impl<boost::exception_detail::error_info_injector<boost::lock_error> >'
what(): boost: mutex lock failed in pthread_mutex_lock: Invalid argument
TOTAL VIOLATIONS: 0
Any violations logged in VIOLATIONS.txt
killed all processes, exiting
642rtle Sim
Unmarked/0
1 visit
2 visits
3 visits
4+ visits

- Q8: Statement regarding maze solutions. Which mazes does your handed-in code solve?
    - Solves All Mazes
- Q9: What one software engineering process or practice from Projects 1-12 do you think is the most important one to apply to your own work beyond this course, going forward?
    - I think that the engineering process that I think is the most important is the cunit testing. Knowing how to properly design and test unit tests is a skill that I think would be extremely useful in development.
- Q10: Any feedback about Project 12, or any other projects?
    - None