What is being tested	Input	Expected Output	Actual Output
UI input to get Core	1	Opens to the core maze and	Opens to the core maze and
		starts running the core code.	starts running the core code.
UI input to get	2	Opens to the completion	Opens to the completion maze
Completion		maze and starts running the	and starts running the
		completion code.	completion code.
UI input to get	3	Opens to the challenge maze	Opens to the challenge maze and
Challenge		and starts running the	starts running the challenge code.
		challenge code.	

What is being tested	Input	Expected Output	Actual Output
UI input to get Core	1	Opens to the core maze and	Opens to the core maze and
		starts running the core code.	starts running the core code.

When the robot.cpp boots up after server3.cpp has been executed, a UI will come up and ask for the user's input. This test is to check that by entering 1 will make the code shift to the core maze and start executing the code to complete this maze.

```
azeFile maze3.txt
mazeFile maze3.txt
robot.pos.x 100.0
                                   obot.pos.x 100.0
                                  robot.pos.y 100.0
robot.azimuth 0.0
robot.pos.y 100.0
robot.azimuth 0.0
                                   obot.vLeft 10.0
robot.vLeft 10.0
robot.vRight 10.0
                                   obot.vRight 10.0
                                   obot.wheelRadius 8.0
robot.wheelRadius 8.0
robot.width 30.0
                                   obot.width 30.0
robot.length 50.0
                                   obot.length 50.0
robot.cameraForward 100.0
                                   robot.cameraForward 100.0
robot.fovWidth 150.0
                                   obot.fovWidth 150.0
robot.fovLength 100.0
                                   obot.fovLength 100.0
Please select a mode:
                                  Please select a mode:
Core: enter '1'
                                   Core: enter '1'
Completion: enter '2'
                                  Completion: enter '2'
Challenge: enter '3'
                                  Challenge: enter '3'
```

This executes the same way upon each run of the code.

What is being tested	Input	Expected Output	Actual Output
UI input to get	2	Opens to the completion	Opens to the completion maze
Completion		maze and starts running the	and starts running the
		completion code.	completion code.

When the robot.cpp boots up after server3.cpp has been executed, a UI will come up and ask for the user's input. This test is to check that by entering 2 will make the code shift to the completion maze and start executing the code to complete this maze.

```
azeFile maze3.txt
mazeFile maze3.txt
                                obot.pos.x 100.0
robot.pos.x 100.0
                                                                                A A A
                                obot.pos.y 100.0
robot.pos.y 100.0
                               robot.azimuth 0.0
robot.azimuth 0.0
                                obot.vLeft 10.0
robot.vLeft 10.0
                                obot.vRight 10.0
robot.vRight 10.0
robot.wheelRadius 8.0
                                obot.wheelRadius 8.0
robot.width 30.0
                                obot.width 30.0
robot.length 50.0
                                obot.length 50.0
robot.cameraForward 100.0
                               robot.cameraForward 100.0
robot.fovWidth 150.0
                               obot.fovWidth 150.0
robot.fovLength 100.0
                               robot.fovLength 100.0
Please select a mode:
                               Please select a mode:
                                                             Core: enter '1'
                               Core: enter '1'
Completion: enter '2'
                               Completion: enter '2'
Challenge: enter '3'
                               Challenge: enter '3'
```

This has the correct output each time.

What is being tested	Input	Expected Output	Actual Output
UI input to get	3	Opens to the challenge maze	Opens to the challenge maze and
Challenge		and starts running the	starts running the challenge code.
		challenge code.	

When the robot.cpp boots up after server3.cpp has been executed, a UI will come up and ask for the user's input. This test is to check that by entering 3 will make the code shift to the challenge maze and start executing the code to complete this maze.

```
mazeFile maze3.txt
mazeFile maze3.txt
                                robot.pos.x 100.0
robot.pos.x 100.0
                                robot.pos.y 100.0
robot.pos.y 100.0
                                robot.azimuth 0.0
robot.azimuth 0.0
                                robot.vLeft 10.0
robot.vLeft 10.0
                                robot.vRight 10.0
robot.vRight 10.0
                                robot.wheelRadius 8.0
robot.wheelRadius 8.0
robot.width 30.0
                                robot.width 30.0
robot.length 50.0
                                robot.length 50.0
robot.cameraForward 100.0
                                robot.cameraForward 100.0
robot.fovWidth 150.0
                                robot.fovWidth 150.0
robot.fovLength 100.0
                                robot.fovLength 100.0
Please select a mode:
                                Please select a mode:
Core: enter '1'
                                 Core: enter '1'
Completion: enter '2'
                                Completion: enter '2'
Challenge: enter '3'
                                Challenge: enter '3'
```

This has the correct output every time it is executed.