**Test Cases**

**Status: Need more targeted cases based on code. Need more test cases in general.**

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| Scenarios | Expected Outcome | Actual Outcome | Comments |
| **Core** | | | |
| Robot left of line | Moves closer to centre | Expected outcome occurs | When the robot is left of the line it manages to re-center itself to be closer to the centre of the line. |
| Robot right of line | Moves closer to centre | Expected outcome occurs | When the robot is left of the line it re-centers itself to be closer to the centre of the line. |
| Robot straight on the line | Keeps moving forward | Expected outcome occurs | We've gotten the robot to follow the line |
| Robot hitting object | Either reverses course and tries to move around obstacle or restarts |  |  |
| Robot takes picture | Should load correctly into the program and be processed. | Robot successfully takes pictures which are loaded and processed correctly | We’ve gotten the robot to successfully take the picture and load it into the program |
| Robot sets motors | Motor speeds should be set accordingly | Expected occurs | Robot sets the motors accordingly to its situation |
| Robot travels wrong way | Detects incorrect travel direction if programmed to and turns around. |  |  |
| Robot reaches flag | stops/finishes | Expected outcome occurs | The robot comes to a stop when at the flag |
|  |  |  |  |
| **Completion/Challenge** | | | |
| Robot towards left wall | Moves closer to centre |  |  |
| Robot towards right wall | Moves closer to centre |  |  |
| Robot in centre of path | Keeps moving forward |  |  |
|  |  |  |  |
| **Other Tests** | | | |
| Robot cannot connect to the server | Displays helpful error message |  |  |
| Code compile | Code should compile properly | The code compiles | After some trouble shooting, the code compiles |
| Install instructions working | Install instructions should be readable and work. With code running as an end result. | A set of install instructions that, when followed, end with a runnable code. | Based the instructions on windows |