**Test Cases**

Last Updated 9/06/2020

**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 |  |  |
| Robot Right of line | Moves closer to centre |  |  |
| Robot straight on line | Keeps moving forward |  |  |
| Robot hitting object | Either reverses course and tries to move around obstacle or restarts |  |  |
| Robot takes picture | Should load correctly into program and be processed. |  |  |
| Robot sets motors | Motor speeds should be set accordingly |  |  |
| Robot travels wrong way | Detects incorrect travel direction if programmed to and turns around. |  |  |
| Robot reaches flag | stops/finishes |  |  |
|  |  |  |  |
| **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 foward |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| **Challenge** |  |  |  |
|  |  |  |  |
| **Other tests** |  |  |  |
| Robot cannot connect to server | Displays helpful error message |  |  |
| Code Compile | Code should compile properly |  |  |
| Install instructions working. | Install instructions should be readable and work. With code running as an end result. |  |  |