# Test Case 3

## Bug Description

**Bug 3:** Odds in the game do not appear to be correct.

Crown and Anchor games have an approximate 8% bias to the house. So the win : (win+lose) ratio should approximately equal 0.42. This does not appear to be the case.

## Version Control

|  |  |  |  |
| --- | --- | --- | --- |
| Version # | Date | Author | Description |
| 1.0 | 12/10/2017 | Ryan Smith | Initial Version |

## Test Scripts

The following scripts will cover this scenario:

* 3.1 Bug 3 Replication

## Script 1: Bug 3 replication

### Script Description

* Reproduces a bug that has been reported, wherein the odds in the game do not appear to be correct.

### Setup

* None

### Teardown

* None

### Script Steps

| **Step #** | **Test Action** | **Expected Results** | **Pass/ Fail** |
| --- | --- | --- | --- |
| 1 | Run the game via the main class. | Some number of games occur. | Pass |
| 2 | Look at the end of the output, for a line that shows the number of games won and lost, as well as what fraction of total games were run. | A line matching that description is found. | Pass |
| 3 | Read the fraction. Repeat steps 1 through 3 at least 6 times. | Correct behavior: The number at the end of the line should be 0.42 each time, with some margin of error allowed. Bugged behavior: The number at the end of the line varies significantly across runs of the program, deviating significantly from 0.42 for at least one run of the program. | Pass |

### Test Execution

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Date/Time | Tester | Test ID | Test Phase | Status |
| 11/10/2017 3:32pm | Ryan Smith | Test 3-1 |  | Bug present |
| 11/10/2017 9:20pm | Ryan Smith | Test 3-2 |  | Pass |