

Simplification

Bug 5: Odds of game are incorrect

Test Name	Test whether the winning odds is around 42%.
Use Case Tested:	Automate the testing of errors in UAT Test 5
Test Description:	Test that the winning ratio is correct at around 42%
Pre-conditions	Bug 1, 2, 3 have been fixed. New player "October" with initial balance of \$5000, and number of turns 1000
Post-conditions	The winning ratio is around 42%.

	TEST STEP	EXPECTED TEST RESULTS	RESULT
1.	Run Bug4Test.java	Console opens and results for games are displayed in it.	Pass
2.	Check win ratio in Console	Should be between 41 - 43%	Fail
3.	Check Failure Trace	JUnit should show no error or failure	Fail
4.	Rerun the test 2 times	Same like step 2-3	Fail

Result

Run 1: FAIL

Bug5Test [Runner: JUnit 4] (0.673 s)
testIncorrectOddsRatio (0.673 s)

Failure Trace

java.lang.AssertionError
at Bug5Test.testIncorrectOddsRatio(Bug5Test.java:108)

Turn 999
Rolled HEART, CROWN, HEART
October bet 5 on CROWN
Balance now 3185 | Limit: 0
Winnings for this bet: 5
October won 5, balance now 3185

Turn 1000
Rolled DIAMOND, CLUB, CLUB
October bet 5 on CROWN
Balance now 3180 | Limit: 0
Winnings for this bet: 0
October lost, balance now 3180

GAME OVER
Total Win count = 509, Total Loss Count = 491
Overall win rate = 50.9%

Run 2: FAIL

Bug5Test [Runner: JUnit 4] (0.500 s)
testIncorrectOddsRatio (0.500 s)

Failure Trace



java.lang.AssertionError
at Bug5Test.testIncorrectOddsRatio(Bug5Test.java:108)



Turn 999
Rolled DIAMOND, CROWN, CLUB
October bet 5 on CROWN
Balance now 3135 | Limit: 0
Winnings for this bet: 5
October won 5, balance now 3135

Turn 1000
Rolled CROWN, ANCHOR, ANCHOR
October bet 5 on CROWN
Balance now 3135 | Limit: 0
Winnings for this bet: 5
October won 5, balance now 3135



GAME OVER
Total Win count = 505, Total Loss Count = 495
Overall win rate = 50.5%

Run 3: FAIL

Runs: 1/1  Errors: 0  Failures: 1

 Bug5Test [Runner: JUnit 4] (0.610 s)
  testIncorrectOddsRatio (0.610 s)

Failure Trace

 java.lang.AssertionError
 at Bug5Test.testIncorrectOddsRatio(Bug5Test.java:108)

```
Turn 999
Rolled CROWN, CROWN, CLUB
October bet 5 on CROWN
Balance now 3140 | Limit: 0
Winnings for this bet: 10
October won 10, balance now 3140
```

```
Turn 1000
Rolled ANCHOR, CLUB, ANCHOR
October bet 5 on CROWN
Balance now 3135 | Limit: 0
Winnings for this bet: 0
October lost, balance now 3135
```

```
GAME OVER
Total Win count = 504, Total Loss Count = 496
Overall win rate = 50.4%
```