# Bug Replication Document

### Bug name

1. Odds in the game are incorrect.

### Bug description

1. The game should have an approximate win : (win + lose) ratio very close to 0.42 (error < 0.01 over 10000 games).

### Expected output description

1. The expected output is for the game to have a (winning : total games played) ratio of 0.42 and an error occur less than 0.01 times.

### Bug prerequisites

1. The application must be executed.
2. The application play mode is “Batch Mode”.
3. The player must be setup correctly and have the following details:

* Name: John
* Balance: 10000
* Standard bet: 5
* Betting Limit: 10
* Number of games played: 10000

1. The player must finish all 10000 games.

### Starting point

1. The steps to replicate this bug start from when the game begins and a player is asked to enter the amount of games they wish to play.

### Steps to replicate

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| --- | --- | --- | --- |
| 1. **User Input** | 1. **Expected System Response** | 1. **Pass** | 1. **Fail** |
| 1. Enters ‘10000’ and presses <enter> key | 1. Displays “Enter standard bet (default 10):” message. | 1.  |  |
| 1. Enters ‘5’ and presses <enter> key | 1. Display “Use standard pick or random (S/R):” message | 1.  |  |
| 1. Enters ‘R’ and presses <enter> key | 1. Displays the result of all games played along with the final balance and win ratio of “0.42XXXX” | 1.  |  |
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### Test Data

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| --- | --- | --- | --- | --- | --- |
| 1. **Test No** | 1. **1** | 1. **2** | 1. **3** | 1. **4** | 1. **5** |
| 1. **Symbol Pick Type** | 1. R | 1. R | 1. R |  |  |
| 1. **Standard Bet Amount** | 1. 5 | 1. 5 | 1. 5 |  |  |
| 1. **Games Played** | 1. 10000 | 1. 10000 | 1. 10000 |  |  |
| 1. **Output Win Ratio** | 1. Win Ratio: 2. 0.403800 | 1. Win Ratio: 2. 0.4937 | 1. Win Ratio: 0.423600 |  |  |