**Individual Test Cases for Program 3**

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Section: 006

Use as many table lines as you need. You should attempt to have a sufficient number of test cases without being redundant. Read the assignment description carefully. (Definition: “pot” is the amount of money the player has)

**Testing an individual spin/round in the main function – at least 3 more cases**

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| --- | --- | --- |
| **Description of case** | **Input** | **Expected Output/Behavior** |
| Correct bet input, wheels come up with three different symbols, pot > 10, (Example) | 10 (bet) | 3 different words/symbols displayed, “You lose $10” and 10 is subtracted from pot |
| Bet too high | 500 | “You can’t bet that much” |
| Bet too low | -50 | “You have to bet more than that” |
| Correct bet input, wheels come up with two of a kind | 10 | 2 of a kind displayed, “You win $20”, 20 added to the pot |
| Correct bet input, wheels come up with three of a kind that isn’t jackpot or bell | 10 | 3 of a kind that aren’t jackpot or bell displayed, “You win $30”, 30 added to the pot |
| Correct bet input, wheels come up with three bells | 10 | 3 bells displayed, “You win $100”, 100 added to the pot |
| Correct bet input, wheel come up with three jackpots | 10 | 3 jackpots displayed, “You win $200”, 200 added to the pot |
| String input | twenty | Crashes: cannot convert string to int |

**Testing the operation of the whole game – at least 3 more cases**

|  |  |  |
| --- | --- | --- |
| **Description of case** | **Inputs** | **Expected Output/Behavior** |
| Played one round, won money, stopped playing (Example) | Joe, 10 (bet), n (clicked No) | You won xx, Want to play again? Joe, you left with 200+xx |
| Played one round, lost all money | Kel, 200 | You lost 200, Kel, you are bankrupt |
| Played two rounds, won, won, ended game | Jill, 50, Y, 100, N | You won x, Want to play again? You won x, Want to play again? Jill, you left with x |
| Played two rounds, won, lost all money | Ben, 10, Y, 220 | You won x, Want to play again? You lost x, Ben, you are bankrupt |
| Played two rounds, lost, lost, ended game | Laura, 10, Y, 10, N | You lost x, Want to play again?  You lost x, Want to play again? |

**Unit testing**

Don’t worry about testing getname.

**Play\_again – at least 2 more cases**

|  |  |  |
| --- | --- | --- |
| **Description of case** | **Inputs** | **Expected Output/Behavior** |
| testing Yes button (Example) | click inside bounds of Yes box | another round is played |
| No button | Click inside bounds of No box | Game ends |
| Special: click outside bounds | Click outside bounds of either button | Nothing happens: loop iterates again |

**Translate – at least two more cases**

|  |  |  |
| --- | --- | --- |
| **Description** | **Input = Arguments when called** | **Expected Output = return value and/or behavior** |
| Testing apple case (example) | 1 | “apple” |
| banana case | 2 | “banana” |
| orange case | 3 | “orange” |
| Error: number outside range (would occur if there’s a semantics error in calling the function, i.e. if randrange given wrong range) | 10 | Crashes: return variable not assigned any value |

**Find\_winnings – at least 4 more cases**

|  |  |  |
| --- | --- | --- |
| **Description** | **Input = Arguments when called** | **Expected Output = return value and/or behavior** |
| Testing a losing bet (example) | 1, 3, 5, 100 (that’s the three wheels and the bet amount) | Output = “You lost your bet $100”, returns -100 |
| Winning bet: 2 of a kind | 1, 1, 3, 100 | “You won $200”, returns 200 |
| Winning bet: 3 of a kind (not jackpot or bell) | 4, 4, 4, 100 | “You won $300”, returns 300 |
| Winning bet: 3 bells | 0, 0, 0, 100 | “You won $1000”, returns 1000 |
| Winning bet: 3 jackpots | 6, 6, 6, 100 | “You won $2000”, returns 2000 |