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45J Lab 2 Testing Report

Initial Balance Validation:

```
Welcome to SimCraps! Enter your user name:
Patrick
Enter the amount of money you will bring to the table:
0
You must bring at lease $1 to the table:
-100
You must bring at lease $1 to the table:
0.99
You must bring at lease $1 to the table:
-.99
You must bring at lease $1 to the table:
1000.85
Patrick 's balance: 1000.85 Playing a new game...
Enter the bet amount between $1 and $1000.85:
|
```

Bet Validation:

```
Patrick 's balance: 1000.85 Playing a new game...
Enter the bet amount between $1 and $1000.85:
0
Invalid bet! Enter the bet amount between $1 and $1000.85:
-100
Invalid bet! Enter the bet amount between $1 and $1000.85:
.99
Invalid bet! Enter the bet amount between $1 and $1000.85:
-.99
Invalid bet! Enter the bet amount between $1 and $1000.85:
1000.86
Invalid bet! Enter the bet amount between $1 and $1000.85:
1000000000
Invalid bet! Enter the bet amount between $1 and $1000.85:
100
Rolled a 11
*****Natural! You win!*****
Patrick 's balance: 1100.85 Playing a new game...
Enter the bet amount between $1 and $1100.85:
|
```

Winning/Losing Rounds:

- Natural (see above)
- Crap out, Craps, Roll the Point:

```
Patrick 's balance: 1100.85 Playing a new game...
Enter the bet amount between $1 and $1100.85:
100
Rolled a 9
Rolled a 4
Rolled a 5
Rolled a 10
Rolled a 6
Rolled a 6
Rolled a 7
*****Crap out! You loose.*****
Patrick 's balance: 1000.85 Playing a new game...
Enter the bet amount between $1 and $1000.85:
100
Rolled a 7
*****Natural! You win!*****
Patrick 's balance: 1100.85 Playing a new game...
Enter the bet amount between $1 and $1100.85:
100
Rolled a 3
*****Craps! You loose.*****
Patrick 's balance: 1000.85 Playing a new game...
Enter the bet amount between $1 and $1000.85:
100
Rolled a 8
Rolled a 8
*****Rolled the point! You win!*****
Patrick 's balance: 1100.85 Playing a new game...
Enter the bet amount between $1 and $1100.85:
100
```

Losing the Game with Zero Balance:

```
Patrick 's balance: 3200.00 Playing a new game...
Enter the bet amount between $1 and $3200.00:
3200
Rolled a 6
Rolled a 4
Rolled a 3
Rolled a 7
****Crap out! You loose.****
Patrick 's balance: 0.00
*****
*** SIMULATION STATISTICS ***
*****
Games played: 15
Games won: 7
Games lost: 8
Maximum Rolls in a single game: 6
Natural count: 3
Craps count: 1
Maximum Winning streak: 3
Maximum Loosing streak: 4
Maximum balance: 0.0 durring game: 0
```

Losing with nonzero, less than one dollar balance:

```
Patrick 's balance: 4000.95 Playing a new game...
Enter the bet amount between $1 and $4000.95:
4000
Rolled a 4
Rolled a 9
Rolled a 5
Rolled a 6
Rolled a 8
Rolled a 8
Rolled a 7
****Crap out! You loose.****
Patrick 's balance: 0.95
*****
*** SIMULATION STATISTICS ***
*****
Games played: 3
Games won: 2
Games lost: 1
Maximum Rolls in a single game: 7
Natural count: 1
Craps count: 0
Maximum Winning streak: 1
Maximum Losing streak: 0
Maximum balance: 0.0 during game: 0
```

Output Statistics:

- This is a very long game as I wanted to get interesting results for the output screen, so I pasted the console output here as a screenshot would too big to fit on a single page. Blue text is user input.
- A quick note about Win/Lose Streak: I assume that winning three games in a row is a two game win streak, as winning a single game would not be a 1 game win streak.
- Output:

Welcome to SimCraps! Enter your user name:

Patrick

Enter the amount of money you will bring to the table:

1000

Patrick 's balance: 1000.00 Playing a new game...

Enter the bet amount between \$1 and \$1000.00:

100

Rolled a 8

Rolled a 8

*****Rolled the point! You win!*****

Patrick 's balance: 1100.00 Playing a new game...

Enter the bet amount between \$1 and \$1100.00:

100

Rolled a 7

*****Natural! You win!*****

Patrick 's balance: 1200.00 Playing a new game...

Enter the bet amount between \$1 and \$1200.00:

100

Rolled a 10

Rolled a 5

Rolled a 11

Rolled a 6

Rolled a 7

*****Crap out! You loose.*****

Patrick 's balance: 1100.00 Playing a new game...

Enter the bet amount between \$1 and \$1100.00:

100

Rolled a 4

Rolled a 10

Rolled a 8

Rolled a 8

Rolled a 9

Rolled a 7

*****Crap out! You loose.*****

Patrick 's balance: 1000.00 Playing a new game...

Enter the bet amount between \$1 and \$1000.00:

100

Rolled a 2

*****Craps! You loose.*****

Patrick 's balance: 900.00 Playing a new game...

Enter the bet amount between \$1 and \$900.00:

100

Rolled a 4

Rolled a 10

Rolled a 11

Rolled a 9

Rolled a 7

*****Crap out! You loose.*****

Patrick 's balance: 800.00 Playing a new game...

Enter the bet amount between \$1 and \$800.00:

100

Rolled a 4

Rolled a 7

*****Crap out! You loose.*****

Patrick 's balance: 700.00 Playing a new game...

Enter the bet amount between \$1 and \$700.00:

100

Rolled a 5

Rolled a 2

Rolled a 8

Rolled a 12

Rolled a 2

Rolled a 5

*****Rolled the point! You win!*****

Patrick 's balance: 800.00 Playing a new game...

Enter the bet amount between \$1 and \$800.00:

100

Rolled a 10

Rolled a 9

Rolled a 5

Rolled a 7

*****Crap out! You loose.*****

Patrick 's balance: 700.00 Playing a new game...

Enter the bet amount between \$1 and \$700.00:

100

Rolled a 9

Rolled a 6

Rolled a 7

*****Crap out! You loose.*****

Patrick 's balance: 600.00 Playing a new game...

Enter the bet amount between \$1 and \$600.00:

100

Rolled a 7

*****Natural! You win!*****

Patrick 's balance: 700.00 Playing a new game...

Enter the bet amount between \$1 and \$700.00:

100

Rolled a 6

Rolled a 5

Rolled a 6

*****Rolled the point! You win!*****

Patrick 's balance: 800.00 Playing a new game...

Enter the bet amount between \$1 and \$800.00:

800

Rolled a 7

*****Natural! You win!*****

Patrick 's balance: 1600.00 Playing a new game...

Enter the bet amount between \$1 and \$1600.00:

1600

Rolled a 6

Rolled a 6

*****Rolled the point! You win!*****

Patrick 's balance: 3200.00 Playing a new game...

Enter the bet amount between \$1 and \$3200.00:

3200

Rolled a 6

Rolled a 4

Rolled a 3

Rolled a 7

*****Crap out! You loose.*****

Patrick 's balance: 0.00

*** SIMULATION STATISTICS ***

Games played: 15

Games won: 7

Games lost: 8

Maximum Rolls in a single game: 6

Natural count: 3

Craps count: 1

Maximum Winning streak: 3

Maximum Losing streak: 4

Maximum balance: 0.0 during game: 0

Process finished with exit code 0