Flush Bot Evaluation and Comparison
CSC 570

This document outlines the steps taken in the evaluation of the updated flush bot and comparison to the original flush bot.

The original flush bot is tested using the unaltered flush bot logic from the repository we forked (https://github.com/besteon/balatrobot). This file is available in our repository under the name: flush_bot_original.py.

The updated flush bot (flush_bot.py in our repository) builds upon the original flush bot by buying jokers, selling jokers, and rerolling the shop.

The two bots' performance was evaluated by running each 40 times and recording the final round reached (i.e., the round the bot loses).

The following tables show the performance of the two bots over the 40 tests. This data was inserted into a graph generator (https://histogrammaker.net/) to produce the given histograms.
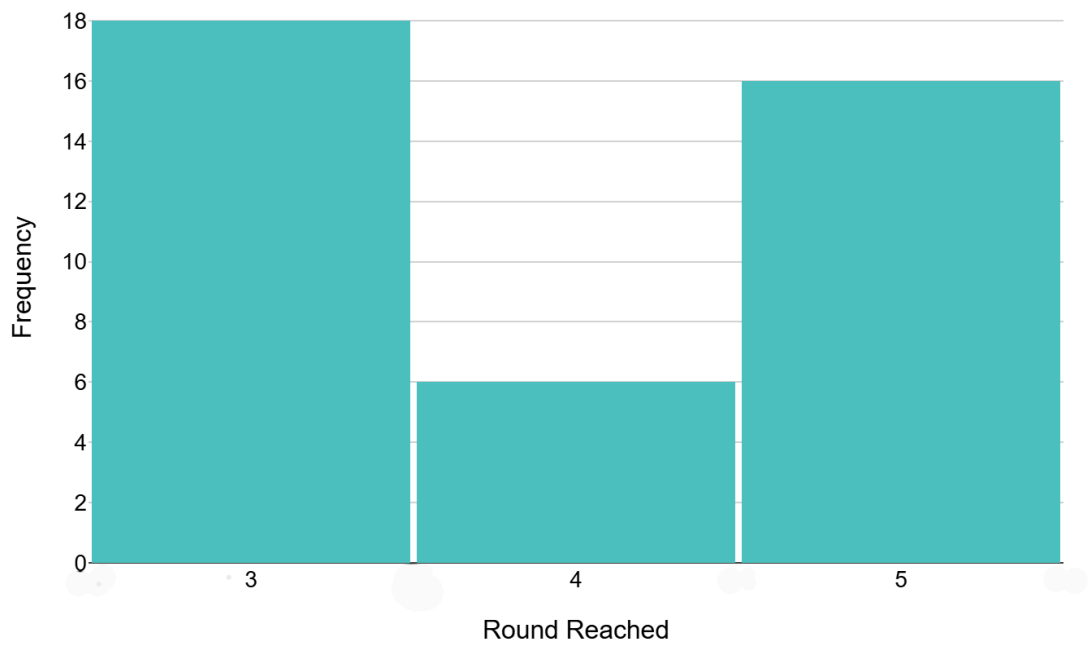
Original Flush Bot Testing

Test Run	Round Reached
1	3
2	3
3	4
4	5
5	3
6	5
7	3
8	4
9	5
10	3
11	4
12	3

13	3
14	3
15	5
16	5
17	3
18	5
19	3
20	5
21	3
22	5
23	5
24	3
25	3
26	4
27	5
28	4
29	3
30	5
31	3
32	5
33	3
34	5
35	4
36	5
37	3
38	5
39	5

40	3

Performance of Original Flush Bot

Round Reached

Updated Flush Bot Testing

Test Run	Round Reached
1	8
2	10
3	11
4	12
5	11
6	9
7	15
8	10
9	12
10	10

11	8
12	11
13	15
14	12
15	11
16	18
17	10
18	12
19	9
20	13
21	11
22	12
23	10
24	15
25	12
26	8
27	14
28	11
29	9
30	13
31	12
32	10
33	12
34	9
35	11
36	8
37	9

38	11
39	13
40	11

Performance of Updated Flush Bot