

Data Cleaning and Analysis Script for CSCI526 ChestNut Game Entropy

```
In [6]: import pandas as pd
import numpy as np
import seaborn as sns
import matplotlib.pyplot as plt
import math
import os

line = '\n=====
=====\\n'
```

```
In [7]: df = pd.read_csv(file_name)
```

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In [8]: df.drop(columns=['Timestamp'], inplace=True)
```

```
In [10]: display(df)
```

	Player ID	Tag	Time
0	638008380431898	lv0-start	638008515575231
1	638008380431898	lv0-item-redcube	638008515668920
2	638008380431898	lv0-item-redcube	638008515723151
3	638008380431898	lv0-item-bluecube	638008515973296
4	638008380431898	lv0-item-bluecube	638008515975293
...
4396	638009521531898	lv3-start	638010109205049
4397	638009521531898	lv3-item-redcube	638010109305071
4398	638009521531898	lv3-item-redcube	638010109316404
4399	638009521531898	lv3-cp-1	638010109356597
4400	638009521531898	lv3-settings	638010109468005

4401 rows × 3 columns

```
In [11]: gb = df.groupby('Player ID')
player_list = [gb.get_group(x) for x in gb.groups]
```

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In [12]: start_list = ['lv0-start', 'lv1-start', 'lv2-start', 'lv3-start', 'lv4-start']
end_list = ['lv0-success', 'lv1-success', 'lv2-success', 'lv3-success', 'lv4-s
uccess',
            'lv0-death', 'lv1-death', 'lv2-death', 'lv3-death', 'lv4-death',
            'lv0-quit', 'lv1-quit', 'lv2-quit', 'lv3-quit', 'lv4-quit']
pause_list = ['lv0-pause', 'lv1-pause', 'lv2-pause', 'lv3-pause', 'lv4-pause']
resume_list = ['lv0-resume', 'lv1-resume', 'lv2-resume', 'lv3-resume', 'lv4-re
sume']
player_game_list = []

for player_df in player_list:
    #display(player_df)

    #print(player_game_list)
    player_df = player_df.sort_values(['Time'], ascending=True)
    game_list = []
    started = -1
    seq_list = []
    for index, row in player_df.iterrows():
        if row['Tag'] in start_list:
            if started == -1:
                started = start_list.index(row['Tag'])
                seq_list.append([row['Tag'], row['Time']])
            else:
                started = start_list.index(row['Tag'])
                seq_list = []
                seq_list.append([row['Tag'], row['Time']])
        elif row['Tag'] in end_list:
            if started != -1:
                seq_list.append([row['Tag'], row['Time']])
                game_list.append(seq_list)
                seq_list = []
                started = -1
            elif started != -1:
                seq_list.append([row['Tag'], row['Time']])
    #display(row['Tag'])
    player_game_list.append([player_df.iloc[0]['Player ID'], game_list])

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In [13]: level_name = ['Level 0', 'Level 1', 'Level 2', 'Level 3', 'Level 4']
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```
for item in player_game_list:
    print(line)
    print('Player ID: %d'%(item[0]))
    for game in item[1]:
        print('\nPlayed Level %d'%(start_list.index(game[0][0])))
        for cp in game:
            print('%s'%(cp[0]), end='')
        print('\nGame Time: %f'%((game[len(game)-1][1] - game[0][1])/10000))
```

=====

Player ID: 638008380431898

Played Level 0

lv0-start lv0-item-redcube lv0-item-redcube lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-success

Game Time: 44.926800

Played Level 0

lv0-start lv0-settings lv0-resume lv0-settings lv0-quit

Game Time: 5.137000

Played Level 1

lv1-start lv1-item-redcube lv1-settings lv1-quit

Game Time: 11.981400

Played Level 1

lv1-start lv1-settings lv1-quit

Game Time: 6.029900

Played Level 2

lv2-start lv2-item-redcube lv2-item-redcube lv2-item-redcube lv2-settings lv2-quit

Game Time: 16.846200

Played Level 2

lv2-start lv2-item-key lv2-item-bluecube lv2-item-redcube lv2-item-redcube lv2-settings lv2-quit

Game Time: 23.408200

Played Level 2

lv2-start lv2-item-redcube lv2-item-redcube lv2-cp-2 lv2-item-redcube lv2-item-key lv2-item-bluecube lv2-death

Game Time: 57.597000

Played Level 2

lv2-start lv2-cp-1 lv2-item-key lv2-item-redcube lv2-item-redcube lv2-cp-2 lv2-item-key lv2-item-key lv2-cp-3 lv2-item-key lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-cp-5 lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-success

Game Time: 133.315700

Played Level 2

lv2-start lv2-item-redcube lv2-item-redcube lv2-item-key lv2-item-redcube lv2-item-bluecube lv2-cp-2 lv2-item-key lv2-item-key lv2-cp-3 lv2-item-key lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-cp-5 lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-success

Game Time: 132.791300

Played Level 3

lv3-start lv3-item-redcube lv3-item-redcube lv3-cp-1 lv3-settings lv3-quit

Game Time: 22.743200

Played Level 4

lv4-start lv4-cp-0 lv4-item-redcube lv4-item-redcube lv4-cp-1 lv4-item-bluecube lv4-settings lv4-quit

Game Time: 25.263700

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Player ID: 638008528272180

Played Level 0

lv0-start lv0-item-redcube lv0-item-redcube lv0-settings lv0-quit

Game Time: 22.620000

Played Level 0

lv0-start lv0-item-redcube lv0-item-redcube lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-success

Game Time: 39.843000

Played Level 1

lv1-start lv1-item-bluecube lv1-item-redcube lv1-item-redcube lv1-item-redcube lv1-item-bluecube lv1-item-bluecube lv1-item-bluecube lv1-item-bluecube lv1-item-bluecube lv1-success

Game Time: 137.964000

Played Level 2

lv2-start lv2-settings lv2-quit

Game Time: 3.297000

Played Level 2

lv2-start lv2-settings lv2-quit

Game Time: 14.866000

Played Level 2

lv2-start lv2-item-key lv2-item-redcube lv2-item-redcube lv2-item-redcube lv2-cp-2 lv2-item-key lv2-cp-3 lv2-death

Game Time: 62.839000

Played Level 2

lv2-start lv2-item-redcube lv2-item-key lv2-death

Game Time: 17.657000

Played Level 2

lv2-start lv2-item-redcube lv2-item-redcube lv2-item-redcube lv2-item-key lv2-cp-2 lv2-settings lv2-resume lv2-item-key lv2-cp-3 lv2-death

Game Time: 86.021000

Played Level 0

lv0-start lv0-item-redcube lv0-item-redcube lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-success

Game Time: 54.874000

Played Level 1

lv1-start lv1-item-bluecube lv1-item-redcube lv1-item-redcube lv1-settings lv1-quit

Game Time: 12.965000

Played Level 2

lv2-start lv2-item-key lv2-item-bluecube lv2-item-bluecube lv2-item-redcube lv2-item-redcube lv2-item-redcube lv2-item-redcube lv2-cp-2 lv2-item-key lv2-item-key lv2-cp-3 lv2-item-key lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-cp-5 lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-success

Game Time: 128.801000

Played Level 3

lv3-start lv3-settings lv3-resume lv3-settings lv3-quit

Game Time: 15.452000

Played Level 3

lv3-start lv3-settings lv3-quit

Game Time: 11.503000

Played Level 2

lv2-start lv2-settings lv2-quit

Game Time: 4.631000

Played Level 1

lv1-start lv1-settings lv1-quit

Game Time: 3.074000

Played Level 2

lv2-start lv2-settings lv2-quit

Game Time: 4.478000

Played Level 3

lv3-start lv3-settings lv3-resume lv3-settings lv3-quit

Game Time: 7.041000

Played Level 2

lv2-start lv2-settings lv2-quit

Game Time: 3.205000

Played Level 3

lv3-start lv3-settings lv3-quit

Game Time: 2.519000

Played Level 2

lv2-start lv2-settings lv2-quit

Game Time: 21.244000

Played Level 2

lv2-start lv2-settings lv2-quit

Game Time: 5.211000

Played Level 0

lv0-start lv0-settings lv0-quit

Game Time: 2.831000

Played Level 3
lv3-start lv3-settings lv3-quit
Game Time: 3.426000

Played Level 2
lv2-start lv2-settings lv2-quit
Game Time: 2.254000

Played Level 1
lv1-start lv1-settings lv1-quit
Game Time: 7.855000

Played Level 1
lv1-start lv1-settings lv1-quit
Game Time: 8.329000

Played Level 2
lv2-start lv2-settings lv2-quit
Game Time: 3.746000

Played Level 3
lv3-start lv3-settings lv3-quit
Game Time: 3.025000

Played Level 0
lv0-start lv0-settings lv0-quit
Game Time: 2.764000

Played Level 1
lv1-start lv1-settings lv1-quit
Game Time: 4.450000

Played Level 2
lv2-start lv2-settings lv2-quit
Game Time: 12.498000

Played Level 3
lv3-start lv3-item-redcube lv3-item-redcube lv3-cp-1 lv3-settings lv3-quit
Game Time: 21.618000

Played Level 3
lv3-start lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-cp-0 lv3-
item-key lv3-cp-1 lv3-cp-2 lv3-item-key lv3-death
Game Time: 50.288000

Played Level 3
lv3-start lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-item-blue
cube lv3-cp-0 lv3-item-key lv3-cp-2 lv3-item-redcube lv3-item-redcube lv3-dea
th
Game Time: 58.898000

Played Level 3
lv3-start lv3-item-redcube lv3-item-redcube lv3-cp-1 lv3-item-bluecube lv3-cp
-2 lv3-item-key lv3-death
Game Time: 39.473000

Played Level 3

lv3-start lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-cp-0 lv3-item-key lv3-cp-2 lv3-death

Game Time: 51.886000

Played Level 3

lv3-start lv3-item-redcube lv3-item-redcube lv3-cp-1 lv3-item-bluecube lv3-cp-2 lv3-item-key lv3-item-redcube lv3-item-redcube lv3-cp-3 lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-death

Game Time: 116.824000

Played Level 3

lv3-start lv3-item-redcube lv3-item-redcube lv3-cp-1 lv3-item-bluecube lv3-cp-2 lv3-item-key lv3-cp-3 lv3-cp-4 lv3-item-key lv3-cp-5 lv3-cp-6 lv3-cp-8 lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-item-redcube lv3-item-redcube lv3-cp-9 lv3-item-key lv3-item-key lv3-item-key lv3-success

Game Time: 256.924000

Played Level 4

lv4-start lv4-cp-0 lv4-item-redcube lv4-item-redcube lv4-death

Game Time: 28.235000

Played Level 4

lv4-start lv4-cp-0 lv4-item-redcube lv4-item-redcube lv4-cp-1 lv4-item-bluecube lv4-item-bluecube lv4-item-bluecube lv4-item-bluecube lv4-cp-2 lv4-cp-4 lv4-item-key lv4-cp-3 lv4-cp-5 lv4-cp-4 lv4-cp-5 lv4-cp-6 lv4-item-bluecube lv4-item-bluecube lv4-item-bluecube lv4-cp-7 lv4-item-redcube lv4-item-redcube lv4-item-redcube lv4-cp-8 lv4-success

Game Time: 281.604000

Played Level 4

lv4-start lv4-cp-0 lv4-item-redcube lv4-item-redcube lv4-cp-1 lv4-item-bluecube lv4-item-bluecube lv4-item-bluecube lv4-item-bluecube lv4-cp-2 lv4-cp-4 lv4-item-key lv4-cp-2 lv4-death

Game Time: 60.949000

Played Level 4

lv4-start lv4-cp-0 lv4-item-redcube lv4-item-redcube lv4-cp-1 lv4-item-bluecube lv4-item-bluecube lv4-item-bluecube lv4-item-bluecube lv4-cp-2 lv4-cp-4 lv4-item-key lv4-cp-3 lv4-settings lv4-resume lv4-cp-5 lv4-settings lv4-resume lv4-cp-4 lv4-cp-5 lv4-cp-6 lv4-cp-7 lv4-item-redcube lv4-item-redcube lv4-item-redcube lv4-cp-8 lv4-item-redcube lv4-success

Game Time: 239.113000

Played Level 1

lv1-start lv1-item-bluecube lv1-item-bluecube lv1-item-bluecube lv1-item-bluecube lv1-settings lv1-quit

Game Time: 68.573000

Played Level 1

lv1-start lv1-item-bluecube lv1-item-bluecube lv1-item-bluecube lv1-item-bluecube lv1-item-redcube lv1-item-redcube lv1-death

Game Time: 113.276000

Played Level 1

lv1-start lv1-item-redcube lv1-settings lv1-quit

Game Time: 11.848000

Played Level 2

lv2-start lv2-item-key lv2-item-redcube lv2-item-redcube lv2-item-redcube lv2-cp-2 lv2-item-key lv2-cp-3 lv2-cp-5 lv2-item-bluecube lv2-item-bluecube lv2-success

Game Time: 65.123000

Played Level 1

lv1-start lv1-settings lv1-resume lv1-item-bluecube lv1-item-bluecube lv1-item-bluecube lv1-item-bluecube lv1-item-redcube lv1-item-redcube lv1-item-redcube lv1-death

Game Time: 68.188000

Played Level 1

lv1-start lv1-item-redcube lv1-item-redcube lv1-item-redcube lv1-item-redcube lv1-settings lv1-quit

Game Time: 86.736000

Played Level 1

lv1-start lv1-item-redcube lv1-item-redcube lv1-item-redcube lv1-death

Game Time: 75.686000

Played Level 1

lv1-start lv1-item-bluecube lv1-item-bluecube lv1-item-bluecube lv1-item-redcube lv1-item-redcube lv1-item-redcube lv1-item-bluecube lv1-item-bluecube lv1-item-bluecube lv1-success

Game Time: 83.080000

Played Level 2

lv2-start lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-key lv2-item-key lv2-item-key lv2-item-redcube lv2-item-redcube lv2-item-redcube lv2-item-redcube lv2-cp-0 lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-death

Game Time: 72.864000

Played Level 2

lv2-start lv2-item-redcube lv2-item-redcube lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-key lv2-item-key lv2-item-key lv2-item-redcube lv2-item-redcube lv2-item-redcube lv2-item-redcube lv2-item-redcube lv2-cp-0 lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-cp-1 lv2-item-redcube lv2-death

Game Time: 93.401000

Played Level 2

lv2-start lv2-item-redcube lv2-item-redcube lv2-item-redcube lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-key lv2-item-key lv2-item-key lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-redcube lv2-item-redcube lv2-item-redcube lv2-item-redcube lv2-item-redcube lv2-cp-0 lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-cp-1 lv2-item-redcube lv2-item-redcube lv2-item-key lv2-item-redcube lv2-item-bluecube lv2-item-bluecube lv2-cp-4 lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-redcube

lv2-item-redcube lv2-item-redcube lv2-item-redcube lv2-item-redcube lv2-item-redcube lv2-success

Game Time: 161.339000

Played Level 3

lv3-start lv3-item-redcube lv3-item-redcube lv3-cp-1 lv3-cp-2 lv3-death

Game Time: 34.872000

Played Level 3

lv3-start lv3-settings lv3-resume lv3-item-redcube lv3-item-redcube lv3-cp-1
lv3-cp-2 lv3-item-redcube lv3-death

Game Time: 39.524000

Played Level 3

lv3-start lv3-item-redcube lv3-item-redcube lv3-cp-1 lv3-death

Game Time: 23.506000

Played Level 3

lv3-start lv3-item-redcube lv3-item-redcube lv3-cp-1 lv3-item-bluecube lv3-death

Game Time: 34.866000

Played Level 3

lv3-start lv3-item-redcube lv3-item-redcube lv3-cp-1 lv3-cp-2 lv3-death

Game Time: 23.909000

Played Level 3

lv3-start lv3-item-redcube lv3-item-redcube lv3-cp-1 lv3-item-bluecube lv3-item-bluecube lv3-cp-2 lv3-item-redcube lv3-item-redcube lv3-death

Game Time: 46.606000

Played Level 3

lv3-start lv3-item-redcube lv3-item-redcube lv3-cp-1 lv3-item-bluecube lv3-item-key lv3-death

Game Time: 46.710000

Played Level 3

lv3-start lv3-item-redcube lv3-item-redcube lv3-cp-1 lv3-item-bluecube lv3-item-bluecube lv3-death

Game Time: 27.166000

Played Level 3

lv3-start lv3-item-redcube lv3-item-redcube lv3-cp-1 lv3-item-key lv3-death

Game Time: 34.526000

Played Level 3

lv3-start lv3-item-redcube lv3-item-redcube lv3-cp-1 lv3-cp-2 lv3-death

Game Time: 26.531000

Played Level 3

lv3-start lv3-item-redcube lv3-item-redcube lv3-cp-1 lv3-cp-2 lv3-item-key lv3-item-redcube lv3-cp-3 lv3-cp-4 lv3-item-key lv3-cp-5 lv3-cp-6 lv3-cp-8 lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-item-redcube lv3-item-redcube lv3-death

Game Time: 137.726000

Played Level 3

lv3-start lv3-item-redcube lv3-item-redcube lv3-cp-1 lv3-cp-2 lv3-death

Game Time: 22.746000

Played Level 3

lv3-start lv3-item-redcube lv3-item-redcube lv3-cp-1 lv3-item-key lv3-item-re
dcube lv3-cp-3 lv3-cp-4 lv3-item-key lv3-item-key lv3-item-key lv3-item-key 1
v3-cp-10 lv3-item-key lv3-success

Game Time: 90.109000

Played Level 4

lv4-start lv4-cp-0 lv4-settings lv4-quit

Game Time: 11.258000

Played Level 4

lv4-start lv4-cp-0 lv4-item-redcube lv4-item-redcube lv4-cp-1 lv4-death

Game Time: 25.005000

Played Level 4

lv4-start lv4-cp-0 lv4-item-redcube lv4-item-redcube lv4-cp-1 lv4-item-bluecu
be lv4-item-bluecube lv4-item-bluecube lv4-item-bluecube lv4-cp-2 lv4-cp-4 lv
4-item-key lv4-cp-3 lv4-cp-5 lv4-cp-4 lv4-cp-5 lv4-cp-6 lv4-item-bluecube lv4
-item-bluecube lv4-death

Game Time: 142.730000

Played Level 2

lv2-start lv2-item-key lv2-item-redcube lv2-item-redcube lv2-item-redcube lv2
-cp-2 lv2-item-key lv2-item-key lv2-cp-3 lv2-success

Game Time: 69.290000

Played Level 1

lv1-start lv1-item-redcube lv1-item-redcube lv1-item-redcube lv1-success

Game Time: 77.020000

Played Level 2

lv2-start lv2-cp-1 lv2-cp-4 lv2-success

Game Time: 52.543000

Played Level 3

lv3-start lv3-item-redcube lv3-item-redcube lv3-settings lv3-quit

Game Time: 17.383000

Played Level 3

lv3-start lv3-settings lv3-resume lv3-item-bluecube lv3-item-bluecube lv3-ite
m-bluecube lv3-cp-0 lv3-item-key lv3-death

Game Time: 92.299000

Played Level 3

lv3-start lv3-item-redcube lv3-item-redcube lv3-cp-1 lv3-item-key lv3-cp-3 lv
3-cp-4 lv3-item-key lv3-death

Game Time: 50.428000

Played Level 0

lv0-start lv0-item-redcube lv0-item-redcube lv0-settings lv0-quit

Game Time: 25.767000

Game Time: 23.759000

Played Level 4

lv4-start lv4-cp-0 lv4-item-redcube lv4-item-redcube lv4-cp-1 lv4-item-bluecube lv4-item-bluecube lv4-item-bluecube lv4-item-bluecube lv4-cp-2 lv4-cp-3 lv4-cp-7 lv4-death

Game Time: 198.375000

Played Level 4

lv4-start lv4-cp-0 lv4-item-redcube lv4-item-redcube lv4-cp-1 lv4-item-bluecube lv4-item-bluecube lv4-item-bluecube lv4-item-bluecube lv4-cp-2 lv4-cp-3 lv4-item-redcube lv4-item-redcube lv4-item-redcube lv4-item-redcube lv4-cp-8 lv4-success

Game Time: 190.754000

Played Level 4

lv4-start lv4-cp-0 lv4-item-redcube lv4-item-redcube lv4-cp-1 lv4-item-bluecube lv4-item-bluecube lv4-item-bluecube lv4-item-bluecube lv4-cp-2 lv4-cp-3 lv4-cp-5 lv4-cp-4 lv4-item-key lv4-cp-5 lv4-cp-6 lv4-item-bluecube lv4-item-bluecube lv4-item-bluecube lv4-cp-7 lv4-item-redcube lv4-item-redcube lv4-item-redcube lv4-cp-8 lv4-item-redcube lv4-success

Game Time: 243.076000

Played Level 3

lv3-start lv3-settings lv3-resume lv3-settings lv3-resume lv3-settings lv3-quit

Game Time: 76.768000

Played Level 3

lv3-start lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-cp-0 lv3-item-key lv3-cp-2 lv3-item-redcube lv3-item-redcube lv3-item-redcube lv3-item-key lv3-death

Game Time: 58.005000

Played Level 3

lv3-start lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-cp-0 lv3-item-key lv3-cp-2 lv3-item-redcube lv3-death

Game Time: 27.798000

Played Level 3

lv3-start lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-cp-0 lv3-item-key lv3-cp-2 lv3-item-redcube lv3-item-redcube lv3-item-redcube lv3-item-redcube lv3-item-key lv3-cp-3 lv3-cp-5 lv3-cp-6 lv3-item-redcube lv3-cp-8 lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-death

Game Time: 132.998000

Played Level 3

lv3-start lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-cp-0 lv3-item-key lv3-cp-2 lv3-item-redcube lv3-item-redcube lv3-item-redcube lv3-item-redcube lv3-death

Game Time: 37.655000

Played Level 3

lv3-start lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-cp-0 lv3-item-key lv3-cp-2 lv3-item-redcube lv3-item-redcube lv3-item-redcube lv3-item-redcube

-redcube lv3-item-key lv3-cp-3 lv3-cp-5 lv3-cp-6 lv3-item-redcube lv3-cp-8 lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-cp-9 lv3-item-key lv3-item-key lv3-item-key lv3-cp-11 lv3-item-redcube lv3-item-key lv3-success
Game Time: 199.321000

Played Level 1

lv1-start lv1-item-redcube lv1-item-redcube lv1-item-bluecube lv1-item-bluecube lv1-item-bluecube lv1-item-bluecube lv1-item-bluecube lv1-success
Game Time: 129.859000

Played Level 2

lv2-start lv2-item-redcube lv2-item-redcube lv2-item-key lv2-item-redcube lv2-item-redcube lv2-item-bluecube lv2-cp-2 lv2-item-key lv2-death
Game Time: 122.728000

Played Level 2

lv2-start lv2-item-redcube lv2-settings lv2-resume lv2-settings lv2-quit
Game Time: 114.396000

Played Level 2

lv2-start lv2-settings lv2-quit
Game Time: 13.963000

Played Level 2

lv2-start lv2-item-redcube lv2-item-redcube lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-key lv2-item-key lv2-item-key lv2-item-bluecube lv2-item-redcube lv2-item-redcube lv2-item-redcube lv2-item-redcube lv2-cp-0 lv2-settings lv2-resume lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-cp-1 lv2-cp-4 lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-cp-1 lv2-item-redcube lv2-item-redcube lv2-item-redcube lv2-item-key lv2-death
Game Time: 299.848000

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Player ID: 638008545287200

Played Level 0

lv0-start lv0-item-redcube lv0-item-redcube lv0-item-redcube lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-death
Game Time: 83.212000

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Player ID: 638008551386350

Played Level 0

lv0-start lv0-item-redcube lv0-item-redcube lv0-item-redcube lv0-settings lv0-resume lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-settings lv0-resume lv0-success
Game Time: 115.641000

Played Level 1
lv1-start lv1-item-bluecube lv1-item-redcube lv1-item-redcube lv1-item-redcube lv1-death
Game Time: 86.050000

Played Level 1
lv1-start lv1-item-redcube lv1-item-redcube lv1-item-redcube lv1-success
Game Time: 31.802000

Played Level 2
lv2-start lv2-item-redcube lv2-item-redcube lv2-item-bluecube lv2-cp-2 lv2-death
Game Time: 32.336000

Played Level 2
lv2-start lv2-item-redcube lv2-item-redcube lv2-death
Game Time: 15.100000

Played Level 2
lv2-start lv2-item-redcube lv2-item-redcube lv2-item-redcube lv2-item-redcube lv2-item-key lv2-cp-2 lv2-item-key lv2-cp-3 lv2-item-key lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-cp-5 lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-redcube lv2-item-redcube lv2-item-redcube lv2-item-redcube lv2-item-redcube lv2-success
Game Time: 118.618000

Played Level 3
lv3-start lv3-item-redcube lv3-item-redcube lv3-cp-1 lv3-item-bluecube lv3-cp-2 lv3-death
Game Time: 132.803000

Played Level 3
lv3-start lv3-item-redcube lv3-item-redcube lv3-cp-1 lv3-item-bluecube lv3-item-bluecube lv3-cp-2 lv3-settings lv3-resume lv3-item-redcube lv3-item-redcube lv3-item-key lv3-death
Game Time: 47.015000

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Player ID: 638008566103940

Played Level 0
lv0-start lv0-item-redcube lv0-settings lv0-quit
Game Time: 28.286000

Played Level 0
lv0-start lv0-settings lv0-resume lv0-item-redcube lv0-item-redcube lv0-item-redcube lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-success
Game Time: 64.324000

Played Level 1
lv1-start lv1-item-bluecube lv1-item-bluecube lv1-item-redcube lv1-death
Game Time: 47.246000

Played Level 1
lv1-start lv1-success
Game Time: 40.539000

Played Level 2
lv2-start lv2-item-redcube lv2-item-redcube lv2-item-key lv2-item-redcube lv2-cp-2 lv2-item-key lv2-item-key lv2-cp-3 lv2-item-key lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-cp-5 lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-success
Game Time: 113.451000

Played Level 3
lv3-start lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-cp-0 lv3-item-key lv3-cp-2 lv3-death
Game Time: 33.075000

Played Level 3
lv3-start lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-cp-0 lv3-item-key lv3-cp-2 lv3-item-redcube lv3-item-redcube lv3-item-redcube lv3-item-key lv3-item-redcube lv3-cp-3 lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-cp-4 lv3-item-key lv3-cp-5 lv3-cp-6 lv3-item-redcube lv3-item-redcube lv3-cp-8 lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-item-redcube lv3-item-redcube lv3-death
Game Time: 130.628000

Played Level 3
lv3-start lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-cp-0 lv3-item-key lv3-cp-2 lv3-item-redcube lv3-item-redcube lv3-item-redcube lv3-death
Game Time: 35.234000

Played Level 3
lv3-start lv3-item-redcube lv3-item-redcube lv3-cp-1 lv3-item-bluecube lv3-cp-2 lv3-item-key lv3-item-redcube lv3-cp-3 lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-cp-4 lv3-item-key lv3-cp-5 lv3-cp-6 lv3-item-redcube lv3-item-redcube lv3-cp-8 lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-item-redcube lv3-item-redcube lv3-cp-9 lv3-item-key lv3-item-key lv3-item-key lv3-cp-11 lv3-death
Game Time: 114.365000

Played Level 3
lv3-start lv3-item-redcube lv3-item-redcube lv3-cp-1 lv3-death
Game Time: 17.066000

Played Level 3
lv3-start lv3-item-redcube lv3-item-redcube lv3-cp-1 lv3-item-bluecube lv3-cp-2 lv3-item-key lv3-item-redcube lv3-cp-3 lv3-item-bluecube lv3-item-bluecube lv3-cp-5 lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-cp-4 lv3-item-key lv3-cp-5 lv3-cp-6 lv3-item-redcube lv3-item-redcube lv3-cp-8 lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-item-redcube lv3-item-redcube lv3-item-redcube lv3-cp-9 lv3-item-key lv3-item-key lv3-item-key lv3-cp-11 lv3-success
Game Time: 139.091000

Played Level 4

lv4-start lv4-cp-0 lv4-item-redcube lv4-item-redcube lv4-cp-1 lv4-item-bluecube lv4-item-bluecube lv4-item-bluecube lv4-cp-2 lv4-cp-3 lv4-cp-5 lv4-cp-4 lv4-item-key lv4-cp-5 lv4-cp-6 lv4-item-bluecube lv4-item-bluecube lv4-item-bluecube lv4-cp-7 lv4-item-redcube lv4-item-redcube lv4-cp-8 lv4-item-redcube lv4-success

Game Time: 149.366000

Played Level 2

lv2-start lv2-item-redcube lv2-item-redcube lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-key lv2-item-key lv2-item-key lv2-item-bluecube lv2-item-bluecube lv2-item-redcube lv2-item-redcube lv2-item-redcube lv2-item-bluecube lv2-item-bluecube lv2-item-redcube lv2-item-redcube lv2-cp-0 lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-cp-1 lv2-cp-4 lv2-death

Game Time: 109.585000

Played Level 3

lv3-start lv3-item-redcube lv3-item-redcube lv3-settings lv3-quit

Game Time: 14.397000

Played Level 3

lv3-start lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-settings lv3-quit

Game Time: 12.768000

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Player ID: 638008569604387

Played Level 0

lv0-start lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-cp-0 lv0-item-redcube lv0-item-redcube lv0-item-redcube lv0-death

Game Time: 95.035400

Played Level 0

lv0-start lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-cp-0 lv0-item-redcube lv0-item-redcube lv0-item-redcube lv0-item-redcube lv0-death

Game Time: 43.410100

Played Level 0

lv0-start lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-cp-0 lv0-item-redcube lv0-item-redcube lv0-item-redcube lv0-cp-1 lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-success

Game Time: 77.455800

Played Level 1

lv1-start lv1-item-bluecube lv1-item-bluecube lv1-item-redcube lv1-item-redcube lv1-item-redcube lv1-item-redcube lv1-cp-0 lv1-death

Game Time: 19.113900

Played Level 1
lv1-start lv1-item-redcube lv1-item-redcube lv1-item-redcube lv1-cp-0 lv1-death
Game Time: 21.091600

Played Level 1
lv1-start lv1-item-bluecube lv1-item-bluecube lv1-item-bluecube lv1-cp-0 lv1-item-key lv1-item-redcube lv1-item-bluecube lv1-item-bluecube lv1-item-redcube lv1-item-bluecube lv1-cp-1 lv1-death
Game Time: 21.493200

Played Level 1
lv1-start lv1-item-bluecube lv1-item-bluecube lv1-item-bluecube lv1-cp-0 lv1-item-redcube lv1-item-bluecube lv1-item-redcube lv1-item-bluecube lv1-item-bluecube lv1-item-key lv1-cp-1 lv1-death
Game Time: 72.573700

Played Level 1
lv1-start lv1-item-bluecube lv1-item-bluecube lv1-item-bluecube lv1-cp-0 lv1-pause lv1-quit
Game Time: 7.723600

Played Level 1
lv1-start lv1-item-redcube lv1-item-redcube lv1-item-redcube lv1-cp-0 lv1-item-redcube lv1-death
Game Time: 21.796400

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Player ID: 638008590269450

Played Level 0
lv0-start lv0-settings lv0-resume lv0-item-redcube lv0-item-redcube lv0-item-redcube lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-success
Game Time: 102.679000

Played Level 1
lv1-start lv1-item-bluecube lv1-item-bluecube lv1-item-redcube lv1-item-bluecube lv1-item-bluecube lv1-item-bluecube lv1-success
Game Time: 86.634000

Played Level 2
lv2-start lv2-death
Game Time: 16.883000

Played Level 2
lv2-start lv2-cp-1 lv2-success
Game Time: 64.431000

Played Level 3
lv3-start lv3-item-redcube lv3-item-redcube lv3-cp-1 lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-cp-2 lv3-item-redcube lv3-item-redcube lv3-item-redcube lv3-settings lv3-resume lv3-item-key lv3-death
Game Time: 109.536000

Played Level 3

lv3-start lv3-item-redcube lv3-item-redcube lv3-cp-1 lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-cp-2 lv3-item-redcube lv3-item-redcube lv3-item-redcube lv3-item-redcube lv3-item-key lv3-item-redcube lv3-cp-3 lv3-item-bluecube lv3-item-bluecube lv3-cp-4 lv3-item-key lv3-item-redcube lv3-cp-5 lv3-cp-6 lv3-item-redcube lv3-cp-7 lv3-cp-8 lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-item-redcube lv3-cp-9 lv3-success

Game Time: 158.900000

Played Level 4

lv4-start lv4-cp-0 lv4-item-redcube lv4-item-redcube lv4-cp-1 lv4-item-bluecube lv4-item-bluecube lv4-item-bluecube lv4-cp-2 lv4-cp-3 lv4-cp-5 lv4-cp-4 lv4-item-key lv4-cp-5 lv4-cp-6 lv4-item-bluecube lv4-item-bluecube lv4-item-bluecube lv4-cp-7 lv4-item-redcube lv4-item-redcube lv4-item-redcube lv4-item-redcube lv4-cp-8 lv4-success

Game Time: 121.100000

Played Level 3

lv3-start lv3-item-redcube lv3-item-redcube lv3-cp-1 lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-cp-2 lv3-item-redcube lv3-item-redcube lv3-item-redcube lv3-item-key lv3-item-redcube lv3-cp-3 lv3-item-bluecube lv3-item-bluecube lv3-cp-4 lv3-item-key lv3-cp-5 lv3-cp-6 lv3-item-redcube lv3-item-redcube lv3-cp-7 lv3-death

Game Time: 101.085000

Played Level 3

lv3-start lv3-item-redcube lv3-item-redcube lv3-cp-1 lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-cp-2 lv3-item-redcube lv3-item-redcube lv3-item-redcube lv3-item-key lv3-death

Game Time: 44.335000

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Player ID: 638008598878270

Played Level 0

lv0-start lv0-item-redcube lv0-item-redcube lv0-item-redcube lv0-settings lv0-resume lv0-settings lv0-quit

Game Time: 55.677000

Played Level 0

lv0-start lv0-item-redcube lv0-item-redcube lv0-item-redcube lv0-success

Game Time: 116.408000

Played Level 1

lv1-start lv1-item-bluecube lv1-item-bluecube lv1-item-bluecube lv1-item-bluecube lv1-item-bluecube lv1-item-bluecube lv1-item-redcube lv1-item-redcube lv1-item-bluecube lv1-item-bluecube lv1-item-bluecube lv1-settings lv1-quit

Game Time: 257.687000

Played Level 1

lv1-start lv1-item-redcube lv1-item-redcube lv1-item-redcube lv1-settings lv1-quit

Game Time: 159.648000

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lv1-start lv1-item-bluecube lv1-item-bluecube lv1-item-bluecube lv1-item-blue
cube lv1-item-redcube lv1-success
Game Time: 101.126000
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lv2-start lv2-item-key lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube
lv2-item-redcube lv2-item-redcube lv2-item-redcube lv2-item-redcube lv2-item-
redcube lv2-item-redcube lv2-item-redcube lv2-item-redcube lv2-item-redcube 1
lv2-item-redcube lv2-death
Game Time: 72.144000
```

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lv2-start lv2-item-redcube lv2-item-redcube lv2-item-bluecube lv2-item-bluecube
lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-
lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-ite
m-key lv2-item-key lv2-item-key lv2-item-bluecube lv2-item-bluecube lv2-item-
bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-redcu
be lv2-item-redcube lv2-item-redcube lv2-item-redcube lv2-item-redcube lv2-it
em-redcube lv2-cp-0 lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2
-cp-1 lv2-cp-4 lv2-cp-1 lv2-death
Game Time: 185.095000
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Player ID: 638008600192706

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lv0-start lv0-item-redcube lv0-item-redcube lv0-item-bluecube lv0-item-bluecube
lv0-item-bluecube lv0-item-bluecube lv0-success
Game Time: 42.580400
```

```
lv1-start lv1-item-bluecube lv1-item-bluecube lv1-item-bluecube lv1-item-blue
cube lv1-item-bluecube lv1-success
Game Time: 76.887500
```

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lv2-start lv2-item-key lv2-item-redcube lv2-item-redcube lv2-item-redcube lv2
-item-bluecube lv2-cp-2 lv2-item-key lv2-item-key lv2-cp-3 lv2-item-key lv2-i
tem-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-cp-5 l
v2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-it
em-bluecube lv2-success
Game Time: 112.443500
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```

Player ID: 638008607941275

```
lv0-start lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-cp-0 lv0-
item-redcube lv0-item-redcube lv0-item-redcube lv0-cp-1 lv0-death
Game Time: 88.665700
```

Played Level 0

lv0-start lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-cp-0 lv0-item-redcube lv0-item-redcube lv0-item-redcube lv0-item-redcube lv0-cp-1 lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-success

Game Time: 53.361600

Played Level 0

lv0-start lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-blue cube lv0-cp-0 lv0-item-redcube lv0-item-redcube lv0-item-redcube lv0-item-red cube lv0-cp-1 lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-succe ss

Game Time: 53.132600

Played Level 0

lv0-start lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-blue cube lv0-item-bluecube lv0-cp-0 lv0-item-redcube lv0-item-redcube lv0-item-re dcube lv0-item-redcube lv0-cp-1 lv0-item-bluecube lv0-item-bluecube lv0-item- bluecube lv0-item-bluecube lv0-death

Game Time: 70.537800

Played Level 0

lv0-start lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-cp-0 lv0-item-redcube lv0-item-redcube lv0-item-redcube lv0-cp-1 lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-succe ss

Game Time: 52.622500

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Player ID: 638008632608830

Played Level 0

lv0-start lv0-item-redcube lv0-item-redcube lv0-item-redcube lv0-settings lv0 -quit

Game Time: 101.535000

Played Level 0

lv0-start lv0-item-redcube lv0-item-redcube lv0-item-redcube lv0-item-bluecub e lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0 -item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-success

Game Time: 97.708000

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Player ID: 638008637016265

Played Level 0

lv0-start lv0-item-redcube lv0-item-redcube lv0-item-bluecube lv0-item-bluecu be lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv 0-item-bluecube lv0-success

Game Time: 94.093900

Played Level 1

lv1-start lv1-item-redcube lv1-item-redcube lv1-item-redcube lv1-success
Game Time: 139.593400

Played Level 2
lv2-start lv2-item-redcube lv2-item-key lv2-item-bluecube lv2-item-redcube lv
2-item-bluecube lv2-cp-2 lv2-death
Game Time: 22.132800

Played Level 2
lv2-start lv2-item-redcube lv2-item-redcube lv2-item-redcube lv2-item-redcube
lv2-item-redcube lv2-item-redcube lv2-cp-2 lv2-item-key lv2-item-bluecube lv2
-item-key lv2-cp-3 lv2-death
Game Time: 97.053800

Played Level 2
lv2-start lv2-settings lv2-quit
Game Time: 4.540300

Played Level 2
lv2-start lv2-death
Game Time: 17.886800

Played Level 2
lv2-start lv2-death
Game Time: 26.467000

Played Level 2
lv2-start lv2-item-redcube lv2-item-redcube lv2-item-key lv2-item-redcube lv2
-cp-2 lv2-item-key lv2-item-key lv2-cp-3 lv2-item-key lv2-item-bluecube lv2-i
tem-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-it
em-bluecube lv2-cp-5 lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-it
em-bluecube lv2-item-bluecube lv2-success
Game Time: 139.708700

Played Level 3
lv3-start lv3-item-redcube lv3-settings lv3-quit
Game Time: 11.420900

Played Level 3
lv3-start lv3-item-redcube lv3-item-redcube lv3-cp-1 lv3-death
Game Time: 26.220200

Played Level 3
lv3-start lv3-settings lv3-quit
Game Time: 3.268300

Played Level 0
lv0-start lv0-settings lv0-quit
Game Time: 2.440000

Played Level 0
lv0-start lv0-settings lv0-quit
Game Time: 8.434500

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Played Level 0
lv0-start lv0-item-redcube lv0-item-redcube lv0-item-redcube lv0-death
Game Time: 91.268000

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```
Played Level 0  
lv0-start lv0-item-redcube lv0-item-redcube lv0-item-bluecube lv0-item-bluecu  
be lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv  
0-item-bluecube lv0-success  
Game Time: 43.000000
```

```

Played Level 0
lv0-start lv0-settings lv0-quit
Game Time: 9.830000

```

```

Played Level 1
lv1-start lv1-settings lv1-quit
Game Time: 9.321000

```

Played Level 0
lv0-start lv0-settings lv0-quit
Game Time: 4.480000

```

Played Level 0
lv0-start lv0-item-redcube lv0-item-redcube lv0-item-bluecube lv0-item-bluecube
lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv
0-settings lv0-quit
Game Time: 66.247000

```

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```

Played Level 0
lv0-start lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-blue
cube lv0-item-bluecube lv0-cp-0 lv0-item-redcube lv0-item-redcube lv0-item-re
dcube lv0-item-redcube lv0-death
Game Time: 39.906100

```

```

Played Level 0
lv0-start lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-blue
cube lv0-item-bluecube lv0-cp-0 lv0-item-redcube lv0-item-redcube lv0-item-re
dcube lv0-death

```


Game Time: 95.033200

Played Level 0

lv0-start lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-blue
cube lv0-item-bluecube lv0-cp-0 lv0-item-redcube lv0-item-redcube lv0-item-re
dcube lv0-item-redcube lv0-death

Game Time: 68.106200

Played Level 0

lv0-start lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-blue
cube lv0-item-bluecube lv0-cp-0 lv0-item-redcube lv0-item-redcube lv0-item-re
dcube lv0-item-redcube lv0-pause lv0-resume lv0-death

Game Time: 139.535900

Played Level 0

lv0-start lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-blue
cube lv0-item-bluecube lv0-cp-0 lv0-item-redcube lv0-item-redcube lv0-item-re
dcube lv0-item-redcube lv0-death

Game Time: 44.895600

Played Level 0

lv0-start lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-blue
cube lv0-item-bluecube lv0-cp-0 lv0-item-redcube lv0-item-redcube lv0-item-re
dcube lv0-item-redcube lv0-death

Game Time: 34.768500

Played Level 0

lv0-start lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-cp-0 lv0-
item-redcube lv0-item-redcube lv0-item-redcube lv0-item-redcube lv0-death

Game Time: 80.742400

Played Level 0

lv0-start lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-blue
cube lv0-item-bluecube lv0-cp-0 lv0-item-redcube lv0-item-redcube lv0-item-re
dcube lv0-item-redcube lv0-cp-1 lv0-item-bluecube lv0-item-bluecube lv0-item-
bluecube lv0-item-bluecube lv0-success

Game Time: 57.750500

Played Level 1

lv1-start lv1-pause lv1-quit

Game Time: 13.397100

Played Level 1

lv1-start lv1-pause lv1-quit

Game Time: 3.079200

Played Level 1

lv1-start lv1-item-redcube lv1-item-redcube lv1-item-bluecube lv1-item-bluecu
be lv1-item-bluecube lv1-item-redcube lv1-item-redcube lv1-pause lv1-quit

Game Time: 47.002500

Played Level 1

lv1-start lv1-item-bluecube lv1-item-bluecube lv1-item-bluecube lv1-cp-0 lv1-
item-key lv1-item-bluecube lv1-item-redcube lv1-item-bluecube lv1-item-bluecu
be lv1-item-redcube lv1-cp-1 lv1-success

Game Time: 43.901900

Played Level 2
lv2-start lv2-item-bluecube lv2-death
Game Time: 49.593100

Played Level 2
lv2-start lv2-item-bluecube lv2-item-bluecube lv2-pause lv2-quit
Game Time: 77.211400

Played Level 2
lv2-start lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-blue
cube lv2-item-redcube lv2-item-redcube lv2-death
Game Time: 92.389200

Played Level 2
lv2-start lv2-pause lv2-quit
Game Time: 7.786400

Played Level 2
lv2-start lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-blue
cube lv2-death
Game Time: 79.853300

Played Level 2
lv2-start lv2-death
Game Time: 24.280100

Played Level 0
lv0-start lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-blue
cube lv0-item-bluecube lv0-cp-0 lv0-item-redcube lv0-item-redcube lv0-item-re
dcube lv0-item-redcube lv0-death
Game Time: 53.761000

Played Level 2
lv2-start lv2-death
Game Time: 26.539100

Played Level 2
lv2-start lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-blue
cube lv2-success
Game Time: 33.815500

Played Level 3
lv3-start lv3-item-redcube lv3-item-redcube lv3-item-bluecube lv3-item-bluecu
be lv3-item-bluecube lv3-item-bluecube lv3-cp-0 lv3-item-redcube lv3-death
Game Time: 45.062300

Played Level 3
lv3-start lv3-item-redcube lv3-item-redcube lv3-item-bluecube lv3-item-bluecu
be lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv
3-cp-0 lv3-item-redcube lv3-item-redcube lv3-item-redcube lv3-item-redcube lv
3-item-key lv3-cp-1 lv3-item-redcube lv3-item-redcube lv3-cp-3 lv3-pause lv3-
quit
Game Time: 174.243400

Played Level 3

Played Level 4

lv4-start lv4-item-bluecube lv4-item-bluecube lv4-item-bluecube lv4-item-blue
cube lv4-item-redcube lv4-item-redcube lv4-item-redcube lv4-item-redcube lv4-
pause lv4-quit

Game Time: 17.009200

Played Level 4

lv4-start lv4-item-redcube lv4-item-redcube lv4-death

Game Time: 34.369100

Played Level 4

lv4-start lv4-item-bluecube lv4-item-bluecube lv4-item-bluecube lv4-item-blue
cube lv4-item-redcube lv4-item-redcube lv4-item-redcube lv4-item-redcube lv4-
pause lv4-quit

Game Time: 40.466200

Played Level 4

lv4-start lv4-item-bluecube lv4-item-bluecube lv4-item-bluecube lv4-item-blue
cube lv4-item-redcube lv4-item-redcube lv4-item-redcube lv4-item-redcube lv4-
pause lv4-resume lv4-pause lv4-quit

Game Time: 23.566100

Played Level 4

lv4-start lv4-item-bluecube lv4-item-bluecube lv4-item-bluecube lv4-item-blue
cube lv4-item-redcube lv4-item-redcube lv4-item-redcube lv4-item-redcube lv4-
item-key lv4-death

Game Time: 162.978300

Played Level 4

lv4-start lv4-item-redcube lv4-item-redcube lv4-item-redcube lv4-death

Game Time: 47.669500

Played Level 4

lv4-start lv4-item-bluecube lv4-item-bluecube lv4-item-bluecube lv4-item-blue
cube lv4-item-redcube lv4-item-redcube lv4-item-redcube lv4-item-redcube lv4-
death

Game Time: 27.356100

Played Level 4

lv4-start lv4-item-bluecube lv4-item-bluecube lv4-item-bluecube lv4-item-redc
ube lv4-item-bluecube lv4-item-redcube lv4-item-redcube lv4-item-redcube lv4-
death

Game Time: 63.751100

Played Level 4

lv4-start lv4-item-bluecube lv4-item-bluecube lv4-item-redcube lv4-item-redcu
be lv4-item-bluecube lv4-item-bluecube lv4-item-key lv4-item-redcube lv4-item
-bluecube lv4-item-bluecube lv4-item-bluecube lv4-item-bluecube lv4-item-blue
cube lv4-item-bluecube lv4-death

Game Time: 135.973800

Played Level 4

lv4-start lv4-item-redcube lv4-item-redcube lv4-item-bluecube lv4-item-bluecu
be lv4-item-bluecube lv4-death

Game Time: 25.343000

```
lv4-start lv4-item-bluecube lv4-item-bluecube lv4-item-redcube lv4-item-redcu
be lv4-item-bluecube lv4-item-bluecube lv4-item-redcube lv4-item-redcube lv4-
item-key lv4-death
Game Time: 120.116000
```

```
lv4-start lv4-item-bluecube lv4-item-bluecube lv4-item-bluecube lv4-item-redc
ube lv4-item-redcube lv4-item-key lv4-item-bluecube lv4-item-bluecube lv4-dea
th
Game Time: 41.973600
```

```
lv4-start lv4-item-bluecube lv4-item-bluecube lv4-item-bluecube lv4-item-blue
cube lv4-item-redcube lv4-item-redcube lv4-death
Game Time: 27.623700
```

```
lv4-start lv4-item-bluecube lv4-item-bluecube lv4-item-bluecube lv4-item-redc
ube lv4-item-bluecube lv4-pause lv4-quit
Game Time: 52.256900
```

```
lv4-start lv4-item-bluecube lv4-item-bluecube lv4-item-bluecube lv4-item-blue
cube lv4-item-redcube lv4-item-redcube lv4-pause lv4-quit
Game Time: 22.251800
```

```
lv4-start lv4-item-bluecube lv4-item-bluecube lv4-item-bluecube lv4-item-blue
cube lv4-item-redcube lv4-item-redcube lv4-death
Game Time: 26.446000
```

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```
lv0-start lv0-item-redcube lv0-item-redcube lv0-item-redcube lv0-item-bluecube  
e lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-  
item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-success  
Game Time: 108.666000
```

```
lv1-start lv1-death
Game Time: 9.848000
```

```
lv1-start lv1-item-bluecube lv1-item-bluecube lv1-item-bluecube lv1-item-blue
cube lv1-item-redcube lv1-item-redcube lv1-item-redcube lv1-death
Game Time: 91.229000
```

```
lv1-start lv1-item-bluecube lv1-item-bluecube lv1-item-bluecube lv1-item-blue
cube lv1-item-redcube lv1-success
Game Time: 75.770000
```

```
lv2-start lv2-item-redcube lv2-item-redcube lv2-item-bluecube lv2-item-bluecu  
be lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv  
2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-ite  
m-key lv2-item-bluecube lv2-item-bluecube lv2-item-redcube lv2-item-redcube l  
v2-item-redcube lv2-item-redcube lv2-death
```

```
lv2-start lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-blue
cube lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube
lv2-item-bluecube lv2-item-bluecube lv2-item-redcube lv2-item-redcube lv2-ite
m-redcube lv2-item-redcube lv2-item-redcube lv2-item-redcube lv2-item-bluecub
e lv2-item-key lv2-item-key lv2-item-key lv2-item-bluecube lv2-cp-0 lv2-item-
bluecube lv2-item-bluecube lv2-item-bluecube lv2-cp-1 lv2-item-bluecube lv2-i
tem-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-b
luecube lv2-item-key lv2-death
```

```
lv2-start lv2-cp-1 lv2-item-redcube lv2-item-redcube lv2-item-redcube lv2-ite
m-redcube lv2-item-redcube lv2-item-redcube lv2-success
```

```
lv3-start lv3-item-redcube lv3-item-redcube lv3-cp-1 lv3-item-bluecube lv3-it
em-bluecube lv3-cp-2 lv3-death
```

```
lv3-start lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-item-blue
cube lv3-cp-0 lv3-item-key lv3-death
```

```
lv3-start lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-item-blue
cube lv3-cp-0 lv3-item-key lv3-item-bluecube lv3-cp-2 lv3-death
```

```
lv3-start lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-cp-0 lv3-
item-key lv3-cp-2 lv3-death
```

```
lv3-start lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-item-blue
cube lv3-cp-0 lv3-item-key lv3-cp-2 lv3-item-redcube lv3-item-redcube lv3-ite
m-redcube lv3-death
```

```
lv3-start lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-item-blue
cube lv3-cp-0 lv3-item-key lv3-cp-2 lv3-item-redcube lv3-item-redcube lv3-ite
m-redcube lv3-item-redcube lv3-death
```

Game Time: 50.360000

Played Level 3

lv3-start lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-cp-0 lv3-item-key lv3-cp-2 lv3-item-redcube lv3-item-redcube lv3-item-redcube lv3-death

Game Time: 43.158000

Played Level 3

lv3-start lv3-item-redcube lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-cp-0 lv3-item-key lv3-cp-2 lv3-death

Game Time: 36.357000

Played Level 3

lv3-start lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-cp-0 lv3-item-key lv3-item-bluecube lv3-cp-2 lv3-item-redcube lv3-item-redcube lv3-item-redcube lv3-item-redcube lv3-item-key lv3-death

Game Time: 56.394000

Played Level 3

lv3-start lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-cp-0 lv3-item-key lv3-cp-2 lv3-item-redcube lv3-item-redcube lv3-item-redcube lv3-item-redcube lv3-item-key lv3-item-redcube lv3-cp-3 lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-death

Game Time: 128.040000

Played Level 3

lv3-start lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-cp-0 lv3-item-key lv3-cp-2 lv3-item-redcube lv3-item-redcube lv3-item-redcube lv3-item-redcube lv3-item-key lv3-item-redcube lv3-item-redcube lv3-cp-3 lv3-item-redcube lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-cp-4 lv3-item-key lv3-item-redcube lv3-cp-5 lv3-cp-6 lv3-item-redcube lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-item-redcube lv3-item-redcube lv3-item-redcube lv3-cp-7 lv3-cp-8 lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-item-redcube lv3-item-redcube lv3-item-redcube lv3-item-redcube lv3-death

Game Time: 218.751000

Played Level 3

lv3-start lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-cp-0 lv3-item-key lv3-item-bluecube lv3-cp-2 lv3-item-redcube lv3-item-redcube lv3-item-redcube lv3-item-redcube lv3-death

Game Time: 63.759000

Played Level 3

lv3-start lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-cp-0 lv3-item-key lv3-cp-2 lv3-item-redcube lv3-item-redcube lv3-item-redcube lv3-item-redcube lv3-item-redcube lv3-cp-3 lv3-item-bluecube lv3-item-bluecube lv3-cp-4 lv3-item-key lv3-item-redcube lv3-item-redcube lv3-cp-5 lv3-cp-6 lv3-item-redcube lv3-item-redcube lv3-cp-8 lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-death

Game Time: 160.652000

Played Level 3

lv3-start lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-cp-0 lv3-item-key lv3-cp-2 lv3-item-redcube lv3-item-redcube lv3-item-redcube lv3-item-redcube

-redcube lv3-death
Game Time: 35.507000

Played Level 3
lv3-start lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-cp-0 lv3-
item-key lv3-item-bluecube lv3-cp-2 lv3-item-redcube lv3-item-redcube lv3-ite
m-redcube lv3-item-redcube lv3-death
Game Time: 42.349000

Played Level 3
lv3-start lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-item-blue
cube lv3-cp-0 lv3-item-key lv3-cp-2 lv3-item-redcube lv3-item-redcube lv3-ite
m-redcube lv3-item-redcube lv3-death
Game Time: 66.834000

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Player ID: 638009312046197

Played Level 0
lv0-start lv0-item-redcube lv0-item-redcube lv0-item-bluecube lv0-item-bluecu
be lv0-item-bluecube lv0-item-bluecube lv0-success
Game Time: 50.322000

Played Level 1
lv1-start lv1-item-redcube lv1-item-redcube lv1-item-redcube lv1-item-bluecu
be lv1-item-bluecube lv1-item-bluecube lv1-item-bluecube lv1-success
Game Time: 74.949300

Played Level 2
lv2-start lv2-item-redcube lv2-item-redcube lv2-item-key lv2-item-redcube lv2
-cp-2 lv2-item-key lv2-settings lv2-quit
Game Time: 40.349900

Played Level 2
lv2-start lv2-item-redcube lv2-item-redcube lv2-item-key lv2-item-bluecube lv
2-item-redcube lv2-cp-2 lv2-item-key lv2-death
Game Time: 39.858700

Played Level 2
lv2-start lv2-item-redcube lv2-item-redcube lv2-item-bluecube lv2-item-bluecu
be lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-key lv2-ite
m-key lv2-item-key lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-
item-bluecube lv2-item-bluecube lv2-item-redcube lv2-item-redcube lv2-item-re
dcube lv2-item-redcube lv2-item-redcube lv2-item-redcube lv2-cp-0 lv2-item-bl
uecube lv2-item-bluecube lv2-item-bluecube lv2-cp-1 lv2-item-redcube lv2-item
-redcube lv2-item-redcube lv2-item-key lv2-item-bluecube lv2-item-bluecube lv
2-cp-4 lv2-success
Game Time: 154.637700

Played Level 3
lv3-start lv3-item-redcube lv3-item-redcube lv3-cp-1 lv3-cp-2 lv3-death
Game Time: 25.707000

Played Level 3


```
lv3-start lv3-item-redcube lv3-item-redcube lv3-cp-1 lv3-item-bluecube lv3-cp
-2 lv3-item-key lv3-item-redcube lv3-cp-3 lv3-item-bluecube lv3-item-bluecube
```

lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-cp-4 lv3-item-key 1
v3-item-redcube lv3-item-redcube lv3-item-redcube lv3-cp-5 lv3-cp-6 lv3-item-
redcube lv3-item-redcube lv3-cp-8 lv3-item-bluecube lv3-item-bluecube lv3-ite
m-bluecube lv3-item-bluecube lv3-item-bluecube lv3-item-redcube lv3-item-redc
ube lv3-cp-9 lv3-cp-11 lv3-item-key lv3-item-key lv3-item-key lv3-success
Game Time: 172.278000

Played Level 4

lv4-start lv4-cp-0 lv4-item-redcube lv4-death

Game Time: 20.751000

Played Level 4

lv4-start lv4-cp-0 lv4-item-redcube lv4-item-redcube lv4-cp-1 lv4-item-bluecu
be lv4-item-bluecube lv4-item-bluecube lv4-item-bluecube lv4-cp-2 lv4-cp-3 lv
4-cp-5 lv4-cp-4 lv4-item-key lv4-cp-5 lv4-cp-6 lv4-item-bluecube lv4-item-blu
ecube lv4-item-bluecube lv4-item-bluecube lv4-cp-7 lv4-item-redcube lv4-item-
redcube lv4-cp-8 lv4-success

Game Time: 155.231000

Played Level 4

lv4-start lv4-cp-0 lv4-settings lv4-quit

Game Time: 35.076000

Played Level 3

lv3-start lv3-item-redcube lv3-item-redcube lv3-cp-1 lv3-item-bluecube lv3-cp
-2 lv3-item-redcube lv3-item-key lv3-item-redcube lv3-cp-3 lv3-item-bluecube
lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-c
p-4 lv3-item-key lv3-item-redcube lv3-item-redcube lv3-item-redcube lv3-cp-5
lv3-cp-6 lv3-item-redcube lv3-item-redcube lv3-cp-8 lv3-item-bluecube lv3-ite
m-bluecube lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-item-red
cube lv3-item-redcube lv3-cp-9 lv3-item-key lv3-item-key lv3-item-key lv3-cp-
10 lv3-item-key lv3-item-redcube lv3-success

Game Time: 184.853000

Played Level 2

lv2-start lv2-item-redcube lv2-item-redcube lv2-item-bluecube lv2-item-bluecu
be lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv
2-item-bluecube lv2-item-key lv2-item-key lv2-item-key lv2-item-redcube lv2-i
tem-redcube lv2-item-redcube lv2-item-redcube lv2-item-redcube lv2-item-redcu
be lv2-cp-0 lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-cp-1 lv
2-death

Game Time: 79.666000

Played Level 2

lv2-start lv2-item-redcube lv2-item-redcube lv2-item-bluecube lv2-item-bluecu
be lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv
2-item-bluecube lv2-item-key lv2-item-key lv2-item-key lv2-item-redcube lv2-i
tem-redcube lv2-item-redcube lv2-item-redcube lv2-cp-0 lv2-item-bluecube lv2-
item-bluecube lv2-item-bluecube lv2-cp-1 lv2-item-key lv2-item-redcube lv2-it
em-redcube lv2-item-bluecube lv2-item-bluecube lv2-cp-4 lv2-item-bluecube lv2
-item-bluecube lv2-item-redcube lv2-item-redcube lv2-item-redcube lv2-item-re
dcube lv2-item-redcube lv2-success

Game Time: 128.888000

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Player ID: 638009460197230

Played Level 4

lv4-start lv4-cp-0 lv4-item-redcube lv4-item-redcube lv4-death

Game Time: 17.956000

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Player ID: 638009466715030

Played Level 0

lv0-start lv0-item-redcube lv0-item-redcube lv0-settings lv0-resume lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-success

Game Time: 62.281000

Played Level 1

lv1-start lv1-settings lv1-resume lv1-item-redcube lv1-item-redcube lv1-item-redcube lv1-item-bluecube lv1-item-bluecube lv1-item-bluecube lv1-item-bluecube lv1-death

Game Time: 81.185000

Played Level 1

lv1-start lv1-item-redcube lv1-item-redcube lv1-death

Game Time: 68.071000

Played Level 1

lv1-start lv1-death

Game Time: 75.107000

Played Level 1

lv1-start lv1-item-redcube lv1-item-redcube lv1-success

Game Time: 171.967000

Played Level 2

lv2-start lv2-item-redcube lv2-item-redcube lv2-item-redcube lv2-item-key lv2-item-bluecube lv2-cp-2 lv2-item-key lv2-death

Game Time: 51.569000

Played Level 2

lv2-start lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-cp-1 lv2-cp-4 lv2-item-redcube lv2-item-redcube lv2-success

Game Time: 67.825000

Played Level 3

lv3-start lv3-item-redcube lv3-item-redcube lv3-cp-1 lv3-cp-2 lv3-death

Game Time: 33.893000

Played Level 3

lv3-start lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-cp-0 lv3-item-key lv3-cp-2 lv3-death

Game Time: 40.219000

Played Level 3

lv3-start lv3-item-redcube lv3-item-redcube lv3-cp-1 lv3-item-bluecube lv3-it

em-bluecube lv3-cp-2 lv3-item-redcube lv3-item-redcube lv3-death
Game Time: 34.590000

Played Level 3
lv3-start lv3-item-redcube lv3-item-redcube lv3-cp-1 lv3-item-bluecube lv3-it
em-bluecube lv3-cp-2 lv3-item-redcube lv3-death
Game Time: 35.114000

Played Level 3
lv3-start lv3-item-redcube lv3-item-redcube lv3-cp-1 lv3-item-bluecube lv3-it
em-bluecube lv3-cp-2 lv3-death
Game Time: 26.422000

Played Level 3
lv3-start lv3-item-redcube lv3-item-redcube lv3-cp-1 lv3-item-bluecube lv3-it
em-bluecube lv3-cp-2 lv3-item-redcube lv3-item-redcube lv3-item-redcube lv3-d
eath
Game Time: 46.839000

Played Level 3
lv3-start lv3-item-redcube lv3-item-redcube lv3-cp-1 lv3-item-bluecube lv3-it
em-bluecube lv3-cp-2 lv3-item-redcube lv3-item-redcube lv3-item-redcube lv3-d
eath
Game Time: 47.373000

Played Level 3
lv3-start lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-item-blue
cube lv3-cp-0 lv3-item-key lv3-cp-2 lv3-item-redcube lv3-item-redcube lv3-ite
m-redcube lv3-item-redcube lv3-death
Game Time: 54.801000

Played Level 3
lv3-start lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-cp-0 lv3-
item-redcube lv3-item-redcube lv3-item-key lv3-cp-2 lv3-item-redcube lv3-item
-redcube lv3-item-redcube lv3-item-redcube lv3-cp-3 lv3-death
Game Time: 89.453000

Played Level 3
lv3-start lv3-item-bluecube lv3-item-bluecube lv3-item-bluecube lv3-cp-0 lv3-
item-redcube lv3-item-redcube lv3-item-key lv3-cp-2 lv3-item-redcube lv3-item
-redcube lv3-item-redcube lv3-death
Game Time: 60.792000

Played Level 3
lv3-start lv3-item-redcube lv3-item-redcube lv3-cp-1 lv3-item-bluecube lv3-it
em-bluecube lv3-item-bluecube lv3-item-bluecube lv3-cp-2 lv3-item-redcube lv3
-item-redcube lv3-item-redcube lv3-death
Game Time: 37.079000

Played Level 3
lv3-start lv3-item-redcube lv3-item-redcube lv3-cp-1 lv3-death
Game Time: 18.043000

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Player ID: 638009470591461

Played Level 0

lv0-start lv0-pause lv0-resume lv0-pause lv0-quit

Game Time: 25.154100

=====

Player ID: 638009521531898

Played Level 0

lv0-start lv0-item-redcube lv0-item-redcube lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-success

Game Time: 42.445400

Played Level 1

lv1-start lv1-item-redcube lv1-item-redcube lv1-item-redcube lv1-success

Game Time: 23.878300

Played Level 2

lv2-start lv2-cp-1 lv2-success

Game Time: 50.497900

Played Level 3

lv3-start lv3-item-redcube lv3-item-redcube lv3-cp-1 lv3-death

Game Time: 16.491500

Played Level 0

lv0-start lv0-item-redcube lv0-settings lv0-quit

Game Time: 10.494100

Played Level 0

lv0-start lv0-settings lv0-quit

Game Time: 7.285000

Played Level 0

lv0-start lv0-item-redcube lv0-settings lv0-quit

Game Time: 17.328400

Played Level 1

lv1-start lv1-item-bluecube lv1-item-bluecube lv1-item-redcube lv1-item-redcube lv1-item-redcube lv1-settings lv1-quit

Game Time: 19.112200

Played Level 0

lv0-start lv0-settings lv0-quit

Game Time: 6.064700

Played Level 0

lv0-start lv0-settings lv0-quit

Game Time: 2.151500

Played Level 0

lv0-start lv0-settings lv0-quit

Game Time: 2.914400

```

Played Level 0
lv0-start lv0-settings lv0-quit
Game Time: 2.925600

```

```

Played Level 0
lv0-start lv0-settings lv0-quit
Game Time: 2.165000

```

```

Played Level 0
lv0-start lv0-settings lv0-quit
Game Time: 14.514100

```

```

Played Level 0
lv0-start lv0-settings lv0-quit
Game Time: 2.690300

```

```

Played Level 0
lv0-start lv0-item-redcube lv0-item-redcube lv0-item-bluecube lv0-item-bluecube
lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube lv0-item-bluecube
lv0-success
Game Time: 59.115400

```

```
Played Level 1  
lv1-start lv1-item-redcube lv1-item-redcube lv1-item-redcube lv1-item-bluecube  
lv1-item-bluecube lv1-item-bluecube lv1-item-bluecube lv1-item-bluecube lv1-  
success  
Game Time: 66.236800
```

```

Played Level 2
lv2-start lv2-cp-1 lv2-item-bluecube lv2-item-bluecube lv2-item-bluecube lv2-
item-redcube lv2-success
Game Time: 59.111400

```

```
=====
=====
```

Player ID: 638009670359330


```

In [14]: sorted_data = [[[],[],[],[],[],[],[],[],[],[],[],[],[],[],[],[]]
#sorted_data schema: [#level:[ #succes:[], #died:[], #quit:[ ] ] ]

for item in player_game_list:
    #print(line)
    #print('Player ID: %d'%(item[0]))
    for game in item[1]:
        pause_time = 0
        pause_start = 0
        pause = False
        for cp in game:
            if cp[0] in pause_list:
                pause_start = cp[1]
                pause = True
            elif pause and (cp[0] in resume_list or cp[0] in end_list):
                pause_time += cp[1] - pause_start
                pause = False

        game_time = ((game[len(game)-1][1] - game[0][1]) - pause_time)/10000
        level = start_list.index(game[0][0])
        ending = int(end_list.index(game[len(game)-1][0]) / 5)
        #print(game_time)
        #print(pause_time)
        #print('level %d, ending %d'%(level,ending))
        sorted_data[level][ending].append([game, game_time])

```

```

In [15]: for level in sorted_data:
    sum = 0
    counter = 0
    for item in level[0]:
        counter += 1
        sum += item[1]
    avg_time = sum / counter
    print('Average level game time for level%d is %fS'%(sorted_data.index(level), avg_time))

```

```

Average level game time for level0 is 66.673043S
Average level game time for level1 is 79.853436S
Average level game time for level2 is 94.529213S
Average level game time for level3 is 162.172130S
Average level game time for level4 is 184.854000S

```

```
In [16]: for level in sorted_data:
        sum = 0
        counter = 0
        for item in level[1]:
            counter += 1
            sum += item[1]
        avg_time = sum / counter
        print('Average level game time for level%d is %fS'%(sorted_data.index(level), avg_time))
```

```
Average level game time for level0 is 68.825627S
Average level game time for level1 is 59.282425S
Average level game time for level2 is 70.043829S
Average level game time for level3 is 58.969458S
Average level game time for level4 is 60.240559S
```

```
In [17]: for level in sorted_data:
        sum = 0
        counter = 0
        for item in level[2]:
            counter += 1
            sum += item[1]
        avg_time = sum / counter
        print('Average level game time for level%d is %fS'%(sorted_data.index(level), avg_time))
```

```
Average level game time for level0 is 16.676626S
Average level game time for level1 is 43.708737S
Average level game time for level2 is 22.176367S
Average level game time for level3 is 27.832189S
Average level game time for level4 is 27.292825S
```

```

In [102]: font_size = 18
title_size = 22
level_labels = ['Level 0', 'Level 1', 'Level 2', 'Level 3', 'Level 4']
def game_statPainter(labels, sub_labels, data, title, unit, sub_color = None
):
    bar_count = len(data[0])

    if bar_count != len(sub_labels):
        print('Wrong Input Size!')
        return

    bar_width = 0.7 / bar_count

    x = np.arange(len(labels)) # the label locations
    fig, ax = plt.subplots(figsize=(15, 10))
    for i in range(bar_count):
        single_bar_data = [data_list[i] for data_list in data]
        offset = -0.35 + i*bar_width + (bar_width/2)
        if sub_color != None:
            rects = ax.bar(x+offset , single_bar_data, bar_width, label=sub_labels[i], color = sub_color[i])
        else:
            rects = ax.bar(x+offset , single_bar_data, bar_width, label=sub_labels[i])
        ax.bar_label(rects, padding=3, fontsize = font_size)

    ax.set_ylabel(unit, fontsize = font_size)
    ax.set_title(title, fontsize = title_size)
    ax.set_xticks(x, labels, fontsize = font_size)
    ax.legend(fontsize = font_size)
    fig.tight_layout()
    plt.show()

```

Collected Items

```
In [117]: #item_count format: #Level:[ #red, #blue, #key ] cp format lv#-item-redcube
item_count = []
```

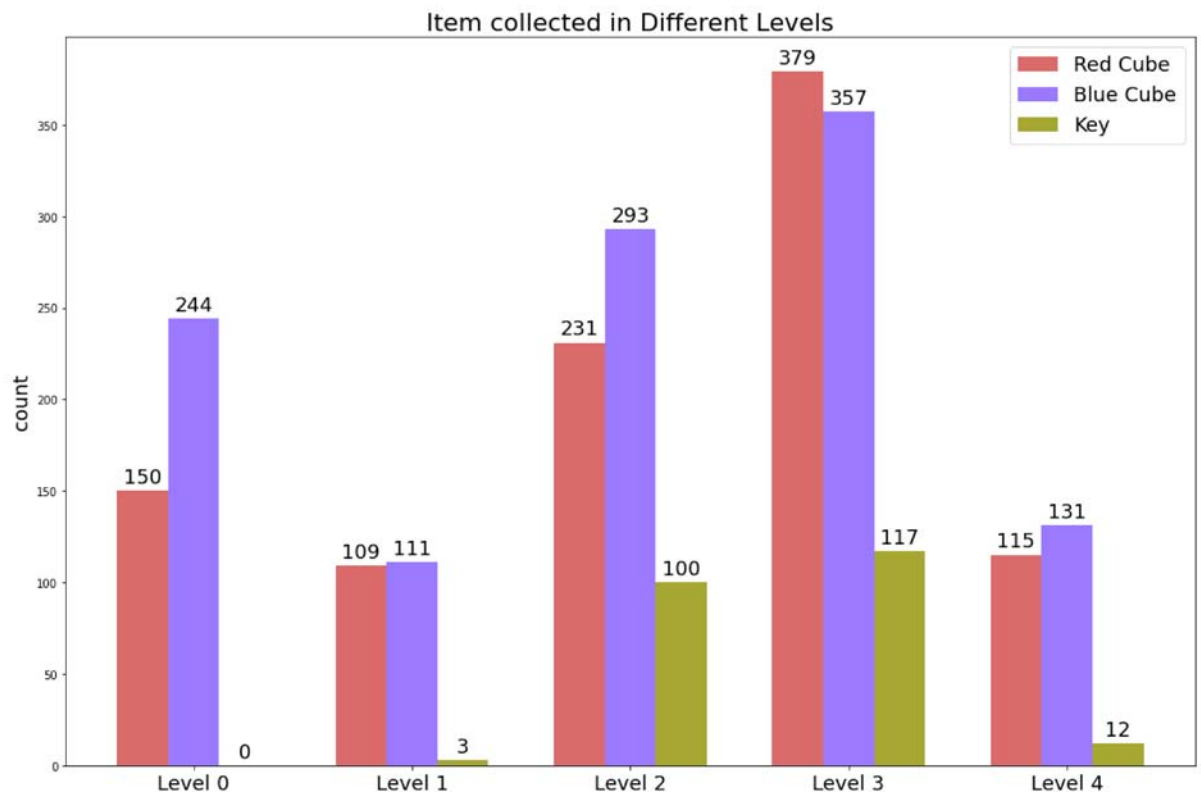
```
for i in range(5):
    item_count.append([0,0,0])

for i in range(len(sorted_data)):
    for game_list in sorted_data[i]:
        for game_data in game_list:
            for check_pts in game_data[0]:
                if 'redcube' in check_pts[0]:
                    item_count[int(check_pts[0][2])][0] += 1
                elif 'bluecube' in check_pts[0]:
                    item_count[int(check_pts[0][2])][1] += 1
                elif 'key' in check_pts[0]:
                    item_count[int(check_pts[0][2])][2] += 1

print(item_count )
```

```
[[150, 244, 0], [109, 111, 3], [231, 293, 100], [379, 357, 117], [115, 131, 12]]
```

```
In [118]: game_statPainter(level_labels, ['Red Cube', 'Blue Cube', 'Key'],
                             item_count, 'Item collected in Different Levels', 'count', s
                             ub_color=['#db6b6b', '#9c7aff', '#a6a832'])
```



```
In [140]: #item_count format: #level:[ #red, #blue, #key ] cp format lv#-item-redcube
succ_item_count = []
```

```
#sorted_data schema: [#level:[ #succes:[], #died:[], #quit:[] ] ]
```

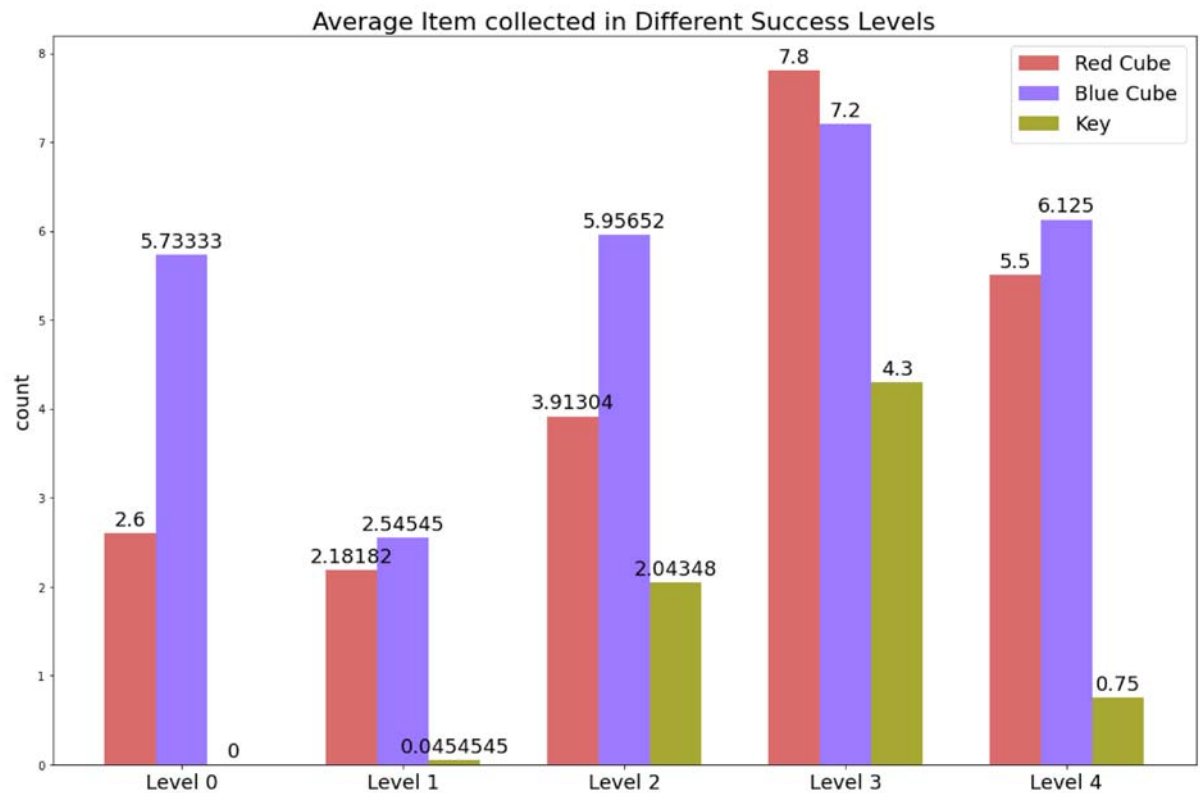
```
for i in range(5):
    succ_item_count.append([0,0,0])

for i in range(len(sorted_data)):
    success_time = len(sorted_data[i][0])
    for game_data in sorted_data[i][0]:
        for check_pts in game_data[0]:
            if 'redcube' in check_pts[0]:
                succ_item_count[int(check_pts[0][2])][0] += 1
            elif 'bluecube' in check_pts[0]:
                succ_item_count[int(check_pts[0][2])][1] += 1
            elif 'key' in check_pts[0]:
                succ_item_count[int(check_pts[0][2])][2] += 1

for i in range(5):
    for j in range(3):
        succ_item_count[i][j] /= len(sorted_data[i][0])
print(succ_item_count)
```

```
[[2.6, 5.733333333333333, 0.0], [2.1818181818181817, 2.5454545454545454, 0.04
5454545454545456], [3.9130434782608696, 5.956521739130435, 2.043478260869565
4], [7.8, 7.2, 4.3], [5.5, 6.125, 0.75]]
```

```
In [142]: game_statPainter(level_labels, ['Red Cube', 'Blue Cube', 'Key'],
                        succ_item_count, 'Average Item collected in Different Success Levels', 'count', sub_color=['#db6b6b', '#9c7aff', '#a6a832'])
```

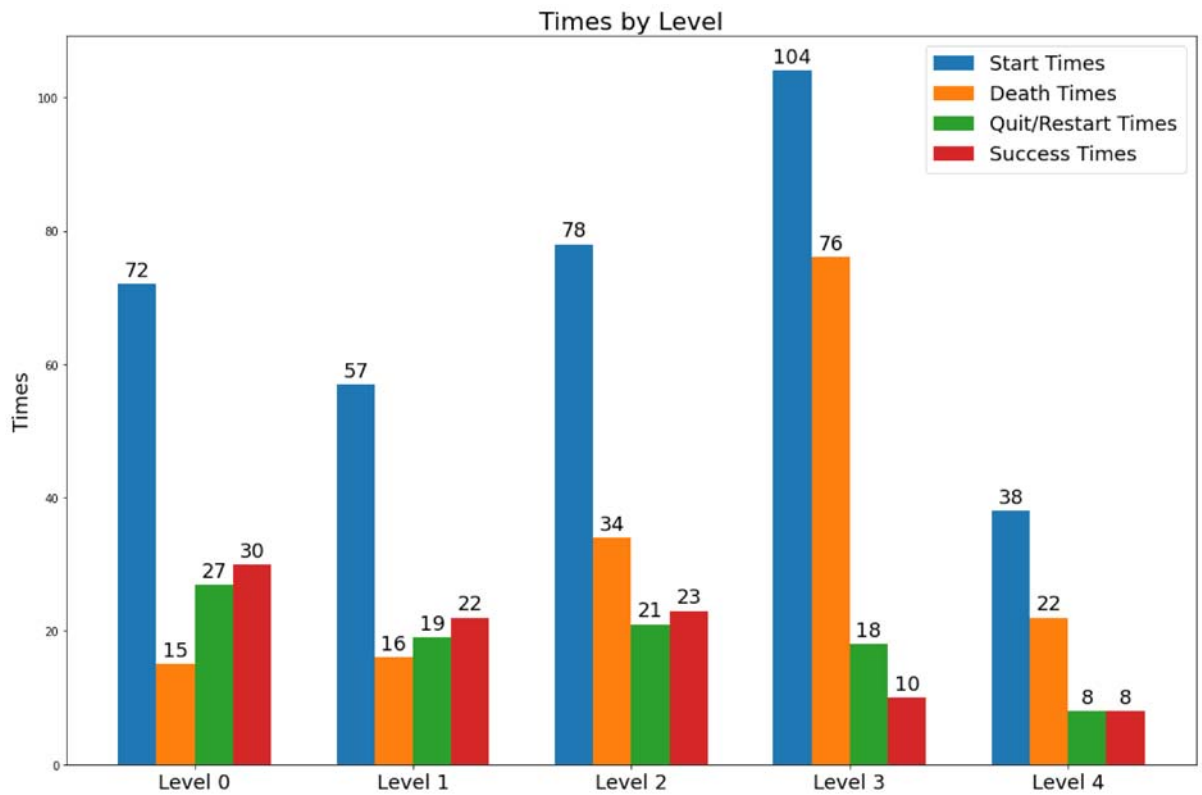


Game Play Stat

```
In [18]: #Statistics format: #Level:[ #Start Count, #Death Count, #Quit Count, #Success Count ]
statistics = []

for i in range(len(sorted_data)):
    succ_count = len(sorted_data[i][0])
    died_count = len(sorted_data[i][1])
    quit_count = len(sorted_data[i][2])
    statistics.append([succ_count + died_count + quit_count, died_count, quit_count, succ_count])
```

```
In [104]: game_statPainter(level_labels, ['Start Times', 'Death Times', 'Quit/Restart Times', 'Success Times'],  
                           statistics, 'Times by Level', 'Times')
```



Check Point Stat

```

In [93]: #level_cp_stat format: #level:[ #cp1_count, .... ] cp format lv#-cp-#
level_cp_stat = []

for i in range(5):
    level_cp_stat.append([])

for i in range(len(sorted_data)):
    for game_list in sorted_data[i]:
        for game_data in game_list:
            for check_pts in game_data[0]:
                if 'cp' in check_pts[0]:
                    cp_num = int(check_pts[0][-1])
                    lv_num = int(check_pts[0][2])
                    if len(level_cp_stat[lv_num]) < cp_num+1:
                        for i in range(cp_num - len(level_cp_stat[lv_num]) + 1
):
                            level_cp_stat[lv_num].append(0)
                            level_cp_stat[lv_num][cp_num] += 1

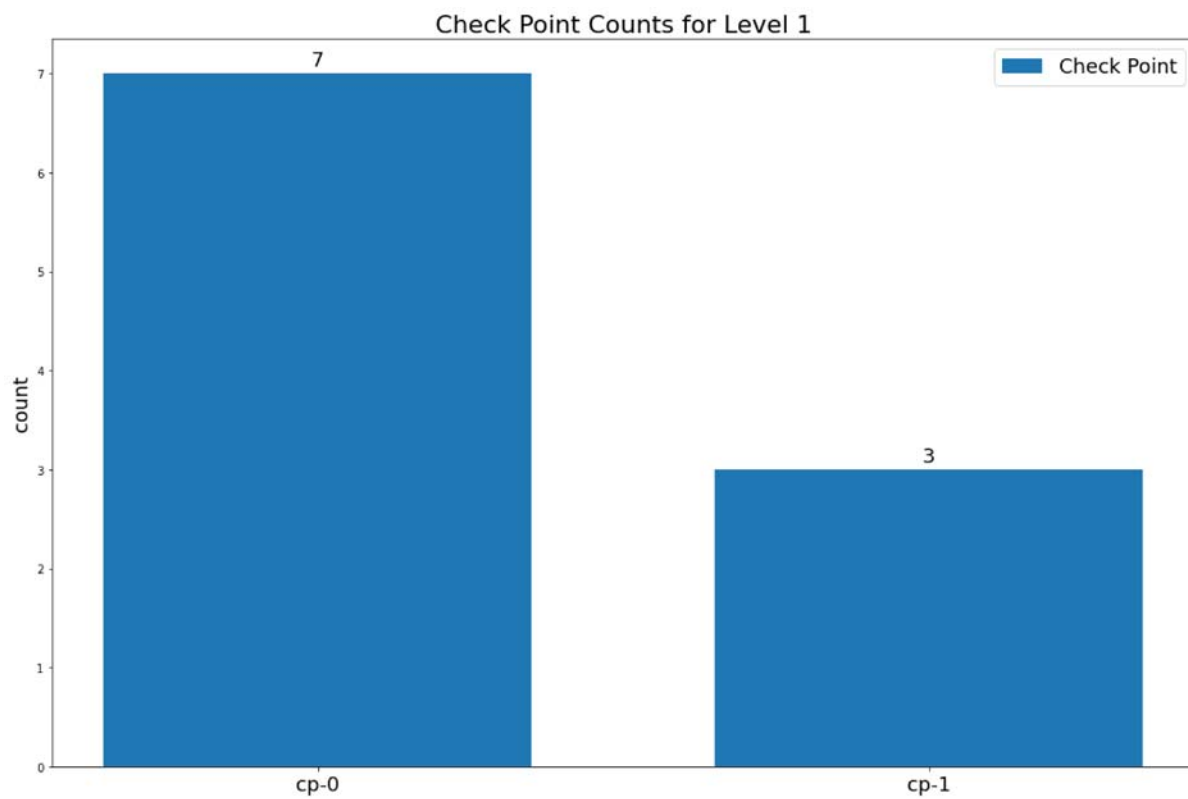
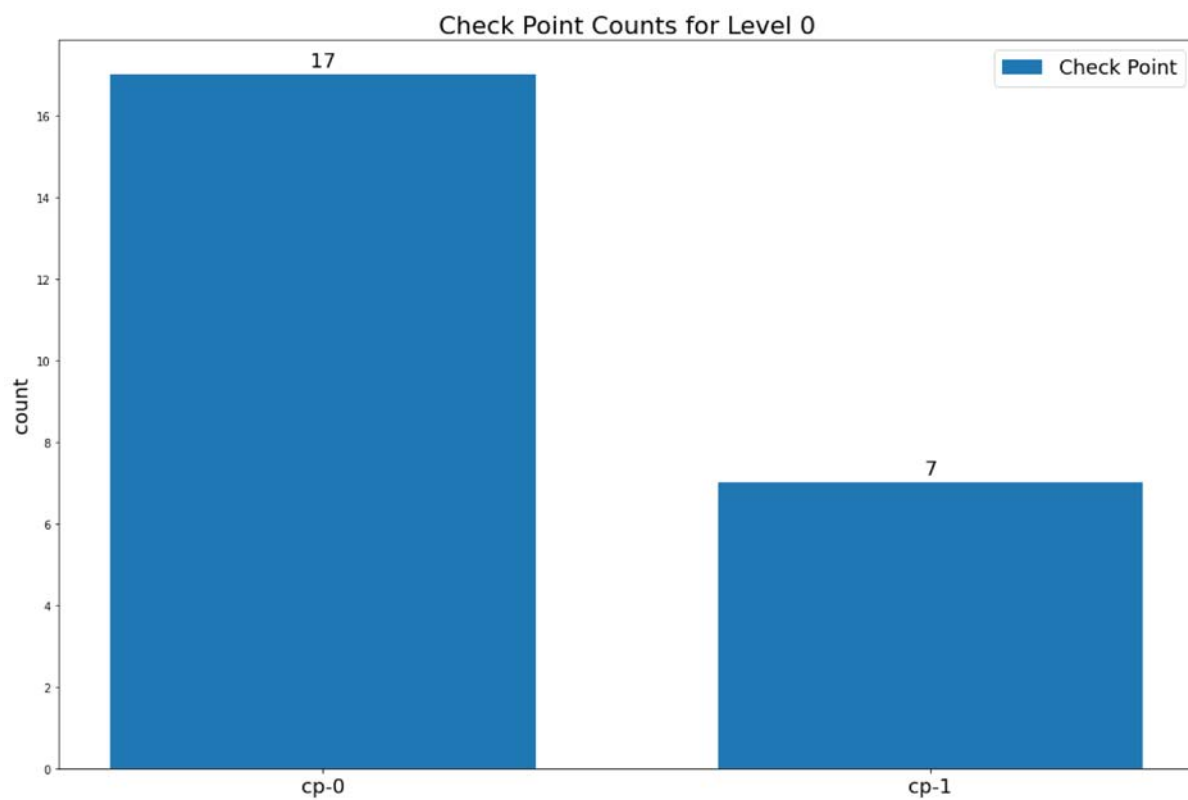
print(level_cp_stat)

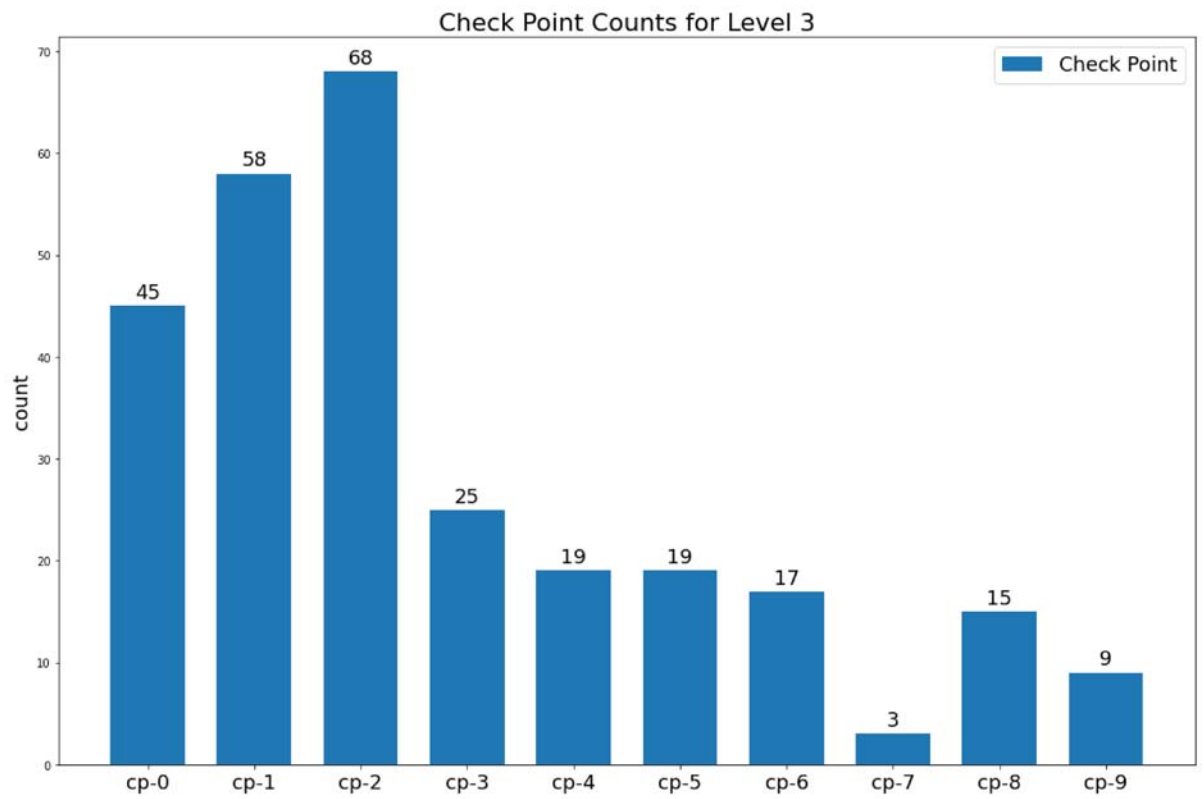
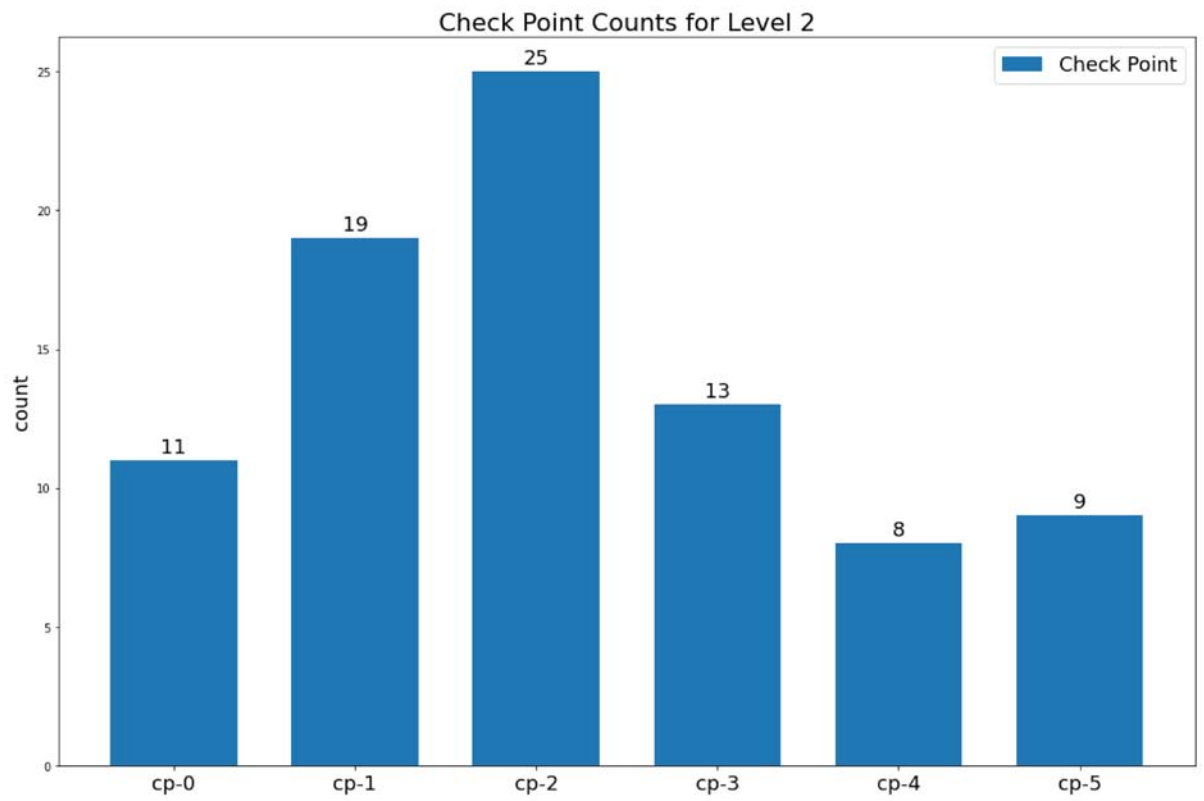
[[17, 7], [7, 3], [11, 19, 25, 13, 8, 9], [45, 58, 68, 25, 19, 19, 17, 3, 15,
9], [21, 15, 13, 11, 14, 16, 7, 7, 8]]

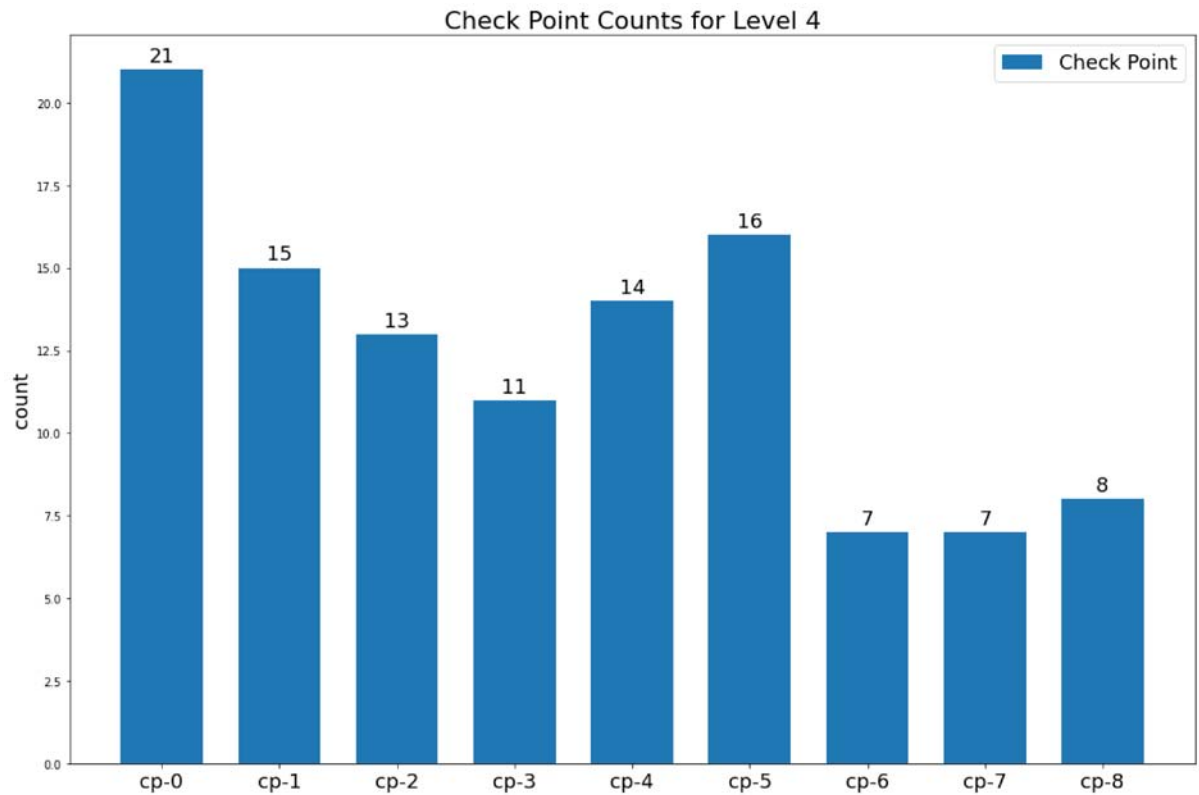
```



```
In [111]: for i in range(5):
            game_statPainter(['cp-'+str(i) for i in range(len(level_cp_stat[i]))], [
                'Check Point'],
                               [[count] for count in level_cp_stat[i]], 'Check Point Co
                unt for Level ' + str(i), 'count')
```



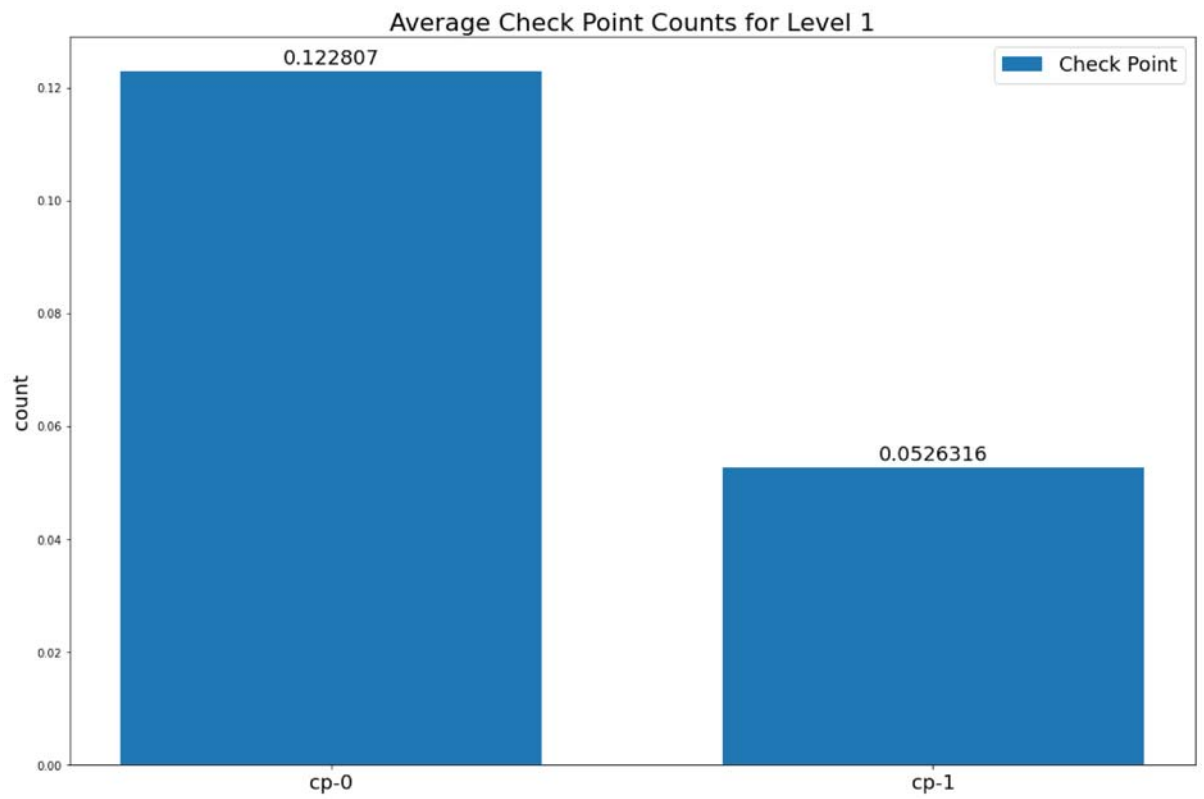
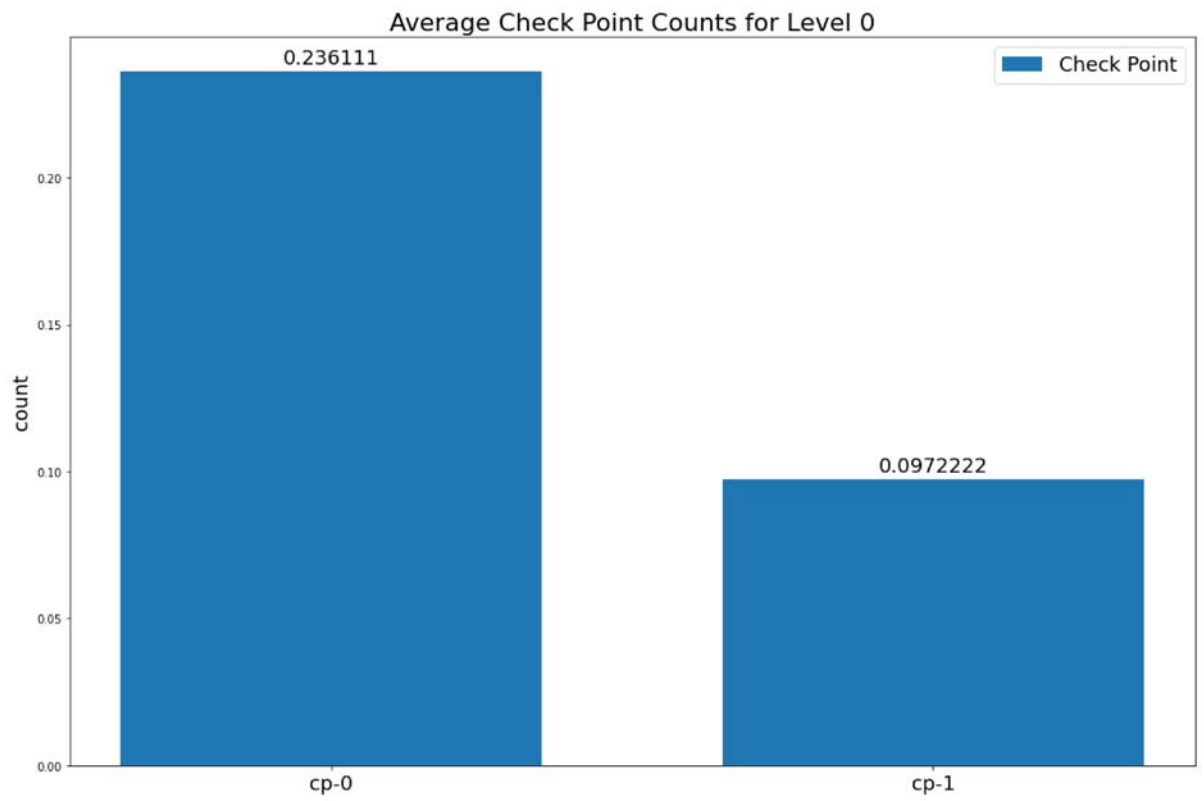


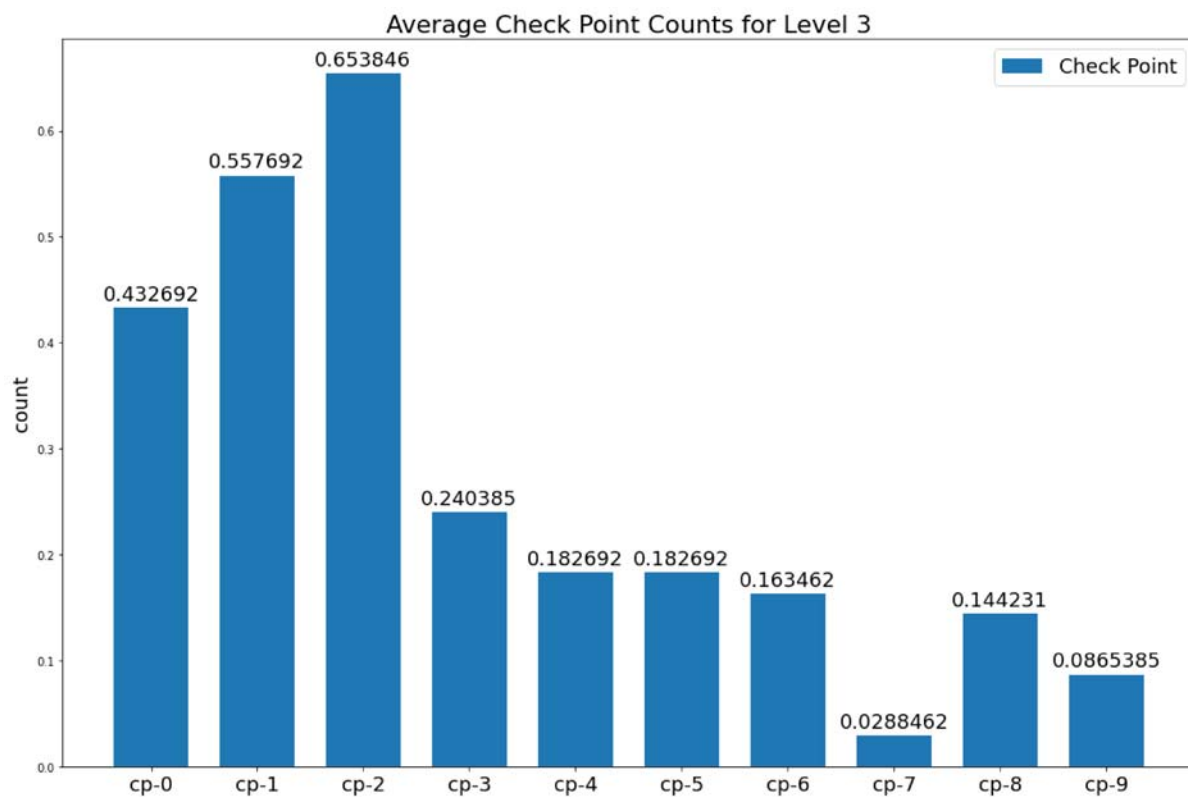
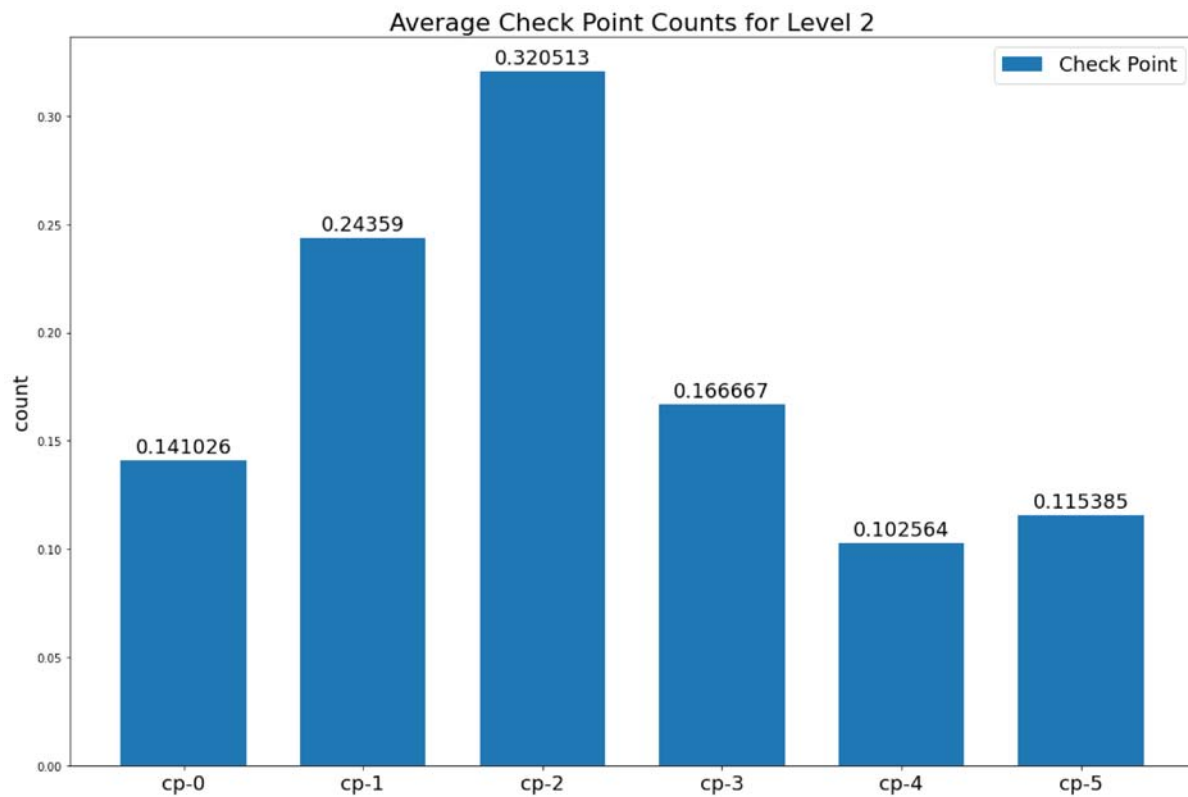


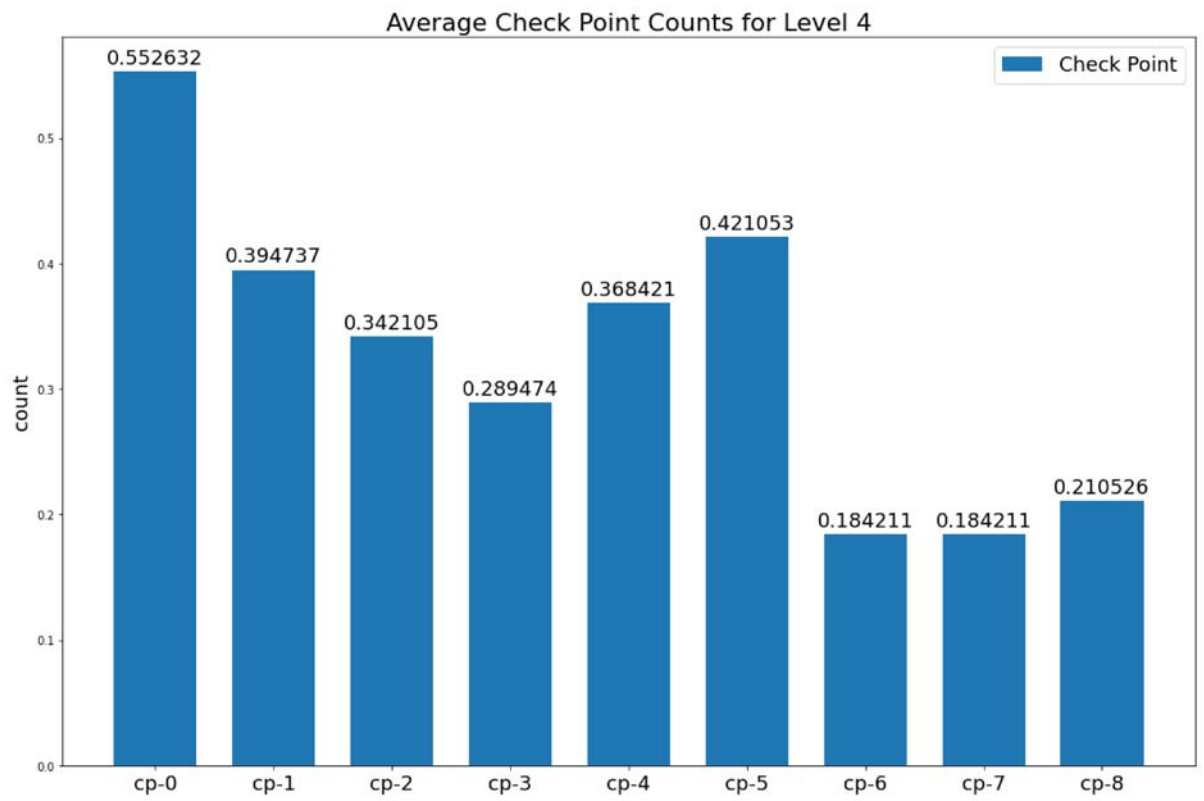
```
In [122]: avg_level_cp_stat = []
for i in range(len(level_cp_stat)):
    avg_count = []
    for cp_count in level_cp_stat[i]:
        avg_count.append(cp_count / statistics[i][0])
    avg_level_cp_stat.append(avg_count)
print(avg_level_cp_stat)
```

```
[[0.2361111111111111, 0.0972222222222222], [0.12280701754385964, 0.052631578
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4423076923076922, 0.08653846153846154], [0.5526315789473685, 0.39473684210526
316, 0.34210526315789475, 0.2894736842105263, 0.3684210526315789, 0.421052631
57894735, 0.18421052631578946, 0.18421052631578946, 0.21052631578947367]]
```

```
In [123]: for i in range(5):
            game_statPainter(['cp-'+str(i) for i in range(len(level_cp_stat[i]))], [
            'Check Point'],
                               [[count] for count in avg_level_cp_stat[i]], 'Average Ch
            eck Point Counts for Level ' + str(i), 'count')
```







Period Stat

[illegible]

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In []: