FBI - Final Player Evaluation

Player: FBI

SCSA Name: InsertColors Game: 8 Pegs 10 Colors Rounds: 100 out of 100

Results: {'win': 100, 'loss': 0, 'failure': 0} Score: 10274.754936995118 avg no. of guess per round: 15.56

time taken to complete the tournament 0.07896566390991211

Player: FBI

SCSA Name: TwoColor Game: 8 Pegs 10 Colors Rounds: 100 out of 100

Results: {'win': 100, 'loss': 0, 'failure': 0} Score: 11934.837130128784 avg no. of guess per round: 11.67

time taken to complete the tournament 0.06069183349609375

Player: FBI

SCSA Name: PreferFewer Game: 8 Pegs 10 Colors Rounds: 100 out of 100

Results: {'win': 100, 'loss': 0, 'failure': 0}

Score: 14939.091825896954 avg no. of guess per round: 9.91

time taken to complete the tournament 0.04528307914733887

Player: FBI

SCSA Name: UsuallyFewer Game: 8 Pegs 10 Colors Rounds: 100 out of 100

Results: {'win': 100, 'loss': 0, 'failure': 0}

Score: 11583.712629998612 avg no. of guess per round: 12.54

time taken to complete the tournament 0.06161785125732422

Player: FBI

SCSA Name: OnlyOnce Game: 8 Pegs 10 Colors Rounds: 100 out of 100

Results: {'win': 100, 'loss': 0, 'failure': 0}

Score: 10040.155246917302 avg no. of guess per round: 16.27

time taken to complete the tournament $\,\,$ 0.08061408996582031 $\,\,$

Player: FBI

SCSA Name: FirstLast Game: 8 Pegs 10 Colors Rounds: 100 out of 100

Results: {'win': 100, 'loss': 0, 'failure': 0}

Score: 10357.043414336078 avg no. of guess per round: 15.23

time taken to complete the tournament 0.075347900390625

FBI - Baseline 3 evaluation (named fbi 4 but it is baseline 3)

Player: fbi_4

SCSA Name: InsertColors Game: 8 Pegs 10 Colors Rounds: 100 out of 100

Results: {'win': 3, 'loss': 97, 'failure': 0}

Score: 189.8952797103475 avg no. of guess per round: 98.48

time taken to complete the tournament 2.088622808456421

Player: fbi_4

SCSA Name: TwoColor Game: 8 Pegs 10 Colors Rounds: 100 out of 100

Results: {'win': 100, 'loss': 0, 'failure': 0}

Score: 7080.9658521296415 avg no. of guess per round: 40.67

time taken to complete the tournament 1.6463563442230225

SCSA Name: PreferFewer Game: 8 Pegs 10 Colors Rounds: 100 out of 100

Results: {'win': 81, 'loss': 19, 'failure': 0}

Score: 11623.643272511561 avg no. of guess per round: 34.09

time taken to complete the tournament 1.0023398399353027

Player: fbi_4

SCSA Name: UsuallyFewer Game: 8 Pegs 10 Colors Rounds: 100 out of 100

Results: {'win': 59, 'loss': 41, 'failure': 0}

Score: 4137.421648973746 avg no. of guess per round: 65.2

time taken to complete the tournament 1.6373999118804932

Player: fbi_4

SCSA Name: OnlyOnce Game: 8 Pegs 10 Colors Rounds: 100 out of 100

Results: {'win': 0, 'loss': 100, 'failure': 0}

Score: 0

avg no. of guess per round: 100.0

time taken to complete the tournament 2.6041901111602783

Player: fbi_4

SCSA Name: FirstLast Game: 8 Pegs 10 Colors Rounds: 100 out of 100

Results: {'win': 6, 'loss': 94, 'failure': 0}

Score: 332.8755145618182 avg no. of guess per round: 97.75

time taken to complete the tournament 2.1721651554107666

Scalibility evaluation against InsertColors

Player: FBI

SCSA Name: InsertColors Game: 3 Pegs 5 Colors Rounds: 100 out of 100

Results: {'win': 100, 'loss': 0, 'failure': 0}

Score: 3479.356506089026 avg no. of guess per round: 4.8

time taken to complete the tournament 0.009579181671142578

Player: FBI

SCSA Name: InsertColors Game: 4 Pegs 6 Colors Rounds: 100 out of 100

Results: {'win': 100, 'loss': 0, 'failure': 0}

Score: 4772.943331950141 avg no. of guess per round: 6.45

time taken to complete the tournament 0.024013042449951172

Player: FBI

SCSA Name: InsertColors Game: 5 Pegs 7 Colors Rounds: 100 out of 100

Results: {'win': 100, 'loss': 0, 'failure': 0}

Score: 6195.083774122866 avg no. of guess per round: 8.14

time taken to complete the tournament 0.06948113441467285

Player: FBI

SCSA Name: InsertColors Game: 6 Pegs 8 Colors Rounds: 100 out of 100

Results: {'win': 100, 'loss': 0, 'failure': 0}

Score: 7553.810063706389 avg no. of guess per round: 10.36

time taken to complete the tournament 0.036389827728271484

Player: FBI

SCSA Name: InsertColors Game: 7 Pegs 9 Colors Rounds: 100 out of 100

Results: {'win': 100, 'loss': 0, 'failure': 0}

Score: 8772.817345506293 avg no. of guess per round: 13.23

time taken to complete the tournament 0.05140995979309082

Player: FBI

SCSA Name: InsertColors Game: 8 Pegs 10 Colors Rounds: 100 out of 100

Results: {'win': 100, 'loss': 0, 'failure': 0}

Score: 10221.650077368213 avg no. of guess per round: 15.66

time taken to complete the tournament 0.07395410537719727

Player: FBI

SCSA Name: InsertColors Game: 9 Pegs 11 Colors Rounds: 100 out of 100

Results: {'win': 100, 'loss': 0, 'failure': 0}

Score: 11728.888765144586 avg no. of guess per round: 18.17

time taken to complete the tournament 0.09447121620178223

Player: FBI

SCSA Name: InsertColors Game: 10 Pegs 12 Colors Rounds: 100 out of 100

Results: {'win': 100, 'loss': 0, 'failure': 0}

Score: 13201.900746395842 avg no. of guess per round: 21.01

time taken to complete the tournament 0.12236499786376953

Player: FBI

SCSA Name: InsertColors Game: 11 Pegs 13 Colors Rounds: 100 out of 100

Results: {'win': 100, 'loss': 0, 'failure': 0}

Score: 14482.930540745567 avg no. of guess per round: 24.82

time taken to complete the tournament 0.15120410919189453

Player: FBI

SCSA Name: InsertColors Game: 12 Pegs 14 Colors Rounds: 100 out of 100

Results: {'win': 100, 'loss': 0, 'failure': 0}

Score: 15911.207534070405 avg no. of guess per round: 28.45

time taken to complete the tournament 0.21452999114990234

Jumping to significantly higher complexity

Player: FBI

SCSA Name: InsertColors Game: 20 Pegs 22 Colors Rounds: 100 out of 100

Results: {'win': 99, 'loss': 1, 'failure': 0}

Score: 26418.36405627324 avg no. of guess per round: 69.23

time taken to complete the tournament 0.8755929470062256

Player: FBI

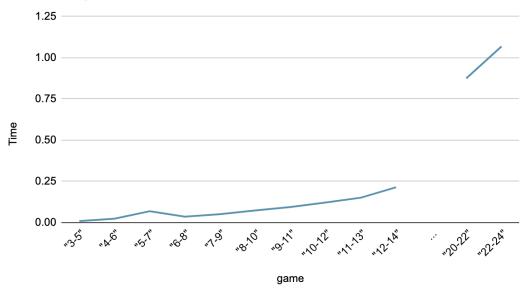
SCSA Name: InsertColors Game: 22 Pegs 24 Colors Rounds: 100 out of 100

Results: {'win': 94, 'loss': 6, 'failure': 0} Score: 28197.256177919993

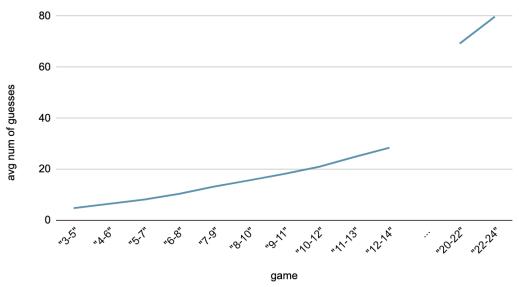
avg no. of guess per round: 79.78

time taken to complete the tournament 1.069108009338379

Time vs. game



avg num of guesses vs. game



From our experiments, we were able to conclude that our player great at solving codes for any agents. It significantly outperformed the baseline_3 player.

Further, our player is also highly scalable and performs quick operations. Because of this, our time and average number of guesses is within bounds.