**COMPARISON BETWEEN BEST MUTATIONS & CROSSOVERS**

Tournament\_sel Pop=500 Gens=300 10 runs

**swap\_mutation bf= 33**

A graph of a number of people

Description automatically generated

**random\_reseting bf= 88**

**A graph of a number of people

Description automatically generated**

**swap\_mutation random\_reseting**

**A graph of a number of people

Description automatically generated A graph of a number of people

Description automatically generated**

**CURIOSITY STUFF**

**Tournament Swap\_Mutation Pop=1000 Gens=500 10runs**

**A graph of a number of people

Description automatically generated**

Run #1, Generation #500: Best Fitness: 15, Time: 235.95 seconds

Run #2, Generation #500: Best Fitness: 44, Time: 186.78 seconds

Run #2, Generation #500: Best Fitness: 19, Time: 234.15 seconds

Run #3, Generation #500: Best Fitness: 39, Time: 166.84 seconds

Run #4, Generation #500: Best Fitness: 38, Time: 150.98 seconds

Run #3, Generation #500: Best Fitness: 19, Time: 208.66 seconds

Run #5, Generation #500: Best Fitness: 42, Time: 211.25 seconds

Run #4, Generation #500: Best Fitness: 18, Time: 306.29 seconds

Run #6, Generation #500: Best Fitness: 44, Time: 204.97 seconds

Run #5, Generation #500: Best Fitness: 18, Time: 221.16 seconds

Run #7, Generation #500: Best Fitness: 41, Time: 177.05 seconds

Run #8, Generation #500: Best Fitness: 46, Time: 173.45 seconds

Run #6, Generation #500: Best Fitness: 17, Time: 246.61 seconds

Run #9, Generation #500: Best Fitness: 45, Time: 164.2 seconds

Run #7, Generation #500: Best Fitness: 16, Time: 225.95 seconds

Run #10, Generation #500: Best Fitness: 43, Time: 185.16 seconds

Run #8, Generation #500: Best Fitness: 18, Time: 265.76 seconds

Run #9, Generation #500: Best Fitness: 17, Time: 278.11 seconds

Run #10, Generation #500: Best Fitness: **14**, Time: 272.43 seconds