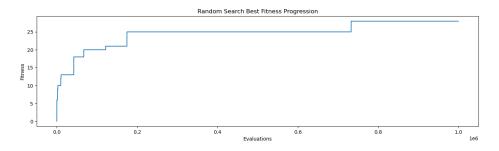
COMP 5660 Fall 2023 Assignment 1a

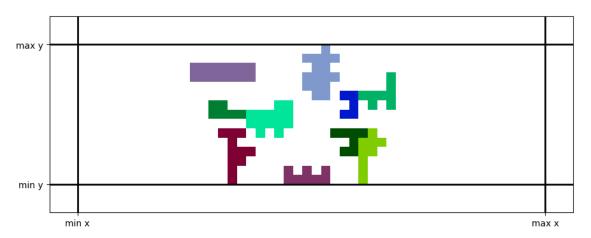
Matthew Freestone maf0083@auburn.edu
September 2, 2023

Stairstep Plot



This plot came from trial 13, which yielded a best fitness of 28.

The solution yielded by this trial is shown below.



Statistical Analysis

The mean and standard deviation of each dataset and the t-test values are as follows:

```
my data mean: 24.9666666666665

my data stdv: 1.7515182248421006

mystery data mean: 32.3666666666667

mystery data stdv: 0.6686751354593717

p-value: 1.092620614308096e-22
```

Given that the p-value is incredibly small, we can firmly reject the null hypothesis that the two datasets are the same. The mean of the mystery data set is significantly higher, so we can also claim that the mystery data yields better results.