**if ( file is not empty):**

Read the last species on the file.

**Else:**

Create initial species and genome with size=10 and write it to the file.

Play new game for each chromosome in current genome and species.

**if (**the timer runs out**):**

Save the score data for the current chromosome.

Move on to the next chromosome.

**Loop through the genome:**

**Selection**: Select the fittest chromosomes for breeding.

**Crossover**: mate the fittest chromosomes.

**Mutation**: mutate the crossover chromosomes.

**If (**the percent difference of the standard deviation of the current Genome is > 50% different than the standard deviation of the previous Genome**):**

Create a new species with the new Genome and increment species and set genome back to zero.

Write the new species and genome to file.

**Else:**

Add the new Genome (along with the random filler chromosomes) to the current species and increment Genome count.

Write the genome to the current species in the file.

**Until the population converges:**

* To find if the population converges take the standard deviation of each species and calculate each percent difference until it approaches 20% or some other arbitrary number.