Structure

```
main()
  -) takes an input.csv
           holds all parameters
 -) calls the getic algorithm
 -) (handles parallelisation later)
genetic_algorium (Simulation parameters)
 -) Setup parent and Child lists
 -) loop over iterations
        rank current parents
        while Child_list not full
            pick two parents
            reproduce ()
                if validate
                   add to children
  -) call evaluate on all Children
  -) Swap parent and Child lists
```

```
class cuircit
 Vars - connections (array)
        - out_conc, out_tail (dables)
        - Fittness
        - Parameters (eg. mut_prob, etc.)
  methods
        reproduce (other_cuircit, &new_connections)
        this will do both crossover and mutation
        and return a new Connections
         validate ()
         Check that this -> comections is valid
         evaluate ()
         find out_values
         CaStS()
         Convert out_ values to a gitness value
```