* Constraints
  + Each class is Monday/Wednesday/Friday for 50 minutes
  + Need to determine
    - Time slot
    - Room
    - Instructor
  + Preferred professor -> backup professor -> stopgap professor
  + Rooms of bigger capacity can be used, but it is preferred to get as close to the expected enrollment as possible
  + Starting population >= 500
* Structure
  + Genetic algorithm class
    - Main controller class
    - Controls new mutations
    - Stores overall fitness, course, instructor, room, time, etc
    - Setup method to store all professors, classes, and times into data structures
  + Fitness class
    - Calculates fitness for
      * Room size
      * Same time as another class
      * Taught by specific faculty member
      * Instructor load
      * Courses
        + Certain time apart
        + Different classes are consecutive
    - Calculate overall fitness
      * Normalization via softmax
        + Return probability distribution
  + Course class
    - Preferred professors
    - Back up professors
    - Stopgap professors
    - Expected enrollment
  + Instructor class
    - Professor name
    - Class schedule
      * What rooms
      * What times
      * What courses
  + Room class
    - What building is it in
    - What room name it is
    - What room size it is
    - When it’s available time slots are
  + Time class
    - Template class
    - Stores information on what time slots are available
    - Stores information on what time slots are taken
* Questions
  + Can we go directly to the minute or do we go to the our for scheduling?
  + For classes with A/B sections, are the expected enrollment per section or per class overall?
  + Can we hard code all the classes?
  + Should we output results to the command line or to a file?