Writing this program went well in the beginning during the setup, but I ran into trouble near the end due to not fully reading all the instructions before starting to write code. I have way too many nested lists in this program, to the point where I was having trouble managing them at points. I think having a better plan of action would have helped me out a lot and saved me a decent amount of headache. The schedules produced by the program look all right, it looks like a lot more negative points are being applied than positive, I am not sure if this is due to a coding error with nested for loops or if I have applied the algorithm wrong. The schedules mostly have little conflicts and can place instructors in the correct courses. The schedule scores mostly increase with each generation, along with the average scores for decreasing the mutation rate in generation batches. Although the fitness score for most activities seems to be low, in high negative numbers. For improvements I would focus on working to get rid of as many loops as possible for the fitness function. I would have also liked to be able to have drawn out some form of blueprint or diagram to get myself aligned; I worked my way down the page rather than planning it all out beforehand. Do you have any tips or software suggestions for better organizing your thoughts while coding, I am a forgetful person and still try to rely on my own memory far too often.

Source Code: <https://github.com/bclord115/cs461assignment2>