I decided to start over and work with 2 input truth values. I was able to get the method working. I not need to make something that can parse through the list of lists and make circuits from it. It might be useful, first to check if this program would run in a reasonable time given a truthValue for a 3-input circuit. It seems to take a lot longer with three inputs. I cut it off at 2 minutes. I will add a depth function. If it reaches that depth, it will not follow the path any longer. I tried running the program on 00001011 with depth 4 and it is taking longer than 3 minutes to complete. This method may not be feasible alone. I will try combining it with the forward search method as was originally intended. It is possible to find things very quickly going to either depth 2 or 3. The question is, will it be the minimum circuit. To determine this I would have to build the function that can read the output it gives and counts the minimum number of gates for each combination it found. It took about 10 seconds to find the unformatted collection of circuits for 01101001. If I can make a function that formats this and finds the minimum circuit from this collection in a reasonable amount of time that would complete the problem. Hopefully that minimum circuit would be the global minimum we were searching for. I think I will try and use a depth first search to find format the data and find the minimum circuit.

This method is truly proving to be more complex than I expected. I’m not sure if it is possible to do the program as I initially intended. I will write some sort of program though and see what it gives. This way, when someone comes who I can discuss my problem with, I would have had a starting point.

I am hitting a wall still. Things are getting so complicated that I don’t even know how to guess at what to do next. I need to back up and rethink things a bit. I can’t figure out a way to parse the result of workBackward(). I will need to discuss it with someone. For now, I will see if Jing needs me to work on anything.

I am going to try doing an edX course on RNA seq data analysis.

I installed all the necessary programs using instructions from:

<https://github.com/genomicsclass/windows/blob/master/README.md>

Installing packages from GitHub

* We are ready to install R packages from GitHub
* First we need to load the devtools package

library(devtools)

* Now we can install the gapminder package.

install\_github("jennybc/gapminder")

I don’t think I got the final steps to actually work.

I did the first module of week one. Things got a bit fuzzy as he went into calculations. I will need to revisit this portion tomorrow.