

ELEC 1908
Assignment #2

Key to this extension is to take it one step at a time, use descriptive variables and plan it out. Use small matrices and try out functions / steps in the 'command window' to see how each different one works.

Below is a brief pseudocode with actual examples for how you can go about this assignment:

```
create an empty storage variable for each statistic [ largeLive = []; ]  
for numberOfLoops  
    for time goes from 1 to maxTime  
        do Standard operations from previous program  
        find variable needed [e.g. number of live cells, number of neighbours, ...]  
        store variable in matrix [e.g. liveCells(time) = numberOfLiveCells; ]  
        plot what you like [e.g. plot(1:time, liveCells) ]  
    end  
store all of the time data in a larger variable [ largeLive = [largeLive ; liveCells]; ]  
end
```

grab the mean or standard deviation of the largeLive, using:

- newMeanVariable = mean(largeLive)
- newStdVariable = std(largeLive)

This will find the mean at each time step (for all runs)

Can now be plotted using:

- plot(1:maxTime, newMeanVariable)