PART 1:

1) Generate simulated data using simdata_gen script.
2) For each set of simulated data:
    a. Run parameter estimation using given scripts (simulation0, simulation1, etc.)
    b. Run KFS script to filter simulated data using estimated parameters from above step.

PART 2:

1) Execute run.sh from code/Experiments/RealData folder to ensure scripts work on given "real data"

PART 3:

1) For each subject scan in BNU dataset:
    a. Run R-script to convert time-series graph to MATLAB object
        - dimensions = numROIs x numTimeSteps
    b. Run parameter estimation script on subject:
        - Y = subject scan
        - A = identity
        - C = identity
        - Q = identity
        - R = identity
        - Pi = first column of subject scan (ROIs values at first time-step)
        - V = identity
        - Tolerance = 1e-6
        - Iterations = 20
        - Output = [a, c, q, r, pi, v]
    c. Use estimated parameters to run KFS script on subject:
        - Input = [a, c, q, r, pi, v, y] from above, where y = subject scan
        - Output = [Fv1, Fv2, Fx1, Fx2, Sx, Sv, Scov]
    d. Save filtered outputs as .mat file
2) Run check_mnr R-script on filtered subject time-series (Fx1) to get discriminability score.