To run the London battery simulation, run *cond_inf.py* and run the *energy_test_run()* function.

To generate the London graph, run *create_london(area=0, n=0)*, where area is which area of London to use [0,8] and n is the number of nodes to include. In order to make sure the graph is connected, it may be necessary to manually hard code new edges to connect different sections.

To create a random graph, run *get_graph1(n=16, p=0.3)*, where n is the number of nodes and p is the probability of an edge occurring between each pair of nodes.

To infect a graph, run *max_inf(G)*, where G is the graph. This will return a list of graphs from each iteration of infection, with the last graph in the list being the final result.

To disinfect a graph, run *disinf(G, t, p, inf, max_iter=500)* where G is the graph, t is type of probability distribution to use (max, min, med), p is the proportion of nodes to begin disinfection with, inf is the influence level given to disinfluenced nodes, and max_iter is the maximum number of iterations to perform. This will return a list of graphs from each iteration of infection, with the last graph in the list being the final result.