County: Los Angeles
State: CA
222 milliseconds to simulate the process
Minimum number of counters: 57

County: Orange
State: FL
191 milliseconds to simulate the process
Minimum number of counters: 51

County: Harris
State: TX
178 milliseconds to simulate the process
Minimum number of counters: 25

County: Hamilton
State: OH
181 milliseconds to simulate the process
Minimum number of counters: 7

County: New Castle
State: DE
183 milliseconds to simulate the process
Minimum number of counters: 5

The order of each of these processes entirely depends on the method counterCalc which does the main bulk of the work for the program. This method uses a for loop with a few if statements, because of this it has a reported order of O(N) as it runs a specified number of times equal to the amount of reports. This is then increased when the program runs the processQueue method, as it runs a while loop this increases the order to O(n^2) as the worst case in the previous section adds every value to the queue.

Bugs/Issues

There was an initial issue with figuring out the proper way to iterate using the dates as finding the proper index was a little difficult. Please let me know if there is a better way to implement it.