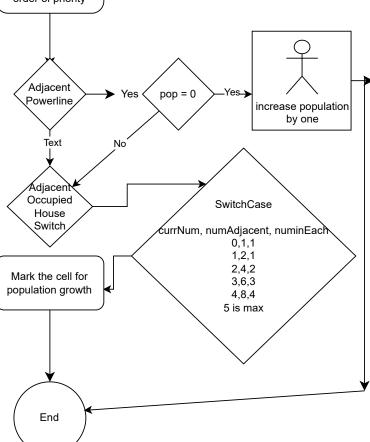
Main Updated for Project 2 Config & Region Values for config are read and dictate what region reprompted if not file should be read If they exist **START** valid Region | Region is read, commas are skipped, Zones are initialized so and cells are initialized resources are saved in a 2d vector when checking for Additionally, it is at this growth, as it is only step that zones are checking for growth in initialized the specified zone, this also helps order the operation of checking for population growth Cells are separated and then worker and into types then good growth Residential. Commercial, and Industrial, each of This state is printed these are initialized with zero values. Garbage Route is The commercial zone is also calculated evaluated against its rules and the cities available workers and resources The industrial zone is then Main Loop begins with a switch case evaluated against its rules and will change depending If no com **GARBAGE** upon the city's available growth COLLECTION workers If no ind END Residential zone is growth searched through and POLLUTION and checks for cells marked **GARBAGE** for growth, grows them, **GROWTH** and checks for cells to be marked for growth restart loop If user wants more details Print city and the print those out as well city's values accurate to their last update Restart Loop If there is no growth or once the time limit is reached the loop ends (for loop with given amount Program prints out message of times to loop and if specifying a premature end or STOP statements are there natural end, and ends the to break out of program the loop prematurely

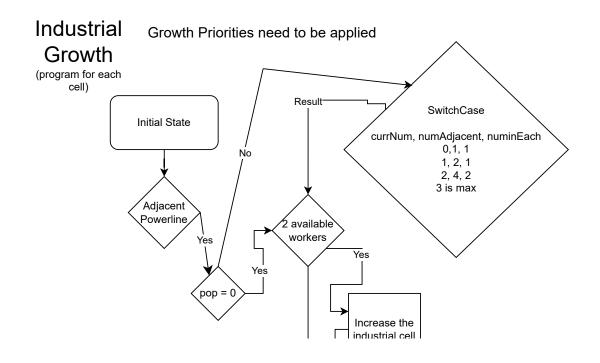
Residential

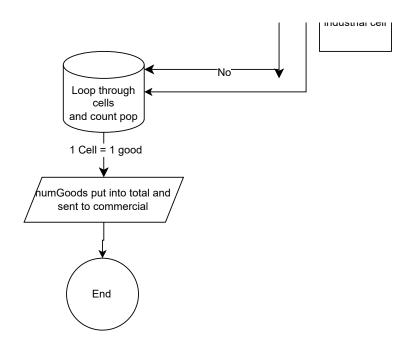
Growth

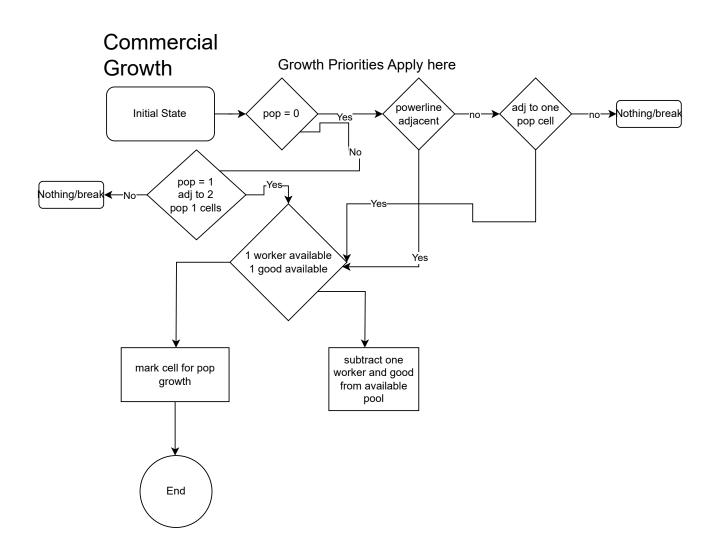
Growth Priorities need to be applied

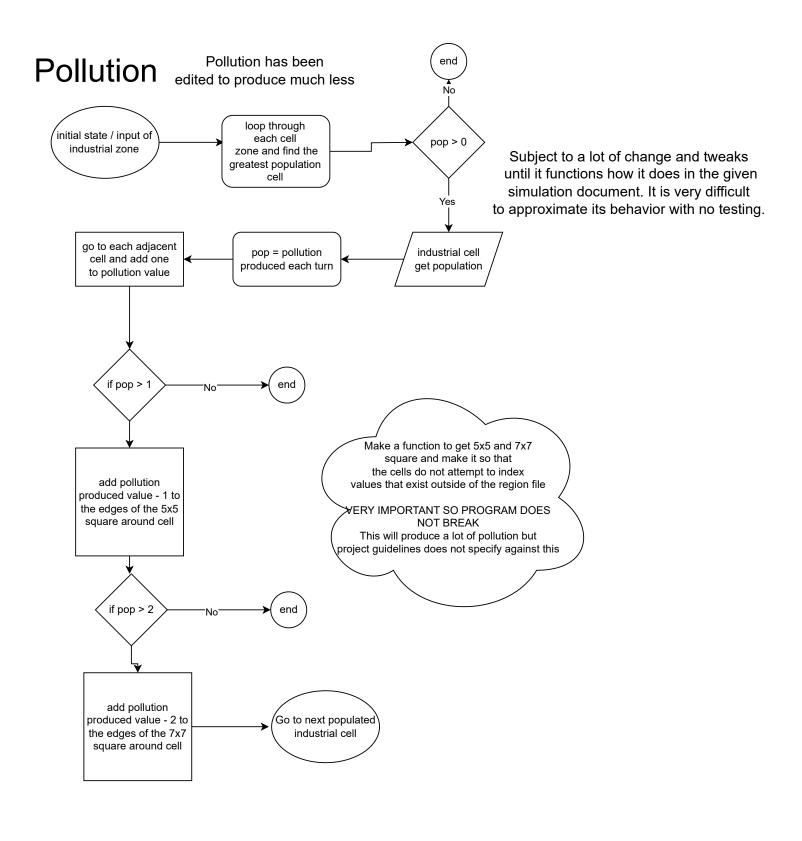
Input = 1 cell the correct cell will be analyzed at each time step in order of priority This starts from the bottom right to the top left

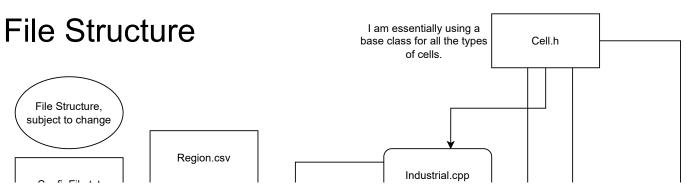


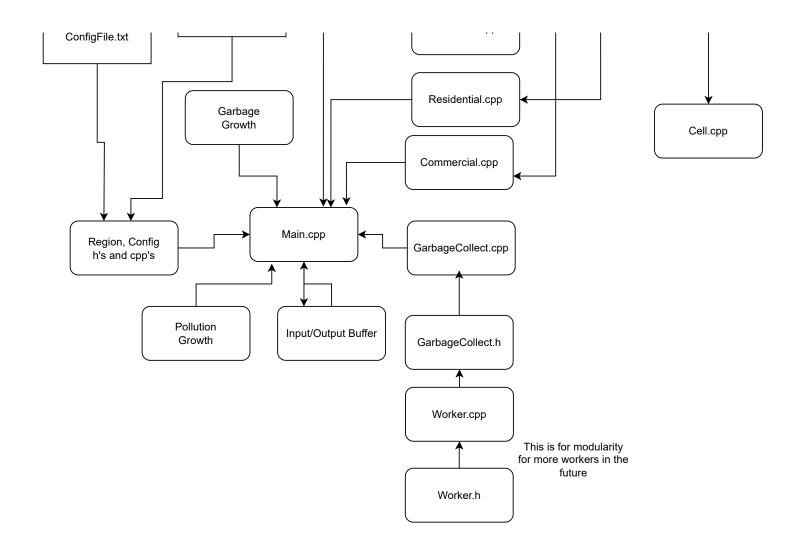


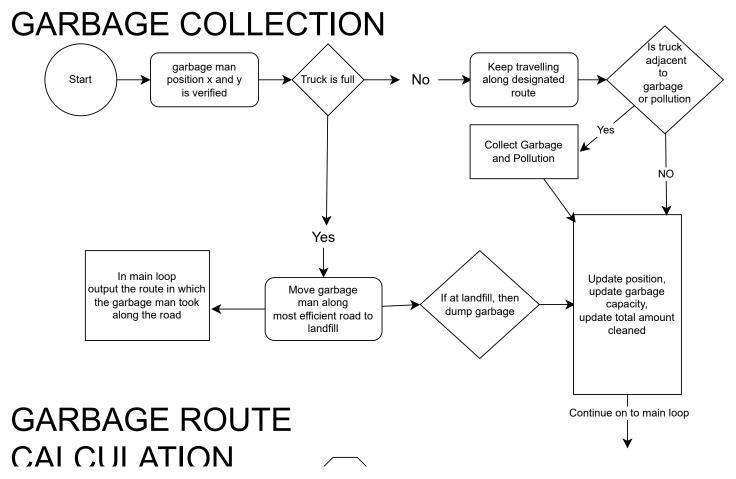


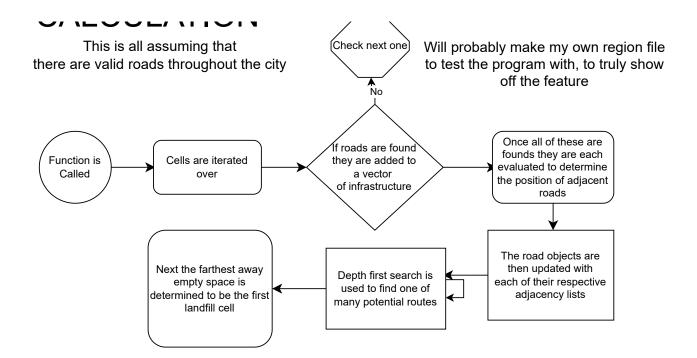












GARBAGE GROWTH

