**Filter large dataset based on keyword**

In this lab, you are going to write simple C and Python programs to filter a large dataset file based on a keyword. This is usually the first step of any machine learning algorithm. To make things easier the requirements for the C and Python 3 programs are the same.

**🧮 Problem Description**

Create a program that receives a keyword as the first command-line argument and writes in the result.txt file all the lines of covid-confirmed-us-subset.txt file that contain the keyword. If the keyword is omitted then the result.txt file must be empty. Similarly, if none of the lines in covid-confirmed-us-subset.txt contains the keyword then result.txt file must also be empty.

covid-confirmed-us-subset.txt is a small subset that contains time series of the number of confirmed COVID-19 cases for different counties in the US. For now, we are not interested in the actual numbers, just in generating subsets of it such as California cases only. If you are interested, the full dataset that can be found [here](https://raw.githubusercontent.com/CSSEGISandData/COVID-19/master/csse_covid_19_data/csse_covid_19_time_series/time_series_covid19_confirmed_US.csv).

**🆎 Example**

Assuming a covid-confirmed-us-subset.txt file with the following content:

Autauga,Alabama,US,127,136,143,149

Los Angeles,California,US,262,270,269,271

Running python3 prelab.py California should produce a result.txt file with the following content:

Los Angeles,California,US,262,270,269,271

However, running python3 prelab.py or python3 prelab.py Jalisco should produce an empty result.txt file.

**⌨️ Usage**

* python3 prelab.py keyword to run the Python program.
* make test-python to evaluate the Python program against the 3 test cases.
* make prelab.out to compile the C program, an executable file called prelab.out will be created.
* ./prelab.out keyword to run the C program.
* make test-c to evaluate the C program against the 3 test cases.
* make to evaluate both, C and Python programs.
* make clean to remove the generated files.