## Lab 08 - Arrays & Maps Problems

Direction: Submit typed work in the Labs directory of your github repositor or dropbox, or upload to the google classroom assignment. Each part will have a template file provided named "lab8A.cpp" and "lab8B.cpp" respectively.

## Part A: In class

Your objective is to write the definition of the function GCD() whose header is

ulong GCD(Vector<ulong>& data)

It returns the greatest common divisors of the elements of data where the greatest common divisor is the greatest number that can divide all the elements evenly. If data is empty, it returns 0. You can only use functions you define to help define GCD().

## Part B: Take home

Your objective is to write the definition of the function Mode() whose header is

double Mode(Vector<double>& data)

It returns the mode of the elements of data where the mode is the value that appears the most times. If data is empty or data does not have a mode, it returns 0.