# Lab 05 - Arrays

**Direction: Submit your typed work(s) as an upload(s) to the Labs directory of your GitHub repository or Dropbox, or in your correct Lab04 google classroom assignment. Each part should be a separate files. The files named should be "lab5A.cpp" and "lab5B.cpp" respectively.**

## Part A: In class

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

$$\text{int LastSearch(const double data[],double target)}$$

Given that *data* has a size of 5, the function returns the index of the last element of *data* that equals *target*. If no element equals *target*, it returns -1. For instance, if *data* = [1.0, 2.0, 4.0, 2.0, 4.0] and *target* = 4.0, the function will return 4. You cannot use a loop.

## Part B: Take home

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

$$\text{int Mode(const int data[])}$$

Given that *data* has a size of 5, the function returns one of the indices of the elements whose value appears the most in *data*(it appears more than once); otherwise, it returns -1. For instance, if *data* = [2, 3, 5, 2, 4], the function will return either 0 or 3. You cannot use a loop.