

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 `FirstSearch()` whose header is

```
int FirstSearch(const double data[],double target)
```

Given that *data* has a size of 5, the function returns the index of the first 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 2. You cannot use a loop.

Part B: Take home

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

```
int Median(const int data[])
```

Given that *data* has a size of 5, the function returns the median of the elements of *data*. For instance, if *data* = [2, 3, 6, 1, 5], the function will return 3. You cannot create any additional resources (variables, arrays, etc), and you cannot use a loop.