

## CS111 Assignment 9

Write a complete C++ program that will randomly generate 20 integers between the ranges 60 – 100 and store the result in an array. The program should consists of the following functions to test out the array:

- a. *findMax* will return the largest number of the array.
- b. *findMin* will return the smallest number of the array.
- c. *findAverage* will return the average of the number of the array.
- d. *findMinGap* will return the smallest gap in between the adjacent entries of the array. (A gap between two numbers is the absolute value of their difference)
- e. *findGapSum* will return the sum of gaps between adjacent entries of an array.

The main program should be similar to below:

```
int main() {  
    int array[20] = { };  
    // initialize all the value of the array;  
    cout << findMax(array, 20) << endl;  
    cout << findMin(array, 20) << endl;  
    cout << findAverage(array, 20) << endl;  
    cout << findMinGap(array, 20) << endl;  
    cout << findGapSum(array, 20) << endl;  
}
```