Summer 2023
COMP 8567
Lab 1 v2

Part A (Dynamic Arrays)

- Write a C program to dynamically create an array of *n* integers using *malloc()*. The user inputs the value of *n* and all the elements of the array.
- Print the contents of the array in the **reverse order** using dereferencing only.

Part B (Functions as Parameters)

- Write a C program that invokes a function **difference (smallest2, largest2, &num1, &num2, &num3, &num4)** and prints the return value. //Numbers must be passed by reference
  - num1,num2 , num3 and num4 are positive integers with random values assigned to it.
  - **int smallest2** (int *n1, int *n2, int *n3, int *n4) //returns the second smallest number
  - **int largest2** (int *n1,int *n2,int *n3, int * n4)// returns the second largest number
  - **int difference** (smallest2, largest2, int * n1, int * n2, int *n3, int *n4)
    // returns largest2- smallest2

Submission:

- **Submit two files**: lab1a.c and lab1b.c