

Programming Project 1

Due: Thursday, 8/28/14 at 11:59 pm

Simple Parameter Passing

Write a C program that will perform the following:

1. In **main()**, print your name and your UIN to the standard output. (The standard output is your terminal window.) For example, if your name is John Doe and your UIN is 123456789, then your program should print the following message on the standard output:

```
My name is John Doe. My UIN is 123456789.
```
2. In **main()**, prompt the user for two integer values and read them in. The prompt is to use the `printf()` function and the read is to use the `scanf()` function. Then, print out both variables after they were read in in a descriptive manner.
3. Write a function called **max()**, that will take in two integer parameters and return the larger of the two integers. Call this function from `main()` using the values read in during part 2. Print out the value returned by the function using `printf()`.
4. Write a function called **swap()** that will take two parameters and exchange the values so that the values are exchanged in the calling code. Call this function from `main()` using the values read in during part 2. Print out the values in the variables both before and after the call to `swap()`.
5. In **main()**, create an integer array to hold 10 integer values. Prompt the user for 10 integer values and read in these integer values using a loop and store them in the array. Use `printf()` and `scanf()` for the prompting and reading of the values.
6. Write a function called **sum()** that will take an array as a parameter (it may have other parameters) and return sum of all values in the array. Call this function from `main()` using the values read in and stored in the array during part 5. Print out the value returned by the function using `printf()`.
7. Write a function called **adjust()** that will take an array as a parameter (it may have other parameters) and increment the values in the array by random amounts (use the `rand()` function to determine that adjustment amount). Call this function from `main()` using the values read in and stored in the array during part 5. Print out the values in the array both before and after the call to `adjust()`.

All prompts and outputs must be descriptive! The C library functions of `scanf()` and `printf()` must be used for all input and output for this program.

Program Submission

You are to submit the program via Blackboard. You should name your file(s) with your net-id and lab name. I.E., if your net-id is **ptroy1**, then name it: **ptroy1lab1.c**