

LAB 7 — Command-Line Arguments

1. Specification

Write a program that accepts a set of integers as command-line arguments from the user, and then displays the maximum, minimum and average values of the input integers.

2. Implementation

- The program to be submitted is named `mmavg.c`. **Use the given template `mmavg.c`** and fill in your code. Complete functions `main()` in file `mmavg.c`.
- Note that the command-line arguments are all strings. Therefore you may need to implement a function to convert a string to an integer to obtain the input integers. An integer could be positive or negative. That is, it may have a `+` or `-` sign.
- Sometimes users may forget the command syntax and they may type only the command `"mmavg"`. In that case, display the following reminder message:

```
Usage: mmavg int1 int2 int3 ...
```

- Other than that, assume that all inputs are valid and the number of input integers is less than 100. No error checking is required on inputs.
- You may define your own variables inside functions `main()`. Do not use global variables.
- You may define and implement your own function(s) inside file `mmavg.c` if needed.
- **Do not use any C library functions (e.g., `atoi`).**
- To compile the program, use the following command: `cc -o mmavg mmavg.c`
- There must be at least a white space between the input numbers. That is how the command-line arguments are separated.

3. Sample Inputs/Outputs

See file `mmavg_io.txt` for sample inputs and outputs.

Common Notes

- Complete the headers in the files to be submitted with your student and contact information.
- Assume that all inputs are valid. No error checking is required on inputs.
- You may use either pointers or array indexing or both.