

**CS211 Data Structures and Algorithms Lab**  
**Autumn 2020**  
**Assignment 0**  
**Due on 9 September (Wednesday)**

This assignment is not for evaluation. But, it is highly recommended that you complete this. Doing this will help you to do the upcoming assignments which will be evaluated. Submission of a working program by 9th September (Wednesday) is mandatory to get an attendance for today's (5th Sep) lab, apart from attending the lab. All submissions should be through Moodle. Submission through emails will be ignored.

You will be given with a file which contains one integer per line. Your program should take as input the name of a file as a command-line argument. The output should be written to a file named 'output.txt' which should contain only 5 lines of data:

- The first line should contain the number of numbers in the file,
- The second line should contain the minimum number present in the file
- The third line should contain the maximum number present in the file
- The fourth line should contain the sum of the numbers
- The fifth line should contain the average of numbers - upto two decimal points.

Please use any of the following languages for solving this problem.

C, C++, Java, Python

Your program should not use any fancy package or functions that nullify the objective of this assignment. For example, using the "max" function in python to find the largest integer in a list should not be used for this assignment. If you are in doubt whether to use some function/package or not, please send an email to your TA (Gayatri Rayar) ccing the instructor.

We will conduct a plagiarism check for the submissions. Strict action will be taken if we find any malpractice. We will not distinguish between the original program and the copied program.

Some sample inputs and outputs are attached.