

LAB GOALS:

- File Reading and Writing

LAB DESCRIPTION:

You will write a program that contains the following functions:

- A function that creates a text file that contains 1000 random numbers between 0 and 9. You will use the value 1170 as your random seed and use the `randint()` function to generate all the numbers. The text file you create will have exactly 1000 numbers, each on its own line. You can name the text file and function whatever you'd like.
- A function that reads the file you just created. It will read each line of the file and count the number of 0s, 1s, 2s, ... up to 9s. Then it will display a printout of those counts (see example below)
- A main function that first calls the function that creates the file, then calls the function that reads/analyzes the file.

EXAMPLE OUTPUT

(the output below was produced using a seed of 1171 – you will use a seed of 1170 in the program you submit)

```
$ python3 olab1.py
# - Count
-----
0 - 96
1 - 90
2 - 104
3 - 95
4 - 116
5 - 103
6 - 90
7 - 93
8 - 107
9 - 106
```

Please do your own work on this lab. If there are any questions, please contact your instructor for clarifications.