Overview

The objective of this assignment is to familiarize you with Bloom Filter and its use for detecting weak password selection. After finishing the assignment, you should be able to select the appropriate design parameters for Bloom Filters needed for weak password detection given a set of bad passwords.

Programming Tasks

This project requires you to write a program implementing a Bloom Filter. It is recommended you write the in Python but C is also acceptable. Be sure to include a README file on exactly how to compile and/or run your code. Submissions must be able to run on OSU FLIP servers.

Files:

- **dictionary.txt** ⤓ **(https://canvas.oregonstate.edu/courses/1870102/files/92966064/download?download_frd=1)**
- **sample_input.txt** ⤓ **(https://canvas.oregonstate.edu/courses/1870102/files/92965858/download?download_frd=1)**
- **sample_output.txt** ⤓
  (https://canvas.oregonstate.edu/courses/1870102/files/92965860/download?download_frd=1)

Submission Details

You need to submit:

- Your code.
- Makefile for compiling, if code needs compiling.
- README describing any details needed to get the code to run.
- Report on explanations to observations that are interesting or surprising.