

## COMP 4958: Lab 6

1. Write a go program that sorts records stored in a file.

The following shows the data format in the file:

```
homer simpson 25  # lowest score
ned flanders 99  # highest score
monty burns 65
```

Each line stores a record that consists of a first name, a last name, a score, optionally followed by a comment. Each line of the sorted output consists of the score followed by the last name & then by the first name. Note that comments are skipped in the sorted output.

The output should be in descending order of scores, & if multiple records have the same score, they are then in ascending order of last names. Finally, records with the same score & last name are in ascending order of their first names.

The program takes the name of the input data file as a command-line argument Sorted output is displayed to standard output.

2. We revisit the 7-digit prime permutations problem from lab 2, this time using Go.

Here is a set of 7-digit primes that are permutations of one another:

```
4004057, 4040507, 4400507, 4500047, 4500407, 4540007, 5040047, 5040407, 5044007, 5440007
```

This set has 10 elements.

Write a Go program to find the size of the largest set of 7-digit primes that are permutations of one another.