

# Data Structures and Objects

## CSIS 3700

### Lab 6 — Sorting

#### Goal

Experiment with various methods for sorting data.

#### 1 — Preparation

- Get this file and the **sorting.zip** file
- Extract the zip file in an empty directory
- Open a terminal window and use the **cd** command to go into the directory with the extracted files.

#### 2 — Build

- Run the **make** utility

#### 3 — Run

- Start a log with the command **script sorting.log**
- Run the run.sh script with **./run.sh**
- Wait for the script to finish.
- When the script finishes, use the **exit** command to close the log file
- You have now run six sorts three times each on 16 data sets

#### 4 — Spreadsheet

- The **sorting.log** file has all of the screen output
- Open the **times.ods** file. It can be opened with either Libre Office or Excel
- Put your name at the top of the Spreadsheet
- For each program run, add the user and system times; put that sum in the appropriate place in the spreadsheet. Do not do anything with the average columns; they have formulas that should average your data

#### What to turn in

Please turn in your modified source code.