

# CSCI 132 Practical Unix Programming

## Homework 6

### Due Last class

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#### Part 1: Function and references

Write a function that accepts two arrays, and returns 1 or 0 based on the following:

- if both arrays have the same size, and for each element of the first array, that element appears exactly the same number of times in both arrays, return 1
- return 0 otherwise

PS1: you must use references to pass the two arrays; otherwise, both will be flattened into one array.

PS2: your function should have nested loops, the outermost loop to go over the elements of the first array, and the inner loops to check the number of occurrences of that element in both array.

#### PART 2: Nested structures

Consider a file containing lines of the following form (each line contains a name, followed by three numbers):

```
smith 18 14 16
```

(a) Read the information from the file, one line at a time, and construct on the fly a two-dimensional array to hold the information. Each element of the array is itself an array of 4 elements: the name and the three numbers.

(b) Read the information from the file, one line at a time, and construct on the fly a hash of arrays to hold the information. Each name is a key in the hash, the value corresponding to a key is an array of 3 elements (the numbers).

(c) Which structure is better suited for this type of information?