

# CS 161 Exercise

## Array (List) Manipulation

Word-process or neatly hand-write your solutions to the following problems.

### Part One

Write array (list) declarations for each of the following:

- 1) Store the names of the days of the week.
- 2) Store the high temperature for each day of a month.
- 3) Count how many cars of five different models were sold.
- 4) Store the total sales amount for each of ten sales people. For this one, assume that the amounts start at zero and will be added to over time.

### Part Two

Write the code necessary to

- 1) Display the values stored in an array of 20 strings.
- 2) Display the values stored in an array of strings which has unspecified length (in other words, it might have 3 elements, it might have 99).
- 3) Find the sum of all the values in an array of integers.
- 4) Find the maximum value in an array of integers,
- 5) Count the number of occurrences of a given value in an array of integers.

### Part Three

- 1) Write a function that is given an integer and an array of integers, and returns the index at which the integer is found, or  $-1$  if it is not found.
- 2) Write a function that is given an integer month and year returns the number of days for that month/year combination. Take leap years into account.

