Summer 2020

Contacts

Assignment 1 (Supplemental)

Introduction to C Strings

The section of the notes regarding C strings is not completely covered until week 9, however you will need to know some very simple facts about string handling in C for this assignment. If you wish, you can read more about string handling here: http://scs.senecacollege.ca/~ipc144/pages/content/strin.html

A C string is an array of type char with a special terminator character called the null byte. When declaring a C string array it is necessary to always make the array <u>one character larger than the</u> maximum number of characters it needs to be able to store.

If we need to be able to store up to **30 characters**, this is the declaration of the array:

```
char firstName[31]; // the size is 31!
```

To read a C string (user input), code the following:

```
scanf("%30s", firstName);
```

<u>Note</u>: There is no ampersand (&) before firstName, the name of an array is its address. 30 specifies the max number of characters to be read

To print a C string, code the following:

```
printf("%s\n", firstName);
```

Here is a code sample that reads and writes a C string: