Programming with Persistent Data CMPU 1028

Week 4

Lab 3:

Exercises with binary files using fread, fwrite, fseek and ftell.

a) Use the code given in random.c to generate a binary file of 1000 random[1] numbers (integers). Do this by breaking the tasks down into their steps: create the variable, write the variable to an appropriate file. Call the file num1000.*bin* .
b) Write a program to read and display the file *num1000.bin* that was just created in part a) - Use a loop.
c) Write a program that reads the file *num1000.bin*, but this time use an array and fread. The program should/will produce the same output as the program at point b).
d) Write a program to copy the file *num1000.bin* to a new file named *num1000Copy.bin.*
e) Write a program that uses fseek to set the 3rd and 10th number to 0 in either of your random number files.
f) Write a program to display the file, copy the previous code written into this files such that the file content is displayed pre-modification of part e) and post implementation of part e).

[1] These are pseudo random in that each time your run the code the randomised numbers are the same! Not good as a security feature!