COMP500 / ENSE501: Week 11 – Exercise:

EXERCISE NAME: *Read, Sort, Write*

Write a program that reads in a binary file that contains 4-byte integers.

Once the program has read all 4-byte integer from file, the program must then sort the data using the **qsort** function from **stdlib.h**.

Finally, the program must write the sorted data back out to file.

Two test files are provided, **random10.bin** which contains 10 unsorted integers, and **random10000.bin** which contains 10000 unsorted integers. The program should support reading and sorting a binary file that contains any number of integers.

Use a hex editor to ensure your output file has been written to disk with the data sorted correctly.

Ensure your source code compiles and follows good programming standards. Ensure your program is well tested.