COMP500 / ENSE501: Week 11 – Exercise:

EXERCISE NAME: *Read in Binary Arrays*

Write a program that can read in a binary file.

The first four bytes of the binary **floatdata.bin** file contain an integer which describes how many floating-point values are stored in the file following the first four bytes.

Read in the first four bytes, into an **int** to discover how many floating-point values are in the file.

A dynamic heap array will need to be allocated to store this data, based upon how many floating-point values are stored in the binary file.

Next, read in the entire array of floating-point values.

Finally, compute the average of the **float** values and then print out the average.

Using the **floatdata.bin** file available on Blackboard, the program's output will be as follows:

```
Average is 1.375030
```

Ensure the program output is exactly as described, and that the whitespace of your source code is well formatted.