

ENGINEER 1D04
Engineering Computation
McMaster University, Winter 2010

Lab 9 Marked Assignment 4 Solution
Monday Lab

Revised: 19 March 2010

Correctness

Using the test file `L9TestFile.txt`, the `Read Input File` should display the contents of the file in a message as

```
5.6
3.56
1.12
-.56
.56
-2.3
-12.9
12.0
16.8
-21.8
-21.8
0.0
0.0
2.56
8.98
11.8
-6.78
-5.5
-14.5
5.6
3.56
-.4
```

and the `Calculate` button should display 158.68 in the output label box.

Design Question

If the program was implemented without the array `data_array`, the file would have to be read twice, once for the `Read Input File` button and once for the `Calculate` button.

Testing Question

No, there would be too many files to check. (The number of possible files of values of type `int` with ≤ 1000 entries would be greater than $(2^{32})^{1000}$, which is an astronomical number.)