

PROBLEM STATEMENT:

Create a program, using the bubble sort algorithm, to sort an array of integers

CODE:

Must use only the bubble sort provided in class. The bubble sort is to have the following prototype

```
void bubbleSort( int dataArray[], const int size, int& numOfSwaps )
```

Modify it to stop as soon as the array is sorted.

The array is sorted if there are no swaps on a pass through an array

Prompt user for the fully qualified name of the file

A sample file is enclosed (see nums.txt)

The array to be sorted contains 500 integers.

The sorted array must be printed to a file, user chooses name, with a single integer on each line

The last line of the output file must contain the number of times integer values were swapped

open any file requested

use functions.

DELIVERABLES:

Source file and executable in a zip file named

cs121_lab8_YOURLASTNAME.zip

submitted to BrightSpace to Lab8

The electronic submission is due at 1:00pm 7 November 2023

Copy of source code 1:00pm 7 November 2023