Homework V

COMSC-044

Fall 2020

Homework V-A
Determining Largest, Smallest & Mean from File Input

- Write a program, called *YourName*_HwrkV-a, which lets the user enter numbers from a file called “Random.txt” until the file is entirely read.
- After the file has been read in, the program should print out:
  - The Largest number entered,
  - The Smallest number entered,
  - The total count of numbers typed in,
  - The Average of all the numbers entered.
- The program should check to be sure that at least one value was entered so that when computing the Average, the program does not divide by zero.

Homework V-A
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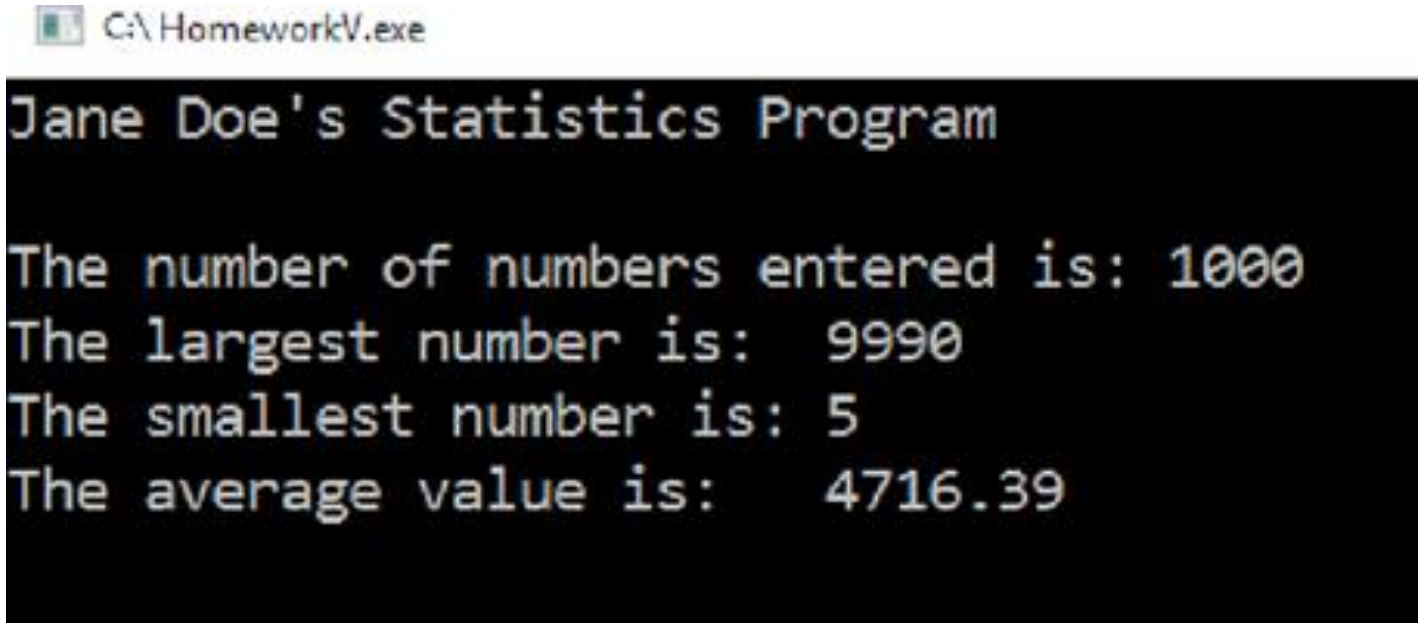
- Here's an example of a typical run:



Homework V-B
Creating File of PseudoRandom Numbers

- In HomeworkV-a, we used a file of Random numbers which was generated by a C++ program.
- Your job is to write the program, *YourName*_HwrkV-b.cpp, which actually generates these numbers.
- The numbers should each be Integers, between 1 and 999.
- Place 1000 of these numbers in the file *LastnamefirstInitial*-Random.txt (where *LastnamefirstInitial* would be your last name followed by your first initial. In other words, if your name were Alan Turing, then the file would be called TuringA-Random.txt).

Homework V-B
Creating File of PseudoRandom Numbers

- You can use your HomeworkV-a program to test the data that you have created. After your program has executed, it should leave the following message – except that you should use your name, not Alan's.

- Place the program: *YourName*_HwrkV-b.cpp, in your dropbox.
- Be sure to also include in your dropbox the file: *LastnamefirstInitial*-Random.txt.
- Hint: I found Program 3-26 and Program 5-20 both helpful.