**CMSC140 Programming Classwork/Homework**

**Develop** a program that implements a function named largerThanN  that accepts three arguments: an array of type int,  the size of the array of type int and an int number n.

The function should display all of the numbers in the array that are greater than the number n.

in the main() function create an array named numbers containing 10 integers :  30,20,50,2,-1,44,3,12,90,32

Ask the user to enter a number.

Call the the function  largerThanN  and pass the array , the size and the number that user entered.

Name your file FirstInitialLastName\_CW\_7. cpp

**Submit:**

C++ file (source code): FirstInitialLastName\_CW\_7. cpp

Screenshot of output in Word Document - use your name, CRN, a semester in the file name, and also in the Word document.

**Example output:**

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Graphical user interface, text

Description automatically generated

**Grading Rubric:**

|  |  |
| --- | --- |
| Grading Criteria | 100 Points |
| 1. File format requirements | 5 |
| 1. Word Document with following requirements listed below:    1. Algorithm/Pseudocode. (-10)    2. Screen prints of program run. (-10) | 20 |
| 1. Submit LastNameFirstName\_CW\_7.cpp file    1. Program passes sample data tests.  (-10)    2. Program passes instructor data tests. (-10)    3. Quality of detailed steps and screenshots as per requirements listed above. (-5)    4. Incorrect use of indentation, naming convention, etc. (-5)    5. Not meet input requirement(s)/Took input incorrectly  (-5)    6. Not display or produce all required output. (-5)    7. Not meet output requirements. (-10)    8. Not use required control structure(s), operator(s) or statement(s). (-10)    9. Not use variables, constants, and literals (-3)    10. Not declare and initialize all required data items (-3)    11. Not use output manipulator: setprecision, fixed, etc. (-4) | 70 |
| 4.  Submitted the deliverables as per the due dates specified in the course schedule. | 5 |
|  | 100 |

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Header to include in source code:

 \* Class: CMSC140 CRN

 \* Instructor:

 \* Classwork/Homework/<1>

 \* Description:

 \* Due Date:

 \* I pledge that I have completed the programming assignment independently.

   I have not copied the code from a student or any source.

   I have not given my code to any student.

   Print your Name here:

   \* Pseudocode or Algorithm for the program:

                (be sure to indent items with control structure)

                (need to match flow chart submitted in documentation)

  1.Declare a variable visitorName.

  2.Receive the input visitorName.

  3.Declare a variable num, and receive the input and store the data num.

  4.Caculate years, months, days, hours, minutes, seconds, human age, dog age and fish age.

  5.Declare variables num1 and num2.

  6.receive the input and store the data num1 and num2.

  7.using operator "+,/" to calculate, and using cast expression to convert double.

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