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- Program must be named: yourLastNameFirstLetterOfYourFirstNamepgm1.java
- Turn in the signed source code on paper, and email me the source code.
- Make sure the program is properly documented and aligned uniformally, looking professionally, I will take points off if it not.
- Include the following header in every program:
*********************************************************************
Author : Your Name
Course : COP 2270 T-FR 12:50 PM
Professor : Michael Robinson
Program \# : Program Purpose/Description
\{A brief description of the program \}
Due Date : MM/DD/YYYY
Certification:
I hereby certify that this work is my own and none of it is the work of any other person. .......... $\{$ your signature \}..........
/*********************************************************************

Purpose of this program:

- Create first ANSI C program
- Use multiple Data Types to declare variables, and assign values to them.
- Use functions, pass parameters. (MAKE SURE THE function NAMES DESCRIBE WHAT THEY DO example: addNumbers
)
- Do calculations and print results, using printf and \n or \t
- Use remarks to document your program.
- Use for and while loops

How:
1 - Worth 3 points

- Create and call a function called numericalComputations(), without passing any parameters
- In the function, assign the value 100 to the int maximunNumber
- Print EACH result for EACH of the following computations: maximunNumber \% 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 using printf and $\backslash \mathrm{n}$ maximunNumber - $1,2,3,4,5,6,7,8,9,10$ using printf and \t maximunNumber $+1,2,3,4,5,6,7,8,9,10$ using printf and $\backslash n$ maximunNumber $* 1,2,3,4,5,6,7,8,9,10$ using printf and $\backslash t$ maximunNumber / 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 using printf and \n

This means: compute maximunNumber with 1 , then maximunNumber with 2 , maximunNumber with 3 ... This function will have a total of 50 print/println/printf statements

2 - Worth 2 points

- Create and call a function called sumOfNumbers(), without passing any parameters
- In the function, assign the value 100 to the int $N$.
- Using the sum of numbers formula: (1 + N)*(N/2)
print the total amount of the sum of digits from 1 to 100
To find the sum of all the numbers from 1 to $100(1+2+3+4+\ldots .+100)$,
the formula (1 + N)*(N/2) will do it.
That is: (1 plus $N$ quantity) times (N divided by 2).
3 - Worth 3 points
- Create variables in the main() function and assign the corresponding values for:
- your name
- your mayor
- credits taken
- credits this semester
- this class's name
- Create and call a function called myInfo(...........), passing the above parameters
- In the function print:

Hi my name is .., my major is .., I have completed .. credits, I and taking .. credits, and this class's name is ..

4 - Worth 2 points

- Do the same problem as problem 1 using a for loop and
- Do the same problem as problem 1 using a while loop
- Find the sum of all numbers from 1 to 100 using a for loop

