Checklist - using Pointer

Following requirements for function interface definitions

Requirements

- Make a function called getDouble()
 - Parameter : double *pNumber
 - Change getNum() function to use easily
 - Return : when input value is pointed by parameter : 1, invailed : 0.
- Make a function called calculateStats()
 - Parameters
 - ♦ double d1, d2, d3, d4
 - ◆ double *pAverage : fill with average d1,d2,d3,d4
 - ◆ double *pSum : fill with sum of d1,d2,d3,d4
 - return : none
 - calculate average and sum of the number gotten by user
 - once calculated, average gets put into pointed pAverage, sum as well
 - this function should be 2 lines
- Make a function called calculateArrayStats()
 - Parameters
 - ◆ Double values[]
 - ◆ Int numArray : number of array elements
 - ◆ Double *pSum : pointer to a variable filled with sum of all elements.
 - ◆ Double *pAverage : pointer to a variable filled with average of all elements.
 - Return: none
 - Takes an array of number, given the number of elements as paramter
 - once calculated, average gets put into pointed pAverage, sum as well
- make a function called fillArray()
 - parameters
 - double values[]
 - int numArray : number of array elements
 - ◆ double fillValue : value to put into array elements.
 - Return : none
 - This function fills elements into array
- Main
 - Declare four double variable to get number from user
 - ◆ If floating-point numbers are invalid, quit the program

- Declare double average and sum variable
- Call calculateStats() to pass the six variable as appropriate
- Display the average and sum with comment
- Declate an array of seven doubles
 - ◆ If floating-point numbers are invalid, quit the program
- Call calculateArrayStats() to pass array, average, and sum
- Display average and sum with comment
- Call fillArray() to change all of the array element value to 40
- On a single line, display all elements of the array, separated by ',' do not put , at the end of element
- Return: 0
- Do not use global variables

- Other

- calculateArrayStats(), fillArray(), do not use a fixed size for array
- use best practice with respect to Magic Numbers
- do not creater a pointer to use solely argument → just pass address