Homework 10 ENGR 1181

Problem #1

Part A: The start your script file with the commands:

clc

clear

H=randi([-20 20],1,18)

This command with randi will generate an 18 element row vector with random integers between -20 and 20. Allow the program to show the values of H it has selected. Note that these values will change every time the program is run since it is generating a new set of random numbers for every run.

Part B: Select all the values of H that are greater than zero and store them in an array called H1. (H1 should not have a lot of zero values in it!)

Part C: Sort the values of H1 using the sort command so that they are arranged from lowest to highest.

Part D: Find the mean value of H1.

Part E: Find the two largest values of H1 and have them print (using fprintf) or display command disp().

Problem #2

Find the smallest number that is even, greater than 11900, has a square root greater than 110, divides without a remainder by 17, and divides without a remainder by 29. You will probably need the commands rem and break. Hint: the number is less than 27000.

To get help with rem and break in MATLAB at the prompt in the command window type:

>>help rem

>>help break