Computer architecture I

Homework # 1 programming assignment

Total Grade is 10% of course grade

Due Wednesday 6/3/2024 at 11:30 PM.

Write a SPIM code and execute it on Mars. Define three arrays A,B,C each of size 15 integer elements. Your program reads 15 int values between -99 and 99 any other value should be discarded. Stop reading when 15 values are accepted, store the accepted values in array A. Then Do the following

Store in array B all positive elements in A.
Store in array C all negative elements in A.
The DO the following
Find and Print the count and the content of arrays B and C. (5 pts)
Find the print the average value in array A. (1.5 pts)
 Find and print the largest value in array B.   (1.5 pts)
 Find print the smallest value in array C.   (1.5 pts)
 Print your name followed by the message "Good Bye" (0.5 pts)

Must submit the source code of your program by the due date any late submission will have a penalty.