CSCI 360-1 **Assignment 8 – Internal Subroutines** **Fall 2017**
100 points

This program is a rewrite of your Assignment 7 program but with use of an internal subroutine to process the integers, on at a time, as read from the input records. First, copy your ASSIGN7 PDSE member and name it ASSIGN8.

Note that the output for this assignment should **match** that which you created for Assignment 7.

Internal Subroutine PROCNUM

Inside the read loop, add 1 to the record counter and immediately call an internal subroutine named PROCNUM to process the integer on the input record. Pass the internal subroutine the parameters described below.

Parameters Required for PROCNUM

1) input buffer
2) print line field into which you XDECO the integer
3) print line field into which you move the type of number phrase, i.e., NEGATIVE, POSITIVE, or ZERO.
4) smallest variable
5) largest variable
6) sum of the integers field

Notes

1. ALL processing of the integer must be removed from the main routine (caller) and included in the subroutine PROCNUM.
2. Once again, use extended mnemonics for all branches from this point on.
3. Document your code! You need a doc box at the top with both names as well as adequate line doc.
4. You may use your own data for testing but please be sure to turn in the assignment with the following numbers listed.
5. The only storage required for the subroutine will be an appropriately-sized save area for all of the caller's registers preceded, of course, by an LTORG for the subroutine.
6. DO NOT access any storage in the caller's storage area by name, only via the parameters!
7. Use register 11 to return to the caller.

As before, submit you single .txt file on Blackboard for grading.