COMP.2030 Homework 1 Due 9/18 (Wed) 11:59 PM

Write an MIPS program for the following:

Declare an array A of three integers.

The flow of the main function is as follows.

* ask for each of the three integer values and save input values in successive locations in array A.
* call a function to compute the average of the three values and returns the average. The main function passes the beginning address of the array (A) and the number of elements (3) in two registers of your choice. The return value from the function is also by way of a register.
* print the average value.

Be careful that all memory addresses are in bytes so that addresses of integers are incremented by 4’s.

**What to submit:**

* MIPS Source code for the assignment, including sufficient comments.
* Comments are critically important, and comments will be graded.
* Each function has to be preceded by comments including the name of the function, arguments and their registers, and how the return value is passed.
* Each line of MIPS instruction is typically commented on the right in a short C-like statement, so that comments on the right provide enough info on the flow of the function

**Late submission:**

* Late submissions are penalized according to the policy in the syllabus.