## CSCI 315 Operating Systems Design Activity 9

Work in pairs on this activity. Consider that two threads T1 and T2 have access to a shared variable a., which is initialized with value 0. Imagine that the only modifications to the shared variable will be as follows: T1 will do a+=5 and that T2 will do a+=15. 1) Write MIPS assembly code for thread T1 to do a+=5. 2) Write MIPS assembly code for thread T2 to do a+=13. 3) Assume that you are not told anything about what the threads do before and after their increments to a, which thread executes first, or about the order in which threads will be scheduled. Determine the possible values that variable a will contain after both threads T1 and T2 have finished executing.