

CSE 2312: Computer Organization &
Assembly Language Programming
Summer 2015
Final Exam: Part I

In this assignment, you will complete a partially functional assembly language program (exam_template.s). When complete, the program should print your name and UTA ID number, prompt the user for 10 positive integers, and print some simple statistical results. The result values that should be printed are the sum, minimum, and maximum values of the 10 user inputs.

The provided code template currently prompts for and stores the 10 user values on the stack. The partially implemented `calc_result` procedure currently pops the 10 values from the stack, but no computations are performed. This function should store the sum, minimum, and maximum in R7, R8, and R9, respectively.

All of the printing and user input procedures are provided, as well as the overall main procedure and code flow. You only need to edit the constant name / ID string and the `calc_result` function.

Points will be assigned as follows:

1. Program prints student name and ID number, prompts for 10 values, prints results, and terminates correctly (25 points)
2. Sum result prints correctly in all cases (25 points)
3. Min result prints correctly in all cases (25 points)
4. Max result prints correctly in all cases (25 points)

Submit your solution as a single “.s” file to Blackboard. Name the file “abc1234.s”, where abc1234 is your UTA NetID.

*** Be sure to check <http://github.com/cmcmurrough/teaching/assembly> for useful code snippets ***