CS 203 Lab #8 - Learning To Write More ARM Assembler

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Goals

The purpose of this assignment is to continue learning assembler language programming for the ARM processor. Write the following functions in ARM assembler and evaluate using the ViSual simulator. You can assume that parameters are passed in $r0, $r1, ... and the value returned is in $r12. You can also assume that *caller_saves* so you do not have to save any registers that you use.

Update: The ViSual simulator does not support the *BX* instruction that essentially implements a return from a function. So you should have that as a comment and simulate as far as that and not expect it to return to the calling function.

1. *larger(int x, int y)* - returns the larger of the two ints

2. *sum(int* arr, int size)* - returns the sum of the ints in the array. For this question, you will have to write an additional function that creates the array on the stack and then calls the function sum().