

MIPS Assembly Language Programming
Programming Assignment # 4
100 points

Due: 11:59pm, Nov. 16, 2009

Write a function called *count* in MIPS assembly language that has two arguments. The first is any ASCII character, and the second is a pointer to any null-terminated string. The subroutine returns a count of the total number of times the character appears in the string. You must use your *search* function developed in lab #3 (or a correct version posted on the lab website on Nov. 11) to find the next occurrence of the specified character inside the function *count*. The function should accept strings of up to 255 characters.

Write a main program that calls the function *count* with a character and string pointer to illustrate its correct execution. The code should be written so that both the character and the string are entered from the console with appropriate prompts. The code must follow proper MIPS convention for calling and returning from functions. Remember to properly document your main program and function *count*. Your function *search* should already be properly documented from Lab #3.

Please email your code **as an attachment** to eccs355fall2009@gmail.com by 11:59pm, Monday, November 16. **20 points** will be **deducted** from your grade for a late submission. Students not submitting code by 11:59pm Tuesday, November 17, will receive a **zero** for the lab.