

EEL3801: Computer Organization
Project #2: Part A_1

Purpose of this project is to increase your understanding of data, address, memory contents, and strings. You will be expected to apply selected MIPS assembly language instructions, assembler directives and system calls sufficient enough to handle string manipulation tasks. You are tasked to find the number of selected letters present in a string. Specifically, the number of the occurrences of the letters C, H, A, R, G, E, O and N (upper and lower cases both to be counted) within an input sentence, and then output the result using the format shown below:

Sample Inputs for Part A_1 is:

The Knights field 16 varsity teams (6 men's, 9 women's and one co-ed sport) that have won numerous national and conference titles. The UCF Knights Football team won conference championships in 2007 and 2010, and the Knights women's basketball team won conference titles the 2009 and 2010.

Sample output for Part A_1 is:

C: 9
H: 11
A: 17
R: 6
G: 3
E: 27
O: 16
N: 26

The submitted program shall provide outputs in **exactly the sequence and format shown above**. To receive full credit, no additional superfluous outputs shall occur.