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CSCI-21 Quiz 8 Name Ismael Cortez

Please use pencil and erase mistakes. If you need more room, use the back. Do not include comments. Write a complete MIPS program prompts the user for two integers (in a subroutine – call it twice), calculates the product of the integers (also in a subroutine) and prints the product with simple descriptive text (also in a subroutine). You will have three little subroutines. Use the "simple linkage convention" discussed in class (no stack use, use appropriate registers for arguments and return values). Do not worry about branch delays. Some syscall codes you may need are: print string, code 4 in $v0, string address in $a0; read integer, code 5, value returned in $v0; print integer, code 1, value in $a0; end program, code 10. 10 points

```
        .data
prompt: .asciiz "Please enter an integer value: "
endMsg: .asciiz "Product: "

        .text
        .globl main

main:
        la   $a0, prompt
        jal  getInt
        move $s0, $v0

        la   $a0, prompt
        jal  getInt
        move $a1, $v0

        move $a0, $s0
        jal  product
        move $a1, $v0
        la   $a0, endMsg
        jal  print

        li   $v0, 10
        syscall
```

arg goes into $a0 ?!

2 args?

do

ok. I guess

```
getInt:
    li   $v0, 4
    syscall

    li  $v0, 5
    syscall
    jr      $ra

product:
    multu   $a0, $a1
    mflo    $v0
    jr      $ra

print:
    li  $v0, 4
    syscall

    li $v0, 1
    move $a0, $a1
    syscall

    jr   $ra
```