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#             Lecture 13 Demo Program 1:  "L Finder"
# This program counts the number of l's in "Hello, world!\n"
# The number of l's is printed on the console.

                .text
main:           la $t0,str      # put starting address of "hello world" into t0
loop:           lb $t1,0($t0)   # load byte in phrase
                beqz $t1,over   # if character null, we are finished
                beq $t1,0x6c,cnt  # if the character is an l, go to count
incr:           addi $t0,$t0,1  # add 1 to current byte address
                j loop          # get next byte to compare
cnt:            addi $t2,$t2,1  # add one to count of letter l's in phrase
                j incr          # go back into loop
over:           la $a0,rept
                li $v0,4        # Ouput report phrase
                syscall
                move $a0,$t2    # move total l-count to $a0 for output
                li $v0,1
                syscall         # output letter total
                li $v0,10
                syscall         # end program

                .data
str:            .asciiz "Hello, world!\n"
rept:           .asciiz "The total count of the letter l is "
```