There is a string declared in the data section.

Write an assembly program that counts the number of spaces in the string and stores the number at symbolic address **spaceNum**. Recall that the byte that represents a space is 0x20. Submit one .s or .asm file.

The partial code is given. Finish the program.

```
        .text
        .globl main
main:
        li $s0, 0     #sum = 0
        li $s1, 0x20 #$s1 holds the space character
        la $t0, str  #$t0 holds the address of the first character
loop:
        lbu $t1, 0($t0)  #$t1 holds the first character
        nop
        beq $t1, $0, endlp
        nop
```

```
endlp:
        sw $s0, spaceNum    #store the sum in spaceNum

        li $v0, 10         #exit the program
        syscall

        .data
spaceNum: .word 0
str: .asciiz "Is  this a dagger which I see before me?"
```