

Ngoc Duong

c. How many registers do you need to implement this program?

The program uses 7 registers total: 1 register for system calls (\$v0), 1 register to support printing (\$a0), 1 register to support comparing (\$t0) and four registers to store inputs and output (\$s0,\$s1,\$s2,\$s3).

d. What system calls do you need to write this program?

```
li $v0, 4      #print out a string
li $v0, 5      #read an int from keyboard
li $v0, 1      #print out an int
li $v0, 10     #terminate the program
```