#Christopher Rabb

#Salam Salloum

.data

Prompt: .asciiz "\n Enter an integer: "

Result: .asciiz "\n The sum of all positive integers is: "

.globl main

.text

main:

li $t0, 10 #Keeps track of the number of integers entered

li $t1, 0 #Setting the sum = 0

loopR:

li $v0, 4 #Function for printing a string

la $a0, Prompt

syscall

li $v0, 5 #Function for reading an integer

syscall

addi $t0, $t0, -1 #Decrementing the integer count

bltz $v0, loopR #If the integer entered is not positive, go back to the top of the loop

add $t1, $v0, $t1 #Add the integer to the sum

bgtz $t0, loopR #Loop until there are zero integers left

li $v0, 4

la $a0, Result #Print result string

syscall

li $v0, 1 #function for printing an integer

move $a0, $t1 #Moves the address of $t1 into $a0

syscall

li $v0, 10 #Function to exit program

syscall

#Christopher Rabb

#Salam Salloum

.data

Prompt: .asciiz "\n Enter an integer: "

Result: .asciiz "\n The sum of all even integers is: "

.globl main

.text

main:

li $t0, 10 #Keep track of integers entered

li $t1, 0 #Sum = 0

li $t2, 0 #Remainder variable

loopR:

beqz $t0, End #When $t0 = 0, go to End

li $v0, 4 #Function for printing string

la $a0, Prompt

syscall

li $v0, 5 #function for reading int

syscall

addi $t0, $t0, -1 #Decrement int count

rem $t2, $v0, 2 #Divides integer entered by 2 for the remainder

bnez $t2, loopR #If the remainder != 0, back to the top of the loop

add $t1, $v0, $t1 #Add the int to the sum

bgtz $t0, loopR #If $t0 > 0, back to the top of the loop

End:

li $v0, 4

la $a0, Result

syscall

li $v0, 1

move $a0, $t1 #Move the address of $t1 into $a0

syscall

li $v0, 10 #Terminate program

syscall