

`.data`

Prompt: `.ascii`z "\n Enter N "

Prompt2: `.ascii`z "\n Enter integer "

`.text`

main: `li $v0, 4`

`la $a0, Prompt`

`syscall`

`li $v0, 5`

`syscall`

`move $t1, $v0` #`$t1` contains N

`li $t4, 0` #`t4` is counter

again: `li $v0, 4`

`la $a0, Prompt2`

`syscall`

`li $v0, 5`

`syscall`

`move $t5, $v0` #`$t5` contains int

`beq $t5, 0, zerof`

`bgtz $t5, posf`

`bltz $t5, negf`

zerof: `li $a0, '\n'`

`li $v0, 11`

`syscall`

`addi $t4, $t4, 1`

`blt $t4, $t1, again`

`beq $t4, $t1, end`

posf: `li $a0, '*'`

`li $v0, 11`

`syscall`

`addi $t5, $t5, -1`

`bgtz $t5, posf`

`li $t5, 0`

`addi $t4, $t4, 1`

`blt $t4, $t1, again`

`beq $t4, $t1, end`

negf: `li $a0, '-'`

`li $v0, 11`

`syscall`

`addi $t4, $t4, 1`

`blt $t4, $t1, again`

`beq $t4, $t1, end`

end: `li $v0, 10`

`syscall`



Console

Enter N 5

Enter integer 3

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Enter integer 0

Enter integer 6

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Enter integer -7

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Enter integer 2

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.data
    Prompt: .ascii "\n Enter N "
    Prompt2: .ascii "\n Enter integer "
    Result1: .ascii "\n Positive Sum is: "
    Result2: .ascii "\n Negative Sum is: "

.text
main: li $v0, 4
    la $a0, Prompt
    syscall
    li $v0, 5
    syscall
    move $t1, $v0 # $t1 contains N
    li $t2, 0 # $t2 is pos sum
    li $t3, 0 # $t3 is neg sum
    li $t4, 0 # $t4 is counter
again: li $v0, 4
    la $a0, Prompt2
    syscall
    li $v0, 5
    syscall
    move $t5, $v0 # $t5 contains int
    bgtz $t5, possum
    bltz $t5, negsum
possum: add $t2, $t2, $t5
    li $t5, 0
    addi $t4, $t4, 1
    blt $t4, $t1, again
negsum: add $t3, $t3, $t5
    addi $t4, $t4, 1
    blt $t4, $t1, again

li $v0, 4
la $a0, Result1
syscall
move $a0, $t2
li $v0, 1
syscall
la $a0, Result2
li $v0, 4
syscall
move $a0, $t3
li $v0, 1
syscall
li $v0, 10
syscall

```



Console

Enter N 5

Enter integer 3

Enter integer -1

Enter integer 6

Enter integer -7

Enter integer 2

Positive Sum is: 11

Negative Sum is: -8