.data

var1: .word 10 -20 30 40 50 -1 2 3

var4: .word 0x9

var3: .asciiz "hello"

.text

main:

lw x10 var4

addi x12 x0 1

jal x1 fib

beq x0 x0 ex

fib:

addi x2 x2 -12

sw x10 4(x2)

sw x1 0(x2)

bne x10 x0 l1

addi x11 x0 0

addi x2 x2 12

jalr x0 x1 0

l1:

bne x12 x10 l2

addi x11 x0 1

addi x2 x2 12

jalr x0 x1 0

l2:

addi x10 x10 -1

jal x1 fib

add x13 x11 x0

sw x13 8(x2)

addi x10 x10 -1

jal x1 fib

lw x13 8(x2)

add x11 x11 x13

lw x1 0(x2)

lw x10 4(x2)

addi x2 x2 12

jalr x0 x1 0

ex: