.data

var1:.word 3

.text

lw x10 var1

addi x11 x11 1

jal x1 fact

j exit

fact:

addi sp sp -8

sw x1 4(sp)

sw x10 0(sp)

addi x5 x10 -1

bge x5 x0 else

add x11 x11 x0

addi sp sp 8

jalr x0 x1 0

else:

addi x10 x10 -1

jal x1 fact

addi x7 x11 0

lw x10 0(sp)

lw x1 4(sp)

addi sp sp 8

mul x11 x7 x10

jalr x0 x1 0

exit: