

solution:

mov r1,2

for x:

mov r2,1

mov r4,0

for y:

add r3,r2,1

mul r5,r2,r2

mul r5,r5,r2

for z:

mul r6,r3,r3

mul r6,r6,r3

add r7,r5,r6

cmp r7,r1

beq.meta2

met3:

add r3,r3,1

mul r6,r3,r3

cmp r1,r6

bgt.for z

add r2,r2,1

mul r5,r2,r3r2

mul r5,r5,r2

cmp r1,r5

bgt.for y

cmp r4,2

beq .met1

add r1,r1,1

b. for x

• met1

exit

• met2

add r4,r4,1

b. met3

Final answer will be stored in register r1