

mov r0, 1

mov r1, 0

.loop :

mov r3, 0

mov r4, 1

.loop2 :

add r5, r4, 1

.loop3 :

mul r6, r4, r4

mul r6, r6, r4

mul r7, r5, r5

mul r7, r7, r5

add r8, r6, r7

cmp r8, r0

beg. Collab

.Continue1

Cmp

bgt .loop3

cmp r0, r4

bgt .loop2

cmp r3, 2

beg. fin

.Continue2

cmpl, r.

bgt .loop

.Collab :

add r3, r3, 1

b. Continue1

.fir : add r1, r1, 1

b. Continue3