Assignment 2

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Enroll. No.: 18114063

Batch: O3

mov r0 1

mov r1 0

mov r2 -1

mov r6 0

.loopI

add r0 r0 1

mov r6 0

mov r1 0

mov r2 -1

b.loopJ

.loopJ

add r1 r1 1

mov r3 r1

mul r3 r3 r3

mul r3 r3 r1

cmp r3 r0

bgt .loopI

mov r2 -1

b .loopK

.loopK

add r2 r2 1

mov r4 r2

mul r4 r4 r4

mul r4 r4 r2

add r5 r3 r4

cmp r5 r0

bgt .loopJ

beq .incCount

cmp r2 r1

beq .loopJ

b .loopK

.incCount

add r6 r6 1

cmp r6 2

bgt .exit

beq .exit

b .loopJ

.exit

The final Ramanujan No. Will be stored into r0.