Assignment 2
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Batch: O1
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

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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.