

Assignment-2

mov r0, 1

mov r1, 0

mov r2, 0

mov r10, 0

loopa:

mov r1, r1+1

mul r3, r1, r1 ; $r3 = r1^2$

mul r3, r3, r1 # cube of r1

cmp r3, r0

mov r2, r1

blt r1, loopb

mov r0, r0+1

mov r1, 0

mov r2, 0

mov r10, 0

mul r6, r0, r0

mul r6, r6, r0

• loopa

loopb:

mov r2, r2+1

mul r4, r2, r2

mul r4, r4, r2

add r5, r3, r4

cmp r5, r6

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beg, .increment_r10

cmp r10, 2

beg, .end

cmp r4, r0

bit .loopb

.loopa

increment_r10:

add r10, r10, #1;

end:

exit

Final answer \rightarrow r10