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CSE O2

## **Assignment 2**

## Sol;

mov r0, 1

mov r1, 0

mov r2, 0

mov r7, 0

loop1:

mov r1, r1+1

mul r3, r1, r1

mul r3, r3, r1

cmp r3, r0

mov r2, r1

blt .loop2

mov r0, r0+1

mov r1, 0

mov r2, 0

mov r7, 0

mul r6, r0, r0

mul r6, r6, r0

.loop1

loop2:

mov r2, r2+1

mul r4, r2, r2

mul r4, r4, r2

add r5, r3, r4

cmp r5, r6

beq .add\_r7\_1

cmp r7, 2

beq .print\_r0

cmp r4, r0

blt .loop2

.loop1

add\_r7\_1:

add r7, r7+1;

Final output is stored in r0