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**O2(CSE)**

*SimpleRisc Assembly Program*

mov R0 1

mov R1 0

mov R2 0

mov R3 0

while1:

add R1 R1 1

mul R4 R1 R1

mul R4 R4 R1

cmp R4 R0

mov R2 R1

blt .while2

add R0 R0 1

mov R1 0

mov R2 0

mov R3 0

mul R5 R0 R0

mul R5 R5 R0

.while1

while2:

add R2 R2 1

mul R6 R2 R2

mul R6 R6 R2

add R7 R4 R6

cmp R7 R5

beq .add\_R3\_1

cmp R3 2

beq .print\_R0

cmp R6 R0

blt .while2

.while1

add\_R3\_1:

add R3 R3+1;