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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;