Bhupathi Rahul
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Soln:-

```
        mov    r1,0
        mov    r2,1
        mov    r3,0
        mov    r4,0
for x:
        mul    r5,r2,r2
        mul    r6, r5, r2
        mov    r3,0
        cmp    r4, 2
        beq    ret
        add    r2, r2, 1
        mov    r4,0
for y:
        add    r1, r3, 1
        cmp    r3, r2
        beq    for x
        add    r3, r3, 1
for z:
        mul    r5, r1, r1
        mul    r7, r5, r1
        mul    r8, r3, r3
        mul    r9, r8, r3
        add    r10, r7, r9
        cmp    r6, r10
        beq    . bar.
bar:
        add    r4, r4, 1
        add    r1, r1, 1
        cmp    r1, r2
        beq    for y
        beq    for z
```