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Problem: Write a SimpleRisc assembly program to find the Ramanujan number, the smallest number that is a sum of two cubes in two different ways.

```
note: r0 will store the ramanujan number
mov r0 1
mov r1 0
mov r2 -1
mov r6 0
. loopA
    add r0 r0 1
    mov r6 0
    mov r1 0
    mov r2 -1
    b. loopB
. loopB
    add r1 r1 1
```

. loopC

. increaseCounter

.exit