Assignment 2

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```
18114020
                     01
mv r0 1
mv r1 0
mv r2 -1
mv r6 0
.loopI
       add r0 r0 1
       mv r6 0
       mv r1 0
       mv r2 -1
       b.loopJ
.loopJ
       add r1 r1 1
       mv r3 r1
       mul r3 r3 r3
       mul r3 r3 r1
       cmp r3 r0
      bgt .loopI
       mv r2 -1
       b .loopK
.loopK
```

add r2 r2 1

```
mv r4 r2
       mul r4 r4 r4
       mul r4 r4 r2
       add r5 r3 r4
       cmp r5 r0
       bgt .loopJ
       beq.inc Count\\
       cmp r2 r1
       beq .loopJ
       b .loopK
.incCount
       add r6 r6 1
       cmp r6 2
       bgt .exit
       beq .exit
       b .loopJ
.exit
       ret
```

The Ramanujan number is stored in r0.