Assignment 2

Name: Ashish Ucheniya

Enroll. No.: 18114014

Batch: 01

```
mov r0 1
mov r1 0
mov r2 -1
mov r6 0
.loopI
      add r0 r0 1
      mov r6 0
      mov r1 0
      mov r2 -1
      b.loopJ
.loopJ
      add r1 r1 1
      mov r3 r1
      mul r3 r3 r3
      mul r3 r3 r1
     cmp r3 r0
      bgt .loopl
      mov r2 -1
      b .loopK
.loopK
```

add r2 r2 1

```
mov r4 r2
     mul r4 r4 r4
     mul r4 r4 r2
     add r5 r3 r4
     cmp r5 r0
     bgt .loopJ
     beq .incCount
     cmp r2 r1
     beq .loopJ
     b .loopK
.incCount
     add r6 r6 1
     cmp r6 2
     bgt .exit
     beq .exit
     b .loopJ
.exit
```

The final Ramanujan No. Will be stored into r0.