ASSIGNMENT-2

mov r0,1

mov r1,0

. loop:

    mov r3,0

    mov r4,1

     . loop2:

       Add r5, r4,1

       . loop3:

         mul r6,r4,r4

         mul   r6, r6, r4

         mul   r7, r5, r5

         mul   r7, r7, r5

         Add   r8, r6, r7.

         cmp   r8, r0

         biq.collab

         .continue1

         cmp   r0,r5

        bgt.loop3

```
        cmp r0,r4
    bgt.loop2
cmp r3,2
biq.fin
.continue2
cmp 1,r1
bgt.loop
.collab:
add  r3,r3,1
b.continue1
.fin: add r1,r1,1
b. continue 2
```