```
mov count 0
mov i 1
.loop:
    mov j i
    mov k i
    .loop 1
        .loop 2
            mul r1 j j
            mul r2 r1 j
            mul r3 k k
            mul r4 r3 k
            mov r5 0
            add r5 r2 r4
            cmp r5 i
            beq .countIncrease
            sub k k 1
            cmp k 0
            bgt .loop2
        sub j j 0
        bgt .loop 1
    cmp count 2
    bgt .exit
    add i i 1
    .countIncrease:
        add count count 1
    .exit:
        exit
    mov count 0
```