**CODE FOR ASSIGNMENT 2**

mov cnt 0

mov i1

.loop:

mov j i

mov k i

.loop1:

.loop2:

mul r1 j j

mul r2 r1 j

mul r3 k k

mul r4 r3 k

mov r5 0

add r6 r2 r4

cmp r5 i

beq.countIncrease

sub k k 1

cmp k 0

bgt.loop2

sub j j 0

bgt.loop1

cmp cnt 0

bgt.exit

add[i]

.cnt Increase:

add cnt cnt 1

.exit:

exit