NAME: SANJEEV KUMAR NIRMAL
ENROLLMENT NUMBER: 18116069

Sanjeev Kumar Nirmal   ECE '06'

18116069

```
mov   count 0
mov a1
.loop 1:
  mov  b a
  mov  c a
.loop 2:
 .loop 3:
  mul  r8 b b
  mul  r7 r8 b
  mul  r6 c c
  mul  r5 r6  c
  mov   r4 0
  add    r4 r r5
  cmp   r4 a
  beq .ci
  sub  c c1
  bgt. loop 3
  sub b b 0
  bgt. loop 2
  cmp count 2
  bgt .exit
  add a a 1
  .ci :
  add  count count 1
  .exit :
  exit
  mov count 0
```