

```

> #  $x^2 + y^2 + z^2 = 2019$  by  $H \cdot E$  2019 - 11 - 5 :
>  $c := 0$  : for  $x$  from 1 to 200 do  $xp := x$  : for  $y$  from  $x$  to 200 do  $yp := y$  : for  $z$  from  $y$  to 200
do  $zp := z$  : if  $xp^2 + yp^2 + zp^2 = 2019$  then  $c := c + 1$  : print(  $xp[. ]^2 + yp[. ]^2$ 
+  $zp[. ]^2 = 2019$  . . . No( $c$ ) ) fi:od:od:od:
     $1^2 + 13^2 + 43^2 = 2019$  . . . No(1)
     $5^2 + 25^2 + 37^2 = 2019$  . . . No(2)
     $7^2 + 11^2 + 43^2 = 2019$  . . . No(3)
     $7^2 + 17^2 + 41^2 = 2019$  . . . No(4)
     $11^2 + 23^2 + 37^2 = 2019$  . . . No(5)
    2  $13^2 + 41^2 = 2019$  . . . No(6)
     $13^2 + 25^2 + 35^2 = 2019$  . . . No(7)
     $17^2 + 19^2 + 37^2 = 2019$  . . . No(8)
    2  $23^2 + 31^2 = 2019$  . . . No(9)

```

(1)