```
> # P=x^2 + y^2 + z^2 by H・E'20 − 10 − 2 :
> for e from 2 to 5 do print( ) :
    print(1000 番目までの素数の{e}乗数分解　{100} 個毎に{10} 個) : print( ) : c :=
    0 : tc := 0 :for h from 1 to 1000 do P := ithprime(h) : c := 0 :for x from 2 to 100 do
    for y from x + 1 to 100 do for z from y + 1 to 100 do if P = x^e + y^e + z^e then c := c + 1 :
    tc := tc + 1 : if tc mod 100 ≤ 10 then print(P[h th p][tc] = [x]^e + [y]^e + [z]^e) fi fi:if c
     = 1 then break if :od: if c = 1 then break if :od:if c = 1 then break if :od:od:od:
```

1000 番目までの素数の {2} 乗数分解 {100} 個毎に {10} 個

$$(29_{10\,th\,p})_{1} = [2]^2 + [3]^2 + [4]^2$$

$$(61_{18\,th\,p})_{2} = [3]^2 + [4]^2 + [6]^2$$

$$(83_{23\,th\,p})_{3} = [3]^2 + [5]^2 + [7]^2$$

$$(89_{24\,th\,p})_{4} = [2]^2 + [6]^2 + [7]^2$$

$$(101_{26\,th\,p})_{5} = [2]^2 + [4]^2 + [9]^2$$

$$(109_{29\,th\,p})_{6} = [3]^2 + [6]^2 + [8]^2$$

$$(113_{30\,th\,p})_{7} = [2]^2 + [3]^2 + [10]^2$$

$$(139_{34\,th\,p})_{8} = [3]^2 + [7]^2 + [9]^2$$

$$(149_{35\,th\,p})_{9} = [2]^2 + [8]^2 + [9]^2$$

$$(157_{37\,th\,p})_{10} = [2]^2 + [3]^2 + [12]^2$$

$$(947_{161\,th\,p})_{100} = [5]^2 + [9]^2 + [29]^2$$

$$(953_{162\,th\,p})_{101} = [2]^2 + [7]^2 + [30]^2$$

$$(971_{164\,th\,p})_{102} = [3]^2 + [11]^2 + [29]^2$$

$$(977_{165\,th\,p})_{103} = [6]^2 + [10]^2 + [29]^2$$

$$(997_{168\,th\,p})_{104} = [4]^2 + [9]^2 + [30]^2$$

$$(1009_{169\,th\,p})_{105} = [3]^2 + [10]^2 + [30]^2$$

$$(1013_{170\,th\,p})_{106} = [2]^2 + [15]^2 + [28]^2$$

$$(1019_{171\,th\,p})_{107} = [3]^2 + [7]^2 + [31]^2$$

$$(1021_{172\,th\,p})_{108} = [2]^2 + [21]^2 + [24]^2$$

$$(1033_{174\,th\,p})_{109} = [4]^2 + [21]^2 + [24]^2$$

$$(1049_{176\,th\,p})_{110} = [3]^2 + [4]^2 + [32]^2$$

$$\left(1973_{298\,th\,p}\right)_{200} = [6]^2 + [16]^2 + [41]^2$$

$$\left(1979_{299\,th\,p}\right)_{201} = [3]^2 + [11]^2 + [43]^2$$

$$\left(1987_{300\,th\,p}\right)_{202} = [5]^2 + [21]^2 + [39]^2$$

$$\left(1993_{301\,th\,p}\right)_{203} = [2]^2 + [15]^2 + [42]^2$$

$$\left(1997_{302\,th\,p}\right)_{204} = [2]^2 + [12]^2 + [43]^2$$

$$\left(2003_{304\,th\,p}\right)_{205} = [3]^2 + [25]^2 + [37]^2$$

$$\left(2011_{305\,th\,p}\right)_{206} = [7]^2 + [21]^2 + [39]^2$$

$$\left(2017_{306\,th\,p}\right)_{207} = [12]^2 + [28]^2 + [33]^2$$

$$\left(2027_{307\,th\,p}\right)_{208} = [3]^2 + [13]^2 + [43]^2$$

$$\left(2029_{308\,th\,p}\right)_{209} = [2]^2 + [27]^2 + [36]^2$$

$$\left(2053_{310\,th\,p}\right)_{210} = [6]^2 + [9]^2 + [44]^2$$

$$\left(2971_{429\,th\,p}\right)_{300} = [3]^2 + [19]^2 + [51]^2$$

$$\left(3001_{431\,th\,p}\right)_{301} = [2]^2 + [9]^2 + [54]^2$$

$$\left(3011_{432\,th\,p}\right)_{302} = [5]^2 + [31]^2 + [45]^2$$

$$\left(3019_{433\,th\,p}\right)_{303} = [9]^2 + [27]^2 + [47]^2$$

$$\left(3037_{435\,th\,p}\right)_{304} = [2]^2 + [27]^2 + [48]^2$$

$$\left(3041_{436\,th\,p}\right)_{305} = [2]^2 + [11]^2 + [54]^2$$

$$\left(3049_{437\,th\,p}\right)_{306} = [4]^2 + [27]^2 + [48]^2$$

$$\left(3061_{438\,th\,p}\right)_{307} = [6]^2 + [33]^2 + [44]^2$$

$$\left(3067_{439\,th\,p}\right)_{308} = [5]^2 + [21]^2 + [51]^2$$

$$\left(3083_{441\,th\,p}\right)_{309} = [3]^2 + [7]^2 + [55]^2$$

$$\left(3089_{442\,th\,p}\right)_{310} = [2]^2 + [13]^2 + [54]^2$$

$$\left(4073_{561\,th\,p}\right)_{400} = [2]^2 + [10]^2 + [63]^2$$

$$\left(4091_{563\,th\,p}\right)_{401} = [3]^2 + [19]^2 + [61]^2$$

$$\left(4093_{564\,th\,p}\right)_{402} = [3]^2 + [22]^2 + [60]^2$$

$$\left(4099_{565\,th\,p}\right)_{403} = [3]^2 + [11]^2 + [63]^2$$

$$\left(4129_{568\,th\,p}\right)_{404} = [4]^2 + [12]^2 + [63]^2$$

$$(4133_{569\,th\,p})_{405} = [2]^2 + [23]^2 + [60]^2$$
$$(4139_{570\,th\,p})_{406} = [5]^2 + [33]^2 + [55]^2$$
$$(4153_{571\,th\,p})_{407} = [2]^2 + [30]^2 + [57]^2$$
$$(4157_{572\,th\,p})_{408} = [2]^2 + [43]^2 + [48]^2$$
$$(4177_{574\,th\,p})_{409} = [3]^2 + [18]^2 + [62]^2$$
$$(4201_{575\,th\,p})_{410} = [5]^2 + [24]^2 + [60]^2$$
$$(5261_{698\,th\,p})_{500} = [3]^2 + [34]^2 + [64]^2$$
$$(5273_{699\,th\,p})_{501} = [5]^2 + [8]^2 + [72]^2$$
$$(5281_{701\,th\,p})_{502} = [4]^2 + [9]^2 + [72]^2$$
$$(5297_{702\,th\,p})_{503} = [3]^2 + [38]^2 + [62]^2$$
$$(5309_{704\,th\,p})_{504} = [2]^2 + [11]^2 + [72]^2$$
$$(5323_{705\,th\,p})_{505} = [3]^2 + [33]^2 + [65]^2$$
$$(5333_{706\,th\,p})_{506} = [2]^2 + [48]^2 + [55]^2$$
$$(5347_{707\,th\,p})_{507} = [3]^2 + [37]^2 + [63]^2$$
$$(5381_{709\,th\,p})_{508} = [4]^2 + [6]^2 + [73]^2$$
$$(5387_{710\,th\,p})_{509} = [3]^2 + [7]^2 + [73]^2$$
$$(5393_{711\,th\,p})_{510} = [2]^2 + [30]^2 + [67]^2$$
$$(6427_{836\,th\,p})_{600} = [3]^2 + [33]^2 + [73]^2$$
$$(6449_{837\,th\,p})_{601} = [2]^2 + [19]^2 + [78]^2$$
$$(6451_{838\,th\,p})_{602} = [3]^2 + [41]^2 + [69]^2$$
$$(6469_{839\,th\,p})_{603} = [9]^2 + [42]^2 + [68]^2$$
$$(6473_{840\,th\,p})_{604} = [2]^2 + [50]^2 + [63]^2$$
$$(6481_{841\,th\,p})_{605} = [3]^2 + [46]^2 + [66]^2$$
$$(6491_{842\,th\,p})_{606} = [5]^2 + [15]^2 + [79]^2$$
$$(6521_{843\,th\,p})_{607} = [4]^2 + [24]^2 + [77]^2$$
$$(6529_{844\,th\,p})_{608} = [2]^2 + [21]^2 + [78]^2$$
$$(6547_{845\,th\,p})_{609} = [9]^2 + [15]^2 + [79]^2$$

$$\left(6553_{847\,th\,p}\right)_{610} = [3]^2 + [12]^2 + [80]^2$$

$$\left(7577_{962\,th\,p}\right)_{700} = [4]^2 + [44]^2 + [75]^2$$

$$\left(7589_{964\,th\,p}\right)_{701} = [2]^2 + [4]^2 + [87]^2$$

$$\left(7603_{966\,th\,p}\right)_{702} = [3]^2 + [5]^2 + [87]^2$$

$$\left(7621_{968\,th\,p}\right)_{703} = [4]^2 + [6]^2 + [87]^2$$

$$\left(7643_{970\,th\,p}\right)_{704} = [5]^2 + [7]^2 + [87]^2$$

$$\left(7649_{971\,th\,p}\right)_{705} = [4]^2 + [8]^2 + [87]^2$$

$$\left(7669_{972\,th\,p}\right)_{706} = [6]^2 + [8]^2 + [87]^2$$

$$\left(7673_{973\,th\,p}\right)_{707} = [2]^2 + [10]^2 + [87]^2$$

$$\left(7681_{974\,th\,p}\right)_{708} = [2]^2 + [54]^2 + [69]^2$$

$$\left(7691_{976\,th\,p}\right)_{709} = [5]^2 + [21]^2 + [85]^2$$

$$\left(7699_{977\,th\,p}\right)_{710} = [3]^2 + [11]^2 + [87]^2$$

1000 *番目までの素数の* {3} *乗数分解* {100} *個毎に* {10} *個*

$$\left(197_{45\,th\,p}\right)_{1} = [2]^3 + [4]^3 + [5]^3$$

$$\left(251_{54\,th\,p}\right)_{2} = [2]^3 + [3]^3 + [6]^3$$

$$\left(307_{63\,th\,p}\right)_{3} = [3]^3 + [4]^3 + [6]^3$$

$$\left(349_{70\,th\,p}\right)_{4} = [2]^3 + [5]^3 + [6]^3$$

$$\left(547_{101\,th\,p}\right)_{5} = [2]^3 + [3]^3 + [8]^3$$

$$\left(701_{126\,th\,p}\right)_{6} = [4]^3 + [5]^3 + [8]^3$$

$$\left(853_{147\,th\,p}\right)_{7} = [5]^3 + [6]^3 + [8]^3$$

$$\left(863_{150\,th\,p}\right)_{8} = [2]^3 + [7]^3 + [8]^3$$

$$\left(881_{152\,th\,p}\right)_{9} = [3]^3 + [5]^3 + [9]^3$$

$$\left(919_{157\,th\,p}\right)_{10} = [4]^3 + [7]^3 + [8]^3$$

1000 *番目までの素数の* {4} *乗数分解* {100} *個毎に* {10} *個*

$$\left(353_{71\,th\,p}\right)_{1} = [2]^4 + [3]^4 + [4]^4$$

$$\left(6833_{880\,th\,p}\right)_2 = [2]^4 + [4]^4 + [9]^4$$

$$\left(7793_{987\,th\,p}\right)_3 = [6]^4 + [7]^4 + [8]^4$$

$$\left(7873_{994\,th\,p}\right)_4 = [2]^4 + [6]^4 + [9]^4$$

1000 *番目までの素数の* {5} *乗数分解* {100} *個毎に* {10} *個*

(1)

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