

> #Ph·e=Px+Py+Pz by H.E ' 20-10-2:

> tc := 0 :for h from 1 to 8 do for e from 1 to 5 do P := e·ithprime(h) : c := 0 :for x from 1 to 50 do for y from x + 1 to 50 do for z from y + 1 to 50 do if P = ithprime(x) + ithprime(y) + ithprime(z) then c := c + 1 : tc := tc + 1 : print( {e} ·ithprime(h) [ {h} thp ] [ tc ] = ithprime(x) [ {x} th p ] + ithprime(y) [ {y} th p ] + ithprime(z) [ {z} th p ] ) fi:if c = 1 then break if:od:if c = 1 then break if :od: if c = 1 then break if:od:od:od:

$$\{5\} (2_{\{1\} thp})_1 = 2_{\{1\} thp} + 3_{\{2\} thp} + 5_{\{3\} thp}$$

$$\{4\} (3_{\{2\} thp})_2 = 2_{\{1\} thp} + 3_{\{2\} thp} + 7_{\{4\} thp}$$

$$\{5\} (3_{\{2\} thp})_3 = 3_{\{2\} thp} + 5_{\{3\} thp} + 7_{\{4\} thp}$$

$$\{2\} (5_{\{3\} thp})_4 = 2_{\{1\} thp} + 3_{\{2\} thp} + 5_{\{3\} thp}$$

$$\{3\} (5_{\{3\} thp})_5 = 3_{\{2\} thp} + 5_{\{3\} thp} + 7_{\{4\} thp}$$

$$\{4\} (5_{\{3\} thp})_6 = 2_{\{1\} thp} + 5_{\{3\} thp} + 13_{\{6\} thp}$$

$$\{5\} (5_{\{3\} thp})_7 = 3_{\{2\} thp} + 5_{\{3\} thp} + 17_{\{7\} thp}$$

$$\{2\} (7_{\{4\} thp})_8 = 2_{\{1\} thp} + 5_{\{3\} thp} + 7_{\{4\} thp}$$

$$\{3\} (7_{\{4\} thp})_9 = 3_{\{2\} thp} + 5_{\{3\} thp} + 13_{\{6\} thp}$$

$$\{4\} (7_{\{4\} thp})_{10} = 2_{\{1\} thp} + 3_{\{2\} thp} + 23_{\{9\} thp}$$

$$\{5\} (7_{\{4\} thp})_{11} = 3_{\{2\} thp} + 13_{\{6\} thp} + 19_{\{8\} thp}$$

$$\{2\} (11_{\{5\} thp})_{12} = 2_{\{1\} thp} + 3_{\{2\} thp} + 17_{\{7\} thp}$$

$$\{3\} (11_{\{5\} thp})_{13} = 3_{\{2\} thp} + 7_{\{4\} thp} + 23_{\{9\} thp}$$

$$\{4\} (11_{\{5\} thp})_{14} = 2_{\{1\} thp} + 5_{\{3\} thp} + 37_{\{12\} thp}$$

$$\{5\} (11_{\{5\} thp})_{15} = 3_{\{2\} thp} + 5_{\{3\} thp} + 47_{\{15\} thp}$$

$$\{2\} (13_{\{6\} thp})_{16} = 2_{\{1\} thp} + 5_{\{3\} thp} + 19_{\{8\} thp}$$

$$\{3\} (13_{\{6\} thp})_{17} = 3_{\{2\} thp} + 5_{\{3\} thp} + 31_{\{11\} thp}$$

$$\{4\} (13_{\{6\} thp})_{18} = 2_{\{1\} thp} + 3_{\{2\} thp} + 47_{\{15\} thp}$$

$$\{5\} (13_{\{6\} thp})_{19} = 3_{\{2\} thp} + 19_{\{8\} thp} + 43_{\{14\} thp}$$

$$\{2\} (17_{\{7\} thp})_{20} = 2_{\{1\} thp} + 3_{\{2\} thp} + 29_{\{10\} thp}$$

$$\{3\} (17_{\{7\} thp})_{21} = 3_{\{2\} thp} + 5_{\{3\} thp} + 43_{\{14\} thp}$$

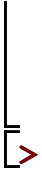
$$\{4\} (17_{\{7\} thp})_{22} = 2_{\{1\} thp} + 5_{\{3\} thp} + 61_{\{18\} thp}$$

$$\{5\} (17_{\{7\} thp})_{23} = 3_{\{2\} thp} + 11_{\{5\} thp} + 71_{\{20\} thp}$$

$$\{1\} (19_{\{8\} thp})_{24} = 3_{\{2\} thp} + 5_{\{3\} thp} + 11_{\{5\} thp}$$

$$\{2\} (19_{\{8\} thp})_{25} = 2_{\{1\} thp} + 5_{\{3\} thp} + 31_{\{11\} thp}$$

$$\{3\} (19_{\{8\} thp})_{26} = 3_{\{2\} thp} + 7_{\{4\} thp} + 47_{\{15\} thp}$$



$$\{4\} (19_{\{8\} thp})_{27} = 2_{\{1\} thp} + 3_{\{2\} thp} + 71_{\{20\} thp}$$

$$\{5\} (19_{\{8\} thp})_{28} = 3_{\{2\} thp} + 13_{\{6\} thp} + 79_{\{22\} thp}$$

**(1)**