

> # Prime + Nummini^{m(1~5)} = prime by H•E 2019 – 6 – 9 :

> c := 0 :for h from 1 to 10000 do it := ithprime(h) :for n from 1 to 100 do if isprime(it + n⁶) and isprime(it + n⁵) and isprime(it + n⁴) and isprime(it + n³) and isprime(it + n²) and isprime(it + n) then c := c + 1 : print({[n]^M, M= {1, 2, 3, 4, 5, 6}} + it[h] = 6 Prime[c]) :break if:od:od:

$$\{[1]^M, M= \{1, 2, 3, 4, 5, 6\}\} + 2_1 = 6 \text{ Prime}_1$$

$$\{[4]^M, M= \{1, 2, 3, 4, 5, 6\}\} + 37_{12} = 6 \text{ Prime}_2$$

$$\{[30]^M, M= \{1, 2, 3, 4, 5, 6\}\} + 109_{29} = 6 \text{ Prime}_3$$

$$\{[4]^M, M= \{1, 2, 3, 4, 5, 6\}\} + 163_{38} = 6 \text{ Prime}_4$$

$$\{[30]^M, M= \{1, 2, 3, 4, 5, 6\}\} + 281_{60} = 6 \text{ Prime}_5$$

$$\{[60]^M, M= \{1, 2, 3, 4, 5, 6\}\} + 617_{113} = 6 \text{ Prime}_6$$

$$\{[6]^M, M= \{1, 2, 3, 4, 5, 6\}\} + 1087_{181} = 6 \text{ Prime}_7$$

$$\{[6]^M, M= \{1, 2, 3, 4, 5, 6\}\} + 1283_{208} = 6 \text{ Prime}_8$$

$$\{[16]^M, M= \{1, 2, 3, 4, 5, 6\}\} + 1621_{257} = 6 \text{ Prime}_9$$

$$\{[6]^M, M= \{1, 2, 3, 4, 5, 6\}\} + 1657_{260} = 6 \text{ Prime}_{10}$$

$$\{[30]^M, M= \{1, 2, 3, 4, 5, 6\}\} + 2221_{331} = 6 \text{ Prime}_{11}$$

$$\{[70]^M, M= \{1, 2, 3, 4, 5, 6\}\} + 2311_{344} = 6 \text{ Prime}_{12}$$

$$\{[36]^M, M= \{1, 2, 3, 4, 5, 6\}\} + 2621_{381} = 6 \text{ Prime}_{13}$$

$$\{[30]^M, M= \{1, 2, 3, 4, 5, 6\}\} + 2633_{382} = 6 \text{ Prime}_{14}$$

$$\{[6]^M, M= \{1, 2, 3, 4, 5, 6\}\} + 3607_{504} = 6 \text{ Prime}_{15}$$

$$\{[36]^M, M= \{1, 2, 3, 4, 5, 6\}\} + 6011_{785} = 6 \text{ Prime}_{16}$$

$$\{[6]^M, M= \{1, 2, 3, 4, 5, 6\}\} + 6977_{897} = 6 \text{ Prime}_{17}$$

$$\{[30]^M, M= \{1, 2, 3, 4, 5, 6\}\} + 7919_{1000} = 6 \text{ Prime}_{18}$$

$$\{[84]^M, M= \{1, 2, 3, 4, 5, 6\}\} + 8563_{1067} = 6 \text{ Prime}_{19}$$

$$\{[6]^M, M= \{1, 2, 3, 4, 5, 6\}\} + 9613_{1186} = 6 \text{ Prime}_{20}$$

$$\{[6]^M, M= \{1, 2, 3, 4, 5, 6\}\} + 9643_{1191} = 6 \text{ Prime}_{21}$$

$$\{[6]^M, M= \{1, 2, 3, 4, 5, 6\}\} + 12373_{1476} = 6 \text{ Prime}_{22}$$

$$\{[6]^M, M= \{1, 2, 3, 4, 5, 6\}\} + 12583_{1503} = 6 \text{ Prime}_{23}$$

$$\{[30]^M, M= \{1, 2, 3, 4, 5, 6\}\} + 14669_{1718} = 6 \text{ Prime}_{24}$$

$$\{[30]^M, M= \{1, 2, 3, 4, 5, 6\}\} + 15101_{1764} = 6 \text{ Prime}_{25}$$

$$\{[4]^M, M= \{1, 2, 3, 4, 5, 6\}\} + 15667_{1828} = 6 \text{ Prime}_{26}$$

$$\{[30]^M, M= \{1, 2, 3, 4, 5, 6\}\} + 17389_{2000} = 6 \text{ Prime}_{27}$$

$$\{[84]^M, M= \{1, 2, 3, 4, 5, 6\}\} + 21563_{2420} = 6 \text{ Prime}_{28}$$

$$\begin{aligned}
& \{[6]^M, M = \{1, 2, 3, 4, 5, 6\}\} + 22901_{2556} = 6 \text{ Prime}_{29} \\
& \{[36]^M, M = \{1, 2, 3, 4, 5, 6\}\} + 26357_{2896} = 6 \text{ Prime}_{30} \\
& \{[6]^M, M = \{1, 2, 3, 4, 5, 6\}\} + 26981_{2959} = 6 \text{ Prime}_{31} \\
& \{[84]^M, M = \{1, 2, 3, 4, 5, 6\}\} + 27763_{3029} = 6 \text{ Prime}_{32} \\
& \{[76]^M, M = \{1, 2, 3, 4, 5, 6\}\} + 31321_{3376} = 6 \text{ Prime}_{33} \\
& \{[60]^M, M = \{1, 2, 3, 4, 5, 6\}\} + 32299_{3463} = 6 \text{ Prime}_{34} \\
& \{[6]^M, M = \{1, 2, 3, 4, 5, 6\}\} + 34913_{3726} = 6 \text{ Prime}_{35} \\
& \{[6]^M, M = \{1, 2, 3, 4, 5, 6\}\} + 35537_{3785} = 6 \text{ Prime}_{36} \\
& \{[6]^M, M = \{1, 2, 3, 4, 5, 6\}\} + 40897_{4283} = 6 \text{ Prime}_{37} \\
& \{[46]^M, M = \{1, 2, 3, 4, 5, 6\}\} + 46831_{4840} = 6 \text{ Prime}_{38} \\
& \{[6]^M, M = \{1, 2, 3, 4, 5, 6\}\} + 47563_{4903} = 6 \text{ Prime}_{39} \\
& \{[64]^M, M = \{1, 2, 3, 4, 5, 6\}\} + 50227_{5156} = 6 \text{ Prime}_{40} \\
& \{[4]^M, M = \{1, 2, 3, 4, 5, 6\}\} + 53593_{5460} = 6 \text{ Prime}_{41} \\
& \{[34]^M, M = \{1, 2, 3, 4, 5, 6\}\} + 60223_{6079} = 6 \text{ Prime}_{42} \\
& \{[34]^M, M = \{1, 2, 3, 4, 5, 6\}\} + 64153_{6426} = 6 \text{ Prime}_{43} \\
& \{[16]^M, M = \{1, 2, 3, 4, 5, 6\}\} + 68863_{6842} = 6 \text{ Prime}_{44} \\
& \{[36]^M, M = \{1, 2, 3, 4, 5, 6\}\} + 71437_{7076} = 6 \text{ Prime}_{45} \\
& \{[36]^M, M = \{1, 2, 3, 4, 5, 6\}\} + 74573_{7356} = 6 \text{ Prime}_{46} \\
& \{[6]^M, M = \{1, 2, 3, 4, 5, 6\}\} + 82003_{8018} = 6 \text{ Prime}_{47} \\
& \{[70]^M, M = \{1, 2, 3, 4, 5, 6\}\} + 84991_{8277} = 6 \text{ Prime}_{48} \\
& \{[6]^M, M = \{1, 2, 3, 4, 5, 6\}\} + 91457_{8844} = 6 \text{ Prime}_{49} \\
& \{[6]^M, M = \{1, 2, 3, 4, 5, 6\}\} + 93047_{8986} = 6 \text{ Prime}_{50} \\
& \{[100]^M, M = \{1, 2, 3, 4, 5, 6\}\} + 93307_{9013} = 6 \text{ Prime}_{51} \\
& \{[70]^M, M = \{1, 2, 3, 4, 5, 6\}\} + 93427_{9023} = 6 \text{ Prime}_{52} \\
& \{[36]^M, M = \{1, 2, 3, 4, 5, 6\}\} + 95701_{9222} = 6 \text{ Prime}_{53} \\
& \{[84]^M, M = \{1, 2, 3, 4, 5, 6\}\} + 96013_{9254} = 6 \text{ Prime}_{54} \\
& \{[84]^M, M = \{1, 2, 3, 4, 5, 6\}\} + 96847_{9324} = 6 \text{ Prime}_{55} \\
& \{[6]^M, M = \{1, 2, 3, 4, 5, 6\}\} + 98893_{9492} = 6 \text{ Prime}_{56} \\
& \{[34]^M, M = \{1, 2, 3, 4, 5, 6\}\} + 101377_{9709} = 6 \text{ Prime}_{57}
\end{aligned}$$

(1)

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> c := 0 :for h from 1 to 10000000 do it := ithprime(h) :for n from 1 to 100 do cfc := 0 :
  cf := 1 : for e from 1 to 10 do if cf=1 and isprime(it + n^e) then cfc := cfc + 1
  else cf := 0 : break if:od:if cfc > 8 then c := c + 1 :if cfc > 9 then for x from 1 to cfc
  do print([n]^x + it[h] = (n^x + it) [prime[c, x]]) :od fi: print({[n]^M, M = {seq(j, j = 1

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..cfc) }} + it[h] = (cfc) prime[c]) :break fi:od:od:

$$[1] + 2_1 = 3_{prime_{1,1}}$$

$$[1]^2 + 2_1 = 3_{prime_{1,2}}$$

$$[1]^3 + 2_1 = 3_{prime_{1,3}}$$

$$[1]^4 + 2_1 = 3_{prime_{1,4}}$$

$$[1]^5 + 2_1 = 3_{prime_{1,5}}$$

$$[1]^6 + 2_1 = 3_{prime_{1,6}}$$

$$[1]^7 + 2_1 = 3_{prime_{1,7}}$$

$$[1]^8 + 2_1 = 3_{prime_{1,8}}$$

$$[1]^9 + 2_1 = 3_{prime_{1,9}}$$

$$[1]^{10} + 2_1 = 3_{prime_{1,10}}$$

$$\{[1]^M, M = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}\} + 2_1 = 10_{prime_1}$$

$$\{[4]^M, M = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}\} + 671353_{54412} = 9_{prime_2}$$

$$\{[70]^M, M = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}\} + 2418007_{177521} = 9_{prime_3}$$

$$[36] + 2478331_{181598} = 2478367_{prime_{4,1}}$$

$$[36]^2 + 2478331_{181598} = 2479627_{prime_{4,2}}$$

$$[36]^3 + 2478331_{181598} = 2524987_{prime_{4,3}}$$

$$[36]^4 + 2478331_{181598} = 4157947_{prime_{4,4}}$$

$$[36]^5 + 2478331_{181598} = 62944507_{prime_{4,5}}$$

$$[36]^6 + 2478331_{181598} = 2179260667_{prime_{4,6}}$$

$$[36]^7 + 2478331_{181598} = 78366642427_{prime_{4,7}}$$

$$[36]^8 + 2478331_{181598} = 2821112385787_{prime_{4,8}}$$

$$[36]^9 + 2478331_{181598} = 101559959146747_{prime_{4,9}}$$

$$[36]^{10} + 2478331_{181598} = 3656158442541307_{prime_{4,10}}$$

$$\{[36]^M, M = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}\} + 2478331_{181598} = 10_{prime_4}$$

$$\{[6]^M, M = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}\} + 3599111_{256670} = 9_{prime_5}$$

$$\begin{aligned}
& \{[4]^M, M = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}\} + 5772097_{398219} = 9 \text{ prime}_6 \\
& \{[16]^M, M = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}\} + 7150837_{486220} = 9 \text{ prime}_7 \\
& [4] + 13243063_{864014} = 13243067_{\text{prime}_{8, 1}} \\
& [4]^2 + 13243063_{864014} = 13243079_{\text{prime}_{8, 2}} \\
& [4]^3 + 13243063_{864014} = 13243127_{\text{prime}_{8, 3}} \\
& [4]^4 + 13243063_{864014} = 13243319_{\text{prime}_{8, 4}} \\
& [4]^5 + 13243063_{864014} = 13244087_{\text{prime}_{8, 5}} \\
& [4]^6 + 13243063_{864014} = 13247159_{\text{prime}_{8, 6}} \\
& [4]^7 + 13243063_{864014} = 13259447_{\text{prime}_{8, 7}} \\
& [4]^8 + 13243063_{864014} = 13308599_{\text{prime}_{8, 8}} \\
& [4]^9 + 13243063_{864014} = 13505207_{\text{prime}_{8, 9}} \\
& [4]^{10} + 13243063_{864014} = 14291639_{\text{prime}_{8, 10}} \\
& \{[4]^M, M = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}\} + 13243063_{864014} = 10 \text{ prime}_8 \\
& \{[4]^M, M = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}\} + 18116473_{1158262} = 9 \text{ prime}_9 \\
& \{[34]^M, M = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}\} + 19734067_{1254701} = 9 \text{ prime}_{10} \\
& \{[4]^M, M = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}\} + 21960577_{1386952} = 9 \text{ prime}_{11} \\
& [64] + 35926243_{2199997} = 35926307_{\text{prime}_{12, 1}} \\
& [64]^2 + 35926243_{2199997} = 35930339_{\text{prime}_{12, 2}} \\
& [64]^3 + 35926243_{2199997} = 36188387_{\text{prime}_{12, 3}} \\
& [64]^4 + 35926243_{2199997} = 52703459_{\text{prime}_{12, 4}} \\
& [64]^5 + 35926243_{2199997} = 1109668067_{\text{prime}_{12, 5}} \\
& [64]^6 + 35926243_{2199997} = 68755402979_{\text{prime}_{12, 6}} \\
& [64]^7 + 35926243_{2199997} = 4398082437347_{\text{prime}_{12, 7}} \\
& [64]^8 + 35926243_{2199997} = 281475012636899_{\text{prime}_{12, 8}} \\
& [64]^9 + 35926243_{2199997} = 18014398545408227_{\text{prime}_{12, 9}} \\
& [64]^{10} + 35926243_{2199997} = 1152921504642773219_{\text{prime}_{12, 10}}
\end{aligned}$$

$$\{[64]^M, M = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}\} + 35926243_{2199997} = 10 \text{ prime}_{12}$$

$$\{[34]^M, M = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}\} + 36633307_{2240677} = 9 \text{ prime}_{13}$$

$$[70] + 39603547_{2411034} = 39603617_{\text{prime}_{14, 1}}$$

$$[70]^2 + 39603547_{2411034} = 39608447_{\text{prime}_{14, 2}}$$

$$[70]^3 + 39603547_{2411034} = 39946547_{\text{prime}_{14, 3}}$$

$$[70]^4 + 39603547_{2411034} = 63613547_{\text{prime}_{14, 4}}$$

$$[70]^5 + 39603547_{2411034} = 1720303547_{\text{prime}_{14, 5}}$$

$$[70]^6 + 39603547_{2411034} = 117688603547_{\text{prime}_{14, 6}}$$

$$[70]^7 + 39603547_{2411034} = 8235469603547_{\text{prime}_{14, 7}}$$

$$[70]^8 + 39603547_{2411034} = 576480139603547_{\text{prime}_{14, 8}}$$

$$[70]^9 + 39603547_{2411034} = 40353607039603547_{\text{prime}_{14, 9}}$$

$$[70]^{10} + 39603547_{2411034} = 2824752490039603547_{\text{prime}_{14, 10}}$$

$$\{[70]^M, M = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}\} + 39603547_{2411034} = 10 \text{ prime}_{14}$$

(2)

> $c := 0$:for h from 1 to 10000 do $it := ithprime(h)$:for n from 1 to 10000 do $cf := 0$:
 $cf := 1$: for e from 1 to 10 do if $cf = 1$ and $isprime(it + n^e)$ then $cf := cf + 1$
 else $cf := 0$: break if:od:if $cf > 7$ then $c := c + 1$:if $n > 1000$ and $cf > 7$ then for x
 from 1 to cf do print($[n]^x + it[h] = (n^x + it)[prime[c, x]]$) :od fi: print($\{[n]^M, M$
 $= \{seq(j, j = 1 ..cf)\}\} + it[h] = (cf)prime[c]$) :break fi:od:od:

$$\{[1]^M, M = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}\} + 2_1 = 10 \text{ prime}_1$$

$$\{[4]^M, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 163_{38} = 8 \text{ prime}_2$$

$$\{[6]^M, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 1087_{181} = 8 \text{ prime}_3$$

$$[8176] + 12373_{1476} = 20549_{\text{prime}_{4, 1}}$$

$$[8176]^2 + 12373_{1476} = 66859349_{\text{prime}_{4, 2}}$$

$$[8176]^3 + 12373_{1476} = 546540888149_{\text{prime}_{4, 3}}$$

$$[8176]^4 + 12373_{1476} = 4468518200356949_{\text{prime}_{4, 4}}$$

$$[8176]^5 + 12373_{1476} = 36534604806017265749_{\text{prime}_{4, 5}}$$

$$[8176]^6 + 12373_{1476} = 298706928893997063614549_{\text{prime}_{4, 6}}$$

$$[8176]^7 + 12373_{1476} = 2442227850637319992011403349_{\text{prime}_{4, 7}}$$

$$[8176]^8 + 12373_{1476} = 19967654906810728254685132632149_{prime_{4,8}}$$

$$\{[8176]^M, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 12373_{1476} = 8 \text{ prime}_4$$

$$\{[4]^M, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 15667_{1828} = 8 \text{ prime}_5$$

$$\{[6]^M, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 40897_{4283} = 8 \text{ prime}_6$$

$$\{[6]^M, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 47563_{4903} = 8 \text{ prime}_7$$

$$[4026] + 63901_{6407} = 67927_{prime_{8,1}}$$

$$[4026]^2 + 63901_{6407} = 16272577_{prime_{8,2}}$$

$$[4026]^3 + 63901_{6407} = 65256193477_{prime_{8,3}}$$

$$[4026]^4 + 63901_{6407} = 262721177736877_{prime_{8,4}}$$

$$[4026]^5 + 63901_{6407} = 1057715461311465277_{prime_{8,5}}$$

$$[4026]^6 + 63901_{6407} = 4258362447239702003677_{prime_{8,6}}$$

$$[4026]^7 + 63901_{6407} = 17144167212587040009602077_{prime_{8,7}}$$

$$[4026]^8 + 63901_{6407} = 69022417197875423078400760477_{prime_{8,8}}$$

$$\{[4026]^M, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 63901_{6407} = 8 \text{ prime}_8$$

$$[3396] + 95231_{9180} = 98627_{prime_{9,1}}$$

$$[3396]^2 + 95231_{9180} = 11628047_{prime_{9,2}}$$

$$[3396]^3 + 95231_{9180} = 39165538367_{prime_{9,3}}$$

$$[3396]^4 + 95231_{9180} = 133005844985087_{prime_{9,4}}$$

$$[3396]^5 + 95231_{9180} = 451687849246046207_{prime_{9,5}}$$

$$[3396]^6 + 95231_{9180} = 1533931936039249609727_{prime_{9,6}}$$

$$[3396]^7 + 95231_{9180} = 5209232854789291351323647_{prime_{9,7}}$$

$$[3396]^8 + 95231_{9180} = 17690554774864433428771795967_{prime_{9,8}}$$

$$\{[3396]^M, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 95231_{9180} = 8 \text{ prime}_9$$

(3)

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> c := 0 :for h from 1 to 10000 do it := ithprime(h) :for n from 1 to 10000 do cfc := 0 :
cf := 1 : for e from 1 to 20 do if cf = 1 and isprime(it + n·e) then cfc := cfc + 1
else cf := 0 : break if:od:if cfc > 7 then c := c + 1 :if cfc > 7 then for x from 1 to cfc
do print([n]·{x} + it[h] = (n·x + it)[prime[c, x]]) :od fi: print({[n]·{M}, M
= {seq(j, j = 1 ..cfc)}} + it[h] = (cfc)prime[c]) :break fi:od:od:
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$$[6930] \{1\} + 17_7 = 6947_{prime_{1,1}}$$

$$[6930] \{2\} + 17_7 = 13877_{prime_{1,2}}$$

$$[6930] \{3\} + 17_7 = 20807_{prime_{1,3}}$$

$$[6930] \{4\} + 17_7 = 27737_{prime_{1,4}}$$

$$[6930] \{5\} + 17_7 = 34667_{prime_{1,5}}$$

$$[6930] \{6\} + 17_7 = 41597_{prime_{1,6}}$$

$$[6930] \{7\} + 17_7 = 48527_{prime_{1,7}}$$

$$[6930] \{8\} + 17_7 = 55457_{prime_{1,8}}$$

$$\{[6930] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 17_7 = 8 \text{ prime}_1$$

$$[7980] \{1\} + 137_{33} = 8117_{prime_{2,1}}$$

$$[7980] \{2\} + 137_{33} = 16097_{prime_{2,2}}$$

$$[7980] \{3\} + 137_{33} = 24077_{prime_{2,3}}$$

$$[7980] \{4\} + 137_{33} = 32057_{prime_{2,4}}$$

$$[7980] \{5\} + 137_{33} = 40037_{prime_{2,5}}$$

$$[7980] \{6\} + 137_{33} = 48017_{prime_{2,6}}$$

$$[7980] \{7\} + 137_{33} = 55997_{prime_{2,7}}$$

$$[7980] \{8\} + 137_{33} = 63977_{prime_{2,8}}$$

$$\{[7980] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 137_{33} = 8 \text{ prime}_2$$

$$[210] \{1\} + 199_{46} = 409_{prime_{3,1}}$$

$$[210] \{2\} + 199_{46} = 619_{prime_{3,2}}$$

$$[210] \{3\} + 199_{46} = 829_{prime_{3,3}}$$

$$[210] \{4\} + 199_{46} = 1039_{prime_{3,4}}$$

$$[210] \{5\} + 199_{46} = 1249_{prime_{3,5}}$$

$$[210] \{6\} + 199_{46} = 1459_{prime_{3,6}}$$

$$[210] \{7\} + 199_{46} = 1669_{prime_{3,7}}$$

$$[210] \{8\} + 199_{46} = 1879_{prime_{3,8}}$$

$$[210] \{9\} + 199_{46} = 2089_{prime_{3,9}}$$

$$\{[210] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}\} + 199_{46} = 9 \text{ prime}_3$$

$$[210] \{1\} + 409_{80} = 619_{prime_{4,1}}$$

$$[210] \{2\} + 409_{80} = 829_{prime_{4,2}}$$

$$[210] \{3\} + 409_{80} = 1039_{prime_{4,3}}$$

$$[210] \{4\} + 409_{80} = 1249_{prime_{4,4}}$$

$$[210] \{5\} + 409_{80} = 1459_{prime_{4,5}}$$

$$[210] \{6\} + 409_{80} = 1669_{prime_{4,6}}$$

$$[210] \{7\} + 409_{80} = 1879_{prime_{4,7}}$$

$$[210] \{8\} + 409_{80} = 2089_{prime_{4,8}}$$

$$\{[210] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 409_{80} = 8 \text{ prime}_4$$

$$[3150] \{1\} + 433_{84} = 3583_{prime_{5,1}}$$

$$[3150] \{2\} + 433_{84} = 6733_{prime_{5,2}}$$

$$[3150] \{3\} + 433_{84} = 9883_{prime_{5,3}}$$

$$[3150] \{4\} + 433_{84} = 13033_{prime_{5,4}}$$

$$[3150] \{5\} + 433_{84} = 16183_{prime_{5,5}}$$

$$[3150] \{6\} + 433_{84} = 19333_{prime_{5,6}}$$

$$[3150] \{7\} + 433_{84} = 22483_{prime_{5,7}}$$

$$[3150] \{8\} + 433_{84} = 25633_{prime_{5,8}}$$

$$\{[3150] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 433_{84} = 8 \text{ prime}_5$$

$$[9660] \{1\} + 521_{98} = 10181_{prime_{6,1}}$$

$$[9660] \{2\} + 521_{98} = 19841_{prime_{6,2}}$$

$$[9660] \{3\} + 521_{98} = 29501_{prime_{6,3}}$$

$$[9660] \{4\} + 521_{98} = 39161_{prime_{6,4}}$$

$$[9660] \{5\} + 521_{98} = 48821_{prime_{6,5}}$$

$$[9660] \{6\} + 521_{98} = 58481_{prime_{6,6}}$$

$$[9660] \{7\} + 521_{98} = 68141_{prime_{6,7}}$$

$$[9660] \{8\} + 521_{98} = 77801_{prime_{6,8}}$$

$$\{[9660] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 521_{98} = 8 \text{ prime}_6$$

$$[9240] \{1\} + 937_{159} = 10177_{prime_{7,1}}$$

$$[9240] \{2\} + 937_{159} = 19417_{\text{prime}_{7,2}}$$

$$[9240] \{3\} + 937_{159} = 28657_{\text{prime}_{7,3}}$$

$$[9240] \{4\} + 937_{159} = 37897_{\text{prime}_{7,4}}$$

$$[9240] \{5\} + 937_{159} = 47137_{\text{prime}_{7,5}}$$

$$[9240] \{6\} + 937_{159} = 56377_{\text{prime}_{7,6}}$$

$$[9240] \{7\} + 937_{159} = 65617_{\text{prime}_{7,7}}$$

$$[9240] \{8\} + 937_{159} = 74857_{\text{prime}_{7,8}}$$

$$\{[9240] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 937_{159} = 8 \text{ prime}_7$$

$$[3990] \{1\} + 1699_{266} = 5689_{\text{prime}_{8,1}}$$

$$[3990] \{2\} + 1699_{266} = 9679_{\text{prime}_{8,2}}$$

$$[3990] \{3\} + 1699_{266} = 13669_{\text{prime}_{8,3}}$$

$$[3990] \{4\} + 1699_{266} = 17659_{\text{prime}_{8,4}}$$

$$[3990] \{5\} + 1699_{266} = 21649_{\text{prime}_{8,5}}$$

$$[3990] \{6\} + 1699_{266} = 25639_{\text{prime}_{8,6}}$$

$$[3990] \{7\} + 1699_{266} = 29629_{\text{prime}_{8,7}}$$

$$[3990] \{8\} + 1699_{266} = 33619_{\text{prime}_{8,8}}$$

$$\{[3990] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 1699_{266} = 8 \text{ prime}_8$$

$$[1260] \{1\} + 2063_{311} = 3323_{\text{prime}_{9,1}}$$

$$[1260] \{2\} + 2063_{311} = 4583_{\text{prime}_{9,2}}$$

$$[1260] \{3\} + 2063_{311} = 5843_{\text{prime}_{9,3}}$$

$$[1260] \{4\} + 2063_{311} = 7103_{\text{prime}_{9,4}}$$

$$[1260] \{5\} + 2063_{311} = 8363_{\text{prime}_{9,5}}$$

$$[1260] \{6\} + 2063_{311} = 9623_{\text{prime}_{9,6}}$$

$$[1260] \{7\} + 2063_{311} = 10883_{\text{prime}_{9,7}}$$

$$[1260] \{8\} + 2063_{311} = 12143_{\text{prime}_{9,8}}$$

$$\{[1260] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 2063_{311} = 8 \text{ prime}_9$$

$$[5250] \{1\} + 3413_{480} = 8663_{\text{prime}_{10,1}}$$

$$[5250] \{2\} + 3413_{480} = 13913_{\text{prime}_{10,2}}$$

$$[5250] \{3\} + 3413_{480} = 19163_{prime_{10,3}}$$

$$[5250] \{4\} + 3413_{480} = 24413_{prime_{10,4}}$$

$$[5250] \{5\} + 3413_{480} = 29663_{prime_{10,5}}$$

$$[5250] \{6\} + 3413_{480} = 34913_{prime_{10,6}}$$

$$[5250] \{7\} + 3413_{480} = 40163_{prime_{10,7}}$$

$$[5250] \{8\} + 3413_{480} = 45413_{prime_{10,8}}$$

$$\{[5250] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 3413_{480} = 8 \text{ prime}_{10}$$

$$[210] \{1\} + 3499_{489} = 3709_{prime_{11,1}}$$

$$[210] \{2\} + 3499_{489} = 3919_{prime_{11,2}}$$

$$[210] \{3\} + 3499_{489} = 4129_{prime_{11,3}}$$

$$[210] \{4\} + 3499_{489} = 4339_{prime_{11,4}}$$

$$[210] \{5\} + 3499_{489} = 4549_{prime_{11,5}}$$

$$[210] \{6\} + 3499_{489} = 4759_{prime_{11,6}}$$

$$[210] \{7\} + 3499_{489} = 4969_{prime_{11,7}}$$

$$[210] \{8\} + 3499_{489} = 5179_{prime_{11,8}}$$

$$\{[210] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 3499_{489} = 8 \text{ prime}_{11}$$

$$[2310] \{1\} + 3823_{531} = 6133_{prime_{12,1}}$$

$$[2310] \{2\} + 3823_{531} = 8443_{prime_{12,2}}$$

$$[2310] \{3\} + 3823_{531} = 10753_{prime_{12,3}}$$

$$[2310] \{4\} + 3823_{531} = 13063_{prime_{12,4}}$$

$$[2310] \{5\} + 3823_{531} = 15373_{prime_{12,5}}$$

$$[2310] \{6\} + 3823_{531} = 17683_{prime_{12,6}}$$

$$[2310] \{7\} + 3823_{531} = 19993_{prime_{12,7}}$$

$$[2310] \{8\} + 3823_{531} = 22303_{prime_{12,8}}$$

$$\{[2310] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 3823_{531} = 8 \text{ prime}_{12}$$

$$[7980] \{1\} + 4091_{563} = 12071_{prime_{13,1}}$$

$$[7980] \{2\} + 4091_{563} = 20051_{prime_{13,2}}$$

$$[7980] \{3\} + 4091_{563} = 28031_{prime_{13,3}}$$

$$[7980] \{4\} + 4091_{563} = 36011_{prime_{13,4}}$$

$$[7980] \{5\} + 4091_{563} = 43991_{prime_{13,5}}$$

$$[7980] \{6\} + 4091_{563} = 51971_{prime_{13,6}}$$

$$[7980] \{7\} + 4091_{563} = 59951_{prime_{13,7}}$$

$$[7980] \{8\} + 4091_{563} = 67931_{prime_{13,8}}$$

$$\{[7980] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 4091_{563} = 8 \text{ prime}_{13}$$

$$[2730] \{1\} + 4721_{636} = 7451_{prime_{14,1}}$$

$$[2730] \{2\} + 4721_{636} = 10181_{prime_{14,2}}$$

$$[2730] \{3\} + 4721_{636} = 12911_{prime_{14,3}}$$

$$[2730] \{4\} + 4721_{636} = 15641_{prime_{14,4}}$$

$$[2730] \{5\} + 4721_{636} = 18371_{prime_{14,5}}$$

$$[2730] \{6\} + 4721_{636} = 21101_{prime_{14,6}}$$

$$[2730] \{7\} + 4721_{636} = 23831_{prime_{14,7}}$$

$$[2730] \{8\} + 4721_{636} = 26561_{prime_{14,8}}$$

$$\{[2730] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 4721_{636} = 8 \text{ prime}_{14}$$

$$[840] \{1\} + 6043_{788} = 6883_{prime_{15,1}}$$

$$[840] \{2\} + 6043_{788} = 7723_{prime_{15,2}}$$

$$[840] \{3\} + 6043_{788} = 8563_{prime_{15,3}}$$

$$[840] \{4\} + 6043_{788} = 9403_{prime_{15,4}}$$

$$[840] \{5\} + 6043_{788} = 10243_{prime_{15,5}}$$

$$[840] \{6\} + 6043_{788} = 11083_{prime_{15,6}}$$

$$[840] \{7\} + 6043_{788} = 11923_{prime_{15,7}}$$

$$[840] \{8\} + 6043_{788} = 12763_{prime_{15,8}}$$

$$\{[840] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 6043_{788} = 8 \text{ prime}_{15}$$

$$[7770] \{1\} + 6553_{847} = 14323_{prime_{16,1}}$$

$$[7770] \{2\} + 6553_{847} = 22093_{prime_{16,2}}$$

$$[7770] \{3\} + 6553_{847} = 29863_{prime_{16,3}}$$

$$[7770] \{4\} + 6553_{847} = 37633_{prime_{16,4}}$$

$$[7770] \{5\} + 6553_{847} = 45403_{prime_{16,5}}$$

$$[7770] \{6\} + 6553_{847} = 53173_{prime_{16,6}}$$

$$[7770] \{7\} + 6553_{847} = 60943_{prime_{16,7}}$$

$$[7770] \{8\} + 6553_{847} = 68713_{prime_{16,8}}$$

$$\{[7770] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 6553_{847} = 8 \text{ prime}_{16}$$

$$[6930] \{1\} + 7151_{915} = 14081_{prime_{17,1}}$$

$$[6930] \{2\} + 7151_{915} = 21011_{prime_{17,2}}$$

$$[6930] \{3\} + 7151_{915} = 27941_{prime_{17,3}}$$

$$[6930] \{4\} + 7151_{915} = 34871_{prime_{17,4}}$$

$$[6930] \{5\} + 7151_{915} = 41801_{prime_{17,5}}$$

$$[6930] \{6\} + 7151_{915} = 48731_{prime_{17,6}}$$

$$[6930] \{7\} + 7151_{915} = 55661_{prime_{17,7}}$$

$$[6930] \{8\} + 7151_{915} = 62591_{prime_{17,8}}$$

$$\{[6930] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 7151_{915} = 8 \text{ prime}_{17}$$

$$[210] \{1\} + 10859_{1320} = 11069_{prime_{18,1}}$$

$$[210] \{2\} + 10859_{1320} = 11279_{prime_{18,2}}$$

$$[210] \{3\} + 10859_{1320} = 11489_{prime_{18,3}}$$

$$[210] \{4\} + 10859_{1320} = 11699_{prime_{18,4}}$$

$$[210] \{5\} + 10859_{1320} = 11909_{prime_{18,5}}$$

$$[210] \{6\} + 10859_{1320} = 12119_{prime_{18,6}}$$

$$[210] \{7\} + 10859_{1320} = 12329_{prime_{18,7}}$$

$$[210] \{8\} + 10859_{1320} = 12539_{prime_{18,8}}$$

$$\{[210] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 10859_{1320} = 8 \text{ prime}_{18}$$

$$[840] \{1\} + 10861_{1321} = 11701_{prime_{19,1}}$$

$$[840] \{2\} + 10861_{1321} = 12541_{prime_{19,2}}$$

$$[840] \{3\} + 10861_{1321} = 13381_{prime_{19,3}}$$

$$[840] \{4\} + 10861_{1321} = 14221_{prime_{19,4}}$$

$$[840] \{5\} + 10861_{1321} = 15061_{prime_{19,5}}$$

$$[840] \{6\} + 10861_{1321} = 15901_{prime_{19,6}}$$

$$[840] \{7\} + 10861_{1321} = 16741_{prime_{19,7}}$$

$$[840] \{8\} + 10861_{1321} = 17581_{prime_{19,8}}$$

$$\{[840] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 10861_{1321} = 8 \text{ prime}_{19}$$

$$[2940] \{1\} + 11927_{1429} = 14867_{prime_{20,1}}$$

$$[2940] \{2\} + 11927_{1429} = 17807_{prime_{20,2}}$$

$$[2940] \{3\} + 11927_{1429} = 20747_{prime_{20,3}}$$

$$[2940] \{4\} + 11927_{1429} = 23687_{prime_{20,4}}$$

$$[2940] \{5\} + 11927_{1429} = 26627_{prime_{20,5}}$$

$$[2940] \{6\} + 11927_{1429} = 29567_{prime_{20,6}}$$

$$[2940] \{7\} + 11927_{1429} = 32507_{prime_{20,7}}$$

$$[2940] \{8\} + 11927_{1429} = 35447_{prime_{20,8}}$$

$$\{[2940] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 11927_{1429} = 8 \text{ prime}_{20}$$

$$[4200] \{1\} + 12547_{1499} = 16747_{prime_{21,1}}$$

$$[4200] \{2\} + 12547_{1499} = 20947_{prime_{21,2}}$$

$$[4200] \{3\} + 12547_{1499} = 25147_{prime_{21,3}}$$

$$[4200] \{4\} + 12547_{1499} = 29347_{prime_{21,4}}$$

$$[4200] \{5\} + 12547_{1499} = 33547_{prime_{21,5}}$$

$$[4200] \{6\} + 12547_{1499} = 37747_{prime_{21,6}}$$

$$[4200] \{7\} + 12547_{1499} = 41947_{prime_{21,7}}$$

$$[4200] \{8\} + 12547_{1499} = 46147_{prime_{21,8}}$$

$$\{[4200] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 12547_{1499} = 8 \text{ prime}_{21}$$

$$[6930] \{1\} + 13469_{1597} = 20399_{prime_{22,1}}$$

$$[6930] \{2\} + 13469_{1597} = 27329_{prime_{22,2}}$$

$$[6930] \{3\} + 13469_{1597} = 34259_{prime_{22,3}}$$

$$[6930] \{4\} + 13469_{1597} = 41189_{prime_{22,4}}$$

$$[6930] \{5\} + 13469_{1597} = 48119_{prime_{22,5}}$$

$$[6930] \{6\} + 13469_{1597} = 55049_{prime_{22,6}}$$

$$[6930] \{7\} + 13469_{1597} = 61979_{prime_{22, 7}}$$

$$[6930] \{8\} + 13469_{1597} = 68909_{prime_{22, 8}}$$

$$\{[6930] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 13469_{1597} = 8 \text{ prime}_{22}$$

$$[1890] \{1\} + 15607_{1820} = 17497_{prime_{23, 1}}$$

$$[1890] \{2\} + 15607_{1820} = 19387_{prime_{23, 2}}$$

$$[1890] \{3\} + 15607_{1820} = 21277_{prime_{23, 3}}$$

$$[1890] \{4\} + 15607_{1820} = 23167_{prime_{23, 4}}$$

$$[1890] \{5\} + 15607_{1820} = 25057_{prime_{23, 5}}$$

$$[1890] \{6\} + 15607_{1820} = 26947_{prime_{23, 6}}$$

$$[1890] \{7\} + 15607_{1820} = 28837_{prime_{23, 7}}$$

$$[1890] \{8\} + 15607_{1820} = 30727_{prime_{23, 8}}$$

$$\{[1890] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 15607_{1820} = 8 \text{ prime}_{23}$$

$$[2520] \{1\} + 19141_{2172} = 21661_{prime_{24, 1}}$$

$$[2520] \{2\} + 19141_{2172} = 24181_{prime_{24, 2}}$$

$$[2520] \{3\} + 19141_{2172} = 26701_{prime_{24, 3}}$$

$$[2520] \{4\} + 19141_{2172} = 29221_{prime_{24, 4}}$$

$$[2520] \{5\} + 19141_{2172} = 31741_{prime_{24, 5}}$$

$$[2520] \{6\} + 19141_{2172} = 34261_{prime_{24, 6}}$$

$$[2520] \{7\} + 19141_{2172} = 36781_{prime_{24, 7}}$$

$$[2520] \{8\} + 19141_{2172} = 39301_{prime_{24, 8}}$$

$$\{[2520] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 19141_{2172} = 8 \text{ prime}_{24}$$

$$[6510] \{1\} + 20599_{2323} = 27109_{prime_{25, 1}}$$

$$[6510] \{2\} + 20599_{2323} = 33619_{prime_{25, 2}}$$

$$[6510] \{3\} + 20599_{2323} = 40129_{prime_{25, 3}}$$

$$[6510] \{4\} + 20599_{2323} = 46639_{prime_{25, 4}}$$

$$[6510] \{5\} + 20599_{2323} = 53149_{prime_{25, 5}}$$

$$[6510] \{6\} + 20599_{2323} = 59659_{prime_{25, 6}}$$

$$[6510] \{7\} + 20599_{2323} = 66169_{prime_{25, 7}}$$

$$[6510] \{8\} + 20599_{2323} = 72679_{prime_{25, 8}}$$

$$\{[6510] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 20599_{2323} = 8 \text{ prime}_{25}$$

$$[9240] \{1\} + 21031_{2367} = 30271_{prime_{26, 1}}$$

$$[9240] \{2\} + 21031_{2367} = 39511_{prime_{26, 2}}$$

$$[9240] \{3\} + 21031_{2367} = 48751_{prime_{26, 3}}$$

$$[9240] \{4\} + 21031_{2367} = 57991_{prime_{26, 4}}$$

$$[9240] \{5\} + 21031_{2367} = 67231_{prime_{26, 5}}$$

$$[9240] \{6\} + 21031_{2367} = 76471_{prime_{26, 6}}$$

$$[9240] \{7\} + 21031_{2367} = 85711_{prime_{26, 7}}$$

$$[9240] \{8\} + 21031_{2367} = 94951_{prime_{26, 8}}$$

$$\{[9240] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 21031_{2367} = 8 \text{ prime}_{26}$$

$$[2520] \{1\} + 23509_{2614} = 26029_{prime_{27, 1}}$$

$$[2520] \{2\} + 23509_{2614} = 28549_{prime_{27, 2}}$$

$$[2520] \{3\} + 23509_{2614} = 31069_{prime_{27, 3}}$$

$$[2520] \{4\} + 23509_{2614} = 33589_{prime_{27, 4}}$$

$$[2520] \{5\} + 23509_{2614} = 36109_{prime_{27, 5}}$$

$$[2520] \{6\} + 23509_{2614} = 38629_{prime_{27, 6}}$$

$$[2520] \{7\} + 23509_{2614} = 41149_{prime_{27, 7}}$$

$$[2520] \{8\} + 23509_{2614} = 43669_{prime_{27, 8}}$$

$$\{[2520] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 23509_{2614} = 8 \text{ prime}_{27}$$

$$[7980] \{1\} + 24029_{2673} = 32009_{prime_{28, 1}}$$

$$[7980] \{2\} + 24029_{2673} = 39989_{prime_{28, 2}}$$

$$[7980] \{3\} + 24029_{2673} = 47969_{prime_{28, 3}}$$

$$[7980] \{4\} + 24029_{2673} = 55949_{prime_{28, 4}}$$

$$[7980] \{5\} + 24029_{2673} = 63929_{prime_{28, 5}}$$

$$[7980] \{6\} + 24029_{2673} = 71909_{prime_{28, 6}}$$

$$[7980] \{7\} + 24029_{2673} = 79889_{prime_{28, 7}}$$

$$[7980] \{8\} + 24029_{2673} = 87869_{prime_{28, 8}}$$

$$\{[7980] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 24029_{2673} = 8 \text{ prime}_{28}$$

$$[3150] \{1\} + 24677_{2732} = 27827_{\text{prime}_{29, 1}}$$

$$[3150] \{2\} + 24677_{2732} = 30977_{\text{prime}_{29, 2}}$$

$$[3150] \{3\} + 24677_{2732} = 34127_{\text{prime}_{29, 3}}$$

$$[3150] \{4\} + 24677_{2732} = 37277_{\text{prime}_{29, 4}}$$

$$[3150] \{5\} + 24677_{2732} = 40427_{\text{prime}_{29, 5}}$$

$$[3150] \{6\} + 24677_{2732} = 43577_{\text{prime}_{29, 6}}$$

$$[3150] \{7\} + 24677_{2732} = 46727_{\text{prime}_{29, 7}}$$

$$[3150] \{8\} + 24677_{2732} = 49877_{\text{prime}_{29, 8}}$$

$$\{[3150] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 24677_{2732} = 8 \text{ prime}_{29}$$

$$[5040] \{1\} + 25073_{2768} = 30113_{\text{prime}_{30, 1}}$$

$$[5040] \{2\} + 25073_{2768} = 35153_{\text{prime}_{30, 2}}$$

$$[5040] \{3\} + 25073_{2768} = 40193_{\text{prime}_{30, 3}}$$

$$[5040] \{4\} + 25073_{2768} = 45233_{\text{prime}_{30, 4}}$$

$$[5040] \{5\} + 25073_{2768} = 50273_{\text{prime}_{30, 5}}$$

$$[5040] \{6\} + 25073_{2768} = 55313_{\text{prime}_{30, 6}}$$

$$[5040] \{7\} + 25073_{2768} = 60353_{\text{prime}_{30, 7}}$$

$$[5040] \{8\} + 25073_{2768} = 65393_{\text{prime}_{30, 8}}$$

$$\{[5040] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 25073_{2768} = 8 \text{ prime}_{30}$$

$$[7770] \{1\} + 28549_{3106} = 36319_{\text{prime}_{31, 1}}$$

$$[7770] \{2\} + 28549_{3106} = 44089_{\text{prime}_{31, 2}}$$

$$[7770] \{3\} + 28549_{3106} = 51859_{\text{prime}_{31, 3}}$$

$$[7770] \{4\} + 28549_{3106} = 59629_{\text{prime}_{31, 4}}$$

$$[7770] \{5\} + 28549_{3106} = 67399_{\text{prime}_{31, 5}}$$

$$[7770] \{6\} + 28549_{3106} = 75169_{\text{prime}_{31, 6}}$$

$$[7770] \{7\} + 28549_{3106} = 82939_{\text{prime}_{31, 7}}$$

$$[7770] \{8\} + 28549_{3106} = 90709_{\text{prime}_{31, 8}}$$

$$[7770] \{9\} + 28549_{3106} = 98479_{\text{prime}_{31, 9}}$$

$$\{[7770] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}\} + 28549_{3106} = 9 \text{ prime}_{31}$$

$$[7560] \{1\} + 29387_{3192} = 36947_{\text{prime}_{32, 1}}$$

$$[7560] \{2\} + 29387_{3192} = 44507_{\text{prime}_{32, 2}}$$

$$[7560] \{3\} + 29387_{3192} = 52067_{\text{prime}_{32, 3}}$$

$$[7560] \{4\} + 29387_{3192} = 59627_{\text{prime}_{32, 4}}$$

$$[7560] \{5\} + 29387_{3192} = 67187_{\text{prime}_{32, 5}}$$

$$[7560] \{6\} + 29387_{3192} = 74747_{\text{prime}_{32, 6}}$$

$$[7560] \{7\} + 29387_{3192} = 82307_{\text{prime}_{32, 7}}$$

$$[7560] \{8\} + 29387_{3192} = 89867_{\text{prime}_{32, 8}}$$

$$\{[7560] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 29387_{3192} = 8 \text{ prime}_{32}$$

$$[4830] \{1\} + 30427_{3286} = 35257_{\text{prime}_{33, 1}}$$

$$[4830] \{2\} + 30427_{3286} = 40087_{\text{prime}_{33, 2}}$$

$$[4830] \{3\} + 30427_{3286} = 44917_{\text{prime}_{33, 3}}$$

$$[4830] \{4\} + 30427_{3286} = 49747_{\text{prime}_{33, 4}}$$

$$[4830] \{5\} + 30427_{3286} = 54577_{\text{prime}_{33, 5}}$$

$$[4830] \{6\} + 30427_{3286} = 59407_{\text{prime}_{33, 6}}$$

$$[4830] \{7\} + 30427_{3286} = 64237_{\text{prime}_{33, 7}}$$

$$[4830] \{8\} + 30427_{3286} = 69067_{\text{prime}_{33, 8}}$$

$$[4830] \{9\} + 30427_{3286} = 73897_{\text{prime}_{33, 9}}$$

$$\{[4830] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}\} + 30427_{3286} = 9 \text{ prime}_{33}$$

$$[1680] \{1\} + 31333_{3378} = 33013_{\text{prime}_{34, 1}}$$

$$[1680] \{2\} + 31333_{3378} = 34693_{\text{prime}_{34, 2}}$$

$$[1680] \{3\} + 31333_{3378} = 36373_{\text{prime}_{34, 3}}$$

$$[1680] \{4\} + 31333_{3378} = 38053_{\text{prime}_{34, 4}}$$

$$[1680] \{5\} + 31333_{3378} = 39733_{\text{prime}_{34, 5}}$$

$$[1680] \{6\} + 31333_{3378} = 41413_{\text{prime}_{34, 6}}$$

$$[1680] \{7\} + 31333_{3378} = 43093_{\text{prime}_{34, 7}}$$

$$[1680] \{8\} + 31333_{3378} = 44773_{\text{prime}_{34, 8}}$$

$$\{[1680] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 31333_{3378} = 8 \text{ prime}_{34}$$

$$[7980] \{1\} + 31393_{3384} = 39373_{\text{prime}_{35, 1}}$$

$$[7980] \{2\} + 31393_{3384} = 47353_{\text{prime}_{35, 2}}$$

$$[7980] \{3\} + 31393_{3384} = 55333_{\text{prime}_{35, 3}}$$

$$[7980] \{4\} + 31393_{3384} = 63313_{\text{prime}_{35, 4}}$$

$$[7980] \{5\} + 31393_{3384} = 71293_{\text{prime}_{35, 5}}$$

$$[7980] \{6\} + 31393_{3384} = 79273_{\text{prime}_{35, 6}}$$

$$[7980] \{7\} + 31393_{3384} = 87253_{\text{prime}_{35, 7}}$$

$$[7980] \{8\} + 31393_{3384} = 95233_{\text{prime}_{35, 8}}$$

$$\{[7980] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 31393_{3384} = 8 \text{ prime}_{35}$$

$$[2100] \{1\} + 34913_{3726} = 37013_{\text{prime}_{36, 1}}$$

$$[2100] \{2\} + 34913_{3726} = 39113_{\text{prime}_{36, 2}}$$

$$[2100] \{3\} + 34913_{3726} = 41213_{\text{prime}_{36, 3}}$$

$$[2100] \{4\} + 34913_{3726} = 43313_{\text{prime}_{36, 4}}$$

$$[2100] \{5\} + 34913_{3726} = 45413_{\text{prime}_{36, 5}}$$

$$[2100] \{6\} + 34913_{3726} = 47513_{\text{prime}_{36, 6}}$$

$$[2100] \{7\} + 34913_{3726} = 49613_{\text{prime}_{36, 7}}$$

$$[2100] \{8\} + 34913_{3726} = 51713_{\text{prime}_{36, 8}}$$

$$[2100] \{9\} + 34913_{3726} = 53813_{\text{prime}_{36, 9}}$$

$$\{[2100] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}\} + 34913_{3726} = 9 \text{ prime}_{36}$$

$$[4830] \{1\} + 35257_{3756} = 40087_{\text{prime}_{37, 1}}$$

$$[4830] \{2\} + 35257_{3756} = 44917_{\text{prime}_{37, 2}}$$

$$[4830] \{3\} + 35257_{3756} = 49747_{\text{prime}_{37, 3}}$$

$$[4830] \{4\} + 35257_{3756} = 54577_{\text{prime}_{37, 4}}$$

$$[4830] \{5\} + 35257_{3756} = 59407_{\text{prime}_{37, 5}}$$

$$[4830] \{6\} + 35257_{3756} = 64237_{\text{prime}_{37, 6}}$$

$$[4830] \{7\} + 35257_{3756} = 69067_{\text{prime}_{37, 7}}$$

$$[4830] \{8\} + 35257_{3756} = 73897_{\text{prime}_{37, 8}}$$

$$\{[4830] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 35257_{3756} = 8 \text{ prime}_{37}$$

$$[8190] \{1\} + 35591_{3789} = 43781_{\text{prime}_{38, 1}}$$

$$[8190] \{2\} + 35591_{3789} = 51971_{\text{prime}_{38, 2}}$$

$$[8190] \{3\} + 35591_{3789} = 60161_{\text{prime}_{38, 3}}$$

$$[8190] \{4\} + 35591_{3789} = 68351_{\text{prime}_{38, 4}}$$

$$[8190] \{5\} + 35591_{3789} = 76541_{\text{prime}_{38, 5}}$$

$$[8190] \{6\} + 35591_{3789} = 84731_{\text{prime}_{38, 6}}$$

$$[8190] \{7\} + 35591_{3789} = 92921_{\text{prime}_{38, 7}}$$

$$[8190] \{8\} + 35591_{3789} = 101111_{\text{prime}_{38, 8}}$$

$$\{[8190] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 35591_{3789} = 8 \text{ prime}_{38}$$

$$[7770] \{1\} + 36319_{3855} = 44089_{\text{prime}_{39, 1}}$$

$$[7770] \{2\} + 36319_{3855} = 51859_{\text{prime}_{39, 2}}$$

$$[7770] \{3\} + 36319_{3855} = 59629_{\text{prime}_{39, 3}}$$

$$[7770] \{4\} + 36319_{3855} = 67399_{\text{prime}_{39, 4}}$$

$$[7770] \{5\} + 36319_{3855} = 75169_{\text{prime}_{39, 5}}$$

$$[7770] \{6\} + 36319_{3855} = 82939_{\text{prime}_{39, 6}}$$

$$[7770] \{7\} + 36319_{3855} = 90709_{\text{prime}_{39, 7}}$$

$$[7770] \{8\} + 36319_{3855} = 98479_{\text{prime}_{39, 8}}$$

$$\{[7770] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 36319_{3855} = 8 \text{ prime}_{39}$$

$$[6930] \{1\} + 36469_{3866} = 43399_{\text{prime}_{40, 1}}$$

$$[6930] \{2\} + 36469_{3866} = 50329_{\text{prime}_{40, 2}}$$

$$[6930] \{3\} + 36469_{3866} = 57259_{\text{prime}_{40, 3}}$$

$$[6930] \{4\} + 36469_{3866} = 64189_{\text{prime}_{40, 4}}$$

$$[6930] \{5\} + 36469_{3866} = 71119_{\text{prime}_{40, 5}}$$

$$[6930] \{6\} + 36469_{3866} = 78049_{\text{prime}_{40, 6}}$$

$$[6930] \{7\} + 36469_{3866} = 84979_{\text{prime}_{40, 7}}$$

$$[6930] \{8\} + 36469_{3866} = 91909_{\text{prime}_{40, 8}}$$

$$\{[6930] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 36469_{3866} = 8 \text{ prime}_{40}$$

$$[2100] \{1\} + 37013_{3925} = 39113_{prime_{41, 1}}$$

$$[2100] \{2\} + 37013_{3925} = 41213_{prime_{41, 2}}$$

$$[2100] \{3\} + 37013_{3925} = 43313_{prime_{41, 3}}$$

$$[2100] \{4\} + 37013_{3925} = 45413_{prime_{41, 4}}$$

$$[2100] \{5\} + 37013_{3925} = 47513_{prime_{41, 5}}$$

$$[2100] \{6\} + 37013_{3925} = 49613_{prime_{41, 6}}$$

$$[2100] \{7\} + 37013_{3925} = 51713_{prime_{41, 7}}$$

$$[2100] \{8\} + 37013_{3925} = 53813_{prime_{41, 8}}$$

$$\{[2100] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 37013_{3925} = 8 \text{ prime}_{41}$$

$$[6930] \{1\} + 38261_{4038} = 45191_{prime_{42, 1}}$$

$$[6930] \{2\} + 38261_{4038} = 52121_{prime_{42, 2}}$$

$$[6930] \{3\} + 38261_{4038} = 59051_{prime_{42, 3}}$$

$$[6930] \{4\} + 38261_{4038} = 65981_{prime_{42, 4}}$$

$$[6930] \{5\} + 38261_{4038} = 72911_{prime_{42, 5}}$$

$$[6930] \{6\} + 38261_{4038} = 79841_{prime_{42, 6}}$$

$$[6930] \{7\} + 38261_{4038} = 86771_{prime_{42, 7}}$$

$$[6930] \{8\} + 38261_{4038} = 93701_{prime_{42, 8}}$$

$$\{[6930] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 38261_{4038} = 8 \text{ prime}_{42}$$

$$[5250] \{1\} + 44179_{4598} = 49429_{prime_{43, 1}}$$

$$[5250] \{2\} + 44179_{4598} = 54679_{prime_{43, 2}}$$

$$[5250] \{3\} + 44179_{4598} = 59929_{prime_{43, 3}}$$

$$[5250] \{4\} + 44179_{4598} = 65179_{prime_{43, 4}}$$

$$[5250] \{5\} + 44179_{4598} = 70429_{prime_{43, 5}}$$

$$[5250] \{6\} + 44179_{4598} = 75679_{prime_{43, 6}}$$

$$[5250] \{7\} + 44179_{4598} = 80929_{prime_{43, 7}}$$

$$[5250] \{8\} + 44179_{4598} = 86179_{prime_{43, 8}}$$

$$\{[5250] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 44179_{4598} = 8 \text{ prime}_{43}$$

$$[1890] \{1\} + 45767_{4742} = 47657_{prime_{44, 1}}$$

$$[1890] \{2\} + 45767_{4742} = 49547_{prime_{44, 2}}$$

$$[1890] \{3\} + 45767_{4742} = 51437_{prime_{44, 3}}$$

$$[1890] \{4\} + 45767_{4742} = 53327_{prime_{44, 4}}$$

$$[1890] \{5\} + 45767_{4742} = 55217_{prime_{44, 5}}$$

$$[1890] \{6\} + 45767_{4742} = 57107_{prime_{44, 6}}$$

$$[1890] \{7\} + 45767_{4742} = 58997_{prime_{44, 7}}$$

$$[1890] \{8\} + 45767_{4742} = 60887_{prime_{44, 8}}$$

$$\{[1890] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 45767_{4742} = 8 \text{ prime}_{44}$$

$$[3150] \{1\} + 49031_{5039} = 52181_{prime_{45, 1}}$$

$$[3150] \{2\} + 49031_{5039} = 55331_{prime_{45, 2}}$$

$$[3150] \{3\} + 49031_{5039} = 58481_{prime_{45, 3}}$$

$$[3150] \{4\} + 49031_{5039} = 61631_{prime_{45, 4}}$$

$$[3150] \{5\} + 49031_{5039} = 64781_{prime_{45, 5}}$$

$$[3150] \{6\} + 49031_{5039} = 67931_{prime_{45, 6}}$$

$$[3150] \{7\} + 49031_{5039} = 71081_{prime_{45, 7}}$$

$$[3150] \{8\} + 49031_{5039} = 74231_{prime_{45, 8}}$$

$$\{[3150] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 49031_{5039} = 8 \text{ prime}_{45}$$

$$[420] \{1\} + 52879_{5395} = 53299_{prime_{46, 1}}$$

$$[420] \{2\} + 52879_{5395} = 53719_{prime_{46, 2}}$$

$$[420] \{3\} + 52879_{5395} = 54139_{prime_{46, 3}}$$

$$[420] \{4\} + 52879_{5395} = 54559_{prime_{46, 4}}$$

$$[420] \{5\} + 52879_{5395} = 54979_{prime_{46, 5}}$$

$$[420] \{6\} + 52879_{5395} = 55399_{prime_{46, 6}}$$

$$[420] \{7\} + 52879_{5395} = 55819_{prime_{46, 7}}$$

$$[420] \{8\} + 52879_{5395} = 56239_{prime_{46, 8}}$$

$$[420] \{9\} + 52879_{5395} = 56659_{prime_{46, 9}}$$

$$\{[420] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}\} + 52879_{5395} = 9 \text{ prime}_{46}$$

$$[420] \{1\} + 53299_{5437} = 53719_{prime_{47, 1}}$$

$$[420] \{2\} + 53299_{5437} = 54139_{prime_{47, 2}}$$

$$[420] \{3\} + 53299_{5437} = 54559_{prime_{47, 3}}$$

$$[420] \{4\} + 53299_{5437} = 54979_{prime_{47, 4}}$$

$$[420] \{5\} + 53299_{5437} = 55399_{prime_{47, 5}}$$

$$[420] \{6\} + 53299_{5437} = 55819_{prime_{47, 6}}$$

$$[420] \{7\} + 53299_{5437} = 56239_{prime_{47, 7}}$$

$$[420] \{8\} + 53299_{5437} = 56659_{prime_{47, 8}}$$

$$\{[420] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 53299_{5437} = 8 \text{ prime}_{47}$$

$$[9240] \{1\} + 53681_{5471} = 62921_{prime_{48, 1}}$$

$$[9240] \{2\} + 53681_{5471} = 72161_{prime_{48, 2}}$$

$$[9240] \{3\} + 53681_{5471} = 81401_{prime_{48, 3}}$$

$$[9240] \{4\} + 53681_{5471} = 90641_{prime_{48, 4}}$$

$$[9240] \{5\} + 53681_{5471} = 99881_{prime_{48, 5}}$$

$$[9240] \{6\} + 53681_{5471} = 109121_{prime_{48, 6}}$$

$$[9240] \{7\} + 53681_{5471} = 118361_{prime_{48, 7}}$$

$$[9240] \{8\} + 53681_{5471} = 127601_{prime_{48, 8}}$$

$$[9240] \{9\} + 53681_{5471} = 136841_{prime_{48, 9}}$$

$$\{[9240] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}\} + 53681_{5471} = 9 \text{ prime}_{48}$$

$$[4620] \{1\} + 55697_{5653} = 60317_{prime_{49, 1}}$$

$$[4620] \{2\} + 55697_{5653} = 64937_{prime_{49, 2}}$$

$$[4620] \{3\} + 55697_{5653} = 69557_{prime_{49, 3}}$$

$$[4620] \{4\} + 55697_{5653} = 74177_{prime_{49, 4}}$$

$$[4620] \{5\} + 55697_{5653} = 78797_{prime_{49, 5}}$$

$$[4620] \{6\} + 55697_{5653} = 83417_{prime_{49, 6}}$$

$$[4620] \{7\} + 55697_{5653} = 88037_{prime_{49, 7}}$$

$$[4620] \{8\} + 55697_{5653} = 92657_{prime_{49, 8}}$$

$$\{[4620] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 55697_{5653} = 8 \text{ prime}_{49}$$

$$[420] \{1\} + 56267_{5708} = 56687_{prime_{50, 1}}$$

$$[420] \{2\} + 56267_{5708} = 57107_{prime_{50, 2}}$$

$$[420] \{3\} + 56267_{5708} = 57527_{prime_{50, 3}}$$

$$[420] \{4\} + 56267_{5708} = 57947_{prime_{50, 4}}$$

$$[420] \{5\} + 56267_{5708} = 58367_{prime_{50, 5}}$$

$$[420] \{6\} + 56267_{5708} = 58787_{prime_{50, 6}}$$

$$[420] \{7\} + 56267_{5708} = 59207_{prime_{50, 7}}$$

$$[420] \{8\} + 56267_{5708} = 59627_{prime_{50, 8}}$$

$$\{[420] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 56267_{5708} = 8 \text{ prime}_{50}$$

$$[3570] \{1\} + 57047_{5785} = 60617_{prime_{51, 1}}$$

$$[3570] \{2\} + 57047_{5785} = 64187_{prime_{51, 2}}$$

$$[3570] \{3\} + 57047_{5785} = 67757_{prime_{51, 3}}$$

$$[3570] \{4\} + 57047_{5785} = 71327_{prime_{51, 4}}$$

$$[3570] \{5\} + 57047_{5785} = 74897_{prime_{51, 5}}$$

$$[3570] \{6\} + 57047_{5785} = 78467_{prime_{51, 6}}$$

$$[3570] \{7\} + 57047_{5785} = 82037_{prime_{51, 7}}$$

$$[3570] \{8\} + 57047_{5785} = 85607_{prime_{51, 8}}$$

$$\{[3570] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 57047_{5785} = 8 \text{ prime}_{51}$$

$$[5040] \{1\} + 57457_{5824} = 62497_{prime_{52, 1}}$$

$$[5040] \{2\} + 57457_{5824} = 67537_{prime_{52, 2}}$$

$$[5040] \{3\} + 57457_{5824} = 72577_{prime_{52, 3}}$$

$$[5040] \{4\} + 57457_{5824} = 77617_{prime_{52, 4}}$$

$$[5040] \{5\} + 57457_{5824} = 82657_{prime_{52, 5}}$$

$$[5040] \{6\} + 57457_{5824} = 87697_{prime_{52, 6}}$$

$$[5040] \{7\} + 57457_{5824} = 92737_{prime_{52, 7}}$$

$$[5040] \{8\} + 57457_{5824} = 97777_{prime_{52, 8}}$$

$$\{[5040] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 57457_{5824} = 8 \text{ prime}_{52}$$

$$[8190] \{1\} + 59021_{5966} = 67211_{prime_{53, 1}}$$

$$[8190] \{2\} + 59021_{5966} = 75401_{prime_{53, 2}}$$

$$[8190] \{3\} + 59021_{5966} = 83591_{prime_{53, 3}}$$

$$[8190] \{4\} + 59021_{5966} = 91781_{prime_{53, 4}}$$

$$[8190] \{5\} + 59021_{5966} = 99971_{prime_{53, 5}}$$

$$[8190] \{6\} + 59021_{5966} = 108161_{prime_{53, 6}}$$

$$[8190] \{7\} + 59021_{5966} = 116351_{prime_{53, 7}}$$

$$[8190] \{8\} + 59021_{5966} = 124541_{prime_{53, 8}}$$

$$\{[8190] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 59021_{5966} = 8 \text{ prime}_{53}$$

$$[2310] \{1\} + 60317_{6086} = 62627_{prime_{54, 1}}$$

$$[2310] \{2\} + 60317_{6086} = 64937_{prime_{54, 2}}$$

$$[2310] \{3\} + 60317_{6086} = 67247_{prime_{54, 3}}$$

$$[2310] \{4\} + 60317_{6086} = 69557_{prime_{54, 4}}$$

$$[2310] \{5\} + 60317_{6086} = 71867_{prime_{54, 5}}$$

$$[2310] \{6\} + 60317_{6086} = 74177_{prime_{54, 6}}$$

$$[2310] \{7\} + 60317_{6086} = 76487_{prime_{54, 7}}$$

$$[2310] \{8\} + 60317_{6086} = 78797_{prime_{54, 8}}$$

$$\{[2310] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 60317_{6086} = 8 \text{ prime}_{54}$$

$$[420] \{1\} + 61637_{6201} = 62057_{prime_{55, 1}}$$

$$[420] \{2\} + 61637_{6201} = 62477_{prime_{55, 2}}$$

$$[420] \{3\} + 61637_{6201} = 62897_{prime_{55, 3}}$$

$$[420] \{4\} + 61637_{6201} = 63317_{prime_{55, 4}}$$

$$[420] \{5\} + 61637_{6201} = 63737_{prime_{55, 5}}$$

$$[420] \{6\} + 61637_{6201} = 64157_{prime_{55, 6}}$$

$$[420] \{7\} + 61637_{6201} = 64577_{prime_{55, 7}}$$

$$[420] \{8\} + 61637_{6201} = 64997_{prime_{55, 8}}$$

$$\{[420] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 61637_{6201} = 8 \text{ prime}_{55}$$

$$[6720] \{1\} + 62347_{6264} = 69067_{prime_{56, 1}}$$

$$[6720] \{2\} + 62347_{6264} = 75787_{prime_{56, 2}}$$

$$[6720] \{3\} + 62347_{6264} = 82507_{prime_{56, 3}}$$

$$[6720] \{4\} + 62347_{6264} = 89227_{prime_{56, 4}}$$

$$[6720] \{5\} + 62347_{6264} = 95947_{prime_{56, 5}}$$

$$[6720] \{6\} + 62347_{6264} = 102667_{prime_{56, 6}}$$

$$[6720] \{7\} + 62347_{6264} = 109387_{prime_{56, 7}}$$

$$[6720] \{8\} + 62347_{6264} = 116107_{prime_{56, 8}}$$

$$[6720] \{9\} + 62347_{6264} = 122827_{prime_{56, 9}}$$

$$\{[6720] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}\} + 62347_{6264} = 9 \text{ prime}_{56}$$

$$[9240] \{1\} + 62921_{6311} = 72161_{prime_{57, 1}}$$

$$[9240] \{2\} + 62921_{6311} = 81401_{prime_{57, 2}}$$

$$[9240] \{3\} + 62921_{6311} = 90641_{prime_{57, 3}}$$

$$[9240] \{4\} + 62921_{6311} = 99881_{prime_{57, 4}}$$

$$[9240] \{5\} + 62921_{6311} = 109121_{prime_{57, 5}}$$

$$[9240] \{6\} + 62921_{6311} = 118361_{prime_{57, 6}}$$

$$[9240] \{7\} + 62921_{6311} = 127601_{prime_{57, 7}}$$

$$[9240] \{8\} + 62921_{6311} = 136841_{prime_{57, 8}}$$

$$\{[9240] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 62921_{6311} = 8 \text{ prime}_{57}$$

$$[4620] \{1\} + 64919_{6487} = 69539_{prime_{58, 1}}$$

$$[4620] \{2\} + 64919_{6487} = 74159_{prime_{58, 2}}$$

$$[4620] \{3\} + 64919_{6487} = 78779_{prime_{58, 3}}$$

$$[4620] \{4\} + 64919_{6487} = 83399_{prime_{58, 4}}$$

$$[4620] \{5\} + 64919_{6487} = 88019_{prime_{58, 5}}$$

$$[4620] \{6\} + 64919_{6487} = 92639_{prime_{58, 6}}$$

$$[4620] \{7\} + 64919_{6487} = 97259_{prime_{58, 7}}$$

$$[4620] \{8\} + 64919_{6487} = 101879_{prime_{58, 8}}$$

$$\{[4620] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 64919_{6487} = 8 \text{ prime}_{58}$$

$$[2730] \{1\} + 65881_{6581} = 68611_{prime_{59, 1}}$$

$$[2730] \{2\} + 65881_{6581} = 71341_{prime_{59, 2}}$$

$$[2730] \{3\} + 65881_{6581} = 74071_{prime_{59, 3}}$$

$$[2730] \{4\} + 65881_{6581} = 76801_{prime_{59, 4}}$$

$$[2730] \{5\} + 65881_{6581} = 79531_{prime_{59, 5}}$$

$$[2730] \{6\} + 65881_{6581} = 82261_{prime_{59, 6}}$$

$$[2730] \{7\} + 65881_{6581} = 84991_{prime_{59, 7}}$$

$$[2730] \{8\} + 65881_{6581} = 87721_{prime_{59, 8}}$$

$$\{[2730] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 65881_{6581} = 8 \text{ prime}_{59}$$

$$[6720] \{1\} + 69067_{6861} = 75787_{prime_{60, 1}}$$

$$[6720] \{2\} + 69067_{6861} = 82507_{prime_{60, 2}}$$

$$[6720] \{3\} + 69067_{6861} = 89227_{prime_{60, 3}}$$

$$[6720] \{4\} + 69067_{6861} = 95947_{prime_{60, 4}}$$

$$[6720] \{5\} + 69067_{6861} = 102667_{prime_{60, 5}}$$

$$[6720] \{6\} + 69067_{6861} = 109387_{prime_{60, 6}}$$

$$[6720] \{7\} + 69067_{6861} = 116107_{prime_{60, 7}}$$

$$[6720] \{8\} + 69067_{6861} = 122827_{prime_{60, 8}}$$

$$\{[6720] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 69067_{6861} = 8 \text{ prime}_{60}$$

$$[4830] \{1\} + 72547_{7175} = 77377_{prime_{61, 1}}$$

$$[4830] \{2\} + 72547_{7175} = 82207_{prime_{61, 2}}$$

$$[4830] \{3\} + 72547_{7175} = 87037_{prime_{61, 3}}$$

$$[4830] \{4\} + 72547_{7175} = 91867_{prime_{61, 4}}$$

$$[4830] \{5\} + 72547_{7175} = 96697_{prime_{61, 5}}$$

$$[4830] \{6\} + 72547_{7175} = 101527_{prime_{61, 6}}$$

$$[4830] \{7\} + 72547_{7175} = 106357_{prime_{61, 7}}$$

$$[4830] \{8\} + 72547_{7175} = 111187_{prime_{61, 8}}$$

$$\{[4830] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 72547_{7175} = 8 \text{ prime}_{61}$$

$$[2310] \{1\} + 80761_{7904} = 83071_{prime_{62, 1}}$$

$$[2310] \{2\} + 80761_{7904} = 85381_{prime_{62, 2}}$$

$$[2310] \{3\} + 80761_{7904} = 87691_{prime_{62, 3}}$$

$$[2310] \{4\} + 80761_{7904} = 90001_{prime_{62, 4}}$$

$$[2310] \{5\} + 80761_{7904} = 92311_{prime_{62, 5}}$$

$$[2310] \{6\} + 80761_{7904} = 94621_{prime_{62, 6}}$$

$$[2310] \{7\} + 80761_{7904} = 96931_{prime_{62, 7}}$$

$$[2310] \{8\} + 80761_{7904} = 99241_{prime_{62, 8}}$$

$$\{[2310] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 80761_{7904} = 8 \text{ prime}_{62}$$

$$[8820] \{1\} + 84421_{8228} = 93241_{prime_{63, 1}}$$

$$[8820] \{2\} + 84421_{8228} = 102061_{prime_{63, 2}}$$

$$[8820] \{3\} + 84421_{8228} = 110881_{prime_{63, 3}}$$

$$[8820] \{4\} + 84421_{8228} = 119701_{prime_{63, 4}}$$

$$[8820] \{5\} + 84421_{8228} = 128521_{prime_{63, 5}}$$

$$[8820] \{6\} + 84421_{8228} = 137341_{prime_{63, 6}}$$

$$[8820] \{7\} + 84421_{8228} = 146161_{prime_{63, 7}}$$

$$[8820] \{8\} + 84421_{8228} = 154981_{prime_{63, 8}}$$

$$\{[8820] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 84421_{8228} = 8 \text{ prime}_{63}$$

$$[4620] \{1\} + 85363_{8310} = 89983_{prime_{64, 1}}$$

$$[4620] \{2\} + 85363_{8310} = 94603_{prime_{64, 2}}$$

$$[4620] \{3\} + 85363_{8310} = 99223_{prime_{64, 3}}$$

$$[4620] \{4\} + 85363_{8310} = 103843_{prime_{64, 4}}$$

$$[4620] \{5\} + 85363_{8310} = 108463_{prime_{64, 5}}$$

$$[4620] \{6\} + 85363_{8310} = 113083_{prime_{64, 6}}$$

$$[4620] \{7\} + 85363_{8310} = 117703_{prime_{64, 7}}$$

$$[4620] \{8\} + 85363_{8310} = 122323_{prime_{64, 8}}$$

$$[4620] \{9\} + 85363_{8310} = 126943_{prime_{64, 9}}$$

$$\{[4620] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}\} + 85363_{8310} = 9 \text{ prime}_{64}$$

$$[4200] \{1\} + 89899_{8704} = 94099_{prime_{65, 1}}$$

$$[4200] \{2\} + 89899_{8704} = 98299_{prime_{65, 2}}$$

$$[4200] \{3\} + 89899_{8704} = 102499_{prime_{65, 3}}$$

$$[4200] \{4\} + 89899_{8704} = 106699_{prime_{65, 4}}$$

$$[4200] \{5\} + 89899_{8704} = 110899_{prime_{65, 5}}$$

$$[4200] \{6\} + 89899_{8704} = 115099_{prime_{65, 6}}$$

$$[4200] \{7\} + 89899_{8704} = 119299_{prime_{65, 7}}$$

$$[4200] \{8\} + 89899_{8704} = 123499_{prime_{65, 8}}$$

$$\{[4200] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 89899_{8704} = 8 \text{ prime}_{65}$$

$$[4620] \{1\} + 89983_{8712} = 94603_{prime_{66, 1}}$$

$$[4620] \{2\} + 89983_{8712} = 99223_{prime_{66, 2}}$$

$$[4620] \{3\} + 89983_{8712} = 103843_{prime_{66, 3}}$$

$$[4620] \{4\} + 89983_{8712} = 108463_{prime_{66, 4}}$$

$$[4620] \{5\} + 89983_{8712} = 113083_{prime_{66, 5}}$$

$$[4620] \{6\} + 89983_{8712} = 117703_{prime_{66, 6}}$$

$$[4620] \{7\} + 89983_{8712} = 122323_{prime_{66, 7}}$$

$$[4620] \{8\} + 89983_{8712} = 126943_{prime_{66, 8}}$$

$$\{[4620] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 89983_{8712} = 8 \text{ prime}_{66}$$

$$[7770] \{1\} + 90373_{8750} = 98143_{prime_{67, 1}}$$

$$[7770] \{2\} + 90373_{8750} = 105913_{prime_{67, 2}}$$

$$[7770] \{3\} + 90373_{8750} = 113683_{prime_{67, 3}}$$

$$[7770] \{4\} + 90373_{8750} = 121453_{prime_{67, 4}}$$

$$[7770] \{5\} + 90373_{8750} = 129223_{prime_{67, 5}}$$

$$[7770] \{6\} + 90373_{8750} = 136993_{prime_{67, 6}}$$

$$[7770] \{7\} + 90373_{8750} = 144763_{prime_{67, 7}}$$

$$[7770] \{8\} + 90373_{8750} = 152533_{prime_{67, 8}}$$

$$\{[7770] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 90373_{8750} = 8 \text{ prime}_{67}$$

$$[9240] \{1\} + 95339_{9192} = 104579_{prime_{68, 1}}$$

$$[9240] \{2\} + 95339_{9192} = 113819_{prime_{68, 2}}$$

$$[9240] \{3\} + 95339_{9192} = 123059_{prime_{68, 3}}$$

$$[9240] \{4\} + 95339_{9192} = 132299_{prime_{68, 4}}$$

$$[9240] \{5\} + 95339_{9192} = 141539_{prime_{68, 5}}$$

$$[9240] \{6\} + 95339_{9192} = 150779_{prime_{68,6}}$$

$$[9240] \{7\} + 95339_{9192} = 160019_{prime_{68,7}}$$

$$[9240] \{8\} + 95339_{9192} = 169259_{prime_{68,8}}$$

$$\{[9240] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 95339_{9192} = 8 \text{ prime}_{68}$$

$$[3990] \{1\} + 99877_{9583} = 103867_{prime_{69,1}}$$

$$[3990] \{2\} + 99877_{9583} = 107857_{prime_{69,2}}$$

$$[3990] \{3\} + 99877_{9583} = 111847_{prime_{69,3}}$$

$$[3990] \{4\} + 99877_{9583} = 115837_{prime_{69,4}}$$

$$[3990] \{5\} + 99877_{9583} = 119827_{prime_{69,5}}$$

$$[3990] \{6\} + 99877_{9583} = 123817_{prime_{69,6}}$$

$$[3990] \{7\} + 99877_{9583} = 127807_{prime_{69,7}}$$

$$[3990] \{8\} + 99877_{9583} = 131797_{prime_{69,8}}$$

$$[3990] \{9\} + 99877_{9583} = 135787_{prime_{69,9}}$$

$$\{[3990] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}\} + 99877_{9583} = 9 \text{ prime}_{69}$$

$$[1470] \{1\} + 101027_{9676} = 102497_{prime_{70,1}}$$

$$[1470] \{2\} + 101027_{9676} = 103967_{prime_{70,2}}$$

$$[1470] \{3\} + 101027_{9676} = 105437_{prime_{70,3}}$$

$$[1470] \{4\} + 101027_{9676} = 106907_{prime_{70,4}}$$

$$[1470] \{5\} + 101027_{9676} = 108377_{prime_{70,5}}$$

$$[1470] \{6\} + 101027_{9676} = 109847_{prime_{70,6}}$$

$$[1470] \{7\} + 101027_{9676} = 111317_{prime_{70,7}}$$

$$[1470] \{8\} + 101027_{9676} = 112787_{prime_{70,8}}$$

$$\{[1470] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 101027_{9676} = 8 \text{ prime}_{70}$$

$$[2100] \{1\} + 102871_{9844} = 104971_{prime_{71,1}}$$

$$[2100] \{2\} + 102871_{9844} = 107071_{prime_{71,2}}$$

$$[2100] \{3\} + 102871_{9844} = 109171_{prime_{71,3}}$$

$$[2100] \{4\} + 102871_{9844} = 111271_{prime_{71,4}}$$

$$[2100] \{5\} + 102871_{9844} = 113371_{prime_{71,5}}$$

$$\begin{aligned}
& [2100] \{6\} + 102871_{9844} = 115471_{prime_{71,6}} \\
& [2100] \{7\} + 102871_{9844} = 117571_{prime_{71,7}} \\
& [2100] \{8\} + 102871_{9844} = 119671_{prime_{71,8}} \\
& \{[2100] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 102871_{9844} = 8 \text{ prime}_{71} \\
& [840] \{1\} + 103837_{9917} = 104677_{prime_{72,1}} \\
& [840] \{2\} + 103837_{9917} = 105517_{prime_{72,2}} \\
& [840] \{3\} + 103837_{9917} = 106357_{prime_{72,3}} \\
& [840] \{4\} + 103837_{9917} = 107197_{prime_{72,4}} \\
& [840] \{5\} + 103837_{9917} = 108037_{prime_{72,5}} \\
& [840] \{6\} + 103837_{9917} = 108877_{prime_{72,6}} \\
& [840] \{7\} + 103837_{9917} = 109717_{prime_{72,7}} \\
& [840] \{8\} + 103837_{9917} = 110557_{prime_{72,8}} \\
& \{[840] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 103837_{9917} = 8 \text{ prime}_{72} \\
& [3990] \{1\} + 103867_{9920} = 107857_{prime_{73,1}} \\
& [3990] \{2\} + 103867_{9920} = 111847_{prime_{73,2}} \\
& [3990] \{3\} + 103867_{9920} = 115837_{prime_{73,3}} \\
& [3990] \{4\} + 103867_{9920} = 119827_{prime_{73,4}} \\
& [3990] \{5\} + 103867_{9920} = 123817_{prime_{73,5}} \\
& [3990] \{6\} + 103867_{9920} = 127807_{prime_{73,6}} \\
& [3990] \{7\} + 103867_{9920} = 131797_{prime_{73,7}} \\
& [3990] \{8\} + 103867_{9920} = 135787_{prime_{73,8}} \\
& \{[3990] \{M\}, M = \{1, 2, 3, 4, 5, 6, 7, 8\}\} + 103867_{9920} = 8 \text{ prime}_{73}
\end{aligned}$$

(4)

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> c := 0 :for h from 1 to 10000 do it := ithprime(h) :for n from 1 to 10000 do cfc := 0 :
  cf := 1 : for e from 1 to 12 do if cf=1 and isprime(it + n·10·e) then cfc := cfc + 1
  else cf := 0 : break if:od:if cfc > 9 then c := c + 1 :if cfc > 9 then for x from 1 to cfc
  do print([n]{10·x} + it[h] = (n·10·x + it)[prime[c, x]]) :od fi: print({[n]{M}, M
  = {seq(10·j, j = 1 ..cfc)}} + it[h] = (cfc)prime[c]) :break fi:od:od:
    [6006] {10} + 4943_{661} = 65003_{prime_{1,1}}
    [6006] {20} + 4943_{661} = 125063_{prime_{1,2}}
    [6006] {30} + 4943_{661} = 185123_{prime_{1,3}}

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$$[6006] \{40\} + 4943_{661} = 245183_{prime_{1,4}}$$

$$[6006] \{50\} + 4943_{661} = 305243_{prime_{1,5}}$$

$$[6006] \{60\} + 4943_{661} = 365303_{prime_{1,6}}$$

$$[6006] \{70\} + 4943_{661} = 425363_{prime_{1,7}}$$

$$[6006] \{80\} + 4943_{661} = 485423_{prime_{1,8}}$$

$$[6006] \{90\} + 4943_{661} = 545483_{prime_{1,9}}$$

$$[6006] \{100\} + 4943_{661} = 605543_{prime_{1,10}}$$

$$[6006] \{110\} + 4943_{661} = 665603_{prime_{1,11}}$$

$$[6006] \{120\} + 4943_{661} = 725663_{prime_{1,12}}$$

$$\{[6006] \{M\}, M = \{10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120\}\} + 4943_{661} = 12 \text{ prime}_1$$

$$[3003] \{10\} + 23143_{2583} = 53173_{prime_{2,1}}$$

$$[3003] \{20\} + 23143_{2583} = 83203_{prime_{2,2}}$$

$$[3003] \{30\} + 23143_{2583} = 113233_{prime_{2,3}}$$

$$[3003] \{40\} + 23143_{2583} = 143263_{prime_{2,4}}$$

$$[3003] \{50\} + 23143_{2583} = 173293_{prime_{2,5}}$$

$$[3003] \{60\} + 23143_{2583} = 203323_{prime_{2,6}}$$

$$[3003] \{70\} + 23143_{2583} = 233353_{prime_{2,7}}$$

$$[3003] \{80\} + 23143_{2583} = 263383_{prime_{2,8}}$$

$$[3003] \{90\} + 23143_{2583} = 293413_{prime_{2,9}}$$

$$[3003] \{100\} + 23143_{2583} = 323443_{prime_{2,10}}$$

$$[3003] \{110\} + 23143_{2583} = 353473_{prime_{2,11}}$$

$$\{[3003] \{M\}, M = \{10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110\}\} + 23143_{2583} = 11 \text{ prime}_2$$

$$[3003] \{10\} + 53173_{5426} = 83203_{prime_{3,1}}$$

$$[3003] \{20\} + 53173_{5426} = 113233_{prime_{3,2}}$$

$$[3003] \{30\} + 53173_{5426} = 143263_{prime_{3,3}}$$

$$[3003] \{40\} + 53173_{5426} = 173293_{prime_{3,4}}$$

$$[3003] \{50\} + 53173_{5426} = 203323_{prime_{3,5}}$$

$$[3003] \{60\} + 53173_{5426} = 233353_{prime_{3,6}}$$

$$[3003] \{70\} + 53173_{5426} = 263383_{prime_{3,7}}$$

$$[3003] \{80\} + 53173_{5426} = 293413_{prime_{3,8}}$$

$$[3003] \{90\} + 53173_{5426} = 323443_{prime_{3,9}}$$

$$[3003] \{100\} + 53173_{5426} = 353473_{prime_{3,10}}$$

$$\{[3003] \{M\}, M = \{10, 20, 30, 40, 50, 60, 70, 80, 90, 100\}\} + 53173_{5426} = 10 \text{ prime}_3$$

$$[6006] \{10\} + 65003_{6494} = 125063_{prime_{4,1}}$$

$$[6006] \{20\} + 65003_{6494} = 185123_{prime_{4,2}}$$

$$[6006] \{30\} + 65003_{6494} = 245183_{prime_{4,3}}$$

$$[6006] \{40\} + 65003_{6494} = 305243_{prime_{4,4}}$$

$$[6006] \{50\} + 65003_{6494} = 365303_{prime_{4,5}}$$

$$[6006] \{60\} + 65003_{6494} = 425363_{prime_{4,6}}$$

$$[6006] \{70\} + 65003_{6494} = 485423_{prime_{4,7}}$$

$$[6006] \{80\} + 65003_{6494} = 545483_{prime_{4,8}}$$

$$[6006] \{90\} + 65003_{6494} = 605543_{prime_{4,9}}$$

$$[6006] \{100\} + 65003_{6494} = 665603_{prime_{4,10}}$$

$$[6006] \{110\} + 65003_{6494} = 725663_{prime_{4,11}}$$

$$\{[6006] \{M\}, M = \{10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110\}\} + 65003_{6494} = 11 \text{ prime}_4$$

$$[3003] \{10\} + 75307_{7420} = 105337_{prime_{5,1}}$$

$$[3003] \{20\} + 75307_{7420} = 135367_{prime_{5,2}}$$

$$[3003] \{30\} + 75307_{7420} = 165397_{prime_{5,3}}$$

$$[3003] \{40\} + 75307_{7420} = 195427_{prime_{5,4}}$$

$$[3003] \{50\} + 75307_{7420} = 225457_{prime_{5,5}}$$

$$[3003] \{60\} + 75307_{7420} = 255487_{prime_{5,6}}$$

$$[3003] \{70\} + 75307_{7420} = 285517_{prime_{5,7}}$$

$$[3003] \{80\} + 75307_{7420} = 315547_{prime_{5,8}}$$

$$[3003] \{90\} + 75307_{7420} = 345577_{prime_{5,9}}$$

$$[3003] \{100\} + 75307_{7420} = 375607_{prime_{5,10}}$$

$$\{[3003] \{M\}, M = \{10, 20, 30, 40, 50, 60, 70, 80, 90, 100\}\} + 75307_{7420} = 10_{prime_5}$$

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