

# TABLE OF PRIME GAP CONSTELLATIONS

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ABSTRACT. We list the first elements of prime constellations with distances between the first and last prime at most 30.

## 1. NOTATION

A prime constellation is a sequence of two or more consecutive primes  $p, p + d_1, p + d_2, p + d_3, \dots$  with a prescribed set of distances  $d_1, d_2$  etc. [2, 1]. Some of these constellations do not exist, because one can show that at least one member of the list of primes in would have to be a multiple of a predictable factor  $f$ . (Exceptions occur when the  $f$  itself is a prime, which leads to a single multiplet of primes of that constellation.)

The following table shows in rows the numbers  $p + d_1, p + d_2, \dots$  up to the last element of the constellation; the  $p$  itself is implicit and omitted for brevity. The “forbidden” or “finite” constellations are followed by a colon, a  $f$  and the factor through which at least one member of the constellation were divisible in contradiction to the requirement of representing a set of *primes*. The other rows show the first *head* elements, which are those  $p$  which represent the multiplet of primes that belong to the constellation.

Many redundancies remain in this representation. If some  $p + d_1, p + d_2, \dots, p + d_i$  is “forbidden”, then certainly the augmented constellations  $p + d_1, p + d_2, \dots, p + d_i, p + d_j, \dots$  that start with the same gap sequence are also forbidden.

There are two types of subsequences:

- A non-forbidden constellation  $p, p + d_1, p + d_2, p + d_3$ , for example, has a sequence of head primes which is a subsequence of the head primes of the constellation truncated from the right, say  $p, p + d_1$  or  $p, p + d_1, p + d_2$ .
- A non-forbidden constellation  $p, p + d_1, p + d_2, p + d_3$  implies that the constellations generated by removal of elements from the left exist. The  $p + d_1$ , for example, is the header in a constellation  $p, p + (d_2 - d_1), p + (d_3 - d_1)$ , for example.

## 2. FURTHER LISTS

Representations of many of these lines are in the Online Encyclopedia of Integer Sequences (OEIS) [3]. To mention a few:

- Pairs:  $(p, p + 2)$  is A001359, the lower twin primes.  $(p, p + 4)$  is A023200.  $(p, p + 6)$  is A031924.  $(p, p + 8)$  is A031926.  $(p, p + 10)$  is A031928.  $(p, p + 12)$  is A031930.  $(p, p + 14)$  is A031930 and so on.

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- Tripels:  $(p, p+2, p+6)$  is A022004.  $(p, p+4, p+6)$  is A022005.  $(p, p+2, p+8)$  is A049437.  $(p, p+6, p+8)$  is A049438.  $(p, p+6, p+10)$  is A078562.  $(p, p+4, p+10)$  is A078561.  $(p, p+4, p+12)$  is A139385.  $(p, p+6, p+12)$  is A047948.
- Quartets:  $(p, p+2, p+6, p+8)$  is A007530.  $(p, p+4, p+6, p+10)$  is A052378.  $(p, p+2, p+6, p+12)$  is A078847.  $(p, p+4, p+6, p+12)$  is A078850.  $(p, p+2, p+8, p+12)$  is A078848.
- Quintets:  $(p, p+2, p+6, p+8, p+12)$  is A022006.  $(p, p+4, p+6, p+10, p+12)$  is A022007.  $(p, p+2, p+6, p+12, p+14)$  is A078946.  $(p, p+2, p+8, p+12, p+14)$  is A078948.
- Sextuples:  $(p, p+4, p+6, p+10, p+12, p+16)$  is A022008.

### 3. BASIC TABLE

The following table is complete up to 6-tuples with largest gap in the tuple  $\leq 30$  and complete for 7-tuples with largest gap  $\leq 26$ :

$p+2$  : A001359 3, 5, 11, 17, 29, 41, 59, 71, 101, 107, 137, 149, 179, 191, 197, 227, 239, 269, 281, 311, 347, 419, 431, 461, 521,

$p+2$   $p+4$  : 3, f3

$p+2$   $p+6$  : A022004 5, 11, 17, 41, 101, 107, 191, 227, 311, 347, 461, 641, 821, 857, 881, 1091, 1277, 1301, 1427, 1481, 1487, 1607, 1871, 1997, 2081,

$p+2$   $p+6$   $p+8$  : A007530 5, 11, 101, 191, 821, 1481, 1871, 2081, 3251, 3461, 5651, 9431, 13001, 15641, 15731, 16061, 18041, 18911, 19421, 21011, 22271, 25301, 31721, 34841, 43781,

$p+2$   $p+6$   $p+8$   $p+10$  : f3

$p+2$   $p+6$   $p+8$   $p+12$  : A022006 5, 11, 101, 1481, 16061, 19421, 21011, 22271, 43781, 55331, 144161, 165701, 166841, 195731, 201821, 225341, 247601, 268811, 326141, 347981, 361211, 397751, 465161,

$p+2$   $p+6$   $p+8$   $p+12$   $p+14$  : 5, f5

$p+2$   $p+6$   $p+8$   $p+12$   $p+16$  : f3

$p+2$   $p+6$   $p+8$   $p+12$   $p+18$  : 11, 1481, 165701, 326141,

$p+2$   $p+6$   $p+8$   $p+12$   $p+18$   $p+20$  : 11, 165701,

$p+2$   $p+6$   $p+8$   $p+12$   $p+18$   $p+22$  : f3

$p+2$   $p+6$   $p+8$   $p+12$   $p+18$   $p+24$  : f5

$p+2$   $p+6$   $p+8$   $p+12$   $p+18$   $p+26$  :

$p+2$   $p+6$   $p+8$   $p+12$   $p+18$   $p+28$  : f3

$p+2$   $p+6$   $p+8$   $p+12$   $p+20$  : 19421, 21011, 22271, 43781, 55331, 166841, 195731,

347981,

$p+2$   $p+6$   $p+8$   $p+12$   $p+20$   $p+22$  : f3

$p+2$   $p+6$   $p+8$   $p+12$   $p+20$   $p+24$  : f5

$p+2$   $p+6$   $p+8$   $p+12$   $p+20$   $p+26$  : 19421, 166841,

$p+2$   $p+6$   $p+8$   $p+12$   $p+20$   $p+28$  : f3

$p+2$   $p+6$   $p+8$   $p+12$   $p+22$  : f3

$p+2$   $p+6$   $p+8$   $p+12$   $p+24$  : f5

$p+2$   $p+6$   $p+8$   $p+12$   $p+26$  : 101, 16061, 201821, 361211, 465161,

$p+2$   $p+6$   $p+8$   $p+12$   $p+28$  : f3

$p+2$   $p+6$   $p+8$   $p+12$   $p+30$  : 225341, 268811,

$p+2$   $p+6$   $p+8$   $p+14$  : f5

$p+2$   $p+6$   $p+8$   $p+16$  : f3

$p+2$   $p+6$   $p+8$   $p+18$  : 821, 1871, 2081, 5651, 15731, 18041, 77261, 97841, 99131, 109841, 116531, 122201, 135461, 171161, 240041, 257861, 284741, 301991, 389561, 392261, 394811, 452531, 495611,

$p+2$   $p+6$   $p+8$   $p+18$   $p+20$  : 18041, 97841, 392261,

$p+2$   $p+6$   $p+8$   $p+18$   $p+20$   $p+22$  : f3

$p+2$   $p+6$   $p+8$   $p+18$   $p+20$   $p+24$  : f5

$p+2$   $p+6$   $p+8$   $p+18$   $p+20$   $p+26$  :

$p+2$   $p+6$   $p+8$   $p+18$   $p+20$   $p+28$  : f3

$p+2$   $p+6$   $p+8$   $p+18$   $p+22$  : f3

$p+2$   $p+6$   $p+8$   $p+18$   $p+24$  : f5

$p+2$   $p+6$   $p+8$   $p+18$   $p+26$  : 394811, 495611,

$p+2$   $p+6$   $p+8$   $p+18$   $p+28$  : f3

$p+2$   $p+6$   $p+8$   $p+18$   $p+30$  : 1871, 2081, 15731, 77261, 122201, 389561,

$p+2$   $p+6$   $p+8$   $p+20$  : 191, 3251, 15641, 25301, 31721, 51341, 67211, 119291, 157271, 187631, 201491, 266681, 285281, 300491, 354251, 388691, 412031, 467471, 477011, 490571,

$p+2$   $p+6$   $p+8$   $p+20$   $p+22$  : f3

$p+2$   $p+6$   $p+8$   $p+20$   $p+24$  : f5  
 $p+2$   $p+6$   $p+8$   $p+20$   $p+26$  : 15641, 201491, 467471,  
 $p+2$   $p+6$   $p+8$   $p+20$   $p+28$  : f3  
 $p+2$   $p+6$   $p+8$   $p+20$   $p+30$  : 31721, 119291, 187631, 266681,  
 $p+2$   $p+6$   $p+8$   $p+22$  : f3  
 $p+2$   $p+6$   $p+8$   $p+24$  : f5  
 $p+2$   $p+6$   $p+8$   $p+26$  : 217361, 294311, 334421, 340931, 346391, 397541,  
 $p+2$   $p+6$   $p+8$   $p+26$   $p+28$  : f3  
 $p+2$   $p+6$   $p+8$   $p+26$   $p+30$  : 294311, 346391,  
 $p+2$   $p+6$   $p+8$   $p+28$  : f3  
 $p+2$   $p+6$   $p+8$   $p+30$  : 3461, 9431, 34841, 72221, 81041, 101111, 194861, 247991,  
260411, 295871, 299471, 358901, 375251, 442571,  
 $p+2$   $p+6$   $p+10$  : f3  
 $p+2$   $p+6$   $p+12$  : A078847 17, 41, 227, 347, 641, 1091, 1277, 1427, 1487, 1607, 2687,  
3527, 3917, 4001, 4127, 4637, 4787, 4931, 8231, 9461, 10331, 11777, 12107,  
13901, 14627,  
 $p+2$   $p+6$   $p+12$   $p+14$  : A078946 17, 227, 1277, 1607, 3527, 3917, 4637, 4787, 27737,  
38447, 39227, 44267, 71327, 97367, 99707, 113147, 122027, 122387, 124337,  
165707, 183497, 187127, 191447, 197957, 198827,  
 $p+2$   $p+6$   $p+12$   $p+14$   $p+16$  : f3  
 $p+2$   $p+6$   $p+12$   $p+14$   $p+18$  : f5  
 $p+2$   $p+6$   $p+12$   $p+14$   $p+20$  : A172456 17, 1277, 1607, 3527, 4637, 71327, 97367, 113147,  
191447, 290657, 312197, 416387, 418337, 421697, 450797,  
 $p+2$   $p+6$   $p+12$   $p+14$   $p+20$   $p+22$  : f3  
 $p+2$   $p+6$   $p+12$   $p+14$   $p+20$   $p+24$  : 17, 1277, 113147,  
 $p+2$   $p+6$   $p+12$   $p+14$   $p+20$   $p+26$  : 4637, 71327, 191447, 416387,  
 $p+2$   $p+6$   $p+12$   $p+14$   $p+20$   $p+28$  : f3  
 $p+2$   $p+6$   $p+12$   $p+14$   $p+22$  : f3  
 $p+2$   $p+6$   $p+12$   $p+14$   $p+24$  : 227, 39227, 122027, 198827, 499127,

$p+2$   $p+6$   $p+12$   $p+14$   $p+24$   $p+26$  : 122027,  
 $p+2$   $p+6$   $p+12$   $p+14$   $p+24$   $p+28$  : f3  
 $p+2$   $p+6$   $p+12$   $p+14$   $p+26$  : 3917, 4787, 27737, 44267, 99707, 124337, 183497,  
 317957, 349397, 443867, 491327,  
 $p+2$   $p+6$   $p+12$   $p+14$   $p+28$  : f3  
 $p+2$   $p+6$   $p+12$   $p+14$   $p+30$  : 495557,  
 $p+2$   $p+6$   $p+12$   $p+16$  : f3  
 $p+2$   $p+6$   $p+12$   $p+18$  : A078947 41, 641, 1091, 4001, 9461, 26681, 26711, 44531, 79811,  
 103991, 110921, 112571, 172421, 223241, 276821, 289841, 290021, 317771, 373181,  
 381371, 434921, 450881, 493121,  
 $p+2$   $p+6$   $p+12$   $p+18$   $p+20$  : 41, 641, 4001, 26681, 26711, 172421, 290021,  
 $p+2$   $p+6$   $p+12$   $p+18$   $p+20$   $p+22$  : f3  
 $p+2$   $p+6$   $p+12$   $p+18$   $p+20$   $p+24$  : f5  
 $p+2$   $p+6$   $p+12$   $p+18$   $p+20$   $p+26$  : 41, 4001, 26711, 290021,  
 $p+2$   $p+6$   $p+12$   $p+18$   $p+20$   $p+28$  : f3  
 $p+2$   $p+6$   $p+12$   $p+18$   $p+22$  : f3  
 $p+2$   $p+6$   $p+12$   $p+18$   $p+24$  : f5  
 $p+2$   $p+6$   $p+12$   $p+18$   $p+26$  : 1091, 110921, 276821, 317771, 373181, 434921,  
 493121,  
 $p+2$   $p+6$   $p+12$   $p+18$   $p+28$  : f3  
 $p+2$   $p+6$   $p+12$   $p+18$   $p+30$  : 9461, 79811, 103991, 112571, 289841, 381371,  
 $p+2$   $p+6$   $p+12$   $p+20$  : A190814 347, 1427, 2687, 4931, 13901, 21557, 23741, 27941, 28277,  
 31247, 32057, 33617, 45821, 55661, 55817, 68207, 68897, 91571, 128657, 128981,  
 167621, 179897, 193871, 205421, 221717,  
 $p+2$   $p+6$   $p+12$   $p+20$   $p+22$  : f3  
 $p+2$   $p+6$   $p+12$   $p+20$   $p+24$  : 1427, 2687, 31247, 33617, 258107,  
 $p+2$   $p+6$   $p+12$   $p+20$   $p+24$   $p+26$  : 1427, 2687,  
 $p+2$   $p+6$   $p+12$   $p+20$   $p+24$   $p+28$  : f3  
 $p+2$   $p+6$   $p+12$   $p+20$   $p+26$  : 347, 4931, 23741, 27941, 32057, 55817, 128657,  
 179897, 234191, 258611, 259157, 302831, 348431,

$p+2$   $p+6$   $p+12$   $p+20$   $p+28$  : f3

$p+2$   $p+6$   $p+12$   $p+20$   $p+30$  : 13901, 21557, 28277, 55661, 68897, 128981, 221717, 354371,

$p+2$   $p+6$   $p+12$   $p+22$  : f3

$p+2$   $p+6$   $p+12$   $p+24$  : 1487, 11777, 20747, 25577, 32297, 41177, 77237, 152417, 269177, 308927, 326147, 405677, 432137,

$p+2$   $p+6$   $p+12$   $p+24$   $p+26$  : 20747, 25577, 32297, 41177, 77237, 152417, 405677, 432137,

$p+2$   $p+6$   $p+12$   $p+24$   $p+28$  : f3

$p+2$   $p+6$   $p+12$   $p+24$   $p+30$  : 11777,

$p+2$   $p+6$   $p+12$   $p+26$  : 4127, 10331, 14627, 35591, 36467, 42461, 49031, 59441, 80777, 108881, 118247, 118901, 129527, 154871, 217307, 281921, 333491, 360947, 385391, 414767, 419597, 468887, 471671,

$p+2$   $p+6$   $p+12$   $p+26$   $p+28$  : f3

$p+2$   $p+6$   $p+12$   $p+26$   $p+30$  : 4127, 14627, 36467, 42461, 59441, 118247, 118901, 217307, 360947,

$p+2$   $p+6$   $p+12$   $p+28$  : f3

$p+2$   $p+6$   $p+12$   $p+28$   $p+30$  : f3

$p+2$   $p+6$   $p+12$   $p+30$  : 33347, 69191, 93251, 176921, 204791, 219677, 284231, 313991, 317321, 322997, 344957, 357347, 393581, 438521,

$p+2$   $p+6$   $p+14$  : 1997, 2237, 2267, 2657, 6197, 6827, 8087, 17027, 17387, 19427, 21017, 21377, 22277, 22637, 23057, 24107, 29567, 37307, 43397, 43787, 53087, 55337, 56807, 58907, 62297,

$p+2$   $p+6$   $p+14$   $p+16$  : f3

$p+2$   $p+6$   $p+14$   $p+18$  : f5

$p+2$   $p+6$   $p+14$   $p+20$  : 1997, 2267, 2657, 6197, 17027, 19427, 21377, 29567, 56807, 65537, 82217, 91367, 95087, 110567, 117497, 132527, 132947, 152837, 166847, 193937, 203207, 206177, 229247, 280697, 282677,

$p+2$   $p+6$   $p+14$   $p+20$   $p+22$  : f3

$p+2$   $p+6$   $p+14$   $p+20$   $p+24$  : 6197, 21377, 82217, 95087, 132947, 166847, 324977, 458957,

$p+2$   $p+6$   $p+14$   $p+20$   $p+24$   $p+26$  :

$p+2$   $p+6$   $p+14$   $p+20$   $p+24$   $p+28$  : f3

$p+2$   $p+6$   $p+14$   $p+20$   $p+26$  : 2267, 2657, 17027, 65537, 91367, 203207, 206177, 282677, 414677,

$p+2$   $p+6$   $p+14$   $p+20$   $p+28$  : f3

$p+2$   $p+6$   $p+14$   $p+20$   $p+30$  : 1997, 19427, 110567,

$p+2$   $p+6$   $p+14$   $p+22$  : f3

$p+2$   $p+6$   $p+14$   $p+24$  : 8087, 23057, 81017, 82007, 93887, 97547, 113357, 115877, 155717, 171467, 187067, 195737, 234317, 238157, 249857, 251057, 301577, 318677, 337277, 340577, 340787, 344207, 347987, 351287, 369827,

$p+2$   $p+6$   $p+14$   $p+24$   $p+26$  : 81017, 93887, 113357, 115877, 234317, 412187,

$p+2$   $p+6$   $p+14$   $p+24$   $p+28$  : f3

$p+2$   $p+6$   $p+14$   $p+24$   $p+30$  : 8087, 23057, 82007, 97547, 155717, 251057, 344207, 347987, 467627,

$p+2$   $p+6$   $p+14$   $p+26$  : 22277, 24107, 53087, 62297, 156677, 228197, 240257, 300317, 335807, 366167, 390737, 468107, 472247,

$p+2$   $p+6$   $p+14$   $p+26$   $p+28$  : f3

$p+2$   $p+6$   $p+14$   $p+26$   $p+30$  : 22277, 24107, 53087, 62297, 156677, 240257, 300317, 468107,

$p+2$   $p+6$   $p+14$   $p+28$  : f3

$p+2$   $p+6$   $p+14$   $p+30$  : 2237, 6827, 17387, 37307, 43397, 58907, 65837, 89597, 105527, 126227, 189347, 190577, 212867, 218987,

$p+2$   $p+6$   $p+16$  : f3

$p+2$   $p+6$   $p+18$  : 461, 1301, 5501, 13691, 18251, 30491, 42221, 44771, 46181, 53591, 56891, 64661, 69761, 75011, 86351, 88001, 92381, 94541, 98711, 111491, 113021, 113171, 134591, 140891, 149711,

$p+2$   $p+6$   $p+18$   $p+20$  : 1301, 5501, 13691, 53591, 56891, 86351, 92381, 94541, 98711, 113021, 149711, 192611, 231821, 332201, 351341, 370421,

$p+2$   $p+6$   $p+18$   $p+20$   $p+22$  : f3

$p+2$   $p+6$   $p+18$   $p+20$   $p+24$  : f5

$p+2$   $p+6$   $p+18$   $p+20$   $p+26$  : 1301, 5501, 53591, 98711, 192611,

$p+2$   $p+6$   $p+18$   $p+20$   $p+28$  : f3

$p+2$   $p+6$   $p+18$   $p+20$   $p+30$  : 13691, 56891, 86351, 113021, 370421,

p+ 2 p+ 6 p+18 p+22 : f3

p+ 2 p+ 6 p+18 p+24 : f5

p+ 2 p+ 6 p+18 p+26 : 461, 30491, 44771, 75011, 236891, 255191, 336221, 424001,

p+ 2 p+ 6 p+18 p+26 p+28 : f3

p+ 2 p+ 6 p+18 p+26 p+30 : 461, 75011, 336221,

p+ 2 p+ 6 p+18 p+28 : f3

p+ 2 p+ 6 p+18 p+30 : 111491, 179951, 220901, 342341, 356561, 419561,

p+ 2 p+ 6 p+20 : 107, 311, 857, 3671, 4967, 8291, 10457, 14321, 16067, 19991, 23291, 23561, 25997, 31511, 32321, 34211, 37991, 40847, 43607, 44201, 49937, 51131, 51197, 51971, 54497,

p+ 2 p+ 6 p+20 p+22 : f3

p+ 2 p+ 6 p+20 p+24 : 107, 857, 16067, 25997, 54497, 114197, 136397, 249497, 285977, 313127, 350087, 361217, 365507, 426737, 464747,

p+ 2 p+ 6 p+20 p+24 p+26 : 857, 313127, 426737, 464747,

p+ 2 p+ 6 p+20 p+24 p+28 : f3

p+ 2 p+ 6 p+20 p+24 p+30 : 107, 16067, 365507,

p+ 2 p+ 6 p+20 p+26 : 311, 3671, 4967, 8291, 14321, 43607, 51131, 60917, 63311, 67427, 67757, 79841, 80147, 86111, 98867, 176327, 177887, 195971, 228731, 247691, 263267, 265541, 277637, 279551, 281621,

p+ 2 p+ 6 p+20 p+26 p+28 : f3

p+ 2 p+ 6 p+20 p+26 p+30 : 3671, 80147, 98867, 176327, 177887, 265541, 281621, 343307,

p+ 2 p+ 6 p+20 p+28 : f3

p+ 2 p+ 6 p+20 p+30 : 10457, 19991, 23291, 31511, 69827, 90197, 100517, 107837, 111827, 181757, 191531, 192581, 218417, 222107, 228881, 319727, 360287, 386987, 403547, 455681, 461687,

p+ 2 p+ 6 p+22 : f3

p+ 2 p+ 6 p+24 : 5477, 7877, 12917, 13757, 13877, 20897, 21317, 33767, 34757, 38327, 73037, 82757, 93557, 149417, 150377, 174257, 186647, 192317, 195047, 204437, 225347, 226547, 235787, 240347, 246707,

p+ 2 p+ 6 p+24 p+26 : 5477, 13877, 73037, 192317, 225347, 235787, 268817, 320267, 413087, 425417,



$p+2$   $p+6$   $p+24$   $p+26$   $p+28$  : f3  
 $p+2$   $p+6$   $p+24$   $p+26$   $p+30$  : 5477, 13877, 192317,  
 $p+2$   $p+6$   $p+24$   $p+28$  : f3  
 $p+2$   $p+6$   $p+24$   $p+30$  : 7877, 21317, 33767, 82757, 150377, 195047, 326657,  
 $p+2$   $p+6$   $p+26$  : 881, 8537, 8861, 10427, 11171, 14081, 24917, 25031, 31541,  
36011, 42017, 47711, 60101, 65027, 81197, 81701, 87251, 93281, 96821, 98321,  
102497, 116927, 122321, 123731, 128831,  
 $p+2$   $p+6$   $p+26$   $p+28$  : f3  
 $p+2$   $p+6$   $p+26$   $p+30$  : 881, 10427, 47711, 87251, 96821, 128831, 160877, 182927,  
213947, 218081, 237971, 253607, 314597, 341057, 411611, 440177, 443561, 480017,  
494561, 497111,  
 $p+2$   $p+6$   $p+28$  : f3  
 $p+2$   $p+6$   $p+30$  : 4517, 5231, 16187, 20477, 32531, 48407, 73607, 75401, 89561,  
97577, 101531, 121631, 132857, 157427, 160751, 171047, 173777, 179687, 191831,  
197567, 208991, 210317, 227531, 243431, 245471,  
 $p+2$   $p+8$  : A049437 29, 59, 71, 149, 269, 431, 569, 599, 1031, 1061, 1229, 1289, 1319,  
1451, 1619, 2129, 2339, 2381, 2549, 2711, 2789, 3299, 3539, 4019, 4049,  
 $p+2$   $p+8$   $p+10$  : f3  
 $p+2$   $p+8$   $p+12$  : A078848 29, 59, 71, 269, 431, 1289, 2129, 2339, 2381, 2789, 4721,  
5519, 5639, 5849, 6569, 6959, 8999, 10091, 13679, 14549, 16649, 16691, 18119,  
19379, 19751,  
 $p+2$   $p+8$   $p+12$   $p+14$  : A078948 29, 59, 269, 1289, 2129, 2789, 5639, 8999, 13679, 14549,  
18119, 36779, 62129, 75989, 80669, 83219, 88799, 93479, 113159, 115769, 124769,  
132749, 150209, 160079, 163979,  
 $p+2$   $p+8$   $p+12$   $p+14$   $p+16$  : f3  
 $p+2$   $p+8$   $p+12$   $p+14$   $p+18$  : 29, 1289, 5639, 13679, 80669, 88799, 93479, 113159,  
163979, 284729, 313979, 417719,  
 $p+2$   $p+8$   $p+12$   $p+14$   $p+18$   $p+20$  : 5639, 88799, 284729,  
 $p+2$   $p+8$   $p+12$   $p+14$   $p+18$   $p+22$  : f3  
 $p+2$   $p+8$   $p+12$   $p+14$   $p+18$   $p+24$  : 29, 93479, 313979,  
 $p+2$   $p+8$   $p+12$   $p+14$   $p+18$   $p+26$  : f5  
 $p+2$   $p+8$   $p+12$   $p+14$   $p+18$   $p+28$  : f3  
 $p+2$   $p+8$   $p+12$   $p+14$   $p+20$  : 59, 223829, 363359,

$p+2$   $p+8$   $p+12$   $p+14$   $p+20$   $p+22$  : f3

$p+2$   $p+8$   $p+12$   $p+14$   $p+20$   $p+24$  : 59,

$p+2$   $p+8$   $p+12$   $p+14$   $p+20$   $p+26$  : f5

$p+2$   $p+8$   $p+12$   $p+14$   $p+20$   $p+28$  : f3

$p+2$   $p+8$   $p+12$   $p+14$   $p+22$  : f3

$p+2$   $p+8$   $p+12$   $p+14$   $p+24$  : 269, 2129, 18119, 83219, 115769, 124769,

$p+2$   $p+8$   $p+12$   $p+14$   $p+24$   $p+26$  : f5

$p+2$   $p+8$   $p+12$   $p+14$   $p+24$   $p+28$  : f3

$p+2$   $p+8$   $p+12$   $p+14$   $p+26$  : f5

$p+2$   $p+8$   $p+12$   $p+14$   $p+28$  : f3

$p+2$   $p+8$   $p+12$   $p+14$   $p+30$  : 2789, 8999, 36779, 150209, 203309, 228509, 298679, 430739,

$p+2$   $p+8$   $p+12$   $p+16$  : f3

$p+2$   $p+8$   $p+12$   $p+18$  : A078949 71, 431, 2339, 2381, 5849, 6959, 27791, 32561, 41609, 45119, 46439, 48479, 51419, 54401, 63599, 78779, 81551, 106859, 115319, 130631, 138569, 143501, 153269, 166601, 183569,

$p+2$   $p+8$   $p+12$   $p+18$   $p+20$  : 5849, 45119, 51419, 54401, 130631, 229751, 321311,

$p+2$   $p+8$   $p+12$   $p+18$   $p+20$   $p+22$  : f3

$p+2$   $p+8$   $p+12$   $p+18$   $p+20$   $p+24$  : f7

$p+2$   $p+8$   $p+12$   $p+18$   $p+20$   $p+26$  : 130631, 229751,

$p+2$   $p+8$   $p+12$   $p+18$   $p+20$   $p+28$  : f3

$p+2$   $p+8$   $p+12$   $p+18$   $p+22$  : f3

$p+2$   $p+8$   $p+12$   $p+18$   $p+24$  : 6959, 78779, 115319, 183569, 196169, 279119, 326999, 357659,

$p+2$   $p+8$   $p+12$   $p+18$   $p+24$   $p+26$  : f5

$p+2$   $p+8$   $p+12$   $p+18$   $p+24$   $p+28$  : f3

$p+2$   $p+8$   $p+12$   $p+18$   $p+26$  : 71, 431, 27791, 32561, 143501, 166601, 427421, 499661,

$p+2$   $p+8$   $p+12$   $p+18$   $p+28$  : f3

$p+2$   $p+8$   $p+12$   $p+18$   $p+30$  : 2381, 63599, 138569, 266081, 429899,  
 $p+2$   $p+8$   $p+12$   $p+20$  : 10091, 25931, 77711, 126011, 150881, 178601, 185531,  
 255839, 259619, 319679, 336101, 349829, 370871, 404009, 409889, 460079, 487469,  
 488309,  
 $p+2$   $p+8$   $p+12$   $p+20$   $p+22$  : f3  
 $p+2$   $p+8$   $p+12$   $p+20$   $p+24$  : 259619, 488309,  
 $p+2$   $p+8$   $p+12$   $p+20$   $p+24$   $p+26$  : f5  
 $p+2$   $p+8$   $p+12$   $p+20$   $p+24$   $p+28$  : f3  
 $p+2$   $p+8$   $p+12$   $p+20$   $p+26$  : 126011, 150881, 178601, 185531, 370871,  
 $p+2$   $p+8$   $p+12$   $p+20$   $p+28$  : f3  
 $p+2$   $p+8$   $p+12$   $p+20$   $p+30$  : 255839,  
 $p+2$   $p+8$   $p+12$   $p+22$  : f3  
 $p+2$   $p+8$   $p+12$   $p+24$  : 16649, 19379, 28619, 46679, 49199, 55049, 61979, 124979,  
 135719, 182099, 216779, 338159, 358289, 363149, 496889, 498779,  
 $p+2$   $p+8$   $p+12$   $p+24$   $p+26$  : f5  
 $p+2$   $p+8$   $p+12$   $p+24$   $p+28$  : f3  
 $p+2$   $p+8$   $p+12$   $p+24$   $p+30$  : 28619, 55049, 182099, 363149, 496889,  
 $p+2$   $p+8$   $p+12$   $p+26$  : 19751, 21491, 43961, 61331, 67931, 70841, 123491, 305021,  
 321821, 354971, 356441, 410231, 444461, 475751, 489791,  
 $p+2$   $p+8$   $p+12$   $p+26$   $p+28$  : f3  
 $p+2$   $p+8$   $p+12$   $p+26$   $p+30$  : 21491, 43961, 67931, 321821,  
 $p+2$   $p+8$   $p+12$   $p+28$  : f3  
 $p+2$   $p+8$   $p+12$   $p+30$  : 4721, 6569, 108791, 113081, 161561, 229769, 283571,  
 288989, 305411, 352481, 365411, 409259, 443159, 451301, 460979,  
 $p+2$   $p+8$   $p+14$  : A078849 149, 599, 3299, 4649, 5099, 6359, 11489, 12539, 16979, 19469,  
 27059, 30089, 31319, 34259, 42179, 53609, 58229, 63689, 65699, 71339, 75209,  
 77549, 78569, 80909, 81929,  
 $p+2$   $p+8$   $p+14$   $p+16$  : f3  
 $p+2$   $p+8$   $p+14$   $p+18$  : 149, 599, 27059, 31319, 42179, 65699, 75209, 85829,  
 87539, 92219, 135599, 170759, 205949, 221069, 249419, 274829, 278609, 280589,  
 287849, 302579, 307259, 308309, 350429, 355499, 398339,

$p+2$   $p+8$   $p+14$   $p+18$   $p+20$  : 599, 65699, 87539, 249419, 355499, 416399,

$p+2$   $p+8$   $p+14$   $p+18$   $p+20$   $p+22$  : f3

$p+2$   $p+8$   $p+14$   $p+18$   $p+20$   $p+24$  :

$p+2$   $p+8$   $p+14$   $p+18$   $p+20$   $p+26$  : f5

$p+2$   $p+8$   $p+14$   $p+18$   $p+20$   $p+28$  : f3

$p+2$   $p+8$   $p+14$   $p+18$   $p+22$  : f3

$p+2$   $p+8$   $p+14$   $p+18$   $p+24$  : 149, 85829, 92219, 135599, 221069, 274829, 280589, 287849, 307259, 308309, 350429, 422549,

$p+2$   $p+8$   $p+14$   $p+18$   $p+24$   $p+26$  : f5

$p+2$   $p+8$   $p+14$   $p+18$   $p+24$   $p+28$  : f3

$p+2$   $p+8$   $p+14$   $p+18$   $p+26$  : f5

$p+2$   $p+8$   $p+14$   $p+18$   $p+28$  : f3

$p+2$   $p+8$   $p+14$   $p+18$   $p+30$  : 42179, 75209, 278609, 302579, 398339,

$p+2$   $p+8$   $p+14$   $p+20$  : 3299, 5099, 6359, 19469, 30089, 53609, 63689, 71339, 77549, 80909, 105359, 119549, 152939, 186869, 292469, 302969, 344249, 348239, 408209, 415949,

$p+2$   $p+8$   $p+14$   $p+20$   $p+22$  : f3

$p+2$   $p+8$   $p+14$   $p+20$   $p+24$  : 3299, 30089, 53609, 71339, 77549, 80909, 292469, 344249,

$p+2$   $p+8$   $p+14$   $p+20$   $p+24$   $p+26$  : f5

$p+2$   $p+8$   $p+14$   $p+20$   $p+24$   $p+28$  : f3

$p+2$   $p+8$   $p+14$   $p+20$   $p+26$  : f5

$p+2$   $p+8$   $p+14$   $p+20$   $p+28$  : f3

$p+2$   $p+8$   $p+14$   $p+20$   $p+30$  : 6359, 63689, 105359, 302969, 348239, 415949,

$p+2$   $p+8$   $p+14$   $p+22$  : f3

$p+2$   $p+8$   $p+14$   $p+24$  : 4649, 34259, 78569, 81929, 133709, 206909, 236699, 273059, 318809, 361349, 429929, 435569, 450479, 482399, 496289,

$p+2$   $p+8$   $p+14$   $p+24$   $p+26$  : f5

$p+2$   $p+8$   $p+14$   $p+24$   $p+28$  : f3

$p+2$   $p+8$   $p+14$   $p+24$   $p+30$  : 4649, 206909, 236699,

$p+2$   $p+8$   $p+14$   $p+26$  : f5

$p+2$   $p+8$   $p+14$   $p+28$  : f3

$p+2$   $p+8$   $p+14$   $p+30$  : 11489, 12539, 87509, 116789, 121439, 149489, 161969,  
177209, 179819, 184829, 267899, 277889, 281549, 324209, 346439, 357779, 367019,  
383519, 405239,

$p+2$   $p+8$   $p+16$  : f3

$p+2$   $p+8$   $p+18$  : 569, 1031, 1619, 2711, 3539, 6269, 6701, 7211, 9041, 15269,  
17921, 23669, 29129, 30851, 33749, 35051, 35081, 37361, 37571, 39839, 42701,  
49529, 49739, 49919, 52361,

$p+2$   $p+8$   $p+18$   $p+20$  : 1031, 2711, 3539, 15269, 23669, 30851, 33749, 37571,  
49529, 49919, 114641, 115301, 121349, 154571, 160619, 164231, 176789, 183299,  
234959, 267719, 272981, 275921, 305741, 346649, 349379,

$p+2$   $p+8$   $p+18$   $p+20$   $p+22$  : f3

$p+2$   $p+8$   $p+18$   $p+20$   $p+24$  : 33749, 49919, 349379,

$p+2$   $p+8$   $p+18$   $p+20$   $p+24$   $p+26$  : f5

$p+2$   $p+8$   $p+18$   $p+20$   $p+24$   $p+28$  : f3

$p+2$   $p+8$   $p+18$   $p+20$   $p+26$  : 115301, 385571,

$p+2$   $p+8$   $p+18$   $p+20$   $p+28$  : f3

$p+2$   $p+8$   $p+18$   $p+20$   $p+30$  : 1031, 2711, 15269, 30851, 49529, 114641, 121349,  
160619, 176789, 183299, 234959, 267719, 305741,

$p+2$   $p+8$   $p+18$   $p+22$  : f3

$p+2$   $p+8$   $p+18$   $p+24$  : 569, 29129, 39839, 83399, 127709, 410489, 492059,

$p+2$   $p+8$   $p+18$   $p+24$   $p+26$  : f5

$p+2$   $p+8$   $p+18$   $p+24$   $p+28$  : f3

$p+2$   $p+8$   $p+18$   $p+24$   $p+30$  : 569, 39839, 127709, 410489,

$p+2$   $p+8$   $p+18$   $p+26$  : 7211, 9041, 35081, 42701, 52361, 56501, 71411, 73361,  
84221, 162821, 221201, 225611, 248291, 317591, 345731, 361901,

$p+2$   $p+8$   $p+18$   $p+26$   $p+28$  : f3

$p+2$   $p+8$   $p+18$   $p+26$   $p+30$  : 35081, 52361, 56501, 317591,

$p+2$   $p+8$   $p+18$   $p+28$  : f3

$p+2$   $p+8$   $p+18$   $p+30$  : 6269, 35051, 72671, 74159, 74201, 92639, 103391, 106619, 117881, 133319, 155201, 198461, 266351, 272351, 362051, 366851, 384479, 405701, 421709, 458189, 458789, 488231, 490541,

$p+2$   $p+8$   $p+20$  : 1229, 1451, 4091, 12821, 16361, 17489, 19211, 23909, 24371, 25601, 28571, 28751, 41141, 42569, 48779, 49409, 52181, 54539, 56921, 63389, 65579, 70619, 70949, 71879, 80231,

$p+2$   $p+8$   $p+20$   $p+22$  : f3

$p+2$   $p+8$   $p+20$   $p+24$  : 49409, 54539, 85619, 146519, 169319, 180239, 191669, 217199, 231269, 309269, 312209, 372269, 495749,

$p+2$   $p+8$   $p+20$   $p+24$   $p+26$  : f5

$p+2$   $p+8$   $p+20$   $p+24$   $p+28$  : f3

$p+2$   $p+8$   $p+20$   $p+24$   $p+30$  : 191669, 217199, 231269, 372269,

$p+2$   $p+8$   $p+20$   $p+26$  : 19211, 28571, 117701, 309011, 327491, 334751, 407501, 424841,

$p+2$   $p+8$   $p+20$   $p+26$   $p+28$  : f3

$p+2$   $p+8$   $p+20$   $p+26$   $p+30$  : 117701,

$p+2$   $p+8$   $p+20$   $p+28$  : f3

$p+2$   $p+8$   $p+20$   $p+30$  : 1229, 1451, 17489, 48779, 56921, 63389, 65579, 70949, 71879, 92459, 107069, 109139, 131939, 139589, 150959, 167309, 185069, 197339, 203969, 265709, 329081, 380621, 450809, 472391,

$p+2$   $p+8$   $p+22$  : f3

$p+2$   $p+8$   $p+24$  : 4049, 10859, 32909, 38669, 49169, 51479, 70199, 94439, 96329, 111119, 145679, 163409, 176549, 179999, 180539, 228419, 232409, 239849, 246809, 250049, 258329, 263819, 275159, 310019, 314399,

$p+2$   $p+8$   $p+24$   $p+26$  : f5

$p+2$   $p+8$   $p+24$   $p+28$  : f3

$p+2$   $p+8$   $p+24$   $p+30$  : 4049, 10859, 32909, 38669, 49169, 70199, 111119, 145679, 180539, 232409, 239849, 246809, 263819, 310019, 374039, 478739, 487049,

$p+2$   $p+8$   $p+26$  : 1061, 12611, 17291, 20021, 22541, 23201, 28661, 31151, 34031, 34511, 37691, 42641, 90371, 95231, 122501, 126491, 146381, 171671, 189851, 214211, 216371, 252911, 284831, 290531, 312701,

$p+2$   $p+8$   $p+26$   $p+28$  : f3

$p+2$   $p+8$   $p+26$   $p+30$  : 1061, 12611, 17291, 20021, 22541, 31151, 34031, 90371, 95231, 189851, 216371, 318881, 363371, 374291, 395111,

$p+2$   $p+8$   $p+28$  : f3

$p+2$   $p+8$   $p+30$  : 2549, 4019, 5441, 8009, 9341, 12041, 13721, 21059, 26111, 26729, 26951, 27479, 35801, 46271, 49991, 55631, 59021, 71711, 74411, 78509, 79151, 84059, 86531, 87641, 106751,

$p+2$   $p+10$  : f3

$p+2$   $p+12$  : 137, 179, 239, 281, 419, 809, 827, 1019, 1049, 1151, 1697, 1721, 1877, 2027, 2087, 2141, 2729, 2999, 3359, 3581, 3767, 3821, 3851, 4217, 4229,

$p+2$   $p+12$   $p+14$  : 137, 179, 419, 809, 1019, 1049, 3359, 4217, 4229, 4259, 5009, 5867, 6689, 6779, 6947, 7547, 8219, 9419, 11057, 11159, 12239, 13709, 13997, 17909, 18047,

$p+2$   $p+12$   $p+14$   $p+16$  : f3

$p+2$   $p+12$   $p+14$   $p+18$  : 179, 809, 8219, 9419, 11159, 21599, 26249, 26699, 47699, 60089, 62969, 75389, 93239, 94529, 103979, 109829, 128969, 193859, 211049, 236879, 255179, 296969, 342059, 348419, 423989,

$p+2$   $p+12$   $p+14$   $p+18$   $p+20$  : 179, 809, 9419, 62969, 109829, 452519,

$p+2$   $p+12$   $p+14$   $p+18$   $p+20$   $p+22$  : f3

$p+2$   $p+12$   $p+14$   $p+18$   $p+20$   $p+24$  :

$p+2$   $p+12$   $p+14$   $p+18$   $p+20$   $p+26$  : f5

$p+2$   $p+12$   $p+14$   $p+18$   $p+20$   $p+28$  : f3

$p+2$   $p+12$   $p+14$   $p+18$   $p+22$  : f3

$p+2$   $p+12$   $p+14$   $p+18$   $p+24$  : 8219, 26699, 93239, 103979, 128969, 193859, 211049, 348419, 493109,

$p+2$   $p+12$   $p+14$   $p+18$   $p+24$   $p+26$  : f5

$p+2$   $p+12$   $p+14$   $p+18$   $p+24$   $p+28$  : f3

$p+2$   $p+12$   $p+14$   $p+18$   $p+26$  : f5

$p+2$   $p+12$   $p+14$   $p+18$   $p+28$  : f3

$p+2$   $p+12$   $p+14$   $p+18$   $p+30$  : 94529, 236879, 255179, 423989,

$p+2$   $p+12$   $p+14$   $p+20$  : 137, 419, 1019, 1049, 6689, 6947, 13709, 17909, 30839, 34499, 39827, 55619, 56909, 59009, 63587, 72089, 85817, 87629, 91139, 97157, 108947, 119087, 130619, 149099, 153509,

$p+2$   $p+12$   $p+14$   $p+20$   $p+22$  : f3

$p+2$   $p+12$   $p+14$   $p+20$   $p+24$  : 419, 6947, 63587, 91139, 108947, 130619, 153509, 358277, 429887,

$p+2$   $p+12$   $p+14$   $p+20$   $p+24$   $p+26$  :

$p+2$   $p+12$   $p+14$   $p+20$   $p+24$   $p+28$  : f3

$p+2$   $p+12$   $p+14$   $p+20$   $p+26$  : 137, 85817,

$p+2$   $p+12$   $p+14$   $p+20$   $p+28$  : f3

$p+2$   $p+12$   $p+14$   $p+20$   $p+30$  : 1019, 6689, 17909, 30839, 39827, 97157, 176777, 208499, 268517, 289019, 308507, 486377,

$p+2$   $p+12$   $p+14$   $p+22$  : f3

$p+2$   $p+12$   $p+14$   $p+24$  : 4217, 4229, 4259, 6779, 12239, 21587, 26879, 27527, 29387, 89657, 91127, 92669, 95789, 97847, 103967, 146009, 149519, 158747, 161729, 179579, 203339, 211217, 236867, 267389, 289127,

$p+2$   $p+12$   $p+14$   $p+24$   $p+26$  : 4217, 21587, 91127, 103967, 236867, 342047, 422087,

$p+2$   $p+12$   $p+14$   $p+24$   $p+28$  : f3

$p+2$   $p+12$   $p+14$   $p+24$   $p+30$  : 4229, 4259, 12239, 92669, 95789, 158747, 211217, 267389, 371927, 408689, 492617,

$p+2$   $p+12$   $p+14$   $p+26$  : 7547, 11057, 23027, 28097, 33587, 48857, 59207, 60887, 157217, 160637, 318287, 327407, 385127, 386117, 422867, 467867,

$p+2$   $p+12$   $p+14$   $p+26$   $p+28$  : f3

$p+2$   $p+12$   $p+14$   $p+26$   $p+30$  : 7547, 11057, 23027, 33587, 60887, 157217, 422867, 467867,

$p+2$   $p+12$   $p+14$   $p+28$  : f3

$p+2$   $p+12$   $p+14$   $p+30$  : 3359, 5009, 5867, 18047, 74717, 98897, 122039, 185819, 209567, 251609, 256019, 298157, 384287, 392267, 402329, 422099, 436727, 442487, 446387, 477809,

$p+2$   $p+12$   $p+16$  : f3

$p+2$   $p+12$   $p+18$  : 239, 4241, 4271, 6299, 6551, 8819, 11969, 12251, 18131, 19541, 19961, 22859, 32411, 34301, 38711, 40151, 41759, 42071, 42281, 45179, 52709, 57791, 59051, 60761, 62189,

$p+2$   $p+12$   $p+18$   $p+20$  : 4241, 6551, 8819, 67409, 68879, 70979, 102059, 142589, 147209, 170351, 216899, 241049, 259991, 260189, 308291, 308489, 322571, 323579, 375101, 413069, 433661, 499139,



$p+2$   $p+12$   $p+18$   $p+20$   $p+22$  : f3  
 $p+2$   $p+12$   $p+18$   $p+20$   $p+24$  : 67409, 68879, 260189, 413069,  
 $p+2$   $p+12$   $p+18$   $p+20$   $p+24$   $p+26$  : f5  
 $p+2$   $p+12$   $p+18$   $p+20$   $p+24$   $p+28$  : f3  
 $p+2$   $p+12$   $p+18$   $p+20$   $p+26$  : 6551, 259991, 308291, 375101,  
 $p+2$   $p+12$   $p+18$   $p+20$   $p+28$  : f3  
 $p+2$   $p+12$   $p+18$   $p+20$   $p+30$  : 4241, 8819, 142589, 241049, 308489,  
 $p+2$   $p+12$   $p+18$   $p+22$  : f3  
 $p+2$   $p+12$   $p+18$   $p+24$  : 239, 6299, 52709, 62189, 254729, 262109, 497279,  
 $p+2$   $p+12$   $p+18$   $p+24$   $p+26$  : f5  
 $p+2$   $p+12$   $p+18$   $p+24$   $p+28$  : f3  
 $p+2$   $p+12$   $p+18$   $p+24$   $p+30$  : 239, 6299, 62189, 262109, 497279,  
 $p+2$   $p+12$   $p+18$   $p+26$  : 4271, 12251, 34301, 38711, 40151, 42281, 59051, 81281,  
92681, 105251, 124121, 167021, 167861, 185681, 198941, 305351, 315881, 341321,  
345461, 370661, 426761, 442961, 462641, 475271,  
 $p+2$   $p+12$   $p+18$   $p+26$   $p+28$  : f3  
 $p+2$   $p+12$   $p+18$   $p+26$   $p+30$  : 12251, 167021, 167861, 185681, 198941, 442961,  
475271,  
 $p+2$   $p+12$   $p+18$   $p+28$  : f3  
 $p+2$   $p+12$   $p+18$   $p+30$  : 19541, 19961, 32411, 42071, 85091, 138179, 148061,  
207479, 219941, 261059, 267401, 312071, 425279, 478241, 492629, 495359,  
 $p+2$   $p+12$   $p+20$  : 1151, 1721, 2141, 2729, 2999, 4337, 6131, 7487, 9677, 9929,  
10139, 10301, 10937, 14867, 15287, 19697, 19841, 21839, 22697, 23537, 33071,  
33179, 41201, 43649, 44621,  
 $p+2$   $p+12$   $p+20$   $p+22$  : f3  
 $p+2$   $p+12$   $p+20$   $p+24$  : 2729, 2999, 10139, 14867, 21839, 22697, 23537, 33179,  
45317, 63647, 65099, 76079, 85427, 97859, 103067, 120917, 131477, 190889,  
206279, 220877, 221987, 248867, 288179, 289169, 296729,  
 $p+2$   $p+12$   $p+20$   $p+24$   $p+26$  : 23537, 45317, 85427, 103067, 120917, 220877, 248867,  
442007,  
 $p+2$   $p+12$   $p+20$   $p+24$   $p+28$  : f3

p+ 2 p+12 p+20 p+24 p+30 : 10139, 14867, 22697, 65099, 131477, 288179, 483209,

p+ 2 p+12 p+20 p+26 : 1721, 4337, 15287, 19841, 41201, 44621, 52541, 58391,  
89897, 90821, 96737, 98927, 100391, 104681, 108191, 146297, 186227, 209201,  
278207, 286457, 286751, 338267, 355037, 366701, 377327,

p+ 2 p+12 p+20 p+26 p+28 : f3

p+ 2 p+12 p+20 p+26 p+30 : 41201, 44621, 52541, 104681, 278207, 286457, 338267,  
444527, 461297, 475877,

p+ 2 p+12 p+20 p+28 : f3

p+ 2 p+12 p+20 p+30 : 1151, 7487, 10301, 19697, 59357, 73847, 86369, 114659,  
117239, 125639, 128939, 129497, 141677, 149057, 149531, 161741, 204299, 217409,  
281837, 306347, 363947, 432557, 448157, 451679, 453197,

p+ 2 p+12 p+22 : f3

p+ 2 p+12 p+24 : 1697, 1877, 2087, 6089, 8837, 10067, 13217, 15137, 15737,  
17657, 28547, 29399, 30869, 32609, 41387, 41957, 46049, 51437, 52289, 56477,  
58367, 67577, 71387, 75617, 77267,

p+ 2 p+12 p+24 p+26 : 1697, 2087, 8837, 10067, 17657, 28547, 41387, 41957,  
56477, 58367, 71387, 77687, 105227, 112337, 159167, 175937, 191507, 223217,  
229937, 248177, 326537, 327827, 347957, 360977, 424817,

p+ 2 p+12 p+24 p+26 p+28 : f3

p+ 2 p+12 p+24 p+26 p+30 : 8837, 191507, 223217, 326537, 347957,

p+ 2 p+12 p+24 p+28 : f3

p+ 2 p+12 p+24 p+30 : 1877, 15737, 29399, 67577, 100799, 127679, 150767,  
163169, 187337, 232079, 263399, 266897, 278879, 318179, 353867, 433049, 470597,  
479879,

p+ 2 p+12 p+26 : 281, 827, 2027, 3581, 3767, 3821, 3851, 4481, 5657, 8597,  
17597, 31847, 39371, 41231, 45587, 50021, 50261, 51827, 55217, 56237, 66851,  
66947, 83231, 91811, 92177,

p+ 2 p+12 p+26 p+28 : f3

p+ 2 p+12 p+26 p+30 : 281, 827, 3767, 3821, 3851, 8597, 17597, 50021, 50261,  
56237, 66947, 91811, 93911, 101501, 108011, 115781, 120737, 159671, 169067,  
179381, 188831, 213611, 234977, 241781, 251831,

p+ 2 p+12 p+28 : f3

p+ 2 p+12 p+30 : 9281, 13829, 22739, 26891, 33149, 44699, 46589, 47351, 47807,  
57191, 58601, 64781, 69929, 79229, 84521, 104549, 106319, 109199, 114797,  
115601, 117041, 119417, 119981, 135467, 140729,

$p+2$   $p+14$  : 197, 617, 659, 1787, 3167, 3257, 3329, 3557, 3929, 4547, 4799, 5417, 6659, 6869, 7307, 7559, 7589, 7949, 8429, 8627, 9629, 9719, 9767, 9857, 10499,

$p+2$   $p+14$   $p+16$  : f3

$p+2$   $p+14$   $p+18$  : 659, 3329, 3929, 4799, 7559, 7589, 8429, 11069, 15359, 17189, 23039, 27749, 32969, 33329, 33599, 34469, 34589, 36929, 43049, 57269, 60899, 61469, 63839, 66359, 67139,

$p+2$   $p+14$   $p+18$   $p+20$  : 17189, 23039, 33329, 33599, 60899, 115859, 152819, 164429, 182639, 217559, 220859, 250949, 328619, 406559, 422879, 429659, 467879,

$p+2$   $p+14$   $p+18$   $p+20$   $p+22$  : f3

$p+2$   $p+14$   $p+18$   $p+20$   $p+24$  : 23039, 33329, 33599, 60899, 115859, 152819, 406559, 429659, 467879,

$p+2$   $p+14$   $p+18$   $p+20$   $p+24$   $p+26$  : f5

$p+2$   $p+14$   $p+18$   $p+20$   $p+24$   $p+28$  : f3

$p+2$   $p+14$   $p+18$   $p+20$   $p+26$  : f5

$p+2$   $p+14$   $p+18$   $p+20$   $p+28$  : f3

$p+2$   $p+14$   $p+18$   $p+20$   $p+30$  : 220859, 250949,

$p+2$   $p+14$   $p+18$   $p+22$  : f3

$p+2$   $p+14$   $p+18$   $p+24$  : 659, 7559, 11069, 15359, 27749, 32969, 34589, 61469, 63839, 66359, 82469, 157229, 194069, 320039, 343799, 357569, 375509, 383609,

$p+2$   $p+14$   $p+18$   $p+24$   $p+26$  : f5

$p+2$   $p+14$   $p+18$   $p+24$   $p+28$  : f3

$p+2$   $p+14$   $p+18$   $p+24$   $p+30$  : 7559, 27749, 32969, 82469, 157229, 343799,

$p+2$   $p+14$   $p+18$   $p+26$  : f5

$p+2$   $p+14$   $p+18$   $p+28$  : f3

$p+2$   $p+14$   $p+18$   $p+30$  : 3329, 34469, 67139, 151769, 173669, 210809, 230339, 244859, 246509, 333269, 343529, 371069, 378149, 390419,

$p+2$   $p+14$   $p+20$  : 3167, 4547, 5417, 6659, 8627, 9629, 9719, 9767, 10709, 10889, 11939, 13397, 14387, 15647, 15887, 17957, 18287, 21737, 22109, 25169, 27239, 34127, 35507, 36899, 37547,

$p+2$   $p+14$   $p+20$   $p+22$  : f3

$p+2$   $p+14$   $p+20$   $p+24$  : 3167, 5417, 9719, 9767, 10709, 13397, 14387, 15647,

17957, 18287, 22109, 35507, 36899, 37547, 42839, 49787, 59219, 72869, 74507,  
94307, 101999, 111029, 134339, 137339, 139967,

p+ 2 p+14 p+20 p+24 p+26 : 5417, 18287, 35507, 37547, 251177, 268757,

p+ 2 p+14 p+20 p+24 p+28 : f3

p+ 2 p+14 p+20 p+24 p+30 : 9719, 10709, 17957, 36899, 134339, 137339, 174047,  
201767, 238079, 256469, 267647, 300719, 311537, 386129, 395429,

p+ 2 p+14 p+20 p+26 : 15887, 106277, 120077, 233327, 300647, 327317, 360167,  
394967, 428147, 467477,

p+ 2 p+14 p+20 p+26 p+28 : f3

p+ 2 p+14 p+20 p+26 p+30 : 106277, 233327, 327317, 360167, 428147, 467477,

p+ 2 p+14 p+20 p+28 : f3

p+ 2 p+14 p+20 p+30 : 6659, 11939, 21737, 34127, 43577, 47777, 48989, 73679,  
89819, 104759, 119657, 134837, 153407, 155579, 163307, 182027, 189947, 273899,  
322037, 349079, 362429, 389027, 411707, 412589, 423749,

p+ 2 p+14 p+22 : f3

p+ 2 p+14 p+24 : 617, 1787, 3557, 7307, 12377, 22367, 29207, 31727, 32189,  
33287, 36527, 44087, 47417, 53147, 56099, 64577, 64877, 70877, 72647, 75707,  
80207, 82139, 82889, 83639, 85199,

p+ 2 p+14 p+24 p+26 : 617, 3557, 7307, 53147, 72647, 80207, 110477, 121607,  
178907, 214007, 217337, 265247, 327557,

p+ 2 p+14 p+24 p+26 p+28 : f3

p+ 2 p+14 p+24 p+26 p+30 : 617, 121607, 217337, 265247,

p+ 2 p+14 p+24 p+28 : f3

p+ 2 p+14 p+24 p+30 : 22367, 33287, 85199, 90617, 95189, 127247, 136949,  
145007, 159539, 165587, 176507, 181889, 206249, 218627, 263489, 293999, 309107,  
351749, 358667, 363887, 414707, 456557, 488687,

p+ 2 p+14 p+26 : 197, 9857, 11717, 17417, 17837, 20147, 20507, 20717, 21647,  
22037, 34157, 35837, 35897, 44027, 48647, 70997, 72467, 75167, 79397, 92567,  
95987, 104147, 137117, 142097, 147137,

p+ 2 p+14 p+26 p+28 : f3

p+ 2 p+14 p+26 p+30 : 197, 9857, 20147, 20717, 22037, 48647, 72467, 79397,  
95987, 137117, 156227, 157277, 196277, 227567, 286367, 329267, 353627, 359297,  
407177, 412637, 422897,

p+ 2 p+14 p+28 : f3

$p+2$   $p+14$   $p+30$  : 6869, 10499, 25409, 40529, 41849, 49667, 57557, 67217, 71807, 77417, 78539, 80747, 82037, 87119, 95957, 99989, 112757, 113327, 121577, 130409, 142757, 160709, 160967, 174569, 174929,

$p+2$   $p+16$  : f3

$p+2$   $p+18$  : 1931, 2111, 2591, 2801, 3119, 3371, 3389, 5021, 5279, 5879, 6761, 7331, 9011, 9239, 10271, 11351, 11699, 16631, 17579, 17789, 18059, 18311, 18521, 19139, 20231,

$p+2$   $p+18$   $p+20$  : 1931, 2111, 3371, 6761, 7331, 11699, 16631, 17579, 18521, 22091, 22619, 26861, 33809, 38651, 49391, 57329, 58151, 65519, 70121, 70181, 72251, 80471, 88589, 91079, 98909,

$p+2$   $p+18$   $p+20$   $p+22$  : f3

$p+2$   $p+18$   $p+20$   $p+24$  : 22619, 65519, 113759, 150989, 218969, 282389, 300299, 380309, 404249, 443039,

$p+2$   $p+18$   $p+20$   $p+24$   $p+26$  : f5

$p+2$   $p+18$   $p+20$   $p+24$   $p+28$  : f3

$p+2$   $p+18$   $p+20$   $p+24$   $p+30$  :

$p+2$   $p+18$   $p+20$   $p+26$  : 2111, 16631, 38651, 49391, 70181, 72251, 216551, 296561, 338321, 383081, 386411,

$p+2$   $p+18$   $p+20$   $p+26$   $p+28$  : f3

$p+2$   $p+18$   $p+20$   $p+26$   $p+30$  : 2111, 16631, 296561,

$p+2$   $p+18$   $p+20$   $p+28$  : f3

$p+2$   $p+18$   $p+20$   $p+30$  : 6761, 17579, 26861, 98909, 109451, 173189, 203321, 225749, 251201, 285611, 289109, 299681, 306329, 327851, 402341, 440549, 446891, 448139, 475619, 483809,

$p+2$   $p+18$   $p+22$  : f3

$p+2$   $p+18$   $p+24$  : 3389, 5279, 5879, 19139, 24179, 34649, 35729, 37199, 50129, 51239, 54419, 57899, 66569, 70139, 76649, 136709, 137909, 222839, 247529, 263909, 269039, 275129, 312839, 322589, 364919,

$p+2$   $p+18$   $p+24$   $p+26$  : f5

$p+2$   $p+18$   $p+24$   $p+28$  : f3

$p+2$   $p+18$   $p+24$   $p+30$  : 5279, 34649, 35729, 50129, 54419, 76649, 136709, 269039, 275129, 390389, 433859,

$p+2$   $p+18$   $p+26$  : 2591, 31121, 39341, 50051, 53171, 64301, 68711, 133631,

134681, 135911, 136751, 143651, 148931, 150221, 160481, 162971, 166781, 169751,  
189491, 209621, 214481, 220511, 222041, 227471, 256031,

p+ 2 p+18 p+26 p+28 : f3

p+ 2 p+18 p+26 p+30 : 2591, 31121, 39341, 53171, 148931, 227471, 272381,  
325751, 347561, 422111, 440651, 453641,

p+ 2 p+18 p+28 : f3

p+ 2 p+18 p+30 : 5021, 9011, 10271, 18059, 18311, 20231, 32939, 36791, 37589,  
37781, 55439, 70919, 73061, 74729, 83561, 100361, 102299, 103289, 122051,  
133541, 135431, 138371, 153911, 164249, 168599,

p+ 2 p+20 : 521, 4157, 4421, 6449, 7349, 7457, 14009, 15329, 15581, 15971,  
16229, 16901, 20981, 21191, 22481, 24419, 25799, 25847, 27107, 27407, 28181,  
28409, 30557, 34961, 37019,

p+ 2 p+20 p+22 : f3

p+ 2 p+20 p+24 : 6449, 7457, 14009, 16229, 24419, 27407, 28409, 37337, 41519,  
50969, 52859, 58169, 63419, 77489, 81647, 84629, 87719, 98297, 98387, 99347,  
107099, 108107, 109517, 110729, 120689,

p+ 2 p+20 p+24 p+26 : 37337, 98297, 184607, 205397, 257687, 266027, 277577,  
488207,

p+ 2 p+20 p+24 p+26 p+28 : f3

p+ 2 p+20 p+24 p+26 p+30 : 98297, 205397, 257687,

p+ 2 p+20 p+24 p+28 : f3

p+ 2 p+20 p+24 p+30 : 7457, 27407, 28409, 41519, 52859, 58169, 81647, 84629,  
99347, 109517, 123377, 136859, 150587, 169889, 180287, 214787, 238919, 284129,  
286589, 294317, 296249, 324617, 330017, 343559, 355007,

p+ 2 p+20 p+26 : 521, 4421, 15581, 16901, 25847, 48731, 53897, 55901, 56711,  
57347, 65267, 78137, 90677, 95441, 104087, 106187, 122147, 124541, 127817,  
128411, 139367, 143261, 152597, 156797, 176021,

p+ 2 p+20 p+26 p+28 : f3

p+ 2 p+20 p+26 p+30 : 4421, 16901, 48731, 53897, 55901, 78137, 95441, 106187,  
139367, 143261, 176021, 207521, 306827, 358571, 363017, 414431, 419801, 473477,

p+ 2 p+20 p+28 : f3

p+ 2 p+20 p+30 : 15329, 15971, 20981, 21191, 22481, 28181, 37019, 38609, 39161,  
46307, 47387, 49277, 51767, 53279, 57221, 60659, 79559, 81899, 82529, 104849,  
110879, 112067, 113537, 120047, 126611,

p+ 2 p+22 : f3

$p+2$   $p+24$  : 1949, 2309, 3467, 7127, 9437, 10037, 17207, 19889, 20639, 27917, 30137, 30269, 30467, 31769, 32027, 32117, 33827, 34847, 36107, 38237, 40127, 42899, 43889, 45137, 46829,

$p+2$   $p+24$   $p+26$  : 9437, 27917, 30467, 32117, 40127, 49367, 59417, 67187, 69737, 72227, 80447, 96797, 102077, 140867, 148667, 153887, 154157, 169217, 175757, 178067, 189017, 198437, 227627, 295877, 305717,

$p+2$   $p+24$   $p+26$   $p+28$  : f3

$p+2$   $p+24$   $p+26$   $p+30$  : 9437, 27917, 30467, 59417, 67187, 69737, 96797, 102077, 140867, 358877, 366437, 397517, 427967, 495587,

$p+2$   $p+24$   $p+28$  : f3

$p+2$   $p+24$   $p+30$  : 1949, 2309, 10037, 19889, 31769, 32027, 33827, 34847, 36107, 42899, 51869, 59669, 61379, 65927, 70457, 76259, 80627, 81047, 88469, 91097, 94397, 98639, 107717, 117809, 125897,

$p+2$   $p+26$  : 1667, 12071, 13007, 16451, 17681, 17987, 19181, 23831, 32441, 38567, 40037, 42407, 48311, 48821, 54011, 58451, 59471, 68447, 69401, 71261, 79631, 82811, 87011, 87557, 87587,

$p+2$   $p+26$   $p+28$  : f3

$p+2$   $p+26$   $p+30$  : 1667, 12071, 13007, 16451, 19181, 42407, 48311, 58451, 68447, 69401, 87011, 87557, 102407, 103811, 104801, 134921, 139457, 140837, 143111, 146891, 155861, 156941, 162527, 175991, 177761,

$p+2$   $p+28$  : f3

$p+2$   $p+30$  : 2969, 8969, 10007, 10529, 11549, 13337, 14561, 14591, 18917, 23369, 27581, 29759, 32801, 44129, 47057, 51719, 56207, 57527, 62141, 63029, 64187, 66107, 68111, 74381, 76001,

$p+4$  : A029710 7, 13, 19, 37, 43, 67, 79, 97, 103, 109, 127, 163, 193, 223, 229, 277, 307, 313, 349, 379, 397, 439, 457, 463, 487,

$p+4$   $p+6$  : A022005 7, 13, 37, 67, 97, 103, 193, 223, 277, 307, 457, 613, 823, 853, 877, 1087, 1297, 1423, 1447, 1483, 1663, 1693, 1783, 1867, 1873,

$p+4$   $p+6$   $p+8$  : f3

$p+4$   $p+6$   $p+10$  : A052378 7, 13, 37, 97, 103, 223, 307, 457, 853, 877, 1087, 1297, 1423, 1483, 1867, 1993, 2683, 3457, 4513, 4783, 5227, 5647, 6823, 7873, 8287,

$p+4$   $p+6$   $p+10$   $p+12$  : A022007 7, 97, 1867, 3457, 5647, 15727, 16057, 19417, 43777, 79687, 88807, 101107, 257857, 266677, 276037, 284737, 340927, 354247, 375247, 402757, 419047, 427237, 463447, 470077,

$p+4$   $p+6$   $p+10$   $p+12$   $p+14$  : f3

p+ 4 p+ 6 p+10 p+12 p+16 : A022008 7, 97, 16057, 19417, 43777,  
p+ 4 p+ 6 p+10 p+12 p+16 p+18 : f5  
p+ 4 p+ 6 p+10 p+12 p+16 p+20 : f3  
p+ 4 p+ 6 p+10 p+12 p+16 p+22 : 7, f7  
p+ 4 p+ 6 p+10 p+12 p+16 p+24 : 19417, 43777,  
p+ 4 p+ 6 p+10 p+12 p+16 p+26 : f3  
p+ 4 p+ 6 p+10 p+12 p+16 p+28 : f5  
p+ 4 p+ 6 p+10 p+12 p+18 : f5  
p+ 4 p+ 6 p+10 p+12 p+20 : f3  
p+ 4 p+ 6 p+10 p+12 p+22 : 1867, 5647, 15727, 257857, 284737,  
p+ 4 p+ 6 p+10 p+12 p+22 p+24 :  
p+ 4 p+ 6 p+10 p+12 p+22 p+26 : f3  
p+ 4 p+ 6 p+10 p+12 p+22 p+28 : f5  
p+ 4 p+ 6 p+10 p+12 p+24 : 266677, 354247,  
p+ 4 p+ 6 p+10 p+12 p+24 p+26 : f3  
p+ 4 p+ 6 p+10 p+12 p+24 p+28 : f5  
p+ 4 p+ 6 p+10 p+12 p+26 : f3  
p+ 4 p+ 6 p+10 p+12 p+28 : f5  
p+ 4 p+ 6 p+10 p+12 p+30 : 340927,  
p+ 4 p+ 6 p+10 p+14 : f3  
p+ 4 p+ 6 p+10 p+16 : A078952 13, 37, 223, 1087, 1423, 1483, 2683, 4783, 20743, 27733,  
29017, 33343, 33613, 35527, 42457, 44263, 45817, 55813, 93487, 108877, 110917,  
113143, 118897, 151237, 165703,  
p+ 4 p+ 6 p+10 p+16 p+18 : 13, 223, 4783, 27733, 44263, 113143, 165703, 187123,  
198823,  
p+ 4 p+ 6 p+10 p+16 p+18 p+20 : f3  
p+ 4 p+ 6 p+10 p+16 p+18 p+22 : f5  
p+ 4 p+ 6 p+10 p+16 p+18 p+24 : 13, 113143,



$p+4$   $p+6$   $p+10$   $p+16$   $p+18$   $p+26$  : f3  
 $p+4$   $p+6$   $p+10$   $p+16$   $p+18$   $p+28$  : 223, 198823,  
 $p+4$   $p+6$   $p+10$   $p+16$   $p+20$  : f3  
 $p+4$   $p+6$   $p+10$   $p+16$   $p+22$  : 37, 1087, 110917, 276817, 289837,  
 $p+4$   $p+6$   $p+10$   $p+16$   $p+22$   $p+24$  : 37,  
 $p+4$   $p+6$   $p+10$   $p+16$   $p+22$   $p+26$  : f3  
 $p+4$   $p+6$   $p+10$   $p+16$   $p+22$   $p+28$  : f5  
 $p+4$   $p+6$   $p+10$   $p+16$   $p+24$  : 1423, 2683, 33613, 45817, 55813, 205417, 221713,  
234187, 258607,  
 $p+4$   $p+6$   $p+10$   $p+16$   $p+24$   $p+26$  : f3  
 $p+4$   $p+6$   $p+10$   $p+16$   $p+24$   $p+28$  : 1423, 2683, 33613,  
 $p+4$   $p+6$   $p+10$   $p+16$   $p+26$  : f3  
 $p+4$   $p+6$   $p+10$   $p+16$   $p+28$  : 1483, 20743, 308923, 326143,  
 $p+4$   $p+6$   $p+10$   $p+16$   $p+30$  : 42457, 108877, 118897, 414763, 468883,  
 $p+4$   $p+6$   $p+10$   $p+18$  : 1993, 6823, 17383, 19423, 21013, 22273, 23053, 24103,  
43783, 55333, 81013, 82003, 95083, 110563, 115873, 126223, 132523, 152833,  
166843, 190573, 195733, 249853, 326863, 340573, 347983,  
 $p+4$   $p+6$   $p+10$   $p+18$   $p+20$  : f3  
 $p+4$   $p+6$   $p+10$   $p+18$   $p+22$  : f5  
 $p+4$   $p+6$   $p+10$   $p+18$   $p+24$  : 1993, 19423, 95083, 110563, 132523, 152833, 166843,  
 $p+4$   $p+6$   $p+10$   $p+18$   $p+24$   $p+26$  : f3  
 $p+4$   $p+6$   $p+10$   $p+18$   $p+24$   $p+28$  : 95083, 166843,  
 $p+4$   $p+6$   $p+10$   $p+18$   $p+26$  : f3  
 $p+4$   $p+6$   $p+10$   $p+18$   $p+28$  : 23053, 81013, 82003, 115873, 195733, 249853, 340573,  
347983, 420313, 457393,  
 $p+4$   $p+6$   $p+10$   $p+18$   $p+30$  : 22273, 24103,  
 $p+4$   $p+6$   $p+10$   $p+20$  : f3  
 $p+4$   $p+6$   $p+10$   $p+22$  : 457, 1297, 13687, 92377, 111487, 113017, 113167, 134587,  
153067, 155377, 179947, 193597, 220897, 332467, 342337, 344167, 419557,

p+ 4 p+ 6 p+10 p+22 p+24 : 1297, 13687, 92377, 113017,

p+ 4 p+ 6 p+10 p+22 p+24 p+26 : f3

p+ 4 p+ 6 p+10 p+22 p+24 p+28 : f5

p+ 4 p+ 6 p+10 p+22 p+26 : f3

p+ 4 p+ 6 p+10 p+22 p+28 : f5

p+ 4 p+ 6 p+10 p+22 p+30 : 457,

p+ 4 p+ 6 p+10 p+24 : 103, 307, 853, 8287, 10453, 16063, 23557, 37987, 51193,  
54493, 60913, 80677, 86287, 88657, 90523, 96997, 114193, 136393, 148147,  
163987, 177883, 195967, 201823, 225217, 257707,

p+ 4 p+ 6 p+10 p+24 p+26 : f3

p+ 4 p+ 6 p+10 p+24 p+28 : 103, 853, 16063, 54493, 114193, 136393, 361213,

p+ 4 p+ 6 p+10 p+24 p+30 : 307, 8287, 60913, 177883, 195967, 343303, 393073,

p+ 4 p+ 6 p+10 p+26 : f3

p+ 4 p+ 6 p+10 p+28 : 7873, 13873, 21313, 93553, 150373, 195043, 225343,  
235783, 268813, 429673,

p+ 4 p+ 6 p+10 p+28 p+30 : 13873, 225343, 235783, 268813,

p+ 4 p+ 6 p+10 p+30 : 877, 36007, 42013, 98317, 116923, 123727, 172213, 202747,  
213943, 218077, 219757, 226813, 233683, 237967, 247603, 269383, 301237, 480013,

p+ 4 p+ 6 p+12 : A078850 67, 1447, 2377, 2707, 5437, 5737, 7207, 9337, 11827, 12037,  
19207, 21487, 21517, 23197, 26107, 26947, 28657, 31147, 31177, 35797, 37357,  
37567, 42697, 50587, 52177,

p+ 4 p+ 6 p+12 p+14 : f3

p+ 4 p+ 6 p+12 p+16 : A078953 67, 2377, 21487, 31177, 65167, 67927, 81547, 139297,  
166597, 178597, 185527, 305017, 305407, 321817, 341947, 390487, 427417, 448867,

p+ 4 p+ 6 p+12 p+16 p+18 : f5

p+ 4 p+ 6 p+12 p+16 p+20 : f3

p+ 4 p+ 6 p+12 p+16 p+22 : 67, 2377, 81547, 166597, 427417,

p+ 4 p+ 6 p+12 p+16 p+22 p+24 : f7

p+ 4 p+ 6 p+12 p+16 p+22 p+26 : f3

p+ 4 p+ 6 p+12 p+16 p+22 p+28 : f5

$p+4$   $p+6$   $p+12$   $p+16$   $p+24$  : 178597, 185527,  
 $p+4$   $p+6$   $p+12$   $p+16$   $p+24$   $p+26$  : f3  
 $p+4$   $p+6$   $p+12$   $p+16$   $p+24$   $p+28$  : f5  
 $p+4$   $p+6$   $p+12$   $p+16$   $p+26$  : f3  
 $p+4$   $p+6$   $p+12$   $p+16$   $p+28$  : f5  
 $p+4$   $p+6$   $p+12$   $p+16$   $p+30$  : 21487, 67927, 305017, 321817,  
 $p+4$   $p+6$   $p+12$   $p+18$  : f5  
 $p+4$   $p+6$   $p+12$   $p+20$  : f3  
 $p+4$   $p+6$   $p+12$   $p+22$  : 2707, 7207, 37357, 37567, 42697, 69997, 74197, 103387,  
 117877, 221197, 272347, 275917, 303007, 317587, 345727, 349927, 365467, 388477,  
 488227, 490537,  
 $p+4$   $p+6$   $p+12$   $p+22$   $p+24$  : 2707, 37567, 275917,  
 $p+4$   $p+6$   $p+12$   $p+22$   $p+24$   $p+26$  : f3  
 $p+4$   $p+6$   $p+12$   $p+22$   $p+24$   $p+28$  : f5  
 $p+4$   $p+6$   $p+12$   $p+22$   $p+26$  : f3  
 $p+4$   $p+6$   $p+12$   $p+22$   $p+28$  : f5  
 $p+4$   $p+6$   $p+12$   $p+22$   $p+30$  : 7207, 42697, 221197, 317587, 345727,  
 $p+4$   $p+6$   $p+12$   $p+24$  : 1447, 19207, 52177, 106657, 159787, 199807, 261427,  
 307627, 309007, 375997, 423457, 451897, 492757,  
 $p+4$   $p+6$   $p+12$   $p+24$   $p+26$  : f3  
 $p+4$   $p+6$   $p+12$   $p+24$   $p+28$  : f5  
 $p+4$   $p+6$   $p+12$   $p+24$   $p+30$  : 19207, 309007,  
 $p+4$   $p+6$   $p+12$   $p+26$  : f3  
 $p+4$   $p+6$   $p+12$   $p+28$  : f5  
 $p+4$   $p+6$   $p+12$   $p+30$  : 23197, 28657, 31147, 122497, 126487, 290527, 363367,  
 374287, 376627, 395107, 404527,  
 $p+4$   $p+6$   $p+14$  : f3  
 $p+4$   $p+6$   $p+16$  : 277, 823, 1693, 1873, 2083, 2137, 3847, 5653, 6547, 9277,  
 15733, 18043, 18127, 20353, 29383, 34297, 38707, 38917, 39367, 40693, 41227,  
 41953, 44617, 55213, 56473,

p+ 4 p+ 6 p+16 p+18 : 18043, 29383, 65713, 74713, 89653, 97843, 98893, 103963,  
108943, 117973, 119083, 199483, 209563, 211213, 211873, 298153, 358273, 392263,  
422083, 451663, 476023, 480043, 489673,

p+ 4 p+ 6 p+16 p+18 p+20 : f3

p+ 4 p+ 6 p+16 p+18 p+22 : f5

p+ 4 p+ 6 p+16 p+18 p+24 : 108943, 119083, 358273,

p+ 4 p+ 6 p+16 p+18 p+24 p+26 : f3

p+ 4 p+ 6 p+16 p+18 p+24 p+28 : 108943, 358273,

p+ 4 p+ 6 p+16 p+18 p+26 : f3

p+ 4 p+ 6 p+16 p+18 p+28 : 29383, 89653, 97843, 103963, 211213, 422083, 451663,  
480043,

p+ 4 p+ 6 p+16 p+18 p+30 :

p+ 4 p+ 6 p+16 p+20 : f3

p+ 4 p+ 6 p+16 p+22 : 6547, 18127, 34297, 38707, 57787, 60757, 85087, 124777,  
167017, 170347, 185677, 198937, 210907, 211927, 219937, 237157, 248887, 260857,  
281647, 340057, 375097, 426757, 470647,

p+ 4 p+ 6 p+16 p+22 p+24 : 6547, 170347, 375097,

p+ 4 p+ 6 p+16 p+22 p+24 p+26 : f3

p+ 4 p+ 6 p+16 p+22 p+24 p+28 : f5

p+ 4 p+ 6 p+16 p+22 p+26 : f3

p+ 4 p+ 6 p+16 p+22 p+28 : f5

p+ 4 p+ 6 p+16 p+22 p+30 : 34297, 38707, 167017, 185677, 198937, 426757,

p+ 4 p+ 6 p+16 p+24 : 2137, 44617, 104677, 108187, 149053, 220873, 281833,  
286453, 329293, 338263, 338407, 366697, 394813, 413863, 442003, 444523, 486037,  
495613,

p+ 4 p+ 6 p+16 p+24 p+26 : f3

p+ 4 p+ 6 p+16 p+24 p+28 : 220873, 329293, 442003,

p+ 4 p+ 6 p+16 p+24 p+30 : 44617, 104677, 108187, 286453, 338263, 366697,  
444523,

p+ 4 p+ 6 p+16 p+26 : f3

$p+4$   $p+6$   $p+16$   $p+28$  : 1693, 1873, 2083, 15733, 41953, 56473, 58363, 77263, 86923, 122203, 327823, 355513, 360973, 389563, 470593, 473923,

$p+4$   $p+6$   $p+16$   $p+28$   $p+30$  : 1693, 2083, 41953, 56473, 58363, 327823, 360973, 473923,

$p+4$   $p+6$   $p+16$   $p+30$  : 277, 823, 3847, 5653, 39367, 41227, 55213, 66943, 83227, 91807, 92173, 108007, 109843, 115777, 159667, 169063, 188827, 240043, 249433, 250963, 257863, 270547, 272533, 296473, 328327,

$p+4$   $p+6$   $p+18$  : 193, 613, 1783, 3163, 3253, 5413, 8623, 11113, 12373, 15643, 20143, 22153, 25303, 31723, 34123, 36523, 43573, 47143, 49663, 49783, 51343, 67213, 72643, 75703, 79393,

$p+4$   $p+6$   $p+18$   $p+20$  : f3

$p+4$   $p+6$   $p+18$   $p+22$  : f5

$p+4$   $p+6$   $p+18$   $p+24$  : 3163, 5413, 8623, 15643, 34123, 43573, 49783, 106273, 119653, 145753, 201493, 221653, 233323, 267643, 283093, 287233, 311533, 352813, 360163, 389023, 394963, 411703, 428143, 431863, 467473,

$p+4$   $p+6$   $p+18$   $p+24$   $p+26$  : f3

$p+4$   $p+6$   $p+18$   $p+24$   $p+28$  : 3163, 5413, 15643, 49783, 267643, 283093, 311533, 352813, 431863,

$p+4$   $p+6$   $p+18$   $p+24$   $p+30$  : 106273, 233323, 360163, 394963, 428143, 467473,

$p+4$   $p+6$   $p+18$   $p+26$  : f3

$p+4$   $p+6$   $p+18$   $p+28$  : 613, 1783, 12373, 31723, 36523, 72643, 75703, 119293, 125113, 176503, 178903, 187633, 209353, 214003, 217333, 218623, 253633, 266683, 304063, 322243, 327553, 414703, 426913, 456553,

$p+4$   $p+6$   $p+18$   $p+28$   $p+30$  : 613, 72643, 178903, 214003, 217333, 327553,

$p+4$   $p+6$   $p+18$   $p+30$  : 193, 20143, 79393, 157273, 422893,

$p+4$   $p+6$   $p+20$  : f3

$p+4$   $p+6$   $p+22$  : 2797, 9007, 10267, 18307, 18517, 27277, 36787, 49117, 50047, 55927, 58147, 70117, 70177, 83557, 85447, 90067, 100357, 106957, 134677, 135427, 148927, 150217, 166297, 182467, 184627,

$p+4$   $p+6$   $p+22$   $p+24$  : 18517, 58147, 70117, 70177, 184627, 203317, 233917, 237067, 244837, 251197, 296557, 302167, 351727, 373207, 383077, 471277,

$p+4$   $p+6$   $p+22$   $p+24$   $p+26$  : f3

$p+4$   $p+6$   $p+22$   $p+24$   $p+28$  : f5

$p+4$   $p+6$   $p+22$   $p+24$   $p+30$  : 70177, 296557, 383077,

p+ 4 p+ 6 p+22 p+26 : f3

p+ 4 p+ 6 p+22 p+28 : f5

p+ 4 p+ 6 p+22 p+30 : 50047, 134677, 148927, 150217, 227467, 274117, 325747, 372607, 435397, 453637, 473197,

p+ 4 p+ 6 p+24 : 4153, 21187, 27103, 30553, 39157, 45337, 54577, 55897, 76537, 123373, 131707, 135277, 143257, 145963, 146677, 150583, 156487, 176017, 191137, 196657, 200983, 207517, 211657, 212203, 214783,

p+ 4 p+ 6 p+24 p+26 : f3

p+ 4 p+ 6 p+24 p+28 : 123373, 145963, 150583, 200983, 214783, 266023, 294313, 346393, 392803, 415603, 434383, 482683, 488203,

p+ 4 p+ 6 p+24 p+28 p+30 : 266023, 488203,

p+ 4 p+ 6 p+24 p+30 : 55897, 143257, 176017, 196657, 207517, 451177, 499687,

p+ 4 p+ 6 p+26 : f3

p+ 4 p+ 6 p+28 : 3463, 9433, 17203, 30133, 34843, 40123, 47653, 49363, 72223, 81043, 99523, 101113, 102673, 107713, 138793, 140863, 146983, 148663, 151603, 154153, 164443, 175753, 182653, 184993, 194863,

p+ 4 p+ 6 p+28 p+30 : 9433, 40123, 49363, 72223, 140863, 148663, 154153, 175753, 295873, 312673, 366433, 375253, 416413,

p+ 4 p+ 6 p+30 : 1663, 13003, 16447, 23827, 42403, 48817, 59467, 68443, 71257, 79627, 87553, 87583, 88813, 101833, 103837, 106213, 134917, 142867, 143107, 160087, 162523, 186157, 189433, 189613, 207967,

p+ 4 p+ 8 : f3

p+ 4 p+10 : A078561 19, 43, 79, 127, 163, 229, 349, 379, 439, 499, 643, 673, 937, 967, 1009, 1093, 1213, 1279, 1429, 1489, 1549, 1597, 1609, 2203, 2347,

p+ 4 p+10 p+12 : A078851 19, 127, 229, 1009, 1279, 1597, 1609, 2539, 3319, 3529, 3907, 3919, 4639, 4789, 4999, 5839, 5857, 7477, 7537, 8419, 9619, 12097, 12907, 13327, 15259,

p+ 4 p+10 p+12 p+14 : f3

p+ 4 p+10 p+12 p+16 : A078954 1597, 3907, 12097, 12907, 38317, 58897, 65827, 90007, 90187, 112237, 129277, 134077, 140407, 176317, 204427, 336757, 374977, 390097, 394717, 435637, 486667,

p+ 4 p+10 p+12 p+16 p+18 : f5

p+ 4 p+10 p+12 p+16 p+20 : f3

$p+4$   $p+10$   $p+12$   $p+16$   $p+22$  : 1597, 3907, 12097, 390097, 394717,  
 $p+4$   $p+10$   $p+12$   $p+16$   $p+22$   $p+24$  : 1597, 3907,  
 $p+4$   $p+10$   $p+12$   $p+16$   $p+22$   $p+26$  : f3  
 $p+4$   $p+10$   $p+12$   $p+16$   $p+22$   $p+28$  : f5  
 $p+4$   $p+10$   $p+12$   $p+16$   $p+24$  : 58897, 65827, 90007, 112237, 435637,  
 $p+4$   $p+10$   $p+12$   $p+16$   $p+24$   $p+26$  : f3  
 $p+4$   $p+10$   $p+12$   $p+16$   $p+24$   $p+28$  : f5  
 $p+4$   $p+10$   $p+12$   $p+16$   $p+26$  : f3  
 $p+4$   $p+10$   $p+12$   $p+16$   $p+28$  : f5  
 $p+4$   $p+10$   $p+12$   $p+16$   $p+30$  : 90187, 176317, 486667,  
 $p+4$   $p+10$   $p+12$   $p+18$  : A078955 19, 1279, 1609, 2539, 3529, 4639, 5839, 15259, 19069,  
32359, 71329, 75979, 88789, 97369, 112909, 113149, 130639, 135589, 138559,  
191449, 229759, 246919, 290659, 312199, 346429,  
 $p+4$   $p+10$   $p+12$   $p+18$   $p+20$  : f3  
 $p+4$   $p+10$   $p+12$   $p+18$   $p+22$  : 19, 1279, 5839, 32359, 75979, 88789, 113149, 138559,  
229759, 246919, 357649, 433249, 460969,  
 $p+4$   $p+10$   $p+12$   $p+18$   $p+22$   $p+24$  : 19, 1279, 75979, 88789, 113149,  
 $p+4$   $p+10$   $p+12$   $p+18$   $p+22$   $p+26$  : f3  
 $p+4$   $p+10$   $p+12$   $p+18$   $p+22$   $p+28$  : 5839, 138559, 246919, 357649,  
 $p+4$   $p+10$   $p+12$   $p+18$   $p+24$  : 4639, 71329, 135589, 191449, 346429, 416389, 435559,  
 $p+4$   $p+10$   $p+12$   $p+18$   $p+24$   $p+26$  : f3  
 $p+4$   $p+10$   $p+12$   $p+18$   $p+24$   $p+28$  : 135589, 416389,  
 $p+4$   $p+10$   $p+12$   $p+18$   $p+26$  : f3  
 $p+4$   $p+10$   $p+12$   $p+18$   $p+28$  : 1609, 3529, 15259, 97369, 349369, 384469, 396619,  
421699,  
 $p+4$   $p+10$   $p+12$   $p+18$   $p+30$  : 112909, 312199, 450799,  
 $p+4$   $p+10$   $p+12$   $p+20$  : f3  
 $p+4$   $p+10$   $p+12$   $p+22$  : 127, 229, 1009, 4999, 5857, 7477, 7537, 23017, 24967,  
28537, 33577, 39229, 39499, 46807, 51427, 112327, 122029, 141667, 157207,  
159157, 165037, 198829, 208489, 223207, 241249,

p+ 4 p+10 p+12 p+22 p+24 : 127, 1009, 4999, 5857, 7537, 23017, 33577, 46807,  
122029, 157207, 208489, 272179, 324427, 352399, 422857,

p+ 4 p+10 p+12 p+22 p+24 p+26 : f3

p+ 4 p+10 p+12 p+22 p+24 p+28 :

p+ 4 p+10 p+12 p+22 p+26 : f3

p+ 4 p+10 p+12 p+22 p+28 : 229, 443749, 499129,

p+ 4 p+10 p+12 p+22 p+30 : 7477, 141667, 198829, 333019, 355027, 423277,

p+ 4 p+10 p+12 p+24 : 3319, 3919, 4789, 8419, 9619, 15877, 22027, 27739, 36919,  
44017, 44269, 99709, 115849, 124339, 132697, 142969, 174067, 183499, 185947,  
280537, 284149, 303679, 317959, 327307, 349399,

p+ 4 p+10 p+12 p+24 p+26 : f3

p+ 4 p+10 p+12 p+24 p+28 : 3319, 3919, 4789, 8419, 27739, 36919, 115849,  
124339, 183499, 317959, 357559, 447439, 491329,

p+ 4 p+10 p+12 p+24 p+30 : 9619, 15877, 327307, 443869,

p+ 4 p+10 p+12 p+26 : f3

p+ 4 p+10 p+12 p+28 : 17569, 50119, 54409, 209809, 289099, 495559,

p+ 4 p+10 p+12 p+28 p+30 : 17569, 289099, 495559,

p+ 4 p+10 p+12 p+30 : 53887, 230929, 245407, 260539, 295429, 315517, 369067,  
379387, 404419, 440497, 457087,

p+ 4 p+10 p+14 : f3

p+ 4 p+10 p+16 : A078852 43, 163, 643, 937, 967, 1093, 1213, 2953, 4003, 4447, 6967,  
7573, 8737, 9463, 10243, 10597, 11923, 12487, 12637, 13033, 14533, 14737,  
15787, 16087, 16417,

p+ 4 p+10 p+16 p+18 : A078956 43, 163, 643, 1213, 2953, 4003, 7573, 11923, 14533,  
25453, 26683, 26713, 29863, 41593, 48523, 61543, 68473, 150193, 151153, 172423,  
206803, 227593, 290023, 302563, 338563,

p+ 4 p+10 p+16 p+18 p+20 : f3

p+ 4 p+10 p+16 p+18 p+22 : f5

p+ 4 p+10 p+16 p+18 p+24 : 43, 1213, 4003, 14533, 26713, 41593, 150193, 206803,  
290023, 302563, 428023,

p+ 4 p+10 p+16 p+18 p+24 p+26 : f3



$p+4$   $p+10$   $p+16$   $p+18$   $p+24$   $p+28$  : 43, 14533, 41593, 150193,  
 $p+4$   $p+10$   $p+16$   $p+18$   $p+26$  : f3  
 $p+4$   $p+10$   $p+16$   $p+18$   $p+28$  : 163, 26683, 68473,  
 $p+4$   $p+10$   $p+16$   $p+18$   $p+30$  : 643, 7573, 11923,  
 $p+4$   $p+10$   $p+16$   $p+20$  : f3  
 $p+4$   $p+10$   $p+16$   $p+22$  : 12637, 14737, 15787, 17467, 78787, 95257, 104707, 120997,  
154057, 243517, 250027, 252877, 351037, 357667, 443227, 496477,  
 $p+4$   $p+10$   $p+16$   $p+22$   $p+24$  : 17467, 120997, 154057, 250027, 351037,  
 $p+4$   $p+10$   $p+16$   $p+22$   $p+24$   $p+26$  : f3  
 $p+4$   $p+10$   $p+16$   $p+22$   $p+24$   $p+28$  : f5  
 $p+4$   $p+10$   $p+16$   $p+22$   $p+26$  : f3  
 $p+4$   $p+10$   $p+16$   $p+22$   $p+28$  : f5  
 $p+4$   $p+10$   $p+16$   $p+22$   $p+30$  : 14737, 15787, 95257,  
 $p+4$   $p+10$   $p+16$   $p+24$  : 967, 1093, 6967, 8737, 10243, 12487, 16087, 17317, 40483,  
47293, 47497, 60607, 61627, 82483, 88993, 92353, 110923, 142543, 146833,  
183373, 188677, 196177, 216103, 228577, 253423,  
 $p+4$   $p+10$   $p+16$   $p+24$   $p+26$  : f3  
 $p+4$   $p+10$   $p+16$   $p+24$   $p+28$  : 10243, 88993, 92353, 110923, 349903, 373183, 473503,  
 $p+4$   $p+10$   $p+16$   $p+24$   $p+30$  : 967, 1093, 6967, 12487, 47497, 60607, 61627, 142543,  
188677, 216103, 303283, 311173, 330037, 390343, 474907,  
 $p+4$   $p+10$   $p+16$   $p+26$  : f3  
 $p+4$   $p+10$   $p+16$   $p+28$  : 9463, 22063, 27763, 78163, 79813, 103993, 112573, 157243,  
189463, 284803, 289843, 297613, 304933, 307273, 381373, 418783, 427513, 472123,  
 $p+4$   $p+10$   $p+16$   $p+28$   $p+30$  : 22063, 27763, 78163, 79813, 112573, 157243, 189463,  
284803, 418783,  
 $p+4$   $p+10$   $p+16$   $p+30$  : 937, 10597, 13033, 16417, 20113, 32983, 39103, 44533,  
100927, 105967, 126307, 137383, 223243, 229123, 286483, 301897, 312397, 329587,  
376573, 393667, 436963, 450883, 458977, 483757,  
 $p+4$   $p+10$   $p+18$  : 79, 349, 379, 439, 673, 1429, 1549, 2203, 2689, 2833, 3613,  
4933, 8689, 10159, 12889, 13903, 14713, 15073, 15373, 20323, 20389, 21139,  
21559, 23743, 23869,  
 $p+4$   $p+10$   $p+18$   $p+20$  : f3

p+ 4 p+10 p+18 p+22 : 79, 379, 439, 1429, 1549, 2689, 10159, 12889, 20389,  
31249, 32779, 33619, 57709, 58189, 123979, 129439, 143239, 159769, 166609,  
172849, 200569, 258109, 300739, 340909, 373339,

p+ 4 p+10 p+18 p+22 p+24 : 79, 439, 1429, 2689, 32779, 143239, 159769, 340909,  
373339, 388159, 499669,

p+ 4 p+10 p+18 p+22 p+24 p+26 : f3

p+ 4 p+10 p+18 p+22 p+24 p+28 : 79, 439, 340909, 388159,

p+ 4 p+10 p+18 p+22 p+26 : f3

p+ 4 p+10 p+18 p+22 p+28 : 12889, 31249, 33619, 57709, 58189, 172849, 200569,  
427429, 480499,

p+ 4 p+10 p+18 p+22 p+30 : 379, 1549, 129439,

p+ 4 p+10 p+18 p+24 : 349, 2833, 3613, 4933, 8689, 14713, 20323, 21139, 23743,  
23869, 27799, 27943, 32059, 42433, 47119, 55819, 71143, 86239, 95713, 118033,  
128659, 131293, 147769, 153739, 169933,

p+ 4 p+10 p+18 p+24 p+26 : f3

p+ 4 p+10 p+18 p+24 p+28 : 2833, 14713, 27799, 42433, 47119, 71143, 118033,  
131293, 274843, 348433, 362353, 434803, 444859,

p+ 4 p+10 p+18 p+24 p+30 : 349, 3613, 8689, 20323, 21139, 23743, 23869, 32059,  
55819, 86239, 147769, 199999, 264739,

p+ 4 p+10 p+18 p+26 : f3

p+ 4 p+10 p+18 p+28 : 673, 13903, 15073, 15373, 21559, 25339, 28279, 55663,  
68899, 69463, 105499, 128983, 136333, 139483, 143509, 155689, 158563, 165523,  
191689, 199669, 204133, 221719, 224299, 251473, 295843,

p+ 4 p+10 p+18 p+28 p+30 : 13903, 21559, 28279, 69463, 105499, 155689, 165523,  
204133, 295843, 410383, 470443,

p+ 4 p+10 p+18 p+30 : 45823, 68209, 109579, 130069, 141619, 157999, 166399,  
194083, 194809, 205423, 223273, 239233, 242629, 254773, 254869, 255649, 296269,  
313879, 372829, 394729, 398539, 402583, 434293, 482509,

p+ 4 p+10 p+20 : f3

p+ 4 p+10 p+22 : 499, 1489, 2389, 2437, 5077, 9199, 9829, 11779, 13099, 14947,  
16879, 20749, 21397, 22717, 25579, 27427, 32299, 35107, 35149, 37507, 40819,  
41179, 44497, 45949, 46747,

p+ 4 p+10 p+22 p+24 : 499, 5077, 16879, 20749, 22717, 25579, 32299, 41179,  
46747, 48757, 52879, 58207, 69379, 77239, 81349, 84499, 85597, 125197, 125617,  
128389, 152419, 191227, 193789, 313717, 327469,

$p+4$   $p+10$   $p+22$   $p+24$   $p+26$  :  $f_3$

$p+4$   $p+10$   $p+22$   $p+24$   $p+28$  : 32299, 77239, 432139,

$p+4$   $p+10$   $p+22$   $p+24$   $p+30$  : 5077, 25579, 48757, 58207, 85597, 327469, 339649, 366997, 392827, 405679, 429907,

$p+4$   $p+10$   $p+22$   $p+26$  :  $f_3$

$p+4$   $p+10$   $p+22$   $p+28$  : 2389, 9199, 9829, 11779, 13099, 40819, 65119, 94999, 266089, 276439, 298579, 337339,

$p+4$   $p+10$   $p+22$   $p+28$   $p+30$  : 9829, 40819, 337339,

$p+4$   $p+10$   $p+22$   $p+30$  : 2437, 27427, 37507, 45949, 67957, 96259, 123397, 147289, 167077, 183037, 192229, 210709, 236377, 269179, 294799, 319027, 329947, 340027,

$p+4$   $p+10$   $p+24$  : 2347, 4129, 6043, 10333, 10729, 14149, 14629, 23599, 24019, 30109, 30703, 35593, 36469, 41617, 42463, 46447, 46639, 49033, 53629, 57139, 57727, 59443, 59557, 61483, 62473,

$p+4$   $p+10$   $p+24$   $p+26$  :  $f_3$

$p+4$   $p+10$   $p+24$   $p+28$  : 4129, 14149, 14629, 23599, 30109, 36469, 42463, 53629, 59443, 61483, 62473, 72949, 74353, 75679, 111949, 118249, 118903, 125683, 137359, 155773, 169909, 170239, 181273, 185299, 190759,

$p+4$   $p+10$   $p+24$   $p+28$   $p+30$  : 4129, 23599, 30109, 59443, 74353, 75679, 181273, 197269, 217309, 225499, 268969, 360949, 375223,

$p+4$   $p+10$   $p+24$   $p+30$  : 2347, 6043, 24019, 41617, 46447, 63463, 80779, 99079, 99367, 102643, 124669, 125707, 140167, 154723, 174649, 180307, 185893, 195883, 218107, 280219, 347509, 354139, 358723, 384817, 398029,

$p+4$   $p+10$   $p+26$  :  $f_3$

$p+4$   $p+10$   $p+28$  : 3793, 9739, 20173, 33349, 34603, 39313, 59743, 69193, 73009, 79423, 93253, 99013, 106363, 115123, 138889, 145633, 163633, 173263, 176923, 184003, 200899, 204793, 214663, 215389, 219679,

$p+4$   $p+10$   $p+28$   $p+30$  : 3793, 9739, 39313, 73009, 93253, 115123, 173263, 200899, 241333, 304429, 317323, 320053, 320209, 357583, 393373, 438979,

$p+4$   $p+10$   $p+30$  : 3079, 7639, 8233, 11083, 25117, 29917, 39979, 41047, 43987, 65647, 66037, 66373, 67339, 72043, 72613, 74017, 93493, 99829, 107347, 109537, 126037, 151243, 195127, 198967, 200227,

$p+4$   $p+12$  : 397, 487, 739, 757, 907, 1567, 1999, 2239, 2269, 2659, 3037, 3217, 3697, 3877, 5167, 5569, 5689, 5779, 6199, 6217, 6469, 6829, 7669, 7687, 8089,

$p+4$   $p+12$   $p+14$  :  $f_3$

p+ 4 p+12 p+16 : 487, 757, 1567, 7687, 8677, 13147, 14407, 14767, 15667, 52567, 57637, 67477, 74857, 93967, 94777, 95467, 95617, 102547, 111427, 114757, 123817, 132607, 152377, 170227, 187177,

p+ 4 p+12 p+16 p+18 : f5

p+ 4 p+12 p+16 p+20 : f3

p+ 4 p+12 p+16 p+22 : 487, 8677, 67477, 170227, 197257, 242617, 255637, 346417, 402847, 437137, 449677, 482017, 488317,

p+ 4 p+12 p+16 p+22 p+24 : 346417,

p+ 4 p+12 p+16 p+22 p+24 p+26 : f3

p+ 4 p+12 p+16 p+22 p+24 p+28 : f5

p+ 4 p+12 p+16 p+22 p+26 : f3

p+ 4 p+12 p+16 p+22 p+28 : f5

p+ 4 p+12 p+16 p+22 p+30 : 8677, 242617, 255637, 488317,

p+ 4 p+12 p+16 p+24 : 13147, 14407, 114757, 132607, 231547, 353317, 459607, 476587,

p+ 4 p+12 p+16 p+24 p+26 : f3

p+ 4 p+12 p+16 p+24 p+28 : f5

p+ 4 p+12 p+16 p+24 p+30 : 13147, 14407, 132607,

p+ 4 p+12 p+16 p+26 : f3

p+ 4 p+12 p+16 p+28 : f5

p+ 4 p+12 p+16 p+30 : 757, 1567, 7687, 14767, 57637, 74857, 93967, 152377, 201907, 210097, 210127, 239527, 256117, 259627, 375967, 376807,

p+ 4 p+12 p+18 : 739, 1999, 2269, 2659, 6199, 7669, 11239, 13159, 14419, 17029, 18439, 19429, 21379, 29569, 31219, 37489, 54709, 56809, 64609, 65539, 70309, 72889, 77509, 79609, 82219,

p+ 4 p+12 p+18 p+20 : f3

p+ 4 p+12 p+18 p+22 : 739, 6199, 7669, 11239, 18439, 21379, 37489, 72889, 79609, 82219, 87679, 91939, 95089, 99559, 105319, 118669, 126019, 126739, 127579, 132949, 136519, 166849, 218509, 272329, 313549,

p+ 4 p+12 p+18 p+22 p+24 : 79609, 272329,

p+ 4 p+12 p+18 p+22 p+24 p+26 : f3

$p+4$   $p+12$   $p+18$   $p+22$   $p+24$   $p+28$  :

$p+4$   $p+12$   $p+18$   $p+22$   $p+26$  : f3

$p+4$   $p+12$   $p+18$   $p+22$   $p+28$  : 21379, 37489, 91939, 126019, 127579, 136519, 458959, 478399,

$p+4$   $p+12$   $p+18$   $p+22$   $p+30$  : 739, 6199, 7669, 324979,

$p+4$   $p+12$   $p+18$   $p+24$  : 2269, 2659, 13159, 17029, 64609, 65539, 91369, 103549, 121309, 172969, 188299, 203209, 206179, 246769, 252139, 255499, 280909, 282679, 341269, 369979, 414679, 494719,

$p+4$   $p+12$   $p+18$   $p+24$   $p+26$  : f3

$p+4$   $p+12$   $p+18$   $p+24$   $p+28$  : 2269, 2659, 13159, 91369, 103549, 282679, 414679,

$p+4$   $p+12$   $p+18$   $p+24$   $p+30$  : 172969, 206179, 252139, 280909, 369979, 494719,

$p+4$   $p+12$   $p+18$   $p+26$  : f3

$p+4$   $p+12$   $p+18$   $p+28$  : 1999, 14419, 19429, 31219, 110569, 132229, 132619, 145459, 185149, 185539, 210229, 229699, 254959, 268909, 430879,

$p+4$   $p+12$   $p+18$   $p+28$   $p+30$  : 1999, 14419, 31219, 185539, 430879,

$p+4$   $p+12$   $p+18$   $p+30$  : 29569, 83059, 117499, 150889, 178609, 199399, 271849, 280699, 282559, 393709, 470149, 497659,

$p+4$   $p+12$   $p+20$  : f3

$p+4$   $p+12$   $p+22$  : 397, 907, 3697, 5167, 5569, 5689, 5779, 6469, 8089, 8929, 11677, 15439, 21859, 23059, 33457, 39439, 41647, 42487, 56659, 73939, 77347, 80599, 81019, 82009, 93889,

$p+4$   $p+12$   $p+22$   $p+24$  : 397, 11677, 81019, 93889, 102229, 113359, 115879, 119827, 162727, 173647, 234319, 281527, 309457, 312229, 324997, 332179, 354439, 380287, 412189, 449149, 497257,

$p+4$   $p+12$   $p+22$   $p+24$   $p+26$  : f3

$p+4$   $p+12$   $p+22$   $p+24$   $p+28$  : 81019, 332179,

$p+4$   $p+12$   $p+22$   $p+24$   $p+30$  : 102229, 281527, 324997, 354439, 412189,

$p+4$   $p+12$   $p+22$   $p+26$  : f3

$p+4$   $p+12$   $p+22$   $p+28$  : 5689, 5779, 8089, 15439, 23059, 56659, 80599, 82009, 97549, 155719, 179029, 205129, 251059, 320839, 344209, 347989, 363529, 439759, 453289, 467629, 479749,

$p+4$   $p+12$   $p+22$   $p+28$   $p+30$  : 80599, 82009, 97549,

p+ 4 p+12 p+22 p+30 : 907, 3697, 5167, 33457, 77347, 96457, 161137, 255847,  
281989, 287137, 340789, 367819, 418177, 420319, 424117, 434827, 437497, 489427,

p+ 4 p+12 p+24 : 3037, 8167, 10627, 12277, 12409, 22279, 24109, 26017, 33199,  
36559, 44959, 53089, 62299, 66529, 66919, 77719, 100267, 102019, 108529,  
151549, 155797, 156127, 156679, 160579, 163729,

p+ 4 p+12 p+24 p+26 : f3

p+ 4 p+12 p+24 p+28 : 12409, 22279, 24109, 36559, 44959, 53089, 62299, 66919,  
77719, 108529, 156679, 171799, 214759, 240259, 241639, 300319, 348559, 468109,

p+ 4 p+12 p+24 p+28 p+30 : 66919, 214759,

p+ 4 p+12 p+24 p+30 : 3037, 10627, 100267, 151549, 156127, 167887, 230077,  
244399, 304009, 316189, 366169, 392209, 399757, 407287,

p+ 4 p+12 p+26 : f3

p+ 4 p+12 p+28 : 2239, 6829, 17389, 37309, 40759, 43399, 44839, 54319, 58309,  
58909, 65839, 83089, 87739, 89599, 101599, 105529, 114769, 120709, 126229,  
189349, 190579, 212869, 218989, 276949, 288049,

p+ 4 p+12 p+28 p+30 : 2239, 17389, 37309, 114769, 120709, 218989, 299389,  
301459, 309079, 436279, 449959, 459619,

p+ 4 p+12 p+30 : 3877, 6217, 18367, 22639, 24469, 24847, 25939, 36709, 50329,  
53407, 56167, 69427, 72547, 74929, 76507, 78229, 78889, 90469, 93937, 107197,  
112249, 113719, 125299, 125929, 136417,

p+ 4 p+14 : f3

p+ 4 p+16 : 463, 1303, 2293, 2617, 3187, 3343, 5503, 5923, 6997, 7933, 8803,  
9157, 9787, 10177, 11257, 11467, 11617, 13693, 14653, 14827, 16603, 16657,  
18253, 18397, 19387,

p+ 4 p+16 p+18 : 1303, 2293, 3343, 5503, 7933, 8803, 13693, 28603, 34483,  
44683, 51043, 53593, 56893, 66343, 72073, 83203, 86353, 87103, 92383, 92623,  
94543, 98713, 106303, 107053, 113023,

p+ 4 p+16 p+18 p+20 : f3

p+ 4 p+16 p+18 p+22 : f5

p+ 4 p+16 p+18 p+24 : 1303, 5503, 28603, 53593, 83203, 92623, 98713, 107053,  
192613, 273043, 326593, 363043, 371233, 443983,

p+ 4 p+16 p+18 p+24 p+26 : f3

p+ 4 p+16 p+18 p+24 p+28 : 5503, 28603, 83203,

p+ 4 p+16 p+18 p+24 p+30 : 53593, 273043,

$p+4$   $p+16$   $p+18$   $p+26$  : f3

$p+4$   $p+16$   $p+18$   $p+28$  : 3343, 8803, 13693, 34483, 44683, 51043, 56893, 72073, 86353, 106303, 113023, 135193, 172153, 206623, 215443, 241903, 263383, 370423, 464923, 495343,

$p+4$   $p+16$   $p+18$   $p+28$   $p+30$  : 3343, 13693, 34483, 56893, 72073, 464923,

$p+4$   $p+16$   $p+18$   $p+30$  : 7933, 66343, 87103, 92383, 94543, 133963, 204583, 206233, 274693, 320923, 326083, 379663, 407203, 426073,

$p+4$   $p+16$   $p+20$  : f3

$p+4$   $p+16$   $p+22$  : 3187, 6997, 11257, 11467, 28627, 47947, 51577, 55057, 58027, 66067, 67057, 84697, 87277, 94327, 111577, 111637, 114997, 128857, 140317, 149377, 168067, 171637, 182107, 190387, 190807,

$p+4$   $p+16$   $p+22$   $p+24$  : 11467, 94327, 114997, 182107, 249517, 304537, 338137, 455317,

$p+4$   $p+16$   $p+22$   $p+24$   $p+26$  : f3

$p+4$   $p+16$   $p+22$   $p+24$   $p+28$  : f5

$p+4$   $p+16$   $p+22$   $p+24$   $p+30$  : 11467, 338137,

$p+4$   $p+16$   $p+22$   $p+26$  : f3

$p+4$   $p+16$   $p+22$   $p+28$  : f5

$p+4$   $p+16$   $p+22$   $p+30$  : 3187, 6997, 11257, 28627, 47947, 51577, 58027, 111637, 190807, 212557, 220147, 270307, 313567, 375757, 382747, 467527,

$p+4$   $p+16$   $p+24$  : 463, 9157, 9787, 14827, 20047, 23977, 26293, 30493, 36583, 44773, 49807, 57073, 60013, 61027, 61987, 66697, 71233, 72907, 75013, 79333, 109363, 115807, 120847, 121267, 125383,

$p+4$   $p+16$   $p+24$   $p+26$  : f3

$p+4$   $p+16$   $p+24$   $p+28$  : 463, 26293, 60013, 71233, 75013, 109363, 207013, 241663, 244873, 336223, 349183, 495433,

$p+4$   $p+16$   $p+24$   $p+28$   $p+30$  : 71233, 336223,

$p+4$   $p+16$   $p+24$   $p+30$  : 9157, 9787, 23977, 61027, 61987, 72907, 115807, 120847, 126457, 129733, 156703, 173683, 178873, 205603, 268267, 294757, 438937, 442177,

$p+4$   $p+16$   $p+26$  : f3

$p+4$   $p+16$   $p+28$  : 16603, 42193, 53923, 58963, 60493, 67153, 68683, 111493, 126823, 129193, 160813, 179953, 182953, 188143, 220903, 248593, 256873, 260983, 273613, 276343, 278623, 316633, 318403, 338293, 342343,

p+ 4 p+16 p+28 p+30 : 16603, 42193, 68683, 129193, 220903, 256873, 260983,  
273613, 276343, 316633, 338293, 342343, 499633,

p+ 4 p+16 p+30 : 2617, 5923, 14653, 18397, 19387, 35323, 64663, 72337, 74827,  
75223, 77137, 120397, 123787, 124987, 132283, 133153, 133387, 135727, 139393,  
151783, 155383, 158617, 166627, 170263, 172603,

p+ 4 p+18 : 109, 313, 769, 859, 1579, 2749, 3019, 3673, 4813, 4969, 7039, 7603,  
7699, 7723, 8269, 8293, 8443, 9133, 9319, 9883, 10459, 12433, 12739, 13309,  
14323,

p+ 4 p+18 p+20 : f3

p+ 4 p+18 p+22 : 109, 859, 1579, 3019, 8269, 9319, 13309, 16069, 21499, 21799,  
25999, 38299, 43969, 49459, 54499, 54559, 61609, 65629, 67939, 74869, 77569,  
86179, 89209, 94819, 101719,

p+ 4 p+18 p+22 p+24 : 859, 8269, 9319, 21499, 54559, 140659, 191119, 202729,  
210169, 211639, 296749, 304879, 313129, 314239, 330409, 375979, 395089, 426739,  
436459, 464749,

p+ 4 p+18 p+22 p+24 p+26 : f3

p+ 4 p+18 p+22 p+24 p+28 : 859, 8269, 202729, 304879, 314239, 464749,

p+ 4 p+18 p+22 p+24 p+30 : 9319, 21499, 140659, 330409, 375979, 395089,

p+ 4 p+18 p+22 p+26 : f3

p+ 4 p+18 p+22 p+28 : 109, 1579, 13309, 16069, 38299, 43969, 61609, 65629,  
67939, 74869, 89209, 94819, 101719, 141649, 176299, 252709, 335029, 365509,  
376819, 411919, 415669, 435619, 495769,

p+ 4 p+18 p+22 p+28 p+30 : 109, 1579, 13309, 38299, 94819, 101719, 141649,  
176299, 435619, 495769,

p+ 4 p+18 p+22 p+30 : 3019, 25999, 86179, 114199, 119809, 136399, 162709,  
186019, 201889, 210109, 230059, 230449, 231529, 285979, 406309, 421159,

p+ 4 p+18 p+24 : 313, 3673, 4969, 7699, 8293, 8443, 9133, 9883, 12433, 12739,  
14323, 16249, 22129, 28789, 32233, 40879, 43609, 45673, 50359, 51133, 60919,  
61339, 63313, 67429, 67759,

p+ 4 p+18 p+24 p+26 : f3

p+ 4 p+18 p+24 p+28 : 3673, 7699, 9133, 22129, 28789, 32233, 50359, 76753,  
80149, 98869, 161503, 176329, 177889, 265399, 265543, 267493, 276319, 281623,  
290593, 294223, 331519, 343309, 382843, 416473, 424243,

p+ 4 p+18 p+24 p+28 p+30 : 22129, 98869, 267493, 281623, 290593, 331519,  
382843, 416473, 424243,

p+ 4 p+18 p+24 p+30 : 4969, 67759, 74293, 75553, 79843, 86113, 87403, 89083,



89959, 195973, 197059, 258673, 266953, 279553, 306853, 389923, 393079, 456499,  
466243, 475903,

p+ 4 p+18 p+26 : f3

p+ 4 p+18 p+28 : 769, 2749, 10459, 19993, 23293, 25639, 31513, 35419, 38149,  
41113, 45289, 62053, 64063, 65353, 65419, 69829, 70849, 82189, 87973, 90199,  
91753, 93979, 100519, 102433, 107839,

p+ 4 p+18 p+28 p+30 : 19993, 31513, 35419, 41113, 45289, 65419, 69829, 70849,  
82189, 87973, 93979, 100519, 152389, 167593, 181759, 191533, 192553, 192583,  
198409, 205963, 228883, 267199, 268729, 318319, 330199,

p+ 4 p+18 p+30 : 7039, 7723, 23563, 24763, 27073, 29833, 32323, 40849, 51199,  
54163, 57649, 77743, 80683, 86293, 89413, 89779, 91393, 102199, 108499, 109789,  
113779, 116239, 118369, 120163, 124429,

p+ 4 p+20 : f3

p+ 4 p+22 : 2857, 4729, 5479, 6007, 6577, 7879, 10687, 12919, 12979, 13759,  
13879, 14029, 18229, 19009, 20899, 20959, 21319, 21817, 26317, 27997, 30319,  
30427, 33049, 33769, 33889,

p+ 4 p+22 p+24 : 5479, 10687, 12979, 13879, 18229, 20959, 21817, 33049, 35569,  
39019, 54517, 63667, 64279, 73039, 83617, 87697, 88237, 104827, 105337, 135697,  
141157, 141829, 141937, 145987, 163147,

p+ 4 p+22 p+24 p+26 : f3

p+ 4 p+22 p+24 p+28 : 5479, 12979, 13879, 18229, 35569, 39019, 176899, 192319,  
294289, 303469, 309289, 346369, 379699,

p+ 4 p+22 p+24 p+28 p+30 : 12979, 294289, 346369,

p+ 4 p+22 p+24 p+30 : 54517, 63667, 105337, 135697, 196519, 216757, 345577,  
348217, 352459, 392737, 460987,

p+ 4 p+22 p+26 : f3

p+ 4 p+22 p+28 : 7879, 14029, 19009, 21319, 30319, 33769, 40009, 64849, 82759,  
85639, 106699, 108799, 110749, 113089, 120619, 122449, 133669, 139339, 142189,  
150379, 180259, 187189, 195049, 222289, 224149,

p+ 4 p+22 p+28 p+30 : 40009, 64849, 85639, 139339, 180259, 187189, 283579,  
336499, 347929, 423229,

p+ 4 p+22 p+30 : 2857, 4729, 6007, 6577, 13759, 20899, 26317, 27997, 36187,  
45259, 48589, 49429, 53047, 54979, 58657, 59119, 79279, 86689, 94789, 110947,  
118687, 128599, 147739, 159469, 161569,

p+ 4 p+24 : 883, 3943, 8539, 8779, 8863, 10429, 10663, 11173, 11443, 11593,  
11863, 13417, 14083, 14173, 18457, 20407, 22783, 24547, 24919, 25033, 25537,  
27823, 28027, 28513, 28813,

p+ 4 p+24 p+26 : f3

p+ 4 p+24 p+28 : 883, 8779, 10429, 10663, 11443, 11593, 22783, 27823, 28513, 37963, 46723, 47713, 60733, 62323, 63439, 69313, 87253, 96823, 128833, 130783, 140449, 160879, 164089, 182929, 185869,

p+ 4 p+24 p+28 p+30 : 10429, 37963, 47713, 60733, 193573, 249103, 249943, 253609, 278119, 325513, 336799, 355909, 357079, 396349, 411679, 426889, 459313, 480019, 482659,

p+ 4 p+24 p+30 : 8863, 28027, 28813, 31543, 33937, 44983, 53377, 53857, 60103, 74047, 76099, 77587, 77617, 82237, 99877, 100669, 111187, 116929, 117727, 138403, 139309, 140419, 167047, 183259, 194683,

p+ 4 p+26 : f3

p+ 4 p+28 : 4519, 5233, 6733, 7789, 16189, 16759, 20479, 32503, 32533, 35023, 42793, 48193, 48409, 48619, 50383, 53653, 56779, 60289, 62869, 66463, 68539, 71359, 73609, 73819, 75403,

p+ 4 p+28 p+30 : 4519, 6733, 20479, 32503, 32533, 35023, 48619, 56779, 71359, 73819, 97579, 104119, 114613, 117163, 139939, 144379, 171049, 179689, 197569, 198193, 233113, 243643, 275419, 285949, 290443,

p+ 4 p+30 : 2473, 5527, 12007, 12343, 16699, 24439, 26263, 31189, 32839, 36493, 36943, 37057, 40357, 40429, 43063, 52579, 53323, 54877, 56629, 57943, 59509, 64033, 65323, 66973, 75079,

p+ 6 : A031924 23, 31, 47, 53, 61, 73, 83, 131, 151, 157, 167, 173, 233, 251, 257, 263, 271, 331, 353, 367, 373, 383, 433, 443, 503,

p+ 6 p+ 8 : A049438 23, 53, 131, 173, 233, 263, 563, 593, 653, 1013, 1223, 1283, 1601, 1613, 2333, 2543, 2963, 3323, 3533, 3761, 3911, 3923, 4013, 4211, 4253,

p+ 6 p+ 8 p+10 : f3

p+ 6 p+ 8 p+12 : A078853 1601, 3911, 5471, 8081, 12101, 12911, 13751, 14621, 17021, 32051, 38321, 40841, 43391, 58901, 65831, 67421, 67751, 68891, 69821, 72161, 80141, 89591, 90011, 90191, 97571,

p+ 6 p+ 8 p+12 p+14 : f5

p+ 6 p+ 8 p+12 p+16 : f3

p+ 6 p+ 8 p+12 p+18 : A078958 1601, 3911, 12101, 14621, 32051, 68891, 122021, 191441, 258101, 259151, 276581, 278801, 305471, 347051, 390101, 394721, 418331, 419591, 421691, 470201, 482501,

p+ 6 p+ 8 p+12 p+18 p+20 : 1601, 3911, 122021, 191441, 347051, 418331, 421691,

p+ 6 p+ 8 p+12 p+18 p+20 p+22 : f3

$p+6$   $p+8$   $p+12$   $p+18$   $p+20$   $p+24$  : f5  
 $p+6$   $p+8$   $p+12$   $p+18$   $p+20$   $p+26$  : 1601, 191441, 418331, 421691,  
 $p+6$   $p+8$   $p+12$   $p+18$   $p+20$   $p+28$  : f3  
 $p+6$   $p+8$   $p+12$   $p+18$   $p+22$  : f3  
 $p+6$   $p+8$   $p+12$   $p+18$   $p+24$  : f5  
 $p+6$   $p+8$   $p+12$   $p+18$   $p+26$  : 32051, 68891, 258101, 259151, 278801, 305471,  
394721, 470201, 482501,  
 $p+6$   $p+8$   $p+12$   $p+18$   $p+28$  : f3  
 $p+6$   $p+8$   $p+12$   $p+18$   $p+30$  :  
 $p+6$   $p+8$   $p+12$   $p+20$  : 8081, 17021, 43391, 58901, 65831, 89591, 90011, 112241,  
125921, 156671, 158351, 216641, 238151, 251051, 282671, 310721, 318671, 366161,  
369821, 435641, 441101,  
 $p+6$   $p+8$   $p+12$   $p+20$   $p+22$  : f3  
 $p+6$   $p+8$   $p+12$   $p+20$   $p+24$  : f5  
 $p+6$   $p+8$   $p+12$   $p+20$   $p+24$   $p+26$  : f5  
 $p+6$   $p+8$   $p+12$   $p+20$   $p+24$   $p+28$  : f3  
 $p+6$   $p+8$   $p+12$   $p+20$   $p+26$  : 17021, 282671, 310721, 441101,  
 $p+6$   $p+8$   $p+12$   $p+20$   $p+28$  : f3  
 $p+6$   $p+8$   $p+12$   $p+20$   $p+30$  : 8081, 238151, 251051, 318671, 369821,  
 $p+6$   $p+8$   $p+12$   $p+22$  : f3  
 $p+6$   $p+8$   $p+12$   $p+24$  : f5  
 $p+6$   $p+8$   $p+12$   $p+26$  : 40841, 67421, 67751, 69821, 80141, 90191, 100511, 102191,  
111821, 129581, 131771, 146051, 176321, 181751, 187211, 218711, 242441, 316691,  
348911, 426731, 444281, 464741, 486671,  
 $p+6$   $p+8$   $p+12$   $p+26$   $p+28$  : f3  
 $p+6$   $p+8$   $p+12$   $p+26$   $p+30$  : 426731, 464741,  
 $p+6$   $p+8$   $p+12$   $p+28$  : f3  
 $p+6$   $p+8$   $p+12$   $p+30$  : 5471, 12911, 13751, 38321, 149411, 204431, 240341,  
260201, 336521, 413081,  
 $p+6$   $p+8$   $p+14$  : 23, 53, 263, 563, 593, 1223, 1283, 1613, 2333, 2543, 3533,

4013, 4643, 5843, 6263, 6353, 6563, 10853, 11483, 14543, 15263, 17483, 19073,  
19373, 19463,

p+ 6 p+ 8 p+14 p+16 : f3

p+ 6 p+ 8 p+14 p+18 : A078959 23, 53, 263, 1283, 2333, 5843, 6563, 14543, 19373, 32363,  
41603, 48473, 49193, 51413, 75983, 88793, 106853, 113153, 115763, 138563,  
150203, 160073, 163973, 204353, 223823,

p+ 6 p+ 8 p+14 p+18 p+20 : 23, 53, 263, 1283, 14543, 75983, 88793, 113153,  
115763, 150203, 160073, 163973, 223823, 284723, 337853,

p+ 6 p+ 8 p+14 p+18 p+20 p+22 : f3

p+ 6 p+ 8 p+14 p+18 p+20 p+24 : 23, 1283, 88793, 113153, 163973, 284723,

p+ 6 p+ 8 p+14 p+18 p+20 p+26 : 53, 223823,

p+ 6 p+ 8 p+14 p+18 p+20 p+28 : f3

p+ 6 p+ 8 p+14 p+18 p+22 : f3

p+ 6 p+ 8 p+14 p+18 p+24 : 2333, 5843, 41603, 48473, 51413, 106853, 138563,  
204353, 246923, 326993, 357653,

p+ 6 p+ 8 p+14 p+18 p+24 p+26 : 5843, 51413,

p+ 6 p+ 8 p+14 p+18 p+24 p+28 : f3

p+ 6 p+ 8 p+14 p+18 p+26 : 319673, 460073, 487463, 488303,

p+ 6 p+ 8 p+14 p+18 p+28 : f3

p+ 6 p+ 8 p+14 p+18 p+30 : 19373, 49193, 338153,

p+ 6 p+ 8 p+14 p+20 : 593, 4643, 6353, 11483, 19463, 34253, 71333, 77543,  
89513, 101273, 135593, 148853, 179813, 184823, 191453, 193373, 245513, 260003,  
267893, 277883, 280583, 302573, 307253, 308303, 310223,

p+ 6 p+ 8 p+14 p+20 p+22 : f3

p+ 6 p+ 8 p+14 p+20 p+24 : 593, 135593, 280583, 302573, 307253, 308303, 350423,  
416393,

p+ 6 p+ 8 p+14 p+20 p+24 p+26 : 593, 416393,

p+ 6 p+ 8 p+14 p+20 p+24 p+28 : f3

p+ 6 p+ 8 p+14 p+20 p+26 : 6353, 19463, 71333, 77543, 344243, 408203,

p+ 6 p+ 8 p+14 p+20 p+28 : f3

p+ 6 p+ 8 p+14 p+20 p+30 : 4643, 34253, 435563, 450473, 482393, 496283,

$p+6$   $p+8$   $p+14$   $p+22$  : f3  
 $p+6$   $p+8$   $p+14$   $p+24$  : 563, 1613, 3533, 6263, 15263, 23663, 29123, 49523, 97373, 121343, 127703, 150083, 154073, 267713, 290033, 292703, 349373, 375443, 384473, 396623, 421703, 459023, 492053,  
 $p+6$   $p+8$   $p+14$   $p+24$   $p+26$  : 3533, 15263, 23663, 49523, 121343, 267713, 349373,  
 $p+6$   $p+8$   $p+14$   $p+24$   $p+28$  : f3  
 $p+6$   $p+8$   $p+14$   $p+24$   $p+30$  : 563, 29123, 127703, 492053,  
 $p+6$   $p+8$   $p+14$   $p+26$  : 1223, 17483, 109133, 112913, 130253, 131933, 146513, 169313, 180233, 185063, 265703, 312203, 372263, 450803,  
 $p+6$   $p+8$   $p+14$   $p+26$   $p+28$  : f3  
 $p+6$   $p+8$   $p+14$   $p+26$   $p+30$  : 146513, 169313, 180233, 312203, 372263,  
 $p+6$   $p+8$   $p+14$   $p+28$  : f3  
 $p+6$   $p+8$   $p+14$   $p+30$  : 10853, 51473, 94433, 96323, 163403, 180533, 239843, 246803, 250043, 275153, 418343,  
 $p+6$   $p+8$   $p+16$  : f3  
 $p+6$   $p+8$   $p+18$  : 131, 173, 233, 1013, 3761, 4211, 4253, 5003, 5861, 7481, 7541, 8831, 9413, 9923, 10061, 10133, 15131, 17903, 22691, 22853, 23021, 23531, 24971, 26693, 28541,  
 $p+6$   $p+8$   $p+18$   $p+20$  : 131, 173, 1013, 4211, 4253, 5003, 5861, 7541, 9413, 17903, 23021, 26693, 33581, 39821, 46811, 60083, 77471, 87623, 91121, 95783, 97151, 122033, 157211, 175061, 176591,  
 $p+6$   $p+8$   $p+18$   $p+20$   $p+22$  : f3  
 $p+6$   $p+8$   $p+18$   $p+20$   $p+24$  : 173, 9413, 26693, 60083, 255173,  
 $p+6$   $p+8$   $p+18$   $p+20$   $p+24$   $p+26$  : 173, 9413,  
 $p+6$   $p+8$   $p+18$   $p+20$   $p+24$   $p+28$  : f3  
 $p+6$   $p+8$   $p+18$   $p+20$   $p+26$  : 131, 1013, 17903, 39821, 87623, 97151, 181193, 208493, 275573, 308501, 429881,  
 $p+6$   $p+8$   $p+18$   $p+20$   $p+28$  : f3  
 $p+6$   $p+8$   $p+18$   $p+20$   $p+30$  : 4211, 4253, 91121, 95783, 179573,  
 $p+6$   $p+8$   $p+18$   $p+22$  : f3  
 $p+6$   $p+8$   $p+18$   $p+24$  : 233, 22853, 68483, 237683, 262103, 407783, 425273,

443753, 499133,

p+ 6 p+ 8 p+18 p+24 p+26 : 499133,

p+ 6 p+ 8 p+18 p+24 p+28 : f3

p+ 6 p+ 8 p+18 p+24 p+30 : 233, 262103,

p+ 6 p+ 8 p+18 p+26 : 7481, 9923, 10133, 22691, 23531, 59351, 89891, 96731,  
111773, 129491, 141671, 146291, 198833, 206273, 248861, 333023, 355031, 363941,  
379433, 423281, 429503, 486323,

p+ 6 p+ 8 p+18 p+26 p+28 : f3

p+ 6 p+ 8 p+18 p+26 p+30 : 10133, 22691, 23531, 206273, 248861,

p+ 6 p+ 8 p+18 p+28 : f3

p+ 6 p+ 8 p+18 p+30 : 8831, 10061, 15131, 28541, 32603, 41381, 51431, 75611,  
77681, 112331, 159161, 163853, 184181, 223211, 229583, 232073, 256181, 266891,  
295943, 318173, 347951, 396293, 424811,

p+ 6 p+ 8 p+20 : 653, 3323, 3923, 4793, 6653, 6863, 7583, 8423, 9623, 9851,  
10883, 11933, 15881, 16823, 17183, 20543, 22031, 25163, 27743, 29201, 29663,  
32183, 34361, 34583, 35831,

p+ 6 p+ 8 p+20 p+22 : f3

p+ 6 p+ 8 p+20 p+24 : 653, 3323, 3923, 4793, 7583, 8423, 17183, 27743, 34583,  
36923, 61463, 75533, 82463, 114593, 115853, 124343, 183503, 188933, 210803,  
263513, 312023, 317963, 357563, 390413, 447443,

p+ 6 p+ 8 p+20 p+24 p+26 : 17183, 115853,

p+ 6 p+ 8 p+20 p+24 p+28 : f3

p+ 6 p+ 8 p+20 p+24 p+30 : 653, 27743, 34583, 61463, 82463, 357563,

p+ 6 p+ 8 p+20 p+26 : 6653, 9623, 10883, 11933, 15881, 25163, 70481, 73673,  
134333, 170363, 251171, 253361, 327311, 371333, 443873, 471923, 476081,

p+ 6 p+ 8 p+20 p+26 p+28 : f3

p+ 6 p+ 8 p+20 p+26 p+30 : 134333, 170363, 251171, 476081,

p+ 6 p+ 8 p+20 p+28 : f3

p+ 6 p+ 8 p+20 p+30 : 29201, 32183, 56093, 64871, 82883, 85193, 127241, 136943,  
149153, 174071, 200861, 265241, 303683,

p+ 6 p+ 8 p+22 : f3

p+ 6 p+ 8 p+24 : 5273, 17573, 17783, 22613, 32933, 50123, 54413, 54623, 70913,

102293, 173183, 209813, 218963, 227603, 230303, 282383, 289103, 307163, 322583,  
328373, 333713, 342233, 351053, 436523, 440543,

$p+6$   $p+8$   $p+24$   $p+26$  : 17573, 22613, 173183, 218963, 227603, 282383, 289103,  
307163, 351053, 436523, 440543, 475613, 495563,

$p+6$   $p+8$   $p+24$   $p+26$   $p+28$  : f3

$p+6$   $p+8$   $p+24$   $p+26$   $p+30$  : 22613, 218963, 282383,

$p+6$   $p+8$   $p+24$   $p+28$  : f3

$p+6$   $p+8$   $p+24$   $p+30$  : 5273, 50123, 54413, 322583, 482093,

$p+6$   $p+8$   $p+26$  : 7451, 16223, 24413, 25793, 25841, 28403, 37013, 38603, 41513,  
46301, 47381, 53891, 99251, 106181, 112061, 116681, 118163, 120041, 121013,  
122861, 139361, 151163, 159563, 176153, 180281,

$p+6$   $p+8$   $p+26$   $p+28$  : f3

$p+6$   $p+8$   $p+26$   $p+30$  : 7451, 16223, 24413, 28403, 41513, 122861, 180281, 198251,  
205391, 260543, 296243, 315521, 318203, 423251, 449411, 463313, 490241,

$p+6$   $p+8$   $p+28$  : f3

$p+6$   $p+8$   $p+30$  : 7121, 38231, 45131, 48533, 59621, 59663, 61553, 65921, 67181,  
70451, 76253, 80621, 85661, 88463, 101741, 102071, 111863, 138071, 151841,  
154613, 161333, 167771, 187133, 189011, 201203,

$p+6$   $p+10$  : A078562 31, 61, 73, 157, 271, 373, 433, 607, 733, 751, 1291, 1543, 1657,  
1777, 1861, 1987, 2131, 2287, 2341, 2371, 2383, 2467, 2677, 2791, 2851,

$p+6$   $p+10$   $p+12$  : A078855 31, 61, 271, 607, 1291, 1657, 1777, 1861, 1987, 2131, 2371,  
2677, 2791, 4507, 5407, 5431, 5641, 7867, 9001, 11821, 13681, 14551, 17377,  
18121, 18301,

$p+6$   $p+10$   $p+12$   $p+14$  : f3

$p+6$   $p+10$   $p+12$   $p+16$  : A078961 31, 1291, 1861, 1987, 2677, 4507, 5641, 7867, 13681,  
17377, 24097, 35521, 42451, 44257, 55807, 80671, 88651, 88801, 93481, 110557,  
113011, 113161, 118891, 134581, 155371,

$p+6$   $p+10$   $p+12$   $p+16$   $p+18$  : 1861, 5641, 88801, 266671, 284731, 402751,

$p+6$   $p+10$   $p+12$   $p+16$   $p+18$   $p+20$  : f3

$p+6$   $p+10$   $p+12$   $p+16$   $p+18$   $p+22$  : f7

$p+6$   $p+10$   $p+12$   $p+16$   $p+18$   $p+24$  : f5

$p+6$   $p+10$   $p+12$   $p+16$   $p+18$   $p+26$  : f3

$p+6$   $p+10$   $p+12$   $p+16$   $p+18$   $p+28$  : 1861, 5641, 284731,

$p+6$   $p+10$   $p+12$   $p+16$   $p+20$  : f3

$p+6$   $p+10$   $p+12$   $p+16$   $p+22$  : 31, 2677, 35521, 42451, 44257, 55807, 93481, 118891, 198817, 221707, 234181, 313981, 393571,

$p+6$   $p+10$   $p+12$   $p+16$   $p+22$   $p+24$  : 44257, 198817,

$p+6$   $p+10$   $p+12$   $p+16$   $p+22$   $p+26$  : f3

$p+6$   $p+10$   $p+12$   $p+16$   $p+22$   $p+28$  : 31,

$p+6$   $p+10$   $p+12$   $p+16$   $p+24$  : 1987, 17377, 24097, 110557, 393847, 420307,

$p+6$   $p+10$   $p+12$   $p+16$   $p+24$   $p+26$  : f3

$p+6$   $p+10$   $p+12$   $p+16$   $p+24$   $p+28$  : f5

$p+6$   $p+10$   $p+12$   $p+16$   $p+26$  : f3

$p+6$   $p+10$   $p+12$   $p+16$   $p+28$  : 1291, 13681, 113011, 113161, 134581, 155371, 332461, 344161,

$+6$   $p+10$   $p+12$   $p+16$   $p+30$  : 80671, 88651, 163981, 417721,

$p+6$   $p+10$   $p+12$   $p+18$  : A078962 61, 2371, 5431, 11821, 21481, 37561, 50581, 69991, 124291, 126481, 139291, 223831, 230761, 268771, 272341, 275911, 305401, 363361, 365461, 388471, 498391,

$p+6$   $p+10$   $p+12$   $p+18$   $p+20$  : f3

$p+6$   $p+10$   $p+12$   $p+18$   $p+22$  : 61, 2371, 21481, 139291, 305401,

$p+6$   $p+10$   $p+12$   $p+18$   $p+22$   $p+24$  : f5

$p+6$   $p+10$   $p+12$   $p+18$   $p+22$   $p+26$  : f3

$p+6$   $p+10$   $p+12$   $p+18$   $p+22$   $p+28$  : 61, 2371,

$p+6$   $p+10$   $p+12$   $p+18$   $p+24$  : f5

$p+6$   $p+10$   $p+12$   $p+18$   $p+26$  : f3

$p+6$   $p+10$   $p+12$   $p+18$   $p+28$  : 37561, 69991, 272341, 275911, 365461, 388471,

$p+6$   $p+10$   $p+12$   $p+18$   $p+30$  :

$p+6$   $p+10$   $p+12$   $p+20$  : f3

$p+6$   $p+10$   $p+12$   $p+22$  : 271, 2131, 18121, 20347, 41221, 41947, 55207, 56467, 57781, 65707, 74707, 83221, 85081, 91801, 98887, 115771, 124771, 170341, 176041, 210901, 211867, 219931, 237151, 244291, 249427,



$p+6$   $p+10$   $p+12$   $p+22$   $p+24$  : 65707, 74707, 98887, 211867, 422077, 451657,  
 $p+6$   $p+10$   $p+12$   $p+22$   $p+24$   $p+26$  : f3  
 $p+6$   $p+10$   $p+12$   $p+22$   $p+24$   $p+28$  : f5  
 $p+6$   $p+10$   $p+12$   $p+22$   $p+26$  : f3  
 $p+6$   $p+10$   $p+12$   $p+22$   $p+28$  : 18121, 57781, 85081, 124771, 170341, 210901, 219931,  
 237151, 281641, 375091,  
 $p+6$   $p+10$   $p+12$   $p+22$   $p+30$  : 2131, 444517,  
 $p+6$   $p+10$   $p+12$   $p+24$  : 607, 1777, 5407, 22147, 47137, 101197, 125107, 176497,  
 178807, 178897, 209347, 267637, 322237, 400237, 414697, 428137, 431857, 447817,  
 481837,  
 $p+6$   $p+10$   $p+12$   $p+24$   $p+26$  : f3  
 $p+6$   $p+10$   $p+12$   $p+24$   $p+28$  : f5  
 $p+6$   $p+10$   $p+12$   $p+24$   $p+30$  : 5407, 267637, 428137, 431857, 481837,  
 $p+6$   $p+10$   $p+12$   $p+26$  : f3  
 $p+6$   $p+10$   $p+12$   $p+28$  : 2791, 9001, 18301, 27271, 36781, 55921, 70111, 148921,  
 150211, 203311, 203761, 228511, 233911, 251191, 296551, 298681, 376921, 389161,  
 430741, 453631, 473191,  
 $p+6$   $p+10$   $p+12$   $p+28$   $p+30$  : 70111, 203311, 233911, 251191, 296551,  
 $p+6$   $p+10$   $p+12$   $p+30$  : 131701, 135271, 207511, 267511, 272257, 337861, 384247,  
 411001, 434377, 488197,  
 $p+6$   $p+10$   $p+14$  : f3  
 $p+6$   $p+10$   $p+16$  : A078856 73, 157, 373, 433, 1543, 2341, 2383, 3313, 3607, 4441, 4993,  
 5851, 6037, 6961, 7237, 8731, 9613, 9733, 10723, 13093, 14143, 14731, 16411,  
 16921, 17971,  
 $p+6$   $p+10$   $p+16$   $p+18$  : A078963 3313, 4993, 5851, 9613, 17971, 23011, 32353, 36913,  
 45121, 51421, 53881, 54403, 59611, 76243, 90001, 91951, 127591, 130633, 131431,  
 134353, 140401, 142963, 174061, 229753, 246913,  
 $p+6$   $p+10$   $p+16$   $p+18$   $p+20$  : f3  
 $p+6$   $p+10$   $p+16$   $p+18$   $p+22$  : 90001, 140401,  
 $p+6$   $p+10$   $p+16$   $p+18$   $p+22$   $p+24$  : f5  
 $p+6$   $p+10$   $p+16$   $p+18$   $p+22$   $p+26$  : f3  
 $p+6$   $p+10$   $p+16$   $p+18$   $p+22$   $p+28$  :

p+ 6 p+10 p+16 p+18 p+24 : 32353, 130633, 229753, 246913, 435553,

p+ 6 p+10 p+16 p+18 p+24 p+26 : f3

p+ 6 p+10 p+16 p+18 p+24 p+28 : 32353, 229753, 246913,

p+ 6 p+10 p+16 p+18 p+26 : f3

p+ 6 p+10 p+16 p+18 p+28 : 4993, 5851, 23011, 51421, 303361, 321313, 465061,

p+ 6 p+10 p+16 p+18 p+30 : 3313, 9613, 36913, 142963, 174061, 386143,

p+ 6 p+10 p+16 p+20 : f3

p+ 6 p+10 p+16 p+22 : 157, 4441, 6961, 8731, 14731, 16411, 16921, 20107, 25447,  
39097, 47287, 47491, 60601, 78157, 78781, 84121, 92347, 104701, 114067, 115321,  
128467, 142537, 183571, 186097, 194707,

p+ 6 p+10 p+16 p+22 p+24 : 157, 25447,

p+ 6 p+10 p+16 p+22 p+24 p+26 : f3

p+ 6 p+10 p+16 p+22 p+24 p+28 : f5

p+ 6 p+10 p+16 p+22 p+26 : f3

p+ 6 p+10 p+16 p+22 p+28 : 14731, 78781, 104701, 351031, 357661, 443221,  
496471,

p+ 6 p+10 p+16 p+22 p+30 : 6961, 8731, 47287, 47491, 60601, 92347, 142537,  
196171, 253417, 354307, 473497, 478411,

p+ 6 p+10 p+16 p+24 : 73, 373, 433, 1543, 3607, 25237, 27793, 32563, 41887,  
52957, 69457, 92227, 95707, 103567, 123973, 136327, 141613, 143503, 153733,  
159763, 166393, 166603, 208207, 218833, 221077,

p+ 6 p+10 p+16 p+24 p+26 : f3

p+ 6 p+10 p+16 p+24 p+28 : 73, 373, 433, 1543, 123973, 159763, 166603, 300733,  
340903, 427423, 499663,

p+ 6 p+10 p+16 p+24 p+30 : 3607, 27793, 95707, 153733, 274837, 362347,

p+ 6 p+10 p+16 p+26 : f3

p+ 6 p+10 p+16 p+28 : 2383, 13093, 21391, 37501, 40813, 44491, 45943, 48751,  
63601, 81343, 94993, 101863, 136531, 138571, 147283, 167071, 201781, 264343,  
266083, 294793, 313711, 327463, 329941, 339811, 344791,

p+ 6 p+10 p+16 p+28 p+30 : 48751, 81343, 313711, 327463, 339811, 344791,  
429901,

$p+6$   $p+10$   $p+16$   $p+30$  : 2341, 6037, 10723, 14143, 23593, 30103, 30697, 41611, 46441, 46633, 53623, 62467, 63793, 90901, 135607, 137353, 147541, 190753, 205477, 225493, 229393, 251887, 280597, 287857, 347167,

$p+6$   $p+10$   $p+18$  : 733, 751, 3691, 5563, 5683, 6211, 7681, 8161, 8923, 10093, 11311, 14401, 15661, 18433, 24841, 25933, 30931, 37483, 41641, 44953, 51673, 52561, 53401, 66523, 72883,

$p+6$   $p+10$   $p+18$   $p+20$  : f3

$p+6$   $p+10$   $p+18$   $p+22$  : 751, 7681, 14401, 15661, 52561, 94771, 95461, 187171, 220351, 239521, 259621, 376801, 433351, 449671, 488311,

$p+6$   $p+10$   $p+18$   $p+22$   $p+24$  : f5

$p+6$   $p+10$   $p+18$   $p+22$   $p+24$   $p+26$  : f3

$p+6$   $p+10$   $p+18$   $p+22$   $p+24$   $p+28$  : f5

$p+6$   $p+10$   $p+18$   $p+22$   $p+26$  : f3

$p+6$   $p+10$   $p+18$   $p+22$   $p+28$  : 449671, 488311,

$p+6$   $p+10$   $p+18$   $p+22$   $p+30$  : 14401,

$p+6$   $p+10$   $p+18$   $p+24$  : 733, 18433, 37483, 72883, 126013, 126733, 150883, 178603, 185533, 229693, 313543, 370873, 430873, 443413, 494713,

$p+6$   $p+10$   $p+18$   $p+24$   $p+26$  : f3

$p+6$   $p+10$   $p+18$   $p+24$   $p+28$  : 733, 18433, 37483, 72883, 126013, 126733, 313543,

$p+6$   $p+10$   $p+18$   $p+24$   $p+30$  : 494713,

$p+6$   $p+10$   $p+18$   $p+26$  : f3

$p+6$   $p+10$   $p+18$   $p+28$  : 3691, 5563, 5683, 8923, 41641, 96451, 137191, 139981, 147391, 181711, 188701, 228451, 245251, 255841, 320833, 324991, 353911, 363523, 425851, 434821, 439753, 474931, 475141, 488143, 492403,

$p+6$   $p+10$   $p+18$   $p+28$   $p+30$  : 324991,

$p+6$   $p+10$   $p+18$   $p+30$  : 8161, 44953, 66523, 77713, 102013, 171793, 244393, 252163, 343933, 348553, 460081,

$p+6$   $p+10$   $p+20$  : f3

$p+6$   $p+10$   $p+22$  : 2287, 3181, 6991, 7927, 9151, 9781, 11251, 14821, 16651, 19381, 23971, 28597, 28621, 35317, 40231, 42187, 45757, 46681, 49201, 49801, 50767, 53917, 55051, 55711, 61981,

$p+6$   $p+10$   $p+22$   $p+24$  : 2287, 7927, 28597, 66337, 106297, 172147, 363037, 371227, 409327, 464917, 495337,

p+ 6 p+10 p+22 p+24 p+26 : f3

p+ 6 p+10 p+22 p+24 p+28 : f5

p+ 6 p+10 p+22 p+24 p+30 : 28597, 363037, 371227,

p+ 6 p+10 p+22 p+26 : f3

p+ 6 p+10 p+22 p+28 : 3181, 6991, 11251, 28621, 55051, 84691, 94321, 149371,  
182101, 193441, 207541, 220141, 228331, 283111, 313561, 361441, 363151, 393181,  
397351, 418861, 465271, 496891,

p+ 6 p+10 p+22 p+28 p+30 : 94321, 182101,

p+ 6 p+10 p+22 p+30 : 9151, 9781, 14821, 23971, 49801, 61981, 72901, 109357,  
294751, 314107, 349177, 378661, 431881, 442171,

p+ 6 p+10 p+24 : 7717, 8263, 9127, 15913, 19753, 21493, 22123, 25633, 27067,  
33403, 39877, 43963, 45667, 61333, 61603, 62047, 65413, 67933, 70843, 74287,  
77563, 80167, 82183, 84457, 89113,

p+ 6 p+10 p+24 p+26 : f3

p+ 6 p+10 p+24 p+28 : 8263, 21493, 43963, 61603, 67933, 77563, 89203, 120823,  
124693, 162703, 186013, 220783, 235513, 314233, 321823, 336643, 379903, 421633,  
466723,

p+ 6 p+10 p+24 p+28 p+30 : 8263, 21493, 314233,

p+ 6 p+10 p+24 p+30 : 9127, 22123, 45667, 61333, 74287, 100183, 266947, 283807,  
306847, 413527, 475897, 481147, 489793,

p+ 6 p+10 p+26 : f3

p+ 6 p+10 p+28 : 2851, 4723, 6571, 12973, 18223, 30313, 51511, 54973, 59113,  
79273, 87691, 105331, 106693, 108793, 110431, 113083, 118681, 122443, 132961,  
139333, 141931, 142183, 143971, 144583, 147853,

p+ 6 p+10 p+28 p+30 : 12973, 18223, 87691, 105331, 141931, 216751, 218521,  
288991, 303463, 316213, 328891, 344263, 345571, 346933, 379693, 409261, 412561,  
428221, 456871, 460981,

p+ 6 p+10 p+30 : 10657, 11437, 11587, 13411, 18451, 22777, 27817, 28807, 31327,  
31657, 32371, 33931, 37957, 52807, 59233, 60727, 65173, 70657, 71161, 71473,  
74521, 76771, 77611, 80923, 82231,

p+ 6 p+12 : 47, 151, 167, 251, 257, 367, 557, 587, 601, 647, 727, 941, 971,  
1097, 1117, 1181, 1217, 1361, 1741, 1747, 1901, 2281, 2411, 2671, 2897,

p+ 6 p+12 p+14 : 47, 167, 257, 557, 587, 647, 1217, 2957, 4007, 6257, 6857,  
7577, 10847, 11927, 14537, 16217, 17477, 19457, 24407, 25457, 26687, 26717,  
29867, 41507, 41597,

$p+6$   $p+12$   $p+14$   $p+16$  : f3  
 $p+6$   $p+12$   $p+14$   $p+18$  : f3  
 $p+6$   $p+12$   $p+14$   $p+20$  : A078965 47, 257, 557, 587, 1217, 4007, 6257, 10847, 14537, 17477, 19457, 26717, 41597, 51407, 84047, 94427, 101267, 115757, 131927, 150077, 150197, 154067, 169307, 179807, 185057,  
 $p+6$   $p+12$   $p+14$   $p+20$   $p+22$  : f3  
 $p+6$   $p+12$   $p+14$   $p+20$   $p+24$  : 47, 257, 14537, 41597, 51407, 115757, 150197, 443147, 487457,  
 $p+6$   $p+12$   $p+14$   $p+20$   $p+24$   $p+26$  : 47, 257, 14537, 115757, 150197,  
 $p+6$   $p+12$   $p+14$   $p+20$   $p+24$   $p+28$  : f3  
 $p+6$   $p+12$   $p+14$   $p+20$   $p+26$  : 587, 19457, 101267, 179807, 193367, 267887, 302567, 344237, 408197, 442817, 482387,  
 $p+6$   $p+12$   $p+14$   $p+20$   $p+28$  : f3  
 $p+6$   $p+12$   $p+14$   $p+20$   $p+30$  : 557, 6257, 150077, 154067, 290027, 492047,  
 $p+6$   $p+12$   $p+14$   $p+22$  : f3  
 $p+6$   $p+12$   $p+14$   $p+24$  : 167, 26687, 60077, 68477, 104537, 111767, 163847, 239417, 295937, 325877, 429497, 450287, 487997, 488627,  
 $p+6$   $p+12$   $p+14$   $p+24$   $p+26$  : 167, 26687, 60077,  
 $p+6$   $p+12$   $p+14$   $p+24$   $p+28$  : f3  
 $p+6$   $p+12$   $p+14$   $p+24$   $p+30$  : 68477,  
 $p+6$   $p+12$   $p+14$   $p+26$  : 647, 6857, 7577, 11927, 56087, 75527, 82457, 134327, 168887, 188927, 319427, 361637, 390407,  
 $p+6$   $p+12$   $p+14$   $p+26$   $p+28$  : f3  
 $p+6$   $p+12$   $p+14$   $p+26$   $p+30$  : 647, 7577, 75527, 82457, 188927, 390407,  
 $p+6$   $p+12$   $p+14$   $p+28$  : f3  
 $p+6$   $p+12$   $p+14$   $p+30$  : 54617, 173177, 227597, 282377, 351047, 440537,  
 $p+6$   $p+12$   $p+16$  : A078858 151, 367, 601, 727, 2281, 2671, 3307, 4987, 5557, 10651, 12967, 13171, 15907, 18217, 18427, 20101, 20341, 24091, 27061, 28591, 30097, 30307, 31321, 32491, 35311,  
 $p+6$   $p+12$   $p+16$   $p+18$  : A078966 601, 2671, 20341, 24091, 41941, 42391, 55201, 65701, 87541, 125101, 198811, 249421, 355501, 414691, 416401, 428551,

$p+6$   $p+12$   $p+16$   $p+18$   $p+20$  : f3  
 $p+6$   $p+12$   $p+16$   $p+18$   $p+22$  : 2671, 24091, 198811,  
 $p+6$   $p+12$   $p+16$   $p+18$   $p+22$   $p+24$  : f5  
 $p+6$   $p+12$   $p+16$   $p+18$   $p+22$   $p+26$  : f3  
 $p+6$   $p+12$   $p+16$   $p+18$   $p+22$   $p+28$  : 2671, 198811,  
 $p+6$   $p+12$   $p+16$   $p+18$   $p+24$  : f5  
 $p+6$   $p+12$   $p+16$   $p+18$   $p+26$  : f3  
 $p+6$   $p+12$   $p+16$   $p+18$   $p+28$  : 20341, 41941, 55201, 65701, 249421, 355501, 428551,  
 $p+6$   $p+12$   $p+16$   $p+18$   $p+30$  : 601, 125101, 414691,  
 $p+6$   $p+12$   $p+16$   $p+20$  : f3  
 $p+6$   $p+12$   $p+16$   $p+22$  : A078967 151, 367, 3307, 4987, 20101, 30097, 52951, 53617, 85831,  
92221, 95701, 99817, 103561, 128461, 135601, 163621, 214651, 221071, 241321,  
241861, 246907, 274831, 280591, 282691, 287851,  
 $p+6$   $p+12$   $p+16$   $p+22$   $p+24$  : 3307, 4987, 246907,  
 $p+6$   $p+12$   $p+16$   $p+22$   $p+24$   $p+26$  : f3  
 $p+6$   $p+12$   $p+16$   $p+22$   $p+24$   $p+28$  : f5  
 $p+6$   $p+12$   $p+16$   $p+22$   $p+26$  : f3  
 $p+6$   $p+12$   $p+16$   $p+22$   $p+28$  : 151, 20101, 128461, 297601, 307261, 350431, 354301,  
 $p+6$   $p+12$   $p+16$   $p+22$   $p+30$  : 367, 52951, 92221, 95701, 103561, 221071, 274831,  
295831, 340897, 422551,  
 $p+6$   $p+12$   $p+16$   $p+24$  : 727, 5557, 18427, 200017, 252157, 348547, 443407, 480367,  
492397,  
 $p+6$   $p+12$   $p+16$   $p+24$   $p+26$  : f3  
 $p+6$   $p+12$   $p+16$   $p+24$   $p+28$  : f5  
 $p+6$   $p+12$   $p+16$   $p+24$   $p+30$  : 727, 18427, 443407,  
 $p+6$   $p+12$   $p+16$   $p+26$  : f3  
 $p+6$   $p+12$   $p+16$   $p+28$  : 2281, 28591, 35311, 42181, 45751, 75211, 106291, 255121,  
278611, 302581, 340381, 349171, 398341,  
 $p+6$   $p+12$   $p+16$   $p+28$   $p+30$  : 2281, 28591, 106291,

$p+6$   $p+12$   $p+16$   $p+30$  : 15907, 27061, 65407, 77557, 89107, 91381, 120817, 182587, 186007, 205951, 219517, 233341, 237271, 257281, 258691, 264991, 267187, 314227, 325447, 358987, 389941, 399571, 406501, 413521, 429211,

$p+6$   $p+12$   $p+18$  : 251, 1741, 3301, 5101, 5381, 6311, 6361, 12641, 13451, 14741, 15791, 15901, 17471, 18211, 19471, 23321, 26171, 30091, 30631, 53611, 56081, 62201, 63691, 71341, 75521,

$p+6$   $p+12$   $p+18$   $p+20$  : 251, 17471, 56081, 75521, 94421, 115751, 121001, 154061, 163841, 179801, 185051, 250031, 344231, 351041, 380441, 417941,

$p+6$   $p+12$   $p+18$   $p+20$   $p+22$  : f3

$p+6$   $p+12$   $p+18$   $p+20$   $p+24$  : f5

$p+6$   $p+12$   $p+18$   $p+20$   $p+26$  : 251, 17471, 94421, 115751, 154061, 179801, 185051, 250031, 344231,

$p+6$   $p+12$   $p+18$   $p+20$   $p+28$  : f3

$p+6$   $p+12$   $p+18$   $p+20$   $p+30$  : 163841,

$p+6$   $p+12$   $p+18$   $p+22$  : 3301, 15901, 18211, 30091, 53611, 71341, 77551, 80911, 89101, 120811, 252151, 285451, 292471, 294781, 344251,

$p+6$   $p+12$   $p+18$   $p+22$   $p+24$  : f5

$p+6$   $p+12$   $p+18$   $p+22$   $p+26$  : f3

$p+6$   $p+12$   $p+18$   $p+22$   $p+28$  : 3301, 30091, 53611, 294781,

$p+6$   $p+12$   $p+18$   $p+22$   $p+30$  : 252151,

$p+6$   $p+12$   $p+18$   $p+24$  : f5

$p+6$   $p+12$   $p+18$   $p+26$  : 5381, 6311, 13451, 14741, 15791, 84431, 95261, 120551, 162251, 187361, 191021, 206021, 222311, 226631, 262121, 293081, 363551,

$p+6$   $p+12$   $p+18$   $p+26$   $p+28$  : f3

$p+6$   $p+12$   $p+18$   $p+26$   $p+30$  : 14741, 206021, 262121, 363551,

$p+6$   $p+12$   $p+18$   $p+28$  : 6361, 63691, 83431, 105361, 228841, 280921, 302971, 334171, 348241, 415951, 468691, 494731,

$p+6$   $p+12$   $p+18$   $p+28$   $p+30$  : 494731,

$p+6$   $p+12$   $p+18$   $p+30$  : 12641, 19471, 30631, 82781, 144241, 206191, 214451, 245741, 252881, 263071, 331141, 369991, 408211, 415141, 423091, 496481,

$p+6$   $p+12$   $p+20$  : 971, 1097, 1181, 1361, 2897, 5387, 5801, 6317, 6971, 7517, 8741, 10247, 11801, 12491, 13457, 14747, 15797, 16091, 17321, 24071, 24671,

26387, 29327, 33851, 34667,

p+ 6 p+12 p+20 p+22 : f3

p+ 6 p+12 p+20 p+24 : 7517, 10247, 14747, 38177, 42677, 88997, 92357, 110927,  
133097, 206027, 262127, 310547, 349907, 363557, 373187, 403037, 466997, 473507,

p+ 6 p+12 p+20 p+24 p+26 : 10247, 42677, 92357, 262127, 349907, 373187, 403037,  
473507,

p+ 6 p+12 p+20 p+24 p+28 : f3

p+ 6 p+12 p+20 p+24 p+30 : 7517, 310547,

p+ 6 p+12 p+20 p+26 : 971, 1097, 5387, 5801, 6317, 6971, 11801, 12491, 15797,  
24071, 24671, 34667, 36671, 39857, 47501, 55787, 60611, 61631, 84437, 93077,  
114467, 127637, 141257, 142211, 142547,

p+ 6 p+12 p+20 p+26 p+28 : f3

p+ 6 p+12 p+20 p+26 p+30 : 5387, 6971, 11801, 39857, 55787, 84437, 188681,  
391367, 422057, 474911,

p+ 6 p+12 p+20 p+28 : f3

p+ 6 p+12 p+20 p+28 p+30 : f3

p+ 6 p+12 p+20 p+30 : 2897, 13457, 17321, 26387, 59387, 79967, 119027, 120557,  
162257, 171917, 191027, 192737, 200171, 200351, 222317, 227147, 228581, 244451,  
258971, 267581, 287087, 304751, 434927, 448367, 478421,

p+ 6 p+12 p+22 : 4651, 6067, 6367, 9391, 15307, 21157, 21991, 23887, 32077,  
34261, 36061, 40927, 47521, 56431, 60127, 60331, 63697, 78571, 81931, 83437,  
87421, 88861, 96757, 105367, 108211,

p+ 6 p+12 p+22 p+24 : 6067, 15307, 23887, 127657, 152617, 195907, 207457,  
270217, 333427, 355087, 494737,

p+ 6 p+12 p+22 p+24 p+26 : f3

p+ 6 p+12 p+22 p+24 p+28 : f5

p+ 6 p+12 p+22 p+24 p+30 : 23887, 333427,

p+ 6 p+12 p+22 p+26 : f3

p+ 6 p+12 p+22 p+26 p+28 : f3

p+ 6 p+12 p+22 p+26 p+30 : f3

p+ 6 p+12 p+22 p+28 : 4651, 9391, 109891, 117751, 121321, 144751, 202381,  
206911, 234721, 236701, 238201, 246781, 250681, 266971, 306871, 349471, 432031,  
443341, 463291,



$p+6$   $p+12$   $p+22$   $p+28$   $p+30$  : 9391, 121321, 246781, 463291,

$p+6$   $p+12$   $p+22$   $p+30$  : 6367, 21157, 63697, 96757, 105367, 123427, 127837,  
146191, 169627, 192091, 264757, 280927, 300661, 302977, 318811, 341281, 368077,

$p+6$   $p+12$   $p+24$  : 7817, 8707, 9467, 12577, 12647, 19477, 22067, 27767, 29167,  
30637, 35747, 40087, 41257, 58687, 67777, 71837, 77017, 78167, 79817, 82787,  
89977, 98467, 101477, 103997, 104947,

$p+6$   $p+12$   $p+24$   $p+26$  : 22067, 27767, 78167, 79817, 82787, 101477, 112577,  
135887, 136727, 143477, 157247, 189467, 214457, 252887, 284807, 392957, 418787,  
491627,

$p+6$   $p+12$   $p+24$   $p+26$   $p+28$  : f3

$p+6$   $p+12$   $p+24$   $p+26$   $p+30$  : 79817, 157247,

$p+6$   $p+12$   $p+24$   $p+28$  : f5

$p+6$   $p+12$   $p+24$   $p+30$  : 8707, 9467, 19477, 67777, 71837, 77017, 89977, 121547,  
225977, 341617, 347227, 418837, 423097, 434237, 463207,

$p+6$   $p+12$   $p+26$  : 941, 2411, 5297, 10601, 11897, 13037, 15761, 16421, 19571,  
20117, 25667, 26177, 32987, 34871, 39107, 44537, 52721, 62207, 62591, 62627,  
64007, 74561, 76481, 78797, 81071,

$p+6$   $p+12$   $p+26$   $p+28$  : f3

$p+6$   $p+12$   $p+26$   $p+30$  : 941, 2411, 10601, 11897, 15761, 16421, 20117, 64007,  
76481, 81071, 89387, 107687, 108917, 126311, 130337, 150401, 207941, 211187,  
223247, 229127, 304511, 322067, 450887,

$p+6$   $p+12$   $p+28$  : 3631, 11491, 12541, 22441, 23761, 28921, 41011, 63901, 65551,  
79861, 87511, 116791, 121441, 140521, 149491, 151471, 161971, 169831, 177211,  
179821, 184831, 188431, 203011, 203221, 209221,

$p+6$   $p+12$   $p+28$   $p+30$  : 65551, 87511, 140521, 149491, 281551, 463861, 464251,

$p+6$   $p+12$   $p+30$  : 1747, 1901, 4451, 4591, 15187, 16981, 23327, 26981, 38861,  
46141, 50147, 50411, 58537, 63067, 65951, 68737, 73517, 76667, 86131, 86257,  
93047, 95917, 115331, 116101, 120091,

$p+6$   $p+14$  : 83, 353, 383, 443, 677, 977, 1103, 1187, 1367, 1433, 1553, 1973,  
2207, 2693, 2837, 2903, 3203, 3617, 4283, 4937, 5393, 5807, 6323, 6977, 7013,

$p+6$   $p+14$   $p+16$  : f3

$p+6$   $p+14$   $p+18$  : 83, 383, 443, 1433, 1553, 2693, 3203, 7523, 8663, 9533, 10163,  
10253, 12143, 12263, 12473, 12893, 14753, 20393, 23813, 28643, 31253, 32783,  
33563, 33623, 35993,

$p+6$   $p+14$   $p+18$   $p+20$  : 83, 443, 1433, 2693, 10253, 12143, 23813, 28643, 32783,

35993, 38693, 42683, 49103, 71693, 79133, 90053, 92363, 108863, 136973, 143243,  
159773, 167423, 222773, 225143, 227453,

p+ 6 p+14 p+18 p+20 p+22 : f3

p+ 6 p+14 p+18 p+20 p+24 : 83, 443, 35993, 92363, 108863, 225143, 340913,  
388163,

p+ 6 p+14 p+18 p+20 p+24 p+26 : 83, 340913,

p+ 6 p+14 p+18 p+20 p+24 p+28 : f3

p+ 6 p+14 p+18 p+20 p+26 : 1433, 2693, 28643, 42683, 71693, 79133, 136973,  
159773, 167423, 222773, 349913, 448853, 464993,

p+ 6 p+14 p+18 p+20 p+28 : f3

p+ 6 p+14 p+18 p+20 p+30 : 38693,

p+ 6 p+14 p+18 p+22 : f3

p+ 6 p+14 p+18 p+24 : 7523, 12473, 12893, 31253, 33563, 33623, 57713, 58043,  
58193, 172853, 184553, 198953, 200573, 310553, 427433, 442973, 480503,

p+ 6 p+14 p+18 p+24 p+26 : 7523, 12893, 33563,

p+ 6 p+14 p+18 p+24 p+28 : f3

p+ 6 p+14 p+18 p+24 p+30 : 12473, 58043, 172853, 480503,

p+ 6 p+14 p+18 p+26 : 383, 1553, 3203, 8663, 12263, 14753, 70223, 102533,  
114743, 129443, 167873, 171863, 363563, 391613, 442763,

p+ 6 p+14 p+18 p+26 p+28 : f3

p+ 6 p+14 p+18 p+26 p+30 : 1553, 8663, 14753, 102533, 114743,

p+ 6 p+14 p+18 p+28 : f3

p+ 6 p+14 p+18 p+30 : 10163, 47933, 67043, 166613, 168263, 181913, 185693,  
258113, 392333,

p+ 6 p+14 p+20 : 353, 977, 1103, 1973, 2837, 3617, 4937, 5393, 5807, 6323,  
6977, 8693, 10973, 11807, 12497, 12953, 13613, 14717, 15803, 16547, 20327,  
21143, 23747, 23873, 24077,

p+ 6 p+14 p+20 p+22 : f3

p+ 6 p+14 p+20 p+24 : 1973, 2837, 5393, 6977, 11807, 14717, 27803, 31643,  
39863, 42437, 47123, 55793, 71147, 84443, 85223, 86837, 118037, 131297, 137177,  
143807, 172583, 178793, 188687, 237137, 274847,

p+ 6 p+14 p+20 p+24 p+26 : 1973, 5393, 11807, 42437, 47123, 55793, 143807,

178793, 237137, 348437, 354017, 391373, 422063, 449543,

$p+6$   $p+14$   $p+20$   $p+24$   $p+28$  : f3

$p+6$   $p+14$   $p+20$   $p+24$   $p+30$  : 14717, 362333, 444863,

$p+6$   $p+14$   $p+20$   $p+26$  : 353, 1103, 3617, 8693, 12953, 16547, 20327, 21143, 23747, 23873, 24077, 32063, 36293, 47507, 55823, 75767, 83417, 86243, 98453, 127643, 134033, 144563, 147773, 151667, 161033,

$p+6$   $p+14$   $p+20$   $p+26$   $p+28$  : f3

$p+6$   $p+14$   $p+20$   $p+26$   $p+30$  : 353, 12953, 20327, 24077, 75767, 144563, 200003, 251513, 281777, 314213, 329657, 358973, 402023,

$p+6$   $p+14$   $p+20$   $p+28$  : f3

$p+6$   $p+14$   $p+20$   $p+28$   $p+30$  : f3

$p+6$   $p+14$   $p+20$   $p+30$  : 4937, 6323, 10973, 12497, 29423, 34673, 35963, 42923, 59063, 60617, 61637, 63347, 93083, 95717, 128663, 137927, 152183, 164357, 172643, 176207, 193133, 224027, 268487, 293453, 303293,

$p+6$   $p+14$   $p+22$  : f3

$p+6$   $p+14$   $p+24$  : 677, 2903, 8363, 13463, 13907, 15077, 15377, 17093, 17327, 19913, 20873, 21563, 25343, 26393, 28283, 34313, 37847, 38723, 50087, 53987, 55103, 55667, 59393, 68903, 69233,

$p+6$   $p+14$   $p+24$   $p+26$  : 8363, 13907, 20873, 21563, 28283, 38723, 53987, 59393, 69233, 69467, 73583, 79973, 105503, 106427, 155693, 162263, 165527, 183473, 200357, 204137, 222323, 253763, 263927, 267587, 270437,

$p+6$   $p+14$   $p+24$   $p+26$   $p+28$  : f3

$p+6$   $p+14$   $p+24$   $p+26$   $p+30$  : 20873, 69233, 69467, 73583, 105503, 155693, 162263, 183473, 263927, 295847, 325667, 328037,

$p+6$   $p+14$   $p+24$   $p+28$  : f3

$p+6$   $p+14$   $p+24$   $p+30$  : 15077, 17093, 25343, 26393, 55667, 75323, 92693, 115727, 158567, 221447, 228587, 232847, 261323, 334637, 404483, 434933, 487703,

$p+6$   $p+14$   $p+26$  : 1187, 7013, 11273, 28697, 30197, 30803, 33023, 40163, 40493, 45827, 54773, 68213, 86573, 89753, 100043, 109583, 113117, 123203, 130073, 141623, 153443, 158003, 162677, 166403, 174143,

$p+6$   $p+14$   $p+26$   $p+28$  : f3

$p+6$   $p+14$   $p+26$   $p+30$  : 1187, 7013, 33023, 40163, 89753, 113117, 141623, 269513, 301643, 310433, 322403, 338747, 352043, 358697, 372803, 383807, 389897, 481667, 497963,

$p+6$   $p+14$   $p+28$  :  $f_3$

$p+6$   $p+14$   $p+30$  : 2207, 12197, 16097, 18743, 28433, 29297, 29333, 32573, 36263, 41897, 42293, 42737, 57383, 58727, 58757, 59693, 64997, 66587, 78707, 107867, 127733, 129083, 129887, 130517, 134213,

$p+6$   $p+16$  : 331, 541, 571, 1033, 1621, 2011, 2713, 3511, 3541, 4357, 4657, 4903, 4951, 6073, 6271, 6337, 6373, 6673, 6703, 7213, 8053, 8521, 9043, 9397, 10831,

$p+6$   $p+16$   $p+18$  : 331, 1033, 2011, 2713, 3511, 3541, 4951, 6073, 6673, 8521, 11953, 14431, 15271, 15313, 19681, 23671, 23893, 28081, 30253, 30853, 31063, 31231, 33751, 34141, 36451,

$p+6$   $p+16$   $p+18$   $p+20$  :  $f_3$

$p+6$   $p+16$   $p+18$   $p+22$  : 331, 3511, 4951, 8521, 31231, 33751, 36451, 43591, 49921, 183691, 349381, 360271, 390721, 411721, 467611,

$p+6$   $p+16$   $p+18$   $p+22$   $p+24$  :  $f_5$

$p+6$   $p+16$   $p+18$   $p+22$   $p+26$  :  $f_3$

$p+6$   $p+16$   $p+18$   $p+22$   $p+28$  : 331, 3511, 31231, 36451, 349381,

$p+6$   $p+16$   $p+18$   $p+22$   $p+30$  : 390721, 411721, 467611,

$p+6$   $p+16$   $p+18$   $p+24$  : 23893, 74143, 83383, 111103, 115303, 124753, 183283, 288973, 333433, 349813, 385573, 458173,

$p+6$   $p+16$   $p+18$   $p+24$   $p+26$  :  $f_3$

$p+6$   $p+16$   $p+18$   $p+24$   $p+28$  : 115303, 124753, 288973, 349813,

$p+6$   $p+16$   $p+18$   $p+24$   $p+30$  :

$p+6$   $p+16$   $p+18$   $p+26$  :  $f_3$

$p+6$   $p+16$   $p+18$   $p+28$  : 1033, 2011, 2713, 6073, 6673, 11953, 15271, 19681, 28081, 30853, 31063, 47791, 49531, 55603, 60631, 114643, 119671, 121351, 127663, 140611, 149893, 160621, 176791, 183301, 191491,

$p+6$   $p+16$   $p+18$   $p+28$   $p+30$  : 1033, 6673, 28081, 55603, 60631, 119671, 160621, 268501,

$p+6$   $p+16$   $p+18$   $p+30$  : 3541, 14431, 34141, 52051, 66733, 84961, 92551, 164413, 280321, 293983, 339121, 378223, 390193, 391873, 402511, 421453, 430891, 463231, 494251,

$p+6$   $p+16$   $p+20$  :  $f_3$

$p+6$   $p+16$   $p+22$  : 541, 571, 4657, 6337, 9397, 10831, 19441, 21751, 25147, 28387, 29131, 30181, 35977, 36997, 39841, 57367, 61651, 63331, 78691, 83401, 106411,

109897, 110581, 117757, 119611,

$p+6$   $p+16$   $p+22$   $p+24$  : 6337, 9397, 25147, 28387, 36997, 121327, 246787, 281227, 459007, 463297, 486307,

$p+6$   $p+16$   $p+22$   $p+24$   $p+26$  : f3

$p+6$   $p+16$   $p+22$   $p+24$   $p+28$  : f5

$p+6$   $p+16$   $p+22$   $p+24$   $p+30$  : 6337, 121327, 246787, 459007,

$p+6$   $p+16$   $p+22$   $p+26$  : f3

$p+6$   $p+16$   $p+22$   $p+28$  : 541, 571, 10831, 19441, 39841, 110581, 127711, 143461, 150061, 153421, 185161, 189961, 206461, 227371, 322051, 336571, 410491, 432721, 488611, 494671,

$p+6$   $p+16$   $p+22$   $p+28$   $p+30$  : 541, 571, 10831, 19441, 150061, 488611,

$p+6$   $p+16$   $p+22$   $p+30$  : 30181, 35977, 57367, 61651, 63331, 78691, 83401, 106411, 117757, 143791, 167407, 168247, 236707, 238207, 246187, 281761, 296347, 349477, 354001, 383791, 400291, 432037, 442747, 445567, 450361,

$p+6$   $p+16$   $p+24$  : 6373, 7213, 9043, 12697, 14923, 21163, 24223, 30757, 31957, 35083, 39703, 42703, 42937, 50833, 52363, 56377, 56503, 60937, 63703, 71413, 73363, 81157, 84223, 94597, 96763,

$p+6$   $p+16$   $p+24$   $p+26$  : f3

$p+6$   $p+16$   $p+24$   $p+28$  : 14923, 21163, 24223, 35083, 52363, 56503, 96973, 105373, 169633, 179083, 219823, 264763, 302983, 317593, 368083,

$p+6$   $p+16$   $p+24$   $p+28$   $p+30$  : 21163, 56503, 96973, 264763, 302983,

$p+6$   $p+16$   $p+24$   $p+30$  : 7213, 39703, 42937, 71413, 127843, 136303, 140587, 162823, 172657, 215827, 221203, 248293, 280933, 316753, 343237, 419443, 447877, 450193, 494077,

$p+6$   $p+16$   $p+26$  : f3

$p+6$   $p+16$   $p+28$  : 4903, 6271, 8053, 12511, 16333, 24793, 26833, 35053, 35251, 36871, 40933, 46861, 49003, 51631, 58411, 60133, 63361, 67531, 70423, 72673, 73693, 74161, 74203, 80803, 83443,

$p+6$   $p+16$   $p+28$   $p+30$  : 4903, 6271, 12511, 16333, 26833, 35053, 35251, 36871, 49003, 58411, 63361, 80803, 92641, 95413, 99103, 103393, 104281, 104773, 131611, 133321, 160681, 174901, 183943, 189223, 197683,

$p+6$   $p+16$   $p+30$  : 6703, 21997, 34267, 36067, 47623, 49597, 50497, 52147, 56437, 59077, 62533, 63097, 64483, 64921, 78577, 81937, 86461, 88867, 108217, 110527, 112207, 120193, 123001, 132631, 136027,

$p+6$   $p+18$  : 503, 991, 1231, 1453, 1493, 2063, 2393, 2441, 3061, 4073, 4093,

4391, 4673, 4871, 5081, 5821, 7103, 7823, 7901, 8311, 8713, 9181, 9203, 9221, 9473,

p+ 6 p+18 p+20 : 503, 2063, 4073, 5081, 9221, 16883, 19973, 20753, 22073, 22721, 25583, 25913, 27773, 32303, 32423, 33311, 33791, 36761, 41183, 46751, 48761, 50951, 52691, 52883, 57173,

p+ 6 p+18 p+20 p+22 : f3

p+ 6 p+18 p+20 p+24 : 2063, 19973, 32303, 77243, 79823, 128813, 157253, 391733, 432143,

p+ 6 p+18 p+20 p+24 p+26 : 2063, 77243, 157253,

p+ 6 p+18 p+20 p+24 p+28 : f3

p+ 6 p+18 p+20 p+24 p+30 :

p+ 6 p+18 p+20 p+26 : 4073, 5081, 25583, 25913, 27773, 36761, 48761, 58211, 61961, 71861, 80651, 85601, 90353, 95213, 106103, 127271, 128321, 133691, 143483, 171653, 176531, 207491, 252893, 254021, 267413,

p+ 6 p+18 p+20 p+26 p+28 : f3

p+ 6 p+18 p+20 p+26 p+30 : 25913, 27773, 36761, 61961, 80651, 127271, 128321, 143483, 207491, 444443, 496871, 498761,

p+ 6 p+18 p+20 p+28 : f3

p+ 6 p+18 p+20 p+30 : 22721, 41183, 52691, 57173, 58991, 78173, 84503, 101483, 121151, 125201, 125621, 193841, 224891, 235871, 250721, 263591, 286043, 317711, 348401, 462881, 467651, 472691, 477791,

p+ 6 p+18 p+22 : 991, 3061, 5821, 9181, 9811, 13291, 16741, 24001, 25741, 35401, 36691, 38281, 49411, 54541, 72931, 83071, 85621, 101341, 103681, 115831, 124471, 130051, 132151, 146521, 148381,

p+ 6 p+18 p+22 p+24 : f5

p+ 6 p+18 p+22 p+26 : f3

p+ 6 p+18 p+22 p+28 : 991, 3061, 5821, 9181, 9811, 24001, 72931, 115831, 130051, 174631, 191671, 217201, 231271, 295411, 304411, 339631, 372271, 438961, 476401,

p+ 6 p+18 p+22 p+28 p+30 : 991, 5821, 115831, 295411,

p+ 6 p+18 p+22 p+30 : 25741, 36691, 83071, 148381, 151531, 185131, 306511, 312211, 319321,

p+ 6 p+18 p+24 : 2393, 7103, 8713, 9203, 9473, 9833, 11783, 13103, 19213, 19483, 19553, 27253, 28573, 38953, 40823, 42373, 65123, 67783, 71843, 73453, 77023, 84713, 89983, 95003, 110623,

$p+6$   $p+18$   $p+24$   $p+26$  : 7103, 9833, 40823, 121553, 138053, 149393, 219953, 223313, 232433, 253343, 256163, 328103, 337343, 431423,

$p+6$   $p+18$   $p+24$   $p+26$   $p+28$  : f3

$p+6$   $p+18$   $p+24$   $p+26$   $p+30$  : 40823, 149393, 219953,

$p+6$   $p+18$   $p+24$   $p+28$  : 8713, 27253, 89983, 110623, 117703, 195253, 366193, 418843, 496453,

$p+6$   $p+18$   $p+24$   $p+28$   $p+30$  : 27253,

$p+6$   $p+18$   $p+24$   $p+30$  : 2393, 11783, 19553, 28573, 42373, 73453, 168713, 200153, 209953, 214433, 224443, 225983, 334753, 423103,

$p+6$   $p+18$   $p+26$  : 2441, 7901, 27431, 30671, 37511, 45953, 67961, 72701, 83591, 90971, 96263, 106721, 122471, 123401, 123701, 139703, 147293, 152213, 153353, 162623, 167081, 173891, 183041, 192233, 196901,

$p+6$   $p+18$   $p+26$   $p+28$  : f3

$p+6$   $p+18$   $p+26$   $p+30$  : 83591, 96263, 106721, 122471, 123701, 192233, 275981, 282281, 319031, 335663, 337511, 340031, 472133,

$p+6$   $p+18$   $p+28$  : 1231, 1453, 12583, 15601, 17491, 19231, 24043, 26431, 29173, 30643, 38833, 42331, 42961, 46471, 47563, 48781, 56923, 63391, 65581, 67801, 70951, 71881, 79531, 92461, 92761,

$p+6$   $p+18$   $p+28$   $p+30$  : 1453, 12583, 63391, 70951, 79531, 92761, 107071, 109141, 117511, 150961, 167311, 194653, 197341, 247363, 287251, 367201, 385261, 392233, 403951, 409861, 433633, 450811,

$p+6$   $p+18$   $p+30$  : 1493, 4391, 4673, 7823, 11393, 12823, 18713, 25603, 28051, 29581, 31033, 35111, 40093, 44501, 52511, 54133, 66791, 67493, 67601, 80233, 81671, 85103, 97423, 103651, 104003,

$p+6$   $p+20$  : 947, 2351, 2417, 4133, 5147, 5303, 6047, 7187, 9371, 9491, 10337, 10607, 10733, 11903, 12323, 13043, 14051, 14153, 14633, 15101, 15767, 16427, 17117, 19031, 19577,

$p+6$   $p+20$   $p+22$  : f3

$p+6$   $p+20$   $p+24$  : 947, 2417, 4133, 5147, 7187, 10607, 11903, 12323, 14153, 14633, 15767, 16427, 20123, 23603, 24527, 28493, 30113, 36473, 42467, 53633, 59447, 59723, 61487, 62477, 64013,

$p+6$   $p+20$   $p+24$   $p+26$  : 4133, 7187, 16427, 20123, 23603, 30113, 59447, 66083, 70157, 74357, 75683, 81527, 107693, 108923, 117017, 130343, 136373, 171023, 180773, 181277, 189593, 195023, 197273, 207947, 209543,

$p+6$   $p+20$   $p+24$   $p+26$   $p+28$  : f3

p+ 6 p+20 p+24 p+26 p+30 : 23603, 136373, 171023, 195023, 233663, 375227,

p+ 6 p+20 p+24 p+28 : f3

p+ 6 p+20 p+24 p+28 p+30 : f3

p+ 6 p+20 p+24 p+30 : 947, 2417, 11903, 15767, 59723, 62477, 87293, 98993,  
100907, 111317, 125687, 137363, 169913, 190763, 195863, 223253, 250007, 261557,  
296663, 375203, 390077, 414077,

p+ 6 p+20 p+26 : 2351, 6047, 9371, 19577, 24023, 26183, 29147, 31013, 32687,  
39113, 41621, 42767, 46451, 55691, 62633, 63467, 80783, 96953, 99083, 99371,  
102647, 106391, 110603, 113963, 124673,

p+ 6 p+20 p+26 p+28 : f3

p+ 6 p+20 p+26 p+28 p+30 : f3

p+ 6 p+20 p+26 p+30 : 2351, 32687, 41621, 42767, 55691, 99371, 102647, 124673,  
126713, 137567, 138863, 158591, 209327, 210461, 217661, 219911, 234161, 266927,  
280223, 315671, 332441, 353891, 374063, 384821, 393551,

p+ 6 p+20 p+28 : f3

p+ 6 p+20 p+28 p+30 : f3

p+ 6 p+20 p+30 : 5303, 9491, 14051, 15101, 25673, 32993, 36131, 44351, 51797,  
52727, 56681, 57143, 59951, 62597, 68141, 68501, 73877, 74567, 75347, 84401,  
84731, 88493, 92921, 101957, 108887,

p+ 6 p+22 : 3637, 4051, 4561, 7411, 8641, 9901, 10861, 11497, 12451, 12547,  
13591, 13627, 17707, 19267, 22447, 23167, 23767, 25867, 27961, 28837, 28927,  
32911, 37117, 37441, 38047,

p+ 6 p+22 p+24 : 43627, 46567, 61357, 65557, 84787, 87517, 138157, 138427,  
140527, 142567, 149497, 162997, 178327, 203947, 241537, 264007, 281557, 288907,  
321547, 330697, 377347, 390367, 402307, 410317, 463867,

p+ 6 p+22 p+24 p+26 : f3

p+ 6 p+22 p+24 p+28 : f5

p+ 6 p+22 p+24 p+30 : 65557, 87517, 140527, 162997, 203947, 241537, 321547,

p+ 6 p+22 p+26 : f3

p+ 6 p+22 p+28 : 4051, 8641, 9901, 10861, 12451, 13591, 32911, 38671, 47911,  
49171, 70201, 74071, 77521, 80341, 99901, 111121, 114571, 145681, 180541,  
211291, 218941, 232411, 239851, 242371, 244561,

p+ 6 p+22 p+28 p+30 : 9901, 10861, 32911, 49171, 74071, 77521, 114571, 218941,  
262621, 284701, 342841, 346111, 471901,



$p+6$   $p+22$   $p+30$  : 4561, 11497, 12547, 17707, 23167, 28837, 41017, 44887, 48157, 51481, 71941, 77317, 77977, 99787, 116797, 121501, 123631, 130021, 151477, 161977, 167191, 170851, 179917, 187387, 192007,

$p+6$   $p+24$  : 1063, 1753, 1907, 3797, 4457, 4597, 9103, 9743, 12613, 12757, 15193, 16987, 17293, 17443, 19157, 20023, 20177, 21937, 22343, 22543, 22937, 23203, 23333, 25367, 26203,

$p+6$   $p+24$   $p+26$  : 1907, 3797, 4457, 9743, 19157, 22343, 22937, 32003, 39317, 50867, 53693, 65957, 73013, 93257, 103043, 115127, 115337, 165287, 173267, 187043, 200903, 226427, 228707, 238853, 241337,

$p+6$   $p+24$   $p+26$   $p+28$  : f3

$p+6$   $p+24$   $p+26$   $p+30$  : 73013, 93257, 165287, 173267, 187043, 228707, 238853, 246683, 361763, 455573,

$p+6$   $p+24$   $p+28$  : 1063, 12613, 17293, 17443, 20023, 22543, 31153, 34033, 39133, 43753, 53353, 68743, 73303, 86263, 90373, 95233, 134053, 134263, 135403, 176983, 189853, 201973, 214063, 216373, 229813,

$p+6$   $p+24$   $p+28$   $p+30$  : 1063, 22543, 31153, 39133, 43753, 86263, 90373, 134263, 135403, 176983, 301153, 311653, 325723, 338383, 363373, 376603, 417553, 451873, 471253,

$p+6$   $p+24$   $p+30$  : 1753, 9103, 26987, 34513, 36973, 45863, 51607, 52667, 58543, 61813, 62897, 63073, 73523, 78277, 93053, 100823, 106367, 109913, 114547, 116657, 122503, 127133, 138893, 139267, 141277,

$p+6$   $p+26$  : 3083, 3407, 5711, 5897, 5981, 7643, 8237, 11087, 11981, 13121, 15467, 16937, 18143, 21221, 24197, 25121, 26921, 27647, 29921, 30341, 31601, 34913, 37217, 39983, 41051,

$p+6$   $p+26$   $p+28$  : f3

$p+6$   $p+26$   $p+30$  : 5711, 5897, 5981, 7643, 11087, 11981, 13121, 15467, 26921, 39983, 41051, 43991, 51257, 57917, 58937, 61001, 65141, 66041, 72047, 72617, 74021, 75653, 85571, 89627, 107897,

$p+6$   $p+28$  : 1123, 2551, 3733, 4021, 5443, 6421, 8011, 9343, 12043, 13723, 14341, 18973, 19813, 19861, 21061, 26113, 26641, 26731, 26953, 27481, 28723, 29983, 35803, 36313, 46021,

$p+6$   $p+28$   $p+30$  : 1123, 4021, 6421, 12043, 19813, 19861, 28723, 29983, 36313, 46021, 49993, 55633, 58573, 59023, 78511, 85903, 106753, 117673, 119101, 130981, 157321, 172993, 178531, 204481, 207301,

$p+6$   $p+30$  : 8117, 11833, 12113, 17047, 18587, 19501, 22871, 35221, 40897, 41351, 41771, 43451, 49333, 49633, 52021, 54371, 54721, 55073, 61751, 62653, 67073, 67447, 70321, 71287, 71563,

$p+8$  : A031926 89, 359, 389, 401, 449, 479, 491, 683, 701, 719, 743, 761, 911, 929, 983, 1109, 1163, 1193, 1373, 1439, 1523, 1559, 1571, 1733, 1823,

$p+ 8 p+10 : f3$

$p+ 8 p+12 : 89, 389, 449, 479, 491, 761, 929, 1439, 1559, 1571, 2531, 2609, 2699, 2741, 3011, 3209, 3449, 6899, 7529, 7691, 8669, 8681, 9311, 9539, 10151,$

$p+ 8 p+12 p+14 : 89, 449, 1439, 2699, 3449, 10259, 12149, 21179, 23189, 23549, 23819, 26099, 28649, 29009, 31139, 31379, 32789, 35999, 38699, 39359, 42689, 45329, 48809, 49109, 55889,$

$p+ 8 p+12 p+14 p+16 : f3$

$p+ 8 p+12 p+14 p+18 : 89, 449, 3449, 23549, 29009, 31379, 35999, 92369, 92849, 96989, 108869, 110909, 120929, 123719, 148139, 153059, 163469, 179939, 218069, 219749, 220889, 225149, 237959, 291359, 340919,$

$p+ 8 p+12 p+14 p+18 p+20 : 89, 3449, 340919,$

$p+ 8 p+12 p+14 p+18 p+20 p+22 : f3$

$p+ 8 p+12 p+14 p+18 p+20 p+24 : 89,$

$p+ 8 p+12 p+14 p+18 p+20 p+26 : f5$

$p+ 8 p+12 p+14 p+18 p+20 p+28 : f3$

$p+ 8 p+12 p+14 p+18 p+22 : f3$

$p+ 8 p+12 p+14 p+18 p+24 : 29009, 108869, 110909,$

$p+ 8 p+12 p+14 p+18 p+24 p+26 : f5$

$p+ 8 p+12 p+14 p+18 p+24 p+28 : f3$

$p+ 8 p+12 p+14 p+18 p+26 : f5$

$p+ 8 p+12 p+14 p+18 p+28 : f3$

$p+ 8 p+12 p+14 p+18 p+30 : 449, 92369, 153059, 179939, 220889,$

$p+ 8 p+12 p+14 p+20 : 1439, 2699, 23189, 26099, 28649, 31139, 42689, 71699, 74189, 79139, 103079, 106649, 106739, 122489, 136979, 159779, 167429, 185519, 199799, 206399, 222779, 255239, 302999, 308999, 349919,$

$p+ 8 p+12 p+14 p+20 p+22 : f3$

$p+ 8 p+12 p+14 p+20 p+24 : 185519, 390479, 448859,$

$p+ 8 p+12 p+14 p+20 p+24 p+26 : f5$

$p+ 8 p+12 p+14 p+20 p+24 p+28 : f3$

$p+ 8 p+12 p+14 p+20 p+26 : f5$

p+ 8 p+12 p+14 p+20 p+28 : f3

p+ 8 p+12 p+14 p+20 p+30 : 2699, 42689, 74189, 302999, 349919,

p+ 8 p+12 p+14 p+22 : f3

p+ 8 p+12 p+14 p+24 : 38699, 39359, 56519, 107999, 108179, 115589, 167009,  
198929, 248879, 260849, 270539, 296819, 333779, 336239, 340049,

p+ 8 p+12 p+14 p+24 p+26 : f5

p+ 8 p+12 p+14 p+24 p+28 : f3

p+ 8 p+12 p+14 p+24 p+30 : 38699, 167009, 198929, 248879, 260849, 340049,

p+ 8 p+12 p+14 p+26 : f5

p+ 8 p+12 p+14 p+28 : f3

p+ 8 p+12 p+14 p+30 : 10259, 49109, 85439, 90059, 106949, 134669, 166289,  
208379, 227459, 257489, 323789, 373199, 373349, 383069, 403049, 473519,

p+ 8 p+12 p+16 : f3

p+ 8 p+12 p+18 : 491, 929, 2531, 6899, 7529, 8681, 10151, 10589, 12479, 12899,  
14879, 14939, 16871, 22709, 31259, 32771, 33569, 33629, 35099, 35141, 39971,  
41039, 44111, 47111, 50111,

p+ 8 p+12 p+18 p+20 : 2531, 7529, 12899, 33569, 44111, 50111, 58889, 59651,  
112901, 132689, 135581, 209801, 234791, 272171, 324419, 346421, 352349, 357551,  
433241,

p+ 8 p+12 p+18 p+20 p+22 : f3

p+ 8 p+12 p+18 p+20 p+24 : 12899, 58889,

p+ 8 p+12 p+18 p+20 p+24 p+26 : f5

p+ 8 p+12 p+18 p+20 p+24 p+28 : f3

p+ 8 p+12 p+18 p+20 p+26 : 2531, 112901, 135581, 346421, 433241,

p+ 8 p+12 p+18 p+20 p+28 : f3

p+ 8 p+12 p+18 p+20 p+30 : 7529, 33569, 272171, 324419,

p+ 8 p+12 p+18 p+22 : f3

p+ 8 p+12 p+18 p+24 : 929, 10589, 12479, 58049, 172859, 252869, 258959, 272399,  
305849, 342179, 474899, 480509,

p+ 8 p+12 p+18 p+24 p+26 : f5

p+ 8 p+12 p+18 p+24 p+28 : f3

p+ 8 p+12 p+18 p+24 p+30 : 252869,

p+ 8 p+12 p+18 p+26 : 8681, 10151, 32771, 47111, 105491, 147761, 157991,  
224291, 242621, 243461, 255641, 264731, 300221, 457661, 466061, 483221, 488321,

p+ 8 p+12 p+18 p+26 p+28 : f3

p+ 8 p+12 p+18 p+26 p+30 : 10151, 32771, 466061, 483221,

p+ 8 p+12 p+18 p+28 : f3

p+ 8 p+12 p+18 p+30 : 491, 14939, 16871, 22709, 35099, 35141, 58199, 65111,  
66161, 67481, 69371, 113891, 131489, 173531, 200579, 368099, 402851, 482021,

p+ 8 p+12 p+20 : 389, 479, 1559, 3209, 8669, 12269, 12401, 13151, 14411, 14759,  
21851, 28859, 31469, 33191, 36551, 39659, 40751, 50321, 54311, 64601, 70229,  
77339, 79601, 87671, 99551,

p+ 8 p+12 p+20 p+22 : f3

p+ 8 p+12 p+20 p+24 : 479, 1559, 8669, 14759, 102539, 114749, 308129, 476579,

p+ 8 p+12 p+20 p+24 p+26 : f5

p+ 8 p+12 p+20 p+24 p+28 : f3

p+ 8 p+12 p+20 p+24 p+30 : 479, 8669,

p+ 8 p+12 p+20 p+26 : 13151, 14411, 64601, 79601, 87671, 99551, 118661, 132611,  
136511, 145451, 188291, 271841, 417161, 420341, 478391,

p+ 8 p+12 p+20 p+26 p+28 : f3

p+ 8 p+12 p+20 p+26 p+30 : 79601, 87671, 99551, 118661, 136511, 417161, 478391,

p+ 8 p+12 p+20 p+28 : f3

p+ 8 p+12 p+20 p+30 : 389, 21851, 77339, 110261, 179021, 220391, 356969,  
371291, 418169, 435131, 439961,

p+ 8 p+12 p+22 : f3

p+ 8 p+12 p+24 : 2609, 10169, 26489, 46499, 47939, 67049, 97919, 113489,  
121259, 133379, 144299, 166619, 168269, 171629, 173969, 179429, 181919, 185699,  
221999, 238829, 250829, 258119, 270299, 321359, 324089,

p+ 8 p+12 p+24 p+26 : f5

p+ 8 p+12 p+24 p+28 : f3

$p+8$   $p+12$   $p+24$   $p+30$  : 47939, 67049, 171629, 221999, 238829, 270299, 324089, 455309,

$p+8$   $p+12$   $p+26$  : 761, 1571, 2741, 3011, 7691, 9311, 14771, 33521, 45281, 49451, 57641, 74861, 86171, 93971, 94811, 107441, 118361, 138311, 152381, 155291, 170801, 177101, 179471, 184031, 201881,

$p+8$   $p+12$   $p+26$   $p+28$  : f3

$p+8$   $p+12$   $p+26$   $p+30$  : 1571, 3011, 9311, 49451, 74861, 86171, 94811, 177101, 201881, 210101, 296741, 297881, 335021, 375971, 376811, 415661,

$p+8$   $p+12$   $p+28$  : f3

$p+8$   $p+12$   $p+30$  : 19001, 26309, 38189, 63659, 64271, 74441, 83609, 94781, 95621, 110939, 114269, 128591, 159491, 187181, 206039, 220361, 227081, 227489, 240101, 245711, 280001, 283949, 300749, 336491, 342791,

$p+8$   $p+14$  : 359, 719, 743, 983, 1109, 1733, 1979, 2003, 2273, 2459, 2663, 2843, 3623, 3719, 4349, 4583, 4943, 5399, 5813, 6029, 6203, 6329, 6983, 7229, 7673,

$p+8$   $p+14$   $p+16$  : f3

$p+8$   $p+14$   $p+18$  : 743, 1979, 2459, 2843, 5399, 6029, 6203, 6983, 7229, 7673, 7919, 11243, 11579, 11813, 14723, 14813, 18443, 21383, 22769, 23003, 25229, 25439, 27809, 30689, 31649,

$p+8$   $p+14$   $p+18$   $p+20$  : 1979, 5399, 11813, 41213, 42443, 44249, 47129, 55799, 57773, 74699, 79613, 84299, 88643, 126473, 143813, 148913, 167099, 176489, 178799, 178889, 209249, 211859, 237143, 266663, 267629,

$p+8$   $p+14$   $p+18$   $p+20$   $p+22$  : f3

$p+8$   $p+14$   $p+18$   $p+20$   $p+24$  : 1979, 42443, 44249, 55799, 88643, 266663, 344153, 354023, 391379,

$p+8$   $p+14$   $p+18$   $p+20$   $p+24$   $p+26$  : 266663,

$p+8$   $p+14$   $p+18$   $p+20$   $p+24$   $p+28$  : f3

$p+8$   $p+14$   $p+18$   $p+20$   $p+26$  : 11813, 126473, 272333,

$p+8$   $p+14$   $p+18$   $p+20$   $p+28$  : f3

$p+8$   $p+14$   $p+18$   $p+20$   $p+30$  : 41213, 57773, 74699, 211859, 237143, 375083, 422069,

$p+8$   $p+14$   $p+18$   $p+22$  : f3

$p+8$   $p+14$   $p+18$   $p+24$  : 6029, 7229, 14723, 21383, 23003, 25229, 25439, 30689, 37493, 39089, 41879, 44483, 44633, 47279, 62459, 91943, 104693, 106349, 126023, 127583, 136319, 136523, 142529, 192029, 251879,

$p+8$   $p+14$   $p+18$   $p+24$   $p+26$  : 23003, 91943, 127583, 340103,

p+ 8 p+14 p+18 p+24 p+28 : f3

p+ 8 p+14 p+18 p+24 p+30 : 14723, 25439, 39089, 47279, 104693, 142529, 286469, 351023, 458039, 458963, 478403,

p+ 8 p+14 p+18 p+26 : 743, 6203, 7673, 52553, 86843, 96443, 137183, 187163, 188693, 228443, 324983, 333323, 376793, 434813, 449663, 474923,

p+ 8 p+14 p+18 p+26 p+28 : f3

p+ 8 p+14 p+18 p+26 p+30 : 743, 7673, 52553, 187163, 376793, 449663,

p+ 8 p+14 p+18 p+28 : f3

p+ 8 p+14 p+18 p+30 : 6983, 7919, 11243, 14813, 72893, 85229, 120383, 166013, 172589, 193433, 248579, 274943, 280949, 313553, 338279, 351383, 361433, 362363, 386219, 417173, 444539, 450209, 464909,

p+ 8 p+14 p+20 : 359, 719, 1109, 1733, 2273, 2663, 3623, 3719, 4583, 8699, 12569, 12959, 13163, 15299, 16553, 17033, 20333, 21149, 22433, 23753, 23879, 24083, 32069, 36299, 46133,

p+ 8 p+14 p+20 p+22 : f3

p+ 8 p+14 p+20 p+24 : 359, 719, 2273, 2663, 12959, 13163, 20333, 24083, 75773, 91229, 91373, 99809, 103553, 125093, 144569, 163613, 182579, 200009, 203999, 240719, 241313, 246899, 251519, 257273, 281783,

p+ 8 p+14 p+20 p+24 p+26 : 2663, 20333, 24083, 125093, 414683,

p+ 8 p+14 p+20 p+24 p+28 : f3

p+ 8 p+14 p+20 p+24 p+30 : 359, 99809, 103553, 163613, 241313, 246899, 282683, 340889,

p+ 8 p+14 p+20 p+26 : 1733, 83423, 91283, 172973, 206183, 230213, 252143, 263063, 280913, 294773, 369983, 415133, 423083, 466553, 468683, 494723,

p+ 8 p+14 p+20 p+26 p+28 : f3

p+ 8 p+14 p+20 p+26 p+30 : 252143, 294773,

p+ 8 p+14 p+20 p+28 : f3

p+ 8 p+14 p+20 p+30 : 15299, 21149, 23879, 32069, 47513, 88853, 96749, 108203, 109883, 121313, 122819, 123419, 127649, 151673, 165449, 188303, 201653, 219599, 226769, 234713, 246773, 250673, 264749, 270209, 319469,

p+ 8 p+14 p+22 : f3

p+ 8 p+14 p+24 : 2003, 4349, 4943, 6329, 8513, 10979, 12503, 12689, 14423, 19433, 29429, 31223, 33479, 34679, 35969, 36629, 42929, 46853, 56369, 58403,

59069, 60623, 61643, 63353, 67523,

p+ 8 p+14 p+24 p+26 : 2003, 4943, 8513, 14423, 31223, 60623, 140603, 183683,  
185543, 202613, 268493, 317063, 402503, 430883, 470933,

p+ 8 p+14 p+24 p+26 p+28 : f3

p+ 8 p+14 p+24 p+26 p+30 : 4943, 8513, 31223, 183683,

p+ 8 p+14 p+24 p+28 : f3

p+ 8 p+14 p+24 p+30 : 6329, 19433, 35969, 61643, 110573, 132233, 150053,  
152189, 175829, 176213, 185153, 210233, 220529, 227363, 254963, 272903, 313589,  
336563, 374879, 377513, 379073, 432713, 460379, 488603,

p+ 8 p+14 p+26 : 983, 5813, 9173, 9803, 23993, 24683, 25733, 26423, 29573,  
35393, 36683, 38273, 40583, 42323, 42953, 72923, 83063, 92753, 101333, 103643,  
115823, 117503, 120863, 130043, 150893,

p+ 8 p+14 p+26 p+28 : f3

p+ 8 p+14 p+26 p+30 : 983, 5813, 9173, 9803, 23993, 25733, 35393, 36683, 38273,  
72923, 83063, 101333, 115823, 130043, 151523, 178613, 185123, 224603, 286973,  
306503, 319313, 371843, 438953,

p+ 8 p+14 p+28 : f3

p+ 8 p+14 p+30 : 13619, 19259, 23159, 27953, 38039, 39719, 44879, 46559, 47903,  
51899, 56813, 61673, 71933, 77513, 77969, 81839, 85703, 89909, 90833, 94049,  
105899, 116819, 121493, 123113, 142559,

p+ 8 p+16 : f3

p+ 8 p+18 : 401, 683, 701, 911, 1163, 2879, 2909, 3701, 5171, 5573, 5693, 5783,  
6113, 6473, 7499, 8093, 8369, 8933, 10313, 10781, 11681, 12791, 13241, 13469,  
13781,

p+ 8 p+18 p+20 : 401, 6113, 8369, 10313, 11681, 13913, 17729, 20879, 21569,  
28289, 34739, 37181, 37529, 38729, 39209, 42821, 43943, 53069, 53993, 57251,  
59399, 67121, 67391, 67559, 69011,

p+ 8 p+18 p+20 p+22 : f3

p+ 8 p+18 p+20 p+24 : 10313, 20879, 34739, 39209, 53069, 69239, 69473, 73589,  
81023, 105509, 129509, 155699, 162269, 183479, 263933, 295853, 325673, 328043,  
332183, 405659, 443543,

p+ 8 p+18 p+20 p+24 p+26 : 69473, 81023, 295853,

p+ 8 p+18 p+20 p+24 p+28 : f3

p+ 8 p+18 p+20 p+24 p+30 : 10313, 39209, 129509, 183479, 405659,

p+ 8 p+18 p+20 p+26 : 43943, 102233, 161753, 165533, 170741, 179981, 207653,  
208121, 281531, 305093, 309251, 313961, 325001, 350711, 350963, 354443, 354953,  
399473, 411233, 412193, 478433,

p+ 8 p+18 p+20 p+26 p+28 : f3

p+ 8 p+18 p+20 p+26 p+30 : 43943, 161753, 313961, 350711, 354953,

p+ 8 p+18 p+20 p+28 : f3

p+ 8 p+18 p+20 p+30 : 401, 6113, 21569, 28289, 67391, 67559, 93893, 119963,  
120899, 128951, 134999, 141689, 199721, 204143, 260171, 269201, 294149, 341303,  
357263, 430259, 475073, 497261,

p+ 8 p+18 p+22 : f3

p+ 8 p+18 p+24 : 1163, 2879, 5693, 5783, 7499, 8093, 15083, 15443, 17099,  
23063, 24509, 25349, 26153, 26399, 41333, 42719, 50069, 50849, 54269, 55673,  
56663, 59333, 59369, 63719, 67733,

p+ 8 p+18 p+24 p+26 : 59333, 67733, 80603, 82013, 97553, 99233, 100493, 133253,  
228593, 347033, 353603, 493193,

p+ 8 p+18 p+24 p+26 p+28 : f3

p+ 8 p+18 p+24 p+26 p+30 : 67733, 97553, 100493, 133253, 347033,

p+ 8 p+18 p+24 p+28 : f3

p+ 8 p+18 p+24 p+30 : 1163, 2879, 5783, 7499, 8093, 15443, 26153, 59369, 75503,  
76463, 89363, 115733, 184703, 207923, 242789, 248033, 344213, 363533, 404819,  
424139, 448169, 479753,

p+ 8 p+18 p+26 : 683, 701, 911, 3701, 5171, 13241, 13781, 17333, 20921, 33461,  
34721, 37853, 37871, 39191, 50093, 59141, 68993, 77351, 81611, 90263, 96461,  
112103, 117101, 139721, 142031,

p+ 8 p+18 p+26 p+28 : f3

p+ 8 p+18 p+26 p+30 : 911, 50093, 142031, 145433, 179453, 188273, 233591,  
263183, 321983, 367823, 404951, 415643, 420323, 457643, 480911, 497711,

p+ 8 p+18 p+28 : f3

p+ 8 p+18 p+30 : 2909, 8933, 12791, 13469, 15383, 15551, 19709, 19919, 21863,  
31973, 39761, 41651, 44171, 44909, 57089, 73553, 73943, 78479, 79349, 83903,  
86951, 95531, 96149, 109103, 116159,

p+ 8 p+20 : 1193, 1523, 3041, 3491, 5189, 6143, 6599, 7019, 8171, 10631, 11279,  
12281, 12413, 15053, 18191, 18671, 19793, 20939, 22283, 24113, 26021, 26813,  
28703, 28901, 30161,

p+ 8 p+20 p+22 : f3



p+ 8 p+20 p+24 : 1193, 7019, 12413, 15053, 20939, 22283, 24113, 33029, 36563, 39293, 40169, 44963, 45533, 53093, 57689, 62303, 65609, 66923, 70289, 71963, 77723, 89759, 95063, 108533, 113123,

p+ 8 p+20 p+24 p+26 : 66923, 95063, 113123, 116903, 214763, 271253, 383813, 481673,

p+ 8 p+20 p+24 p+26 p+28 : f3

p+ 8 p+20 p+24 p+26 p+30 : 95063, 113123, 116903,

p+ 8 p+20 p+24 p+28 : f3

p+ 8 p+20 p+24 p+30 : 1193, 15053, 39293, 57689, 71963, 145799, 205529, 280199, 291539, 358703, 372809, 418763, 455969, 472103, 497969,

p+ 8 p+20 p+26 : 1523, 3041, 3491, 10631, 18191, 19793, 26813, 28703, 28901, 30161, 59771, 63773, 66713, 82163, 85991, 88721, 95393, 100271, 151553, 154313, 156131, 162683, 162881, 167891, 172001,

p+ 8 p+20 p+26 p+28 : f3

p+ 8 p+20 p+26 p+30 : 1523, 63773, 82163, 162683, 172001, 264323, 310481, 316193, 386621, 389141, 407291,

p+ 8 p+20 p+28 : f3

p+ 8 p+20 p+30 : 6143, 18671, 30509, 30809, 40499, 44789, 45833, 49823, 61121, 62723, 84191, 90989, 92801, 109589, 116351, 123209, 126683, 147311, 172553, 182423, 205433, 209639, 211781, 213173, 213329,

p+ 8 p+22 : f3

p+ 8 p+24 : 1823, 2213, 2243, 6833, 8573, 10949, 12203, 14843, 16103, 17159, 17393, 18749, 20849, 27893, 28439, 29303, 29339, 31883, 32579, 33083, 36269, 37313, 39929, 40763, 41903,

p+ 8 p+24 p+26 : 2213, 2243, 8573, 14843, 17393, 27893, 37313, 49253, 58763, 65003, 81173, 108263, 114773, 120713, 128213, 129893, 178223, 208253, 208433, 212843, 218993, 231323, 280673, 299393, 300623,

p+ 8 p+24 p+26 p+28 : f3

p+ 8 p+24 p+26 p+30 : 2213, 2243, 65003, 81173, 108263, 208253, 208433, 212843, 280673, 301463, 396173, 436283,

p+ 8 p+24 p+28 : f3

p+ 8 p+24 p+30 : 6833, 10949, 17159, 20849, 29303, 32579, 33083, 36269, 42743, 45053, 58733, 58913, 59699, 69119, 89603, 105533, 107873, 121523, 125399, 129089, 130523, 141233, 145259, 151643, 161009,

p+ 8 p+26 : 1373, 2153, 3881, 5051, 6221, 6521, 7151, 8753, 9941, 12713, 15233,  
17231, 17351, 18371, 20063, 20261, 22643, 24473, 24851, 25943, 29243, 33713,  
33863, 36713, 42131,

p+ 8 p+26 p+28 : f3

p+ 8 p+26 p+30 : 3881, 5051, 6521, 8753, 12713, 15233, 18371, 33863, 48563,  
50333, 52973, 53411, 64373, 76511, 93941, 101081, 101573, 101693, 104651,  
107243, 121283, 125933, 141803, 155663, 156593,

p+ 8 p+28 : f3

p+ 8 p+30 : 3221, 9689, 10103, 10559, 11321, 11519, 13799, 18089, 24329, 25763,  
27449, 28871, 29633, 30773, 30941, 31481, 36599, 39791, 41729, 43283, 43661,  
47309, 51683, 51941, 52259,

p+10 : A031928 139, 181, 241, 283, 337, 409, 421, 547, 577, 631, 691, 709, 787, 811,  
829, 919, 1021, 1039, 1051, 1153, 1171, 1249, 1399, 1471, 1627,

p+10 p+12 : 139, 181, 337, 409, 421, 631, 811, 1021, 1039, 1051, 1471, 2017,  
2647, 2719, 3109, 3361, 3517, 3547, 3571, 4219, 4231, 4261, 4327, 4957, 5011,

p+10 p+12 p+14 : f3

p+10 p+12 p+16 : 181, 337, 631, 811, 1471, 2647, 3517, 4957, 8221, 8527, 9421,  
10321, 11161, 14071, 20887, 21001, 21601, 24907, 26251, 26701, 31237, 31531,  
33757, 34747, 36457,

p+10 p+12 p+16 p+18 : 181, 811, 1471, 9421, 21001, 62971, 69481, 72211, 81031,  
109831, 217351, 247591, 295861, 300481, 392251, 452521, 465151,

p+10 p+12 p+16 p+18 p+20 : f3

p+10 p+12 p+16 p+18 p+22 : 1471, 21001, 247591, 465151,

p+10 p+12 p+16 p+18 p+22 p+24 : f5

p+10 p+12 p+16 p+18 p+22 p+26 : f3

p+10 p+12 p+16 p+18 p+22 p+28 : 1471,

p+10 p+12 p+16 p+18 p+24 : f5

p+10 p+12 p+16 p+18 p+26 : f3

p+10 p+12 p+16 p+18 p+28 : 811, 109831, 392251, 452521,

p+10 p+12 p+16 p+18 p+30 : 181, 300481,

p+10 p+12 p+16 p+20 : f3

p+10 p+12 p+16 p+22 : 337, 631, 3517, 8221, 10321, 26701, 31237, 36457, 39217,  
71317, 79801, 93241, 103981, 128971, 129517, 152407, 167611, 172411, 183487,

193861, 197947, 204781, 211051, 269167, 290011,

p+10 p+12 p+16 p+22 p+24 : 3517, 39217, 71317, 183487, 197947, 349387, 450787, 499117,

p+10 p+12 p+16 p+22 p+24 p+26 : f3

p+10 p+12 p+16 p+22 p+24 p+28 : f5

p+10 p+12 p+16 p+22 p+26 : f3

p+10 p+12 p+16 p+22 p+28 : 631, 26701, 79801, 103981, 172411, 290011, 373171, 493111,

p+10 p+12 p+16 p+22 p+30 : 337, 31237, 128971, 167611, 193861, 348421,

p+10 p+12 p+16 p+24 : 2647, 53077, 78877, 82207, 105517, 155707, 189337, 229237, 330217, 340777, 390727, 411727, 458947, 467617, 484597,

p+10 p+12 p+16 p+24 p+26 : f3

p+10 p+12 p+16 p+24 p+28 : f5

p+10 p+12 p+16 p+24 p+30 : 2647, 82207, 229237, 330217, 458947,

p+10 p+12 p+16 p+26 : f3

p+10 p+12 p+16 p+28 : 46171, 86341, 87991, 94531, 192601, 236881, 255181, 255961, 325681, 332191, 336211, 337891, 370411, 423991,

p+10 p+12 p+16 p+28 p+30 : 86341, 94531, 192601, 332191, 370411,

p+10 p+12 p+16 p+30 : 4957, 43597, 49927, 107827, 145501, 185737, 192571, 210391, 233407, 255457, 263257, 274441, 279541, 319117, 360277, 386977, 403537, 417007, 461677,

p+10 p+12 p+18 : 139, 421, 1021, 1051, 6691, 6949, 12601, 13669, 13711, 17911, 20011, 22531, 23899, 30841, 33739, 34501, 39829, 41131, 42169, 43951, 44371, 46261, 55621, 56911, 59011,

p+10 p+12 p+18 p+20 : f3

p+10 p+12 p+18 p+22 : 421, 6949, 13669, 43951, 62119, 63589, 82549, 91141, 94099, 108949, 115309, 124759, 126001, 130621, 132739, 153259, 153511, 161761, 182089, 196159, 278479, 279109, 288979, 313969, 321301,

p+10 p+12 p+18 p+22 p+24 : 13669, 62119, 124759, 132739, 278479, 313969, 323359, 464119,

p+10 p+12 p+18 p+22 p+24 p+26 : f3

p+10 p+12 p+18 p+22 p+24 p+28 : 13669, 313969,

p+10 p+12 p+18 p+22 p+26 : f3

p+10 p+12 p+18 p+22 p+28 : 421, 6949, 63589, 115309, 130621, 153259, 196159,  
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p+10 p+12 p+18 p+22 p+30 : 126001, 349819, 409879,

p+10 p+12 p+18 p+24 : 139, 42169, 81919, 85819, 112279, 116089, 170749, 186859,  
221059, 281539, 292459, 302959, 324199,

p+10 p+12 p+18 p+24 p+26 : f3

p+10 p+12 p+18 p+24 p+28 : 139, 42169, 85819, 170749, 221059,

p+10 p+12 p+18 p+24 p+30 : 186859, 292459, 302959,

p+10 p+12 p+18 p+26 : f3

p+10 p+12 p+18 p+28 : 1021, 6691, 17911, 30841, 33739, 39829, 72661, 73351,  
74149, 76819, 83389, 84211, 97159, 155191, 165541, 176779, 183289, 208501,  
225601, 259201, 268519, 272971, 289021, 294979, 308509,

p+10 p+12 p+18 p+28 p+30 : 1021, 30841, 33739, 176779, 183289, 272971, 346639,  
427939, 455461,

p+10 p+12 p+18 p+30 : 23899, 41131, 56911, 80221, 149239, 178921, 225931,  
305101, 309259, 450829,

p+10 p+12 p+20 : f3

p+10 p+12 p+22 : 409, 1039, 2017, 2719, 3571, 4219, 4231, 4261, 4327, 6079,  
6121, 6679, 6781, 8209, 11047, 11149, 11959, 12241, 15277, 19531, 19687, 21577,  
21589, 26881, 27529,

p+10 p+12 p+22 p+24 : 409, 1039, 4219, 6679, 8209, 11047, 11149, 21577, 21589,  
28087, 30829, 48847, 55609, 59197, 60637, 63577, 91129, 93229, 103969, 109819,  
119677, 128959, 152017, 153499, 160627,

p+10 p+12 p+22 p+24 p+26 : f3

p+10 p+12 p+22 p+24 p+28 : 8209, 11149, 21589, 93229, 103969, 109819, 128959,  
211039, 236869, 342049, 475669,

p+10 p+12 p+22 p+24 p+30 : 409, 1039, 6679, 30829, 55609, 63577, 91129, 153499,  
197359, 268507, 399379,

p+10 p+12 p+22 p+26 : f3

p+10 p+12 p+22 p+28 : 4231, 4261, 11959, 12241, 19531, 32401, 42061, 67399,  
70969, 92671, 95791, 124171, 158749, 207469, 211219, 228901, 260179, 267391,  
269209, 287269, 341311, 345451, 362281, 371929, 408691,

p+10 p+12 p+22 p+28 p+30 : 4231, 67399, 70969, 260179, 433651,

p+10 p+12 p+22 p+30 : 2719, 4327, 6121, 15277, 19687, 45307, 65089, 89659,  
92779, 97849, 114649, 120907, 149521, 161731, 214021, 265861, 296719, 313321,  
379177, 407347, 451669, 456991, 463501, 478801,

p+10 p+12 p+24 : 3547, 7297, 7549, 11059, 14437, 15349, 17737, 17827, 20707,  
21727, 23029, 28099, 33589, 34147, 35437, 37537, 40519, 42829, 47407, 48859,  
52057, 57259, 59209, 60889, 64567,

p+10 p+12 p+24 p+26 : f3

p+10 p+12 p+24 p+28 : 7549, 11059, 15349, 23029, 33589, 57259, 60889, 67129,  
152809, 157219, 164419, 173659, 267469, 391879, 422869, 467869,

p+10 p+12 p+24 p+28 p+30 : 23029, 33589, 60889, 152809, 164419, 422869, 467869,

p+10 p+12 p+24 p+30 : 21727, 37537, 42829, 48859, 59209, 72859, 89809, 118399,  
120067, 155569, 160639, 171529, 174457, 187897, 201757, 222337, 268747, 297457,  
318289, 358417, 362419, 385129, 386119, 494257,

p+10 p+12 p+26 : f3

p+10 p+12 p+28 : 3109, 3361, 5011, 5869, 7321, 11689, 18049, 24169, 37189,  
37579, 51229, 53161, 61141, 67261, 74719, 98899, 109441, 110311, 113749,  
117361, 122041, 131101, 147661, 149551, 150979,

p+10 p+12 p+28 p+30 : 3361, 7321, 11689, 98899, 109441, 113749, 150979, 299671,  
380299, 386401, 392269, 402331, 446881,

p+10 p+12 p+30 : 13999, 15319, 27397, 38737, 53269, 56701, 58099, 60649, 63409,  
65257, 69847, 77479, 79549, 81637, 98377, 107089, 109507, 109609, 111721,  
119839, 125497, 126601, 127807, 133801, 136471,

p+10 p+14 : f3

p+10 p+16 : 241, 547, 577, 1171, 2053, 2887, 4201, 4243, 4273, 4663, 4861,  
5701, 5791, 6247, 6301, 6343, 6553, 7177, 7507, 8101, 8353, 8821, 9403, 10837,  
11383,

p+10 p+16 p+18 : 4201, 4243, 6343, 6553, 8821, 9403, 15121, 17011, 20533,  
25153, 28393, 29191, 32173, 34351, 37003, 38593, 47041, 48463, 59341, 67411,  
67741, 68881, 70981, 80611, 82021,

p+10 p+16 p+18 p+20 : f3

p+10 p+16 p+18 p+22 : 17011, 67411, 67741, 68881, 97561, 100501, 102181,  
122011, 133261, 158341, 238141, 260191, 282661, 310711, 314581, 316681, 347041,  
413071, 418321, 444271,

p+10 p+16 p+18 p+22 p+24 : f5

p+10 p+16 p+18 p+22 p+26 : f3

p+10 p+16 p+18 p+22 p+28 : 68881, 122011, 347041, 418321,

p+10 p+16 p+18 p+22 p+30 : 17011, 158341, 238141, 282661, 310711,

p+10 p+16 p+18 p+24 : 6343, 6553, 48463, 121333, 163393, 246793, 259993,  
262723, 292693, 307243, 308293, 326983, 375103, 459013, 460063,

p+10 p+16 p+18 p+24 p+26 : f3

p+10 p+16 p+18 p+24 p+28 : 6553, 48463, 326983, 460063,

p+10 p+16 p+18 p+24 p+30 : 6343, 259993, 307243, 308293,

p+10 p+16 p+18 p+26 : f3

p+10 p+16 p+18 p+28 : 4201, 4243, 8821, 9403, 15121, 59341, 87613, 95773,  
142591, 179563, 181183, 206263, 237673, 241051, 248851, 308491, 318271, 368773,  
410731, 486313,

p+10 p+16 p+18 p+28 p+30 : 4201, 4243, 9403, 87613, 95773, 179563, 181183,  
308491, 318271, 368773,

p+10 p+16 p+18 p+30 : 20533, 25153, 29191, 32173, 34351, 70981, 82021, 149143,  
170353, 192961, 241963, 263503, 265231, 353611, 493201, 497491,

p+10 p+16 p+20 : f3

p+10 p+16 p+22 : 241, 547, 577, 1171, 2887, 5791, 6247, 6301, 7507, 8101,  
10837, 11887, 13441, 15451, 19447, 23311, 24061, 25657, 26161, 38167, 38851,  
39847, 42667, 45481, 52711,

p+10 p+16 p+22 p+24 : 547, 577, 6247, 10837, 19447, 104527, 111847, 150067,  
193357, 218437, 267877, 404827, 429487, 440527, 442807, 450277, 487447, 488617,

p+10 p+16 p+22 p+24 p+26 : f3

p+10 p+16 p+22 p+24 p+28 : f5

p+10 p+16 p+22 p+24 p+30 : 547, 577, 6247, 10837, 19447, 150067, 193357,  
267877, 442807, 487447,

p+10 p+16 p+22 p+26 : f3

p+10 p+16 p+22 p+28 : 241, 6301, 13441, 23311, 26161, 62191, 75511, 84421,  
89371, 115741, 226621, 262111, 265141, 293071, 344221, 363541, 417931, 488701,  
497281,

p+10 p+16 p+22 p+28 p+30 : 241, 75511, 115741, 344221, 417931,

p+10 p+16 p+22 p+30 : 1171, 2887, 5791, 7507, 24061, 38167, 39847, 42667,  
59377, 127717, 133087, 153427, 176191, 189967, 193741, 200341, 217717, 227377,  
248041, 250777, 267781, 357967, 358681, 448177,

p+10 p+16 p+24 : 4273, 8353, 12253, 15217, 26407, 28687, 29287, 30187, 33013, 34303, 35983, 37633, 38713, 40153, 42283, 42727, 50077, 57373, 59053, 61657, 63337, 67033, 78697, 80263, 81283,

p+10 p+16 p+24 p+26 : f3

p+10 p+16 p+24 p+28 : 12253, 35983, 67033, 102523, 136963, 167023, 167413, 167863, 168253, 181903, 185683, 198943, 225133, 259813, 340633, 356113, 442753, 442963, 448843, 464983, 475273,

p+10 p+16 p+24 p+28 p+30 : 35983, 136963, 167413, 225133, 356113, 448843, 464983,

p+10 p+16 p+24 p+30 : 26407, 37633, 59053, 61657, 63337, 83407, 85213, 98443, 124123, 143797, 151507, 168013, 170827, 172573, 172633, 212437, 213193, 246193, 281767, 354007, 370663, 432043, 437263, 462643, 466537,

p+10 p+16 p+26 : f3

p+10 p+16 p+28 : 2053, 4663, 4861, 11383, 19543, 19963, 22381, 23071, 25903, 30661, 32413, 33301, 42073, 52501, 57163, 70051, 85093, 89041, 90631, 95203, 120661, 121921, 127261, 128311, 138181,

p+10 p+16 p+28 p+30 : 2053, 19963, 25903, 32413, 33301, 57163, 89041, 95203, 120661, 121921, 127261, 128311, 176521, 206923, 207481, 224881, 262321, 267403, 288823, 317701, 353443, 367531, 395293, 405211, 462871,

p+10 p+16 p+30 : 7177, 15091, 17107, 21757, 24517, 29137, 51787, 55681, 56671, 60763, 68491, 73867, 75337, 81517, 84391, 92707, 117193, 124183, 126703, 134161, 134857, 136207, 137623, 139891, 146407,

p+10 p+18 : 691, 709, 919, 1153, 1723, 2143, 2521, 2731, 3001, 3709, 4339, 5179, 6133, 6379, 7219, 7489, 8563, 9049, 9679, 9931, 10141, 10303, 10771, 10939, 12391,

p+10 p+18 p+20 : f3

p+10 p+18 p+22 : 919, 2521, 2731, 3001, 10141, 12391, 14869, 14929, 21169, 21841, 22699, 23539, 24229, 26479, 33181, 35089, 36541, 37039, 44101, 45319, 46489, 48799, 50101, 50311, 52369,

p+10 p+18 p+22 p+24 : 21169, 23539, 45319, 48799, 56509, 85429, 96979, 103069, 110899, 120919, 220879, 231589, 248869, 264769, 291349, 302989, 303529, 308989, 333769, 380179, 404959, 441169, 442009,

p+10 p+18 p+22 p+24 p+26 : f3

p+10 p+18 p+22 p+24 p+28 : 23539, 96979, 110899, 120919, 220879, 291349, 380179,

p+10 p+18 p+22 p+24 p+30 : 103069, 302989, 308989,

p+10 p+18 p+22 p+26 : f3

p+10 p+18 p+22 p+28 : 919, 2521, 10141, 14869, 14929, 22699, 35089, 44101,  
50101, 65101, 82591, 105379, 131479, 132679, 135571, 142039, 169639, 200881,  
234781, 258949, 264871, 276229, 288181, 305839, 368089,

p+10 p+18 p+22 p+28 p+30 : 2521, 44101, 50101, 132679, 135571, 234781,

p+10 p+18 p+22 p+30 : 12391, 21841, 33181, 36541, 50311, 64591, 110251, 136501,  
145441, 156109, 179089, 188281, 190891, 356959, 371281, 420331, 449941, 468049,

p+10 p+18 p+24 : 709, 1723, 3709, 4339, 7219, 15289, 19249, 19843, 22993,  
25219, 33469, 39079, 39709, 41203, 42943, 44623, 46549, 47269, 52543, 56359,  
57829, 58393, 71419, 77359, 88843,

p+10 p+18 p+24 p+26 : f3

p+10 p+18 p+24 p+28 : 7219, 22993, 25219, 39079, 41203, 44623, 47269, 52543,  
96469, 104683, 127849, 136309, 157813, 173473, 192529, 193423, 248569, 249079,  
278209, 280939, 286459, 338269, 419449, 444529, 449653,

p+10 p+18 p+24 p+28 p+30 : 41203,

p+10 p+18 p+24 p+30 : 709, 1723, 3709, 15289, 57829, 88843, 96739, 108193,  
109873, 139729, 162829, 186229, 203989, 209203, 215833, 221209, 230203, 241303,  
246889, 257263, 287149, 366703, 437509, 481123,

p+10 p+18 p+26 : f3

p+10 p+18 p+28 : 691, 1153, 7489, 10303, 10771, 12781, 15541, 19699, 24499,  
28201, 31963, 34729, 37171, 37861, 37879, 39181, 39199, 42709, 43933, 47581,  
50839, 57241, 59359, 63709, 67723,

p+10 p+18 p+28 p+30 : 10303, 34729, 37171, 39199, 43933, 57241, 69001, 81619,  
96769, 109423, 114661, 119953, 120889, 128941, 129499, 134989, 136453, 141679,  
149533, 161743, 190639, 191773, 204301, 207643, 208111,

p+10 p+18 p+30 : 5179, 6133, 18181, 18661, 20929, 45523, 57679, 62743, 65599,  
82153, 84181, 92791, 93169, 95383, 116341, 154303, 155443, 180361, 192103,  
192781, 205519, 213319, 214033, 218371, 231349,

p+10 p+20 : f3

p+10 p+22 : 787, 1699, 1801, 1879, 2089, 2767, 2917, 4909, 6091, 6277, 8059,  
8839, 8941, 9511, 10069, 10477, 12517, 12799, 13219, 13477, 15139, 15391,  
15559, 15619, 15739,

p+10 p+22 p+24 : 787, 1699, 2089, 2767, 4909, 6277, 8839, 10069, 10477, 12517,  
12799, 15559, 15619, 16339, 17659, 23269, 26227, 26839, 28549, 34939, 35059,  
35257, 36877, 38629, 41389,

p+10 p+22 p+24 p+26 : f3

p+10 p+22 p+24 p+28 : 4909, 8839, 15619, 23269, 44179, 49009, 99109, 189229,



191509, 223219, 228859, 231799, 290419, 326539, 347959, 470389, 471649, 489529, 490549, 494359,

p+10 p+22 p+24 p+28 p+30 : 15619, 99109, 347959, 490549,

p+10 p+22 p+24 p+30 : 2767, 10069, 12517, 12799, 16339, 28549, 35059, 56479, 63367, 65677, 71389, 77689, 78487, 146359, 159169, 161947, 183949, 206887, 361327, 404167, 424819, 462547, 480979, 490927,

p+10 p+22 p+26 : f3

p+10 p+22 p+28 : 1879, 8059, 8941, 9511, 15739, 17881, 18691, 22669, 29401, 31981, 36241, 36739, 39541, 41659, 60139, 67579, 70429, 70891, 72679, 73561, 73699, 83449, 83911, 89491, 100801,

p+10 p+22 p+28 p+30 : 8059, 8941, 17881, 22669, 60139, 70429, 70891, 89491, 109111, 122839, 127681, 131749, 180211, 181729, 186679, 202099, 230281, 238009, 251149, 278881, 285091, 314329, 318181, 333691, 371311,

p+10 p+22 p+30 : 1801, 6091, 13219, 29221, 39769, 43261, 52291, 67537, 71059, 74167, 79579, 86929, 90217, 95539, 106627, 116461, 116959, 130447, 139861, 157867, 172321, 205297, 209371, 219577, 239557,

p+10 p+24 : 283, 829, 1399, 2029, 3583, 3769, 3823, 3853, 4483, 5323, 5659, 6709, 8599, 13513, 13567, 14197, 14479, 17599, 18493, 19309, 22003, 24943, 25087, 25693, 26347,

p+10 p+24 p+26 : f3

p+10 p+24 p+28 : 283, 829, 1399, 3769, 3823, 3853, 5323, 6709, 8599, 17599, 18493, 22003, 24943, 30529, 34273, 47629, 50023, 50263, 52153, 53299, 56239, 63103, 66949, 68659, 71119,

p+10 p+24 p+28 p+30 : 283, 829, 1399, 3823, 8599, 18493, 30529, 34273, 47629, 50023, 52153, 56239, 81943, 100333, 101503, 182443, 186733, 188833, 213919, 226789, 234979, 237043, 274093, 296479, 304039,

p+10 p+24 p+30 : 3583, 4483, 5659, 13567, 25087, 36847, 41233, 42349, 45403, 47599, 49603, 51829, 54949, 55219, 55579, 56443, 59083, 66499, 66853, 88873, 94573, 101173, 110533, 132637, 135019,

p+10 p+26 : f3

p+10 p+28 : 1249, 4363, 9283, 13831, 14293, 16519, 17929, 21673, 22741, 26893, 29473, 31573, 31741, 32089, 33151, 33493, 34429, 34693, 35353, 35869, 35923, 36643, 37369, 44701, 45631,

p+10 p+28 p+30 : 1249, 14293, 17929, 31741, 32089, 33151, 35869, 57193, 60859, 64891, 71443, 85303, 87481, 90793, 93103, 98533, 99679, 99961, 108079, 131221, 135319, 139429, 140731, 144451, 157639,

p+10 p+30 : 1627, 6793, 17509, 20359, 22501, 22963, 26449, 29443, 32203, 35281, 36343, 37087, 37243, 38923, 39409, 39511, 44809, 47533, 54091, 55117, 56737,

57457, 60343, 68917, 70009,

p+12 : A031930 199, 211, 467, 509, 619, 661, 797, 997, 1201, 1237, 1307, 1459, 1499,  
1511, 1531, 1709, 1789, 1811, 1889, 2069, 2099, 2297, 2399, 2447, 2579,

p+12 p+14 : 509, 797, 1307, 1709, 2069, 2099, 2297, 2579, 2777, 3347, 3659,  
3989, 4079, 4409, 4919, 5087, 5507, 6287, 7937, 8807, 8849, 9029, 9227, 10079,  
10289,

p+12 p+14 p+16 : f3

p+12 p+14 p+18 : 2069, 3659, 3989, 4919, 8849, 15629, 18899, 19979, 22259,  
23279, 26669, 32309, 42209, 44189, 44519, 49019, 51329, 63299, 77249, 79829,  
79889, 81689, 97829, 99119, 112559,

p+12 p+14 p+18 p+20 : 2069, 15629, 18899, 22259, 51329, 77249, 97829, 99119,  
135449, 157259, 201809, 260399, 301979, 347969, 412019, 490559,

p+12 p+14 p+18 p+20 p+22 : f3

p+12 p+14 p+18 p+20 p+24 : 22259, 201809, 347969,

p+12 p+14 p+18 p+20 p+24 p+26 : f5

p+12 p+14 p+18 p+20 p+24 p+28 : f3

p+12 p+14 p+18 p+20 p+26 : f5

p+12 p+14 p+18 p+20 p+28 : f3

p+12 p+14 p+18 p+20 p+30 : 2069, 77249, 97829, 99119, 135449, 301979,

p+12 p+14 p+18 p+22 : f3

p+12 p+14 p+18 p+24 : 3989, 4919, 26669, 44519, 49019, 112559, 174749, 223229,  
261959, 291089, 333479, 385379, 394619, 434909, 471659,

p+12 p+14 p+18 p+24 p+26 : f5

p+12 p+14 p+18 p+24 p+28 : f3

p+12 p+14 p+18 p+24 p+30 : 3989, 26669, 44519, 112559, 223229, 434909,

p+12 p+14 p+18 p+26 : f5

p+12 p+14 p+18 p+28 : f3

p+12 p+14 p+18 p+30 : 42209, 231809, 356549, 470399,

p+12 p+14 p+20 : 1307, 2777, 4079, 5087, 5507, 9029, 10079, 12527, 12809,  
16349, 19739, 24359, 25589, 25919, 27779, 28559, 28607, 31307, 34019, 35069,  
36767, 42557, 48767, 49157, 49727,

$p+12$   $p+14$   $p+20$   $p+22$  :  $f_3$

$p+12$   $p+14$   $p+20$   $p+24$  : 2777, 5507, 10079, 19739, 25919, 27779, 28607, 36767, 61967, 77699, 80657, 83207, 123479, 127277, 128327, 143489, 150869, 157037, 207497, 229739, 298667, 300569, 311279, 444449, 496877,

$p+12$   $p+14$   $p+20$   $p+24$   $p+26$  : 2777, 36767, 80657, 83207, 207497, 298667,

$p+12$   $p+14$   $p+20$   $p+24$   $p+28$  :  $f_3$

$p+12$   $p+14$   $p+20$   $p+24$   $p+30$  : 27779, 143489, 229739, 499649,

$p+12$   $p+14$   $p+20$   $p+26$  : 5087, 12527, 31307, 53597, 58217, 65687, 80897, 133697, 161957, 205937, 206897, 251417, 254027, 273047, 274817, 357767, 361337, 367007, 405227, 415937, 422537, 429917,

$p+12$   $p+14$   $p+20$   $p+26$   $p+28$  :  $f_3$

$p+12$   $p+14$   $p+20$   $p+26$   $p+30$  : 31307, 65687, 205937, 274817, 422537,

$p+12$   $p+14$   $p+20$   $p+28$  :  $f_3$

$p+12$   $p+14$   $p+20$   $p+30$  : 9029, 35069, 49727, 56489, 71399, 92627, 159179, 213119, 234947, 342359, 358847, 385559, 405689, 410477, 454199, 490937,

$p+12$   $p+14$   $p+22$  :  $f_3$

$p+12$   $p+14$   $p+24$  : 797, 1709, 3347, 6287, 8807, 10289, 12227, 13697, 19949, 22727, 26237, 34487, 35267, 41189, 44687, 47339, 51047, 52529, 52697, 56897, 57179, 58379, 58427, 58997, 72077,

$p+12$   $p+14$   $p+24$   $p+26$  : 797, 3347, 12227, 13697, 26237, 34487, 56897, 58427, 58997, 72077, 75377, 92657, 149087, 161717, 193847, 222137, 223037, 250727, 317717, 322757, 348407, 381977, 392087, 408677, 419777,

$p+12$   $p+14$   $p+24$   $p+26$   $p+28$  :  $f_3$

$p+12$   $p+14$   $p+24$   $p+26$   $p+30$  : 797, 26237, 75377, 193847, 348407, 423977,

$p+12$   $p+14$   $p+24$   $p+28$  :  $f_3$

$p+12$   $p+14$   $p+24$   $p+30$  : 6287, 8807, 19949, 52697, 84377, 104369, 105239, 147197, 189377, 195329, 240869, 241037, 305339, 306407, 315437, 319577, 322559, 323567, 380117, 381209, 462629, 495347,

$p+12$   $p+14$   $p+26$  : 7937, 10487, 32957, 33317, 34457, 36887, 43037, 66347, 71537, 74597, 87107, 89057, 92387, 94547, 95177, 101987, 104297, 121937, 125777, 133967, 148457, 156887, 160697, 168617, 174917,

$p+12$   $p+14$   $p+26$   $p+28$  :  $f_3$

$p+12$   $p+14$   $p+26$   $p+30$  : 32957, 33317, 34457, 43037, 66347, 89057, 104297, 121937, 182627, 194057, 230327, 246497, 320027, 343517, 343787, 371057, 378137, 406547,

p+12 p+14 p+28 : f3

p+12 p+14 p+30 : 2099, 2579, 9227, 16619, 20219, 20759, 22079, 26849, 33797,  
38639, 41969, 52889, 68699, 80819, 130829, 135899, 136739, 152429, 160019,  
175949, 181997, 189479, 207227, 208877, 214469,

p+12 p+16 : 211, 661, 997, 1201, 3067, 3331, 3931, 4801, 5827, 7027, 7561,  
7591, 7741, 8431, 9187, 9817, 9871, 11071, 12421, 13297, 15061, 15361, 15427,  
16747, 17191,

p+12 p+16 p+18 : 211, 7741, 17191, 20731, 23041, 27091, 33331, 33601, 40111,  
48661, 60901, 66931, 81001, 90511, 95071, 103951, 106261, 113131, 115861,  
116911, 126211, 132511, 145531, 150571, 152821,

p+12 p+16 p+18 p+20 : f3

p+12 p+16 p+18 p+22 : 211, 20731, 23041, 33331, 33601, 60901, 81001, 90511,  
95071, 113131, 115861, 116911, 126211, 132511, 152821, 187111, 203641, 337201,  
406561, 429661, 457381, 467881,

p+12 p+16 p+18 p+22 p+24 : f5

p+12 p+16 p+18 p+22 p+26 : f3

p+12 p+16 p+18 p+22 p+28 : 211, 20731, 33331, 33601, 113131, 187111, 203641,

p+12 p+16 p+18 p+22 p+30 : 23041, 81001, 95071, 115861, 126211, 132511, 152821,  
406561, 457381,

p+12 p+16 p+18 p+24 : f5

p+12 p+16 p+18 p+26 : f3

p+12 p+16 p+18 p+28 : 66931, 103951, 156241, 168991, 199021, 220861, 250951,  
271261, 329281, 338251, 469351, 473911,

p+12 p+16 p+18 p+28 p+30 : 103951,

p+12 p+16 p+18 p+30 : 106261, 176401, 218611, 328621, 422881,

p+12 p+16 p+20 : f3

p+12 p+16 p+22 : 661, 997, 1201, 3067, 5827, 7561, 9187, 9817, 11071, 15061,  
15361, 20161, 22051, 23857, 24007, 27751, 29851, 32971, 34591, 39301, 40471,  
50527, 52237, 57697, 61471,

p+12 p+16 p+22 p+24 : 997, 5827, 50527, 75967, 115837, 138547, 260527, 295417,  
349357, 447427,

p+12 p+16 p+22 p+24 p+26 : f3

p+12 p+16 p+22 p+24 p+28 : f5

p+12 p+16 p+22 p+24 p+30 : 5827, 75967, 138547, 349357,

p+12 p+16 p+22 p+26 : f3

p+12 p+16 p+22 p+28 : 1201, 7561, 22051, 27751, 29851, 32971, 40471, 71971,  
82471, 122251, 151141, 157231, 183361, 216091, 227581, 302551, 303271, 343801,  
418771, 448351, 460891, 472111,

p+12 p+16 p+22 p+28 p+30 : 1201, 7561, 29851, 151141, 227581, 302551, 343801,

p+12 p+16 p+22 p+30 : 661, 15061, 15361, 23857, 52237, 57697, 93307, 109567,  
130057, 158551, 165511, 191677, 194071, 199657, 254857, 305581, 372817, 373327,  
455977,

p+12 p+16 p+24 : 15427, 25747, 36697, 39607, 70297, 83047, 83077, 95857,  
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255487, 268897, 272317, 280897, 301447, 301657, 303997,

p+12 p+16 p+24 p+26 : f3

p+12 p+16 p+24 p+28 : f5

p+12 p+16 p+24 p+30 : 70297, 83047, 130957, 165367, 185137, 255487, 268897,  
272317, 280897, 319327, 393697,

p+12 p+16 p+26 : f3

p+12 p+16 p+28 : 3331, 34471, 36571, 45541, 51031, 53101, 67141, 125371,  
135181, 151771, 156691, 173671, 206221, 210811, 230341, 241651, 244861, 246511,  
252001, 262681, 273601, 315361, 316621, 316891, 320911,

p+12 p+16 p+28 p+30 : 3331, 34471, 51031, 135181, 206221, 320911, 326581,  
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p+12 p+16 p+30 : 4801, 7027, 7591, 8431, 9871, 12421, 13297, 21787, 24121,  
35407, 38287, 40867, 54151, 54547, 57271, 65617, 75541, 77731, 83761, 87961,  
89071, 89767, 101347, 107761, 108541,

p+12 p+18 : 1531, 1889, 2399, 3049, 3169, 3191, 3499, 4549, 5261, 5419, 6661,  
7001, 7109, 8069, 8629, 8719, 8951, 9091, 9209, 9479, 9521, 9601, 9631, 9721,  
9769,

p+12 p+18 p+20 : 5261, 7109, 8069, 8951, 9839, 11471, 16811, 17891, 22679,  
29741, 38219, 40829, 51461, 60149, 67169, 69809, 70439, 70901, 75149, 89501,  
94331, 109121, 115001, 121559, 122849,

p+12 p+18 p+20 p+22 : f3

p+12 p+18 p+20 p+24 : 8069, 40829, 69809, 131759, 149399, 153929, 156659,  
181739, 219959, 419579, 440159, 474479,

p+12 p+18 p+20 p+24 p+26 : f5

p+12 p+18 p+20 p+24 p+28 : f3

p+12 p+18 p+20 p+24 p+30 : 419579,

p+12 p+18 p+20 p+26 : 11471, 51461, 89501, 109121, 127691, 130241, 180221,  
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p+12 p+18 p+20 p+26 p+28 : f3

p+12 p+18 p+20 p+26 p+30 : 338141,

p+12 p+18 p+20 p+28 : f3

p+12 p+18 p+20 p+30 : 17891, 22679, 182111, 256169, 294629, 318161, 419171,

p+12 p+18 p+22 : 1531, 3169, 5419, 8719, 9601, 9721, 9769, 10711, 11299, 13399,  
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36901, 37549, 40801, 42841,

p+12 p+18 p+22 p+24 : 5419, 18289, 27259, 35509, 37549, 70099, 177409, 251179,  
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p+12 p+18 p+22 p+24 p+26 : f3

p+12 p+18 p+22 p+24 p+28 : 35509, 402739,

p+12 p+18 p+22 p+24 p+30 : 5419, 37549, 268759, 388459,

p+12 p+18 p+22 p+26 : f3

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p+12 p+18 p+22 p+28 p+30 : 9601, 17959, 32341, 36901, 76231, 89989, 134341,  
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p+12 p+18 p+22 p+30 : 11299, 14389, 15649, 72871, 102001, 139969, 169471,  
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p+12 p+18 p+24 : 1889, 2399, 10639, 11789, 15749, 15889, 18199, 19559, 20089,  
24659, 28579, 28909, 32479, 42379, 73459, 106279, 120079, 120539, 128449,  
168719, 187349, 195389, 197909, 200159, 202999,

p+12 p+18 p+24 p+26 : f5

p+12 p+18 p+24 p+28 : 10639, 20089, 28579, 32479, 42379, 106279, 128449,  
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428149, 428539, 467479,

p+12 p+18 p+24 p+28 p+30 : 42379, 428539,

p+12 p+18 p+24 p+30 : 15889, 18199, 120539, 187349, 206009, 214439, 228829, 418909,

p+12 p+18 p+26 : 3191, 7001, 9521, 11261, 12941, 18731, 23801, 28631, 29411, 35951, 36251, 47951, 51581, 58031, 69221, 73571, 86561, 111641, 123191, 154991, 157721, 171851, 178781, 183461, 190811,

p+12 p+18 p+26 p+28 : f3

p+12 p+18 p+26 p+30 : 3191, 9521, 23801, 28631, 47951, 58031, 171851, 392321,

p+12 p+18 p+28 : 3499, 6661, 11941, 21739, 24781, 26821, 28069, 30169, 30241, 31051, 34129, 35851, 43579, 47779, 48991, 50821, 66721, 73681, 74131, 85009, 85999, 89431, 89821, 95401, 104761,

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p+12 p+18 p+30 : 3049, 9209, 9631, 16729, 18701, 19219, 27241, 36749, 38821, 39551, 44041, 54121, 58979, 59779, 60509, 61949, 67589, 67789, 68041, 71849, 72689, 83579, 84701, 92401, 103669,

p+12 p+20 : 467, 1511, 1811, 2447, 5039, 6101, 7907, 8501, 9161, 9791, 13229, 14831, 18077, 19289, 20051, 20249, 23981, 24317, 24611, 26141, 26297, 26801, 27437, 29231, 30497,

p+12 p+20 p+22 : f3

p+12 p+20 p+24 : 467, 26297, 35129, 40739, 57119, 60017, 71237, 74177, 75017, 79589, 81749, 83597, 96269, 106637, 106727, 106937, 109367, 110039, 116969, 122477, 123707, 138617, 157877, 171617, 192239,

p+12 p+20 p+24 p+26 : 71237, 74177, 106637, 106727, 106937, 122477, 123707, 208367, 270527, 282287, 336227, 337517, 340037,

p+12 p+20 p+24 p+26 p+28 : f3

p+12 p+20 p+24 p+26 p+30 : 123707,

p+12 p+20 p+24 p+28 : f3

p+12 p+20 p+24 p+30 : 35129, 57119, 109367, 110039, 138617, 157877, 209789, 243137, 433229,

p+12 p+20 p+26 : 2447, 7907, 8501, 9161, 9791, 23981, 30677, 33911, 35381, 38261, 44867, 61031, 61991, 67511, 67967, 72707, 72911, 74687, 85691, 86441, 96431, 115811, 120371, 120851, 123407,

p+12 p+20 p+26 p+28 : f3

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p+12 p+20 p+28 : f3

p+12 p+20 p+30 : 6101, 13229, 19289, 26141, 37517, 39749, 44159, 45959, 57077,  
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p+12 p+22 p+24 p+26 : f3

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p+12 p+22 p+24 p+28 p+30 : 1459, 217339, 247579, 392239,

p+12 p+22 p+24 p+30 : 12589, 42157, 72649, 80209, 84199, 153247, 178909,  
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p+12 p+22 p+26 : f3

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p+12 p+22 p+30 : 12379, 18169, 19237, 36529, 37159, 44089, 46477, 47569, 48787,  
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p+12 p+24 : 199, 1499, 4397, 4679, 7829, 9859, 11287, 11399, 11719, 12829,  
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21649, 22039, 22247, 23789,

p+12 p+24 p+26 : 4397, 16607, 19727, 19937, 22247, 42197, 44507, 52517, 68087,  
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p+12 p+24 p+28 : 199, 9859, 20149, 20719, 22039, 40099, 40459, 48649, 54139,



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p+12 p+26 p+28 : f3

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p+14 p+16 : f3

p+14 p+18 : 113, 293, 839, 863, 953, 1409, 1583, 2423, 2819, 2939, 3023, 3779,  
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p+14 p+18 p+20 : 293, 839, 863, 1409, 3833, 4139, 7193, 8273, 8609, 9323,  
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p+14 p+18 p+20 p+22 : f3

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p+14 p+18 p+20 p+24 p+26 : 19403, 375233, 463433,

p+14 p+18 p+20 p+24 p+28 : f3

p+14 p+18 p+20 p+24 p+30 : 1409, 468869,

p+14 p+18 p+20 p+26 : 7193, 9323, 21503, 52163, 81533, 140663, 151883, 188843, 245963, 330413, 375983, 389513, 395093, 404513, 427403,

p+14 p+18 p+20 p+26 p+28 : f3

p+14 p+18 p+20 p+26 p+30 : 81533, 427403,

p+14 p+18 p+20 p+28 : f3

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p+14 p+18 p+24 : 113, 953, 1583, 2423, 2819, 2939, 3779, 11909, 13313, 14519, 14699, 15773, 16073, 22013, 24953, 38303, 38543, 41579, 43973, 53759, 59729, 61613, 62483, 65633, 67943,

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p+14 p+18 p+24 p+26 p+28 : f3

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p+14 p+18 p+24 p+28 : f3

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p+14 p+18 p+26 : 3023, 3863, 5153, 10613, 18353, 26003, 42473, 61493, 72533, 74843, 76493, 86183, 93923, 95603, 107183, 114203, 119813, 123803, 126323, 136403, 150413, 152363, 155783, 157163, 161123,

p+14 p+18 p+26 p+28 : f3

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p+14 p+18 p+28 : f3

p+14 p+18 p+30 : 14639, 51563, 57059, 58013, 59999, 66683, 68669, 77783, 79319, 86753, 111623, 115793, 120749, 120833, 126443, 129719, 133949, 159839, 170249, 178859, 190283, 190793, 205589, 210839, 234833,

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p+14 p+20 p+22 : f3

p+14 p+20 p+24 : 1847, 2357, 3593, 3677, 4493, 5669, 7703, 7853, 8147, 9137, 11423, 18773, 21467, 22133, 23957, 25097, 28793, 32237, 32693, 41627, 42773, 44939, 46619, 50207, 50363,

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p+14 p+20 p+26 p+28 : f3

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p+14 p+20 p+28 : f3

p+14 p+20 p+30 : 317, 4889, 8039, 16319, 36857, 45677, 47609, 51839, 55229, 55589, 60923, 63317, 80789, 84947, 94583, 96959, 99089, 105653, 106397, 124739, 135029, 136013, 139409, 140177, 140207,

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p+14 p+24 : 773, 2039, 2633, 2753, 5309, 7283, 9497, 10463, 11369, 13499, 13553, 14057, 15107, 15527, 19997, 20693, 21713, 23297, 25073, 25643, 25679, 25889, 31517, 31859, 32159,

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p+14 p+24 p+26 p+28 : f3

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p+16 p+18 p+20 : f3

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p+16 p+18 p+22 p+26 : f3

p+16 p+18 p+22 p+28 : 4111, 4621, 25561, 38431, 41161, 80761, 208441, 344941, 429991, 432121, 443851,

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p+16 p+18 p+26 : f3

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p+16 p+20 : f3

p+16 p+22 : 3391, 4057, 5281, 5881, 6637, 6841, 8647, 9907, 10867, 10957, 12457, 13597, 17077, 17167, 19141, 20857, 22921, 24181, 24391, 26371, 27631, 28477, 29311, 31627, 32587,

p+16 p+22 p+24 : 6637, 9907, 10867, 17167, 32587, 32917, 49177, 69127, 74077, 77527, 114577, 118147, 129097, 185797, 218947, 262627, 284707, 307147, 312007, 328357, 337837, 342847, 346117, 379417, 436507,

p+16 p+22 p+24 p+26 : f3

p+16 p+22 p+24 p+28 : f5

p+16 p+22 p+24 p+30 : 49177, 77527, 129097, 262627, 284707, 337837, 346117, 488287,

p+16 p+22 p+26 : f3

p+16 p+22 p+28 : 5281, 6841, 24391, 26371, 29311, 33091, 34651, 35731, 41491, 50131, 54421, 54601, 54751, 71821, 76651, 82981, 107671, 111751, 114451, 121531, 134191, 136711, 139681, 141241, 174121,

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p+16 p+24 p+26 : f3

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p+16 p+26 : f3

p+16 p+28 : 3643, 5023, 9013, 10273, 12211, 16111, 18061, 18313, 19273, 20233, 20611, 22453, 23431, 23773, 28933, 32941, 36793, 37591, 37783, 39733, 44851, 45361, 49711, 51913, 55441,

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p+18 p+20 : 1259, 1913, 3803, 4463, 4703, 5483, 9749, 10691, 12983, 13883, 14303, 14369, 16673, 17939, 18233, 18269, 19121, 19163, 20789, 20963, 21821, 22349, 22943, 25013, 25391,

p+18 p+20 p+22 : f3

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p+18 p+20 p+24 p+26 : 12983, 55313, 166823, 201473, 294293, 334403, 346373, 388673,

p+18 p+20 p+24 p+26 p+28 : f3

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p+18 p+20 p+24 p+28 : f3

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p+18 p+20 p+26 p+28 : f3

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p+18 p+20 p+28 : f3

p+18 p+20 p+30 : 3803, 4463, 21821, 22943, 27509, 33053, 33161, 45161, 45569, 47681, 60869, 62171, 63629, 64763, 65963, 69911, 90803, 98543, 103049, 115133, 122579, 141833, 141941, 145991, 148763,

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11657, 11867,

p+20 p+22 : f3

p+20 p+24 : 887, 5717, 5903, 5987, 6803, 7649, 8783, 9257, 10223, 10433, 10667,  
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28517, 29363, 32213,



p+20 p+24 p+26 : 5717, 6803, 9257, 10433, 11093, 26927, 29363, 37967, 47717,  
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21283, 21347,

## REFERENCES

1. Fred B. Holt, *Expected gaps between prime numbers*, arXiv:070a6.0889 [math.NT] (2007).
2. Hans Riesel, *Subtleties in the distribution of primes*, Prime numbers and Computer Methods for Factorization (2012), 60–83.
3. Neil J. A. Sloane, *The On-Line Encyclopedia Of Integer Sequences*, Notices Am. Math. Soc. **50** (2003), no. 8, 912–915, <http://oeis.org/>. MR 1992789 (2004f:11151)

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