

```

def premier(atester):
    k = 2
    if atester in [0, 1]: return False
    if atester in [2, 3, 5, 7]: return True
    while True:
        if k * k > atester: return True
        else:
            if atester % k == 0: return False
            else: k = k + 1

for n in range(7,10004,2):
    trouve = False
    p = 2
    while p < n and not trouve:
        if premier(p):
            res = ((n-p)/2)**0.5
            if res-int(res) == 0:
                print(n, ' = ', p, ' + 2 x ', int(res), '^2.')
                trouve = True
        p = p+1
    if not trouve:
        print('je n ai pas trouve de solution pour ',n)

#####

7  =  5  + 2 x  1 ^2.
9  =  7  + 2 x  1 ^2.
11 =  3  + 2 x  2 ^2.
13 =  5  + 2 x  2 ^2.
15 =  7  + 2 x  2 ^2.
je n ai pas trouve de solution pour 17
19 = 11  + 2 x  2 ^2.
21 =  3  + 2 x  3 ^2.
23 =  5  + 2 x  3 ^2.
25 =  7  + 2 x  3 ^2.
27 = 19  + 2 x  2 ^2.
29 = 11  + 2 x  3 ^2.
31 = 13  + 2 x  3 ^2.
33 = 31  + 2 x  1 ^2.
35 =  3  + 2 x  4 ^2.
37 =  5  + 2 x  4 ^2.
39 =  7  + 2 x  4 ^2.
41 = 23  + 2 x  3 ^2.
43 = 11  + 2 x  4 ^2.
45 = 13  + 2 x  4 ^2.
47 = 29  + 2 x  3 ^2.
49 = 17  + 2 x  4 ^2.
51 = 19  + 2 x  4 ^2.
53 =  3  + 2 x  5 ^2.
55 =  5  + 2 x  5 ^2.
57 =  7  + 2 x  5 ^2.
59 = 41  + 2 x  3 ^2.
61 = 11  + 2 x  5 ^2.
63 = 13  + 2 x  5 ^2.
65 = 47  + 2 x  3 ^2.
67 = 17  + 2 x  5 ^2.
69 = 19  + 2 x  5 ^2.
71 = 53  + 2 x  3 ^2.
73 = 23  + 2 x  5 ^2.
75 =  3  + 2 x  6 ^2.
77 =  5  + 2 x  6 ^2.
79 =  7  + 2 x  6 ^2.
81 = 31  + 2 x  5 ^2.
83 = 11  + 2 x  6 ^2.

```

85 = 13 + 2 x 6 ^2.
 87 = 37 + 2 x 5 ^2.
 89 = 17 + 2 x 6 ^2.
 91 = 19 + 2 x 6 ^2.
 93 = 43 + 2 x 5 ^2.
 95 = 23 + 2 x 6 ^2.
 97 = 47 + 2 x 5 ^2.
 99 = 67 + 2 x 4 ^2.
 101 = 3 + 2 x 7 ^2.
 103 = 5 + 2 x 7 ^2.
 105 = 7 + 2 x 7 ^2.
 107 = 89 + 2 x 3 ^2.
 109 = 11 + 2 x 7 ^2.
 111 = 13 + 2 x 7 ^2.
 113 = 41 + 2 x 6 ^2.
 115 = 17 + 2 x 7 ^2.
 117 = 19 + 2 x 7 ^2.
 119 = 47 + 2 x 6 ^2.
 121 = 23 + 2 x 7 ^2.
 123 = 73 + 2 x 5 ^2.
 125 = 53 + 2 x 6 ^2.
 127 = 29 + 2 x 7 ^2.
 129 = 31 + 2 x 7 ^2.
 131 = 3 + 2 x 8 ^2.
 133 = 5 + 2 x 8 ^2.
 135 = 7 + 2 x 8 ^2.

je n ai pas trouve de solution pour 137

139 = 11 + 2 x 8 ^2.
 141 = 13 + 2 x 8 ^2.
 143 = 71 + 2 x 6 ^2.
 145 = 17 + 2 x 8 ^2.
 147 = 19 + 2 x 8 ^2.
 149 = 131 + 2 x 3 ^2.
 151 = 23 + 2 x 8 ^2.
 153 = 103 + 2 x 5 ^2.
 155 = 83 + 2 x 6 ^2.
 157 = 29 + 2 x 8 ^2.
 159 = 31 + 2 x 8 ^2.
 161 = 89 + 2 x 6 ^2.
 163 = 113 + 2 x 5 ^2.
 165 = 3 + 2 x 9 ^2.
 167 = 5 + 2 x 9 ^2.
 169 = 7 + 2 x 9 ^2.
 171 = 43 + 2 x 8 ^2.
 173 = 11 + 2 x 9 ^2.
 175 = 13 + 2 x 9 ^2.
 177 = 79 + 2 x 7 ^2.
 179 = 17 + 2 x 9 ^2.
 181 = 19 + 2 x 9 ^2.
 183 = 151 + 2 x 4 ^2.
 185 = 23 + 2 x 9 ^2.
 187 = 59 + 2 x 8 ^2.
 189 = 61 + 2 x 8 ^2.
 191 = 29 + 2 x 9 ^2.
 193 = 31 + 2 x 9 ^2.
 195 = 67 + 2 x 8 ^2.
 197 = 179 + 2 x 3 ^2.
 199 = 37 + 2 x 9 ^2.
 201 = 73 + 2 x 8 ^2.
 203 = 3 + 2 x 10 ^2.
 205 = 5 + 2 x 10 ^2.
 207 = 7 + 2 x 10 ^2.
 209 = 47 + 2 x 9 ^2.
 211 = 11 + 2 x 10 ^2.

213 = 13 + 2 x 10 ^2.
 215 = 53 + 2 x 9 ^2.
 217 = 17 + 2 x 10 ^2.
 219 = 19 + 2 x 10 ^2.
 221 = 59 + 2 x 9 ^2.
 223 = 23 + 2 x 10 ^2.
 225 = 97 + 2 x 8 ^2.

je n ai pas trouve de solution pour 227

229 = 29 + 2 x 10 ^2.
 231 = 31 + 2 x 10 ^2.
 233 = 71 + 2 x 9 ^2.
 235 = 73 + 2 x 9 ^2.
 237 = 37 + 2 x 10 ^2.
 239 = 167 + 2 x 6 ^2.
 241 = 41 + 2 x 10 ^2.
 243 = 43 + 2 x 10 ^2.
 245 = 3 + 2 x 11 ^2.
 247 = 5 + 2 x 11 ^2.
 249 = 7 + 2 x 11 ^2.
 251 = 89 + 2 x 9 ^2.
 253 = 11 + 2 x 11 ^2.
 255 = 13 + 2 x 11 ^2.
 257 = 239 + 2 x 3 ^2.
 259 = 17 + 2 x 11 ^2.
 261 = 19 + 2 x 11 ^2.
 263 = 101 + 2 x 9 ^2.
 265 = 23 + 2 x 11 ^2.
 267 = 67 + 2 x 10 ^2.
 269 = 107 + 2 x 9 ^2.
 271 = 29 + 2 x 11 ^2.
 273 = 31 + 2 x 11 ^2.
 275 = 113 + 2 x 9 ^2.
 277 = 149 + 2 x 8 ^2.
 279 = 37 + 2 x 11 ^2.
 281 = 263 + 2 x 3 ^2.
 283 = 41 + 2 x 11 ^2.
 285 = 43 + 2 x 11 ^2.
 287 = 269 + 2 x 3 ^2.
 289 = 47 + 2 x 11 ^2.
 291 = 3 + 2 x 12 ^2.
 293 = 5 + 2 x 12 ^2.
 295 = 7 + 2 x 12 ^2.
 297 = 97 + 2 x 10 ^2.
 299 = 11 + 2 x 12 ^2.
 301 = 13 + 2 x 12 ^2.
 303 = 61 + 2 x 11 ^2.
 305 = 17 + 2 x 12 ^2.
 307 = 19 + 2 x 12 ^2.
 309 = 67 + 2 x 11 ^2.
 311 = 23 + 2 x 12 ^2.
 313 = 71 + 2 x 11 ^2.
 315 = 73 + 2 x 11 ^2.
 317 = 29 + 2 x 12 ^2.
 319 = 31 + 2 x 12 ^2.
 321 = 79 + 2 x 11 ^2.
 323 = 251 + 2 x 6 ^2.
 325 = 37 + 2 x 12 ^2.
 327 = 127 + 2 x 10 ^2.
 329 = 41 + 2 x 12 ^2.
 331 = 43 + 2 x 12 ^2.
 333 = 283 + 2 x 5 ^2.
 335 = 47 + 2 x 12 ^2.
 337 = 137 + 2 x 10 ^2.
 339 = 97 + 2 x 11 ^2.

341 = 3 + 2 x 13 ^2.
 343 = 5 + 2 x 13 ^2.
 345 = 7 + 2 x 13 ^2.
 347 = 59 + 2 x 12 ^2.
 349 = 11 + 2 x 13 ^2.
 351 = 13 + 2 x 13 ^2.
 353 = 191 + 2 x 9 ^2.
 355 = 17 + 2 x 13 ^2.
 357 = 19 + 2 x 13 ^2.
 359 = 71 + 2 x 12 ^2.
 361 = 23 + 2 x 13 ^2.
 363 = 163 + 2 x 10 ^2.
 365 = 293 + 2 x 6 ^2.
 367 = 29 + 2 x 13 ^2.
 369 = 31 + 2 x 13 ^2.
 371 = 83 + 2 x 12 ^2.
 373 = 131 + 2 x 11 ^2.
 375 = 37 + 2 x 13 ^2.
 377 = 89 + 2 x 12 ^2.
 379 = 41 + 2 x 13 ^2.
 381 = 43 + 2 x 13 ^2.
 383 = 311 + 2 x 6 ^2.
 385 = 47 + 2 x 13 ^2.
 387 = 337 + 2 x 5 ^2.
 389 = 101 + 2 x 12 ^2.
 391 = 53 + 2 x 13 ^2.
 393 = 151 + 2 x 11 ^2.
 395 = 3 + 2 x 14 ^2.
 397 = 5 + 2 x 14 ^2.
 399 = 7 + 2 x 14 ^2.
 401 = 113 + 2 x 12 ^2.
 403 = 11 + 2 x 14 ^2.
 405 = 13 + 2 x 14 ^2.
 407 = 389 + 2 x 3 ^2.
 409 = 17 + 2 x 14 ^2.
 411 = 19 + 2 x 14 ^2.
 413 = 251 + 2 x 9 ^2.
 415 = 23 + 2 x 14 ^2.
 417 = 79 + 2 x 13 ^2.
 419 = 131 + 2 x 12 ^2.
 421 = 29 + 2 x 14 ^2.
 423 = 31 + 2 x 14 ^2.
 425 = 137 + 2 x 12 ^2.
 427 = 89 + 2 x 13 ^2.
 429 = 37 + 2 x 14 ^2.
 431 = 269 + 2 x 9 ^2.
 433 = 41 + 2 x 14 ^2.
 435 = 43 + 2 x 14 ^2.
 437 = 149 + 2 x 12 ^2.
 439 = 47 + 2 x 14 ^2.
 441 = 103 + 2 x 13 ^2.
 443 = 281 + 2 x 9 ^2.
 445 = 53 + 2 x 14 ^2.
 447 = 109 + 2 x 13 ^2.
 449 = 431 + 2 x 3 ^2.
 451 = 59 + 2 x 14 ^2.
 453 = 3 + 2 x 15 ^2.
 455 = 5 + 2 x 15 ^2.
 457 = 7 + 2 x 15 ^2.
 459 = 67 + 2 x 14 ^2.
 461 = 11 + 2 x 15 ^2.
 463 = 13 + 2 x 15 ^2.
 465 = 73 + 2 x 14 ^2.
 467 = 17 + 2 x 15 ^2.

469 = 19 + 2 x 15 ^2.
 471 = 79 + 2 x 14 ^2.
 473 = 23 + 2 x 15 ^2.
 475 = 83 + 2 x 14 ^2.
 477 = 139 + 2 x 13 ^2.
 479 = 29 + 2 x 15 ^2.
 481 = 31 + 2 x 15 ^2.
 483 = 241 + 2 x 11 ^2.
 485 = 197 + 2 x 12 ^2.
 487 = 37 + 2 x 15 ^2.
 489 = 97 + 2 x 14 ^2.
 491 = 41 + 2 x 15 ^2.
 493 = 43 + 2 x 15 ^2.
 495 = 103 + 2 x 14 ^2.
 497 = 47 + 2 x 15 ^2.
 499 = 107 + 2 x 14 ^2.
 501 = 109 + 2 x 14 ^2.
 503 = 53 + 2 x 15 ^2.
 505 = 113 + 2 x 14 ^2.
 507 = 307 + 2 x 10 ^2.
 509 = 59 + 2 x 15 ^2.
 511 = 61 + 2 x 15 ^2.
 513 = 271 + 2 x 11 ^2.
 515 = 3 + 2 x 16 ^2.
 517 = 5 + 2 x 16 ^2.
 519 = 7 + 2 x 16 ^2.
 521 = 71 + 2 x 15 ^2.
 523 = 11 + 2 x 16 ^2.
 525 = 13 + 2 x 16 ^2.
 527 = 239 + 2 x 12 ^2.
 529 = 17 + 2 x 16 ^2.
 531 = 19 + 2 x 16 ^2.
 533 = 83 + 2 x 15 ^2.
 535 = 23 + 2 x 16 ^2.
 537 = 199 + 2 x 13 ^2.
 539 = 89 + 2 x 15 ^2.
 541 = 29 + 2 x 16 ^2.
 543 = 31 + 2 x 16 ^2.
 545 = 257 + 2 x 12 ^2.
 547 = 97 + 2 x 15 ^2.
 549 = 37 + 2 x 16 ^2.
 551 = 101 + 2 x 15 ^2.
 553 = 41 + 2 x 16 ^2.
 555 = 43 + 2 x 16 ^2.
 557 = 107 + 2 x 15 ^2.
 559 = 47 + 2 x 16 ^2.
 561 = 223 + 2 x 13 ^2.
 563 = 113 + 2 x 15 ^2.
 565 = 53 + 2 x 16 ^2.
 567 = 229 + 2 x 13 ^2.
 569 = 281 + 2 x 12 ^2.
 571 = 59 + 2 x 16 ^2.
 573 = 61 + 2 x 16 ^2.
 575 = 503 + 2 x 6 ^2.
 577 = 127 + 2 x 15 ^2.
 579 = 67 + 2 x 16 ^2.
 581 = 3 + 2 x 17 ^2.
 583 = 5 + 2 x 17 ^2.
 585 = 7 + 2 x 17 ^2.
 587 = 137 + 2 x 15 ^2.
 589 = 11 + 2 x 17 ^2.
 591 = 13 + 2 x 17 ^2.
 593 = 431 + 2 x 9 ^2.
 595 = 17 + 2 x 17 ^2.

597 = 19 + 2 x 17 ^2.
 599 = 149 + 2 x 15 ^2.
 601 = 23 + 2 x 17 ^2.
 603 = 211 + 2 x 14 ^2.
 605 = 317 + 2 x 12 ^2.
 607 = 29 + 2 x 17 ^2.
 609 = 31 + 2 x 17 ^2.
 611 = 449 + 2 x 9 ^2.
 613 = 101 + 2 x 16 ^2.
 615 = 37 + 2 x 17 ^2.
 617 = 167 + 2 x 15 ^2.
 619 = 41 + 2 x 17 ^2.
 621 = 43 + 2 x 17 ^2.
 623 = 173 + 2 x 15 ^2.
 625 = 47 + 2 x 17 ^2.
 627 = 499 + 2 x 8 ^2.
 629 = 179 + 2 x 15 ^2.
 631 = 53 + 2 x 17 ^2.
 633 = 241 + 2 x 14 ^2.
 635 = 347 + 2 x 12 ^2.
 637 = 59 + 2 x 17 ^2.
 639 = 61 + 2 x 17 ^2.
 641 = 191 + 2 x 15 ^2.
 643 = 131 + 2 x 16 ^2.
 645 = 67 + 2 x 17 ^2.
 647 = 197 + 2 x 15 ^2.
 649 = 71 + 2 x 17 ^2.
 651 = 3 + 2 x 18 ^2.
 653 = 5 + 2 x 18 ^2.
 655 = 7 + 2 x 18 ^2.
 657 = 79 + 2 x 17 ^2.
 659 = 11 + 2 x 18 ^2.
 661 = 13 + 2 x 18 ^2.
 663 = 151 + 2 x 16 ^2.
 665 = 17 + 2 x 18 ^2.
 667 = 19 + 2 x 18 ^2.
 669 = 157 + 2 x 16 ^2.
 671 = 23 + 2 x 18 ^2.
 673 = 223 + 2 x 15 ^2.
 675 = 97 + 2 x 17 ^2.
 677 = 29 + 2 x 18 ^2.
 679 = 31 + 2 x 18 ^2.
 681 = 103 + 2 x 17 ^2.
 683 = 233 + 2 x 15 ^2.
 685 = 37 + 2 x 18 ^2.
 687 = 109 + 2 x 17 ^2.
 689 = 41 + 2 x 18 ^2.
 691 = 43 + 2 x 18 ^2.
 693 = 181 + 2 x 16 ^2.
 695 = 47 + 2 x 18 ^2.
 697 = 359 + 2 x 13 ^2.
 699 = 307 + 2 x 14 ^2.
 701 = 53 + 2 x 18 ^2.
 703 = 191 + 2 x 16 ^2.
 705 = 127 + 2 x 17 ^2.
 707 = 59 + 2 x 18 ^2.
 709 = 61 + 2 x 18 ^2.
 711 = 199 + 2 x 16 ^2.
 713 = 263 + 2 x 15 ^2.
 715 = 67 + 2 x 18 ^2.
 717 = 139 + 2 x 17 ^2.
 719 = 71 + 2 x 18 ^2.
 721 = 73 + 2 x 18 ^2.
 723 = 211 + 2 x 16 ^2.

725 = 3 + 2 x 19 ^2.
727 = 5 + 2 x 19 ^2.
729 = 7 + 2 x 19 ^2.
731 = 83 + 2 x 18 ^2.
733 = 11 + 2 x 19 ^2.
735 = 13 + 2 x 19 ^2.
737 = 89 + 2 x 18 ^2.
739 = 17 + 2 x 19 ^2.
741 = 19 + 2 x 19 ^2.
743 = 293 + 2 x 15 ^2.
745 = 23 + 2 x 19 ^2.
747 = 409 + 2 x 13 ^2.
749 = 101 + 2 x 18 ^2.
751 = 29 + 2 x 19 ^2.
753 = 31 + 2 x 19 ^2.
755 = 107 + 2 x 18 ^2.
757 = 109 + 2 x 18 ^2.
759 = 37 + 2 x 19 ^2.
761 = 113 + 2 x 18 ^2.
763 = 41 + 2 x 19 ^2.
765 = 43 + 2 x 19 ^2.
767 = 317 + 2 x 15 ^2.
769 = 47 + 2 x 19 ^2.
771 = 193 + 2 x 17 ^2.
773 = 701 + 2 x 6 ^2.
775 = 53 + 2 x 19 ^2.
777 = 199 + 2 x 17 ^2.
779 = 131 + 2 x 18 ^2.
781 = 59 + 2 x 19 ^2.
783 = 61 + 2 x 19 ^2.
785 = 137 + 2 x 18 ^2.
787 = 139 + 2 x 18 ^2.
789 = 67 + 2 x 19 ^2.
791 = 503 + 2 x 12 ^2.
793 = 71 + 2 x 19 ^2.
795 = 73 + 2 x 19 ^2.
797 = 149 + 2 x 18 ^2.
799 = 151 + 2 x 18 ^2.
801 = 79 + 2 x 19 ^2.
803 = 3 + 2 x 20 ^2.
805 = 5 + 2 x 20 ^2.
807 = 7 + 2 x 20 ^2.
809 = 359 + 2 x 15 ^2.
811 = 11 + 2 x 20 ^2.
813 = 13 + 2 x 20 ^2.
815 = 167 + 2 x 18 ^2.
817 = 17 + 2 x 20 ^2.
819 = 19 + 2 x 20 ^2.
821 = 173 + 2 x 18 ^2.
823 = 23 + 2 x 20 ^2.
825 = 103 + 2 x 19 ^2.
827 = 179 + 2 x 18 ^2.
829 = 29 + 2 x 20 ^2.
831 = 31 + 2 x 20 ^2.
833 = 383 + 2 x 15 ^2.
835 = 113 + 2 x 19 ^2.
837 = 37 + 2 x 20 ^2.
839 = 191 + 2 x 18 ^2.
841 = 41 + 2 x 20 ^2.
843 = 43 + 2 x 20 ^2.
845 = 197 + 2 x 18 ^2.
847 = 47 + 2 x 20 ^2.
849 = 127 + 2 x 19 ^2.
851 = 401 + 2 x 15 ^2.

853 = 53 + 2 x 20 ^2.
 855 = 277 + 2 x 17 ^2.
 857 = 569 + 2 x 12 ^2.
 859 = 59 + 2 x 20 ^2.
 861 = 61 + 2 x 20 ^2.
 863 = 701 + 2 x 9 ^2.
 865 = 353 + 2 x 16 ^2.
 867 = 67 + 2 x 20 ^2.
 869 = 419 + 2 x 15 ^2.
 871 = 71 + 2 x 20 ^2.
 873 = 73 + 2 x 20 ^2.
 875 = 227 + 2 x 18 ^2.
 877 = 229 + 2 x 18 ^2.
 879 = 79 + 2 x 20 ^2.
 881 = 233 + 2 x 18 ^2.
 883 = 83 + 2 x 20 ^2.
 885 = 3 + 2 x 21 ^2.
 887 = 5 + 2 x 21 ^2.
 889 = 7 + 2 x 21 ^2.
 891 = 313 + 2 x 17 ^2.
 893 = 11 + 2 x 21 ^2.
 895 = 13 + 2 x 21 ^2.
 897 = 97 + 2 x 20 ^2.
 899 = 17 + 2 x 21 ^2.
 901 = 19 + 2 x 21 ^2.
 903 = 103 + 2 x 20 ^2.
 905 = 23 + 2 x 21 ^2.
 907 = 107 + 2 x 20 ^2.
 909 = 109 + 2 x 20 ^2.
 911 = 29 + 2 x 21 ^2.
 913 = 31 + 2 x 21 ^2.
 915 = 193 + 2 x 19 ^2.
 917 = 269 + 2 x 18 ^2.
 919 = 37 + 2 x 21 ^2.
 921 = 199 + 2 x 19 ^2.
 923 = 41 + 2 x 21 ^2.
 925 = 43 + 2 x 21 ^2.
 927 = 127 + 2 x 20 ^2.
 929 = 47 + 2 x 21 ^2.
 931 = 131 + 2 x 20 ^2.
 933 = 211 + 2 x 19 ^2.
 935 = 53 + 2 x 21 ^2.
 937 = 137 + 2 x 20 ^2.
 939 = 139 + 2 x 20 ^2.
 941 = 59 + 2 x 21 ^2.
 943 = 61 + 2 x 21 ^2.
 945 = 223 + 2 x 19 ^2.
 947 = 659 + 2 x 12 ^2.
 949 = 67 + 2 x 21 ^2.
 951 = 151 + 2 x 20 ^2.
 953 = 71 + 2 x 21 ^2.
 955 = 73 + 2 x 21 ^2.
 957 = 157 + 2 x 20 ^2.
 959 = 311 + 2 x 18 ^2.
 961 = 79 + 2 x 21 ^2.
 963 = 163 + 2 x 20 ^2.
 965 = 83 + 2 x 21 ^2.
 967 = 167 + 2 x 20 ^2.
 969 = 457 + 2 x 16 ^2.
 971 = 3 + 2 x 22 ^2.
 973 = 5 + 2 x 22 ^2.
 975 = 7 + 2 x 22 ^2.
 je n ai pas trouve de solution pour 977
 979 = 11 + 2 x 22 ^2.

981 = 13 + 2 x 22 ^2.
 983 = 101 + 2 x 21 ^2.
 985 = 17 + 2 x 22 ^2.
 987 = 19 + 2 x 22 ^2.
 989 = 107 + 2 x 21 ^2.
 991 = 23 + 2 x 22 ^2.
 993 = 193 + 2 x 20 ^2.
 995 = 113 + 2 x 21 ^2.
 997 = 29 + 2 x 22 ^2.
 999 = 31 + 2 x 22 ^2.
 1001 = 353 + 2 x 18 ^2.
 1003 = 281 + 2 x 19 ^2.
 1005 = 37 + 2 x 22 ^2.
 1007 = 359 + 2 x 18 ^2.
 1009 = 41 + 2 x 22 ^2.
 1011 = 43 + 2 x 22 ^2.
 1013 = 131 + 2 x 21 ^2.
 1015 = 47 + 2 x 22 ^2.
 1017 = 439 + 2 x 17 ^2.
 1019 = 137 + 2 x 21 ^2.
 1021 = 53 + 2 x 22 ^2.
 1023 = 223 + 2 x 20 ^2.
 1025 = 863 + 2 x 9 ^2.
 1027 = 59 + 2 x 22 ^2.
 1029 = 61 + 2 x 22 ^2.
 1031 = 149 + 2 x 21 ^2.
 1033 = 151 + 2 x 21 ^2.
 1035 = 67 + 2 x 22 ^2.
 1037 = 389 + 2 x 18 ^2.
 1039 = 71 + 2 x 22 ^2.
 1041 = 73 + 2 x 22 ^2.
 1043 = 593 + 2 x 15 ^2.
 1045 = 163 + 2 x 21 ^2.
 1047 = 79 + 2 x 22 ^2.
 1049 = 167 + 2 x 21 ^2.
 1051 = 83 + 2 x 22 ^2.
 1053 = 331 + 2 x 19 ^2.
 1055 = 173 + 2 x 21 ^2.
 1057 = 89 + 2 x 22 ^2.
 1059 = 337 + 2 x 19 ^2.
 1061 = 3 + 2 x 23 ^2.
 1063 = 5 + 2 x 23 ^2.
 1065 = 7 + 2 x 23 ^2.
 1067 = 419 + 2 x 18 ^2.
 1069 = 11 + 2 x 23 ^2.
 1071 = 13 + 2 x 23 ^2.
 1073 = 191 + 2 x 21 ^2.
 1075 = 17 + 2 x 23 ^2.
 1077 = 19 + 2 x 23 ^2.
 1079 = 197 + 2 x 21 ^2.
 1081 = 23 + 2 x 23 ^2.
 1083 = 283 + 2 x 20 ^2.
 1085 = 797 + 2 x 12 ^2.
 1087 = 29 + 2 x 23 ^2.
 1089 = 31 + 2 x 23 ^2.
 1091 = 443 + 2 x 18 ^2.
 1093 = 211 + 2 x 21 ^2.
 1095 = 37 + 2 x 23 ^2.
 1097 = 449 + 2 x 18 ^2.
 1099 = 41 + 2 x 23 ^2.
 1101 = 43 + 2 x 23 ^2.
 1103 = 653 + 2 x 15 ^2.
 1105 = 47 + 2 x 23 ^2.
 1107 = 139 + 2 x 22 ^2.

1109 = 227 + 2 x 21 ^2.
1111 = 53 + 2 x 23 ^2.
1113 = 313 + 2 x 20 ^2.
1115 = 233 + 2 x 21 ^2.
1117 = 59 + 2 x 23 ^2.
1119 = 61 + 2 x 23 ^2.
1121 = 239 + 2 x 21 ^2.
1123 = 241 + 2 x 21 ^2.
1125 = 67 + 2 x 23 ^2.
1127 = 479 + 2 x 18 ^2.
1129 = 71 + 2 x 23 ^2.
1131 = 73 + 2 x 23 ^2.
1133 = 251 + 2 x 21 ^2.
1135 = 167 + 2 x 22 ^2.
1137 = 79 + 2 x 23 ^2.
1139 = 257 + 2 x 21 ^2.
1141 = 83 + 2 x 23 ^2.
1143 = 421 + 2 x 19 ^2.
1145 = 263 + 2 x 21 ^2.
1147 = 89 + 2 x 23 ^2.
1149 = 181 + 2 x 22 ^2.
1151 = 269 + 2 x 21 ^2.
1153 = 271 + 2 x 21 ^2.
1155 = 3 + 2 x 24 ^2.
1157 = 5 + 2 x 24 ^2.
1159 = 7 + 2 x 24 ^2.
1161 = 103 + 2 x 23 ^2.
1163 = 11 + 2 x 24 ^2.
1165 = 13 + 2 x 24 ^2.
1167 = 109 + 2 x 23 ^2.
1169 = 17 + 2 x 24 ^2.
1171 = 19 + 2 x 24 ^2.
1173 = 373 + 2 x 20 ^2.
1175 = 23 + 2 x 24 ^2.
1177 = 599 + 2 x 17 ^2.
1179 = 211 + 2 x 22 ^2.
1181 = 29 + 2 x 24 ^2.
1183 = 31 + 2 x 24 ^2.
1185 = 127 + 2 x 23 ^2.
je n ai pas trouve de solution pour 1187
1189 = 37 + 2 x 24 ^2.
1191 = 223 + 2 x 22 ^2.
1193 = 41 + 2 x 24 ^2.
1195 = 43 + 2 x 24 ^2.
1197 = 139 + 2 x 23 ^2.
1199 = 47 + 2 x 24 ^2.
1201 = 233 + 2 x 22 ^2.
1203 = 691 + 2 x 16 ^2.
1205 = 53 + 2 x 24 ^2.
1207 = 149 + 2 x 23 ^2.
1209 = 151 + 2 x 23 ^2.
1211 = 59 + 2 x 24 ^2.
1213 = 61 + 2 x 24 ^2.
1215 = 157 + 2 x 23 ^2.
1217 = 569 + 2 x 18 ^2.
1219 = 67 + 2 x 24 ^2.
1221 = 163 + 2 x 23 ^2.
1223 = 71 + 2 x 24 ^2.
1225 = 73 + 2 x 24 ^2.
1227 = 1129 + 2 x 7 ^2.
1229 = 347 + 2 x 21 ^2.
1231 = 79 + 2 x 24 ^2.
1233 = 433 + 2 x 20 ^2.
1235 = 83 + 2 x 24 ^2.

1237 = 179 + 2 x 23 ^2.
1239 = 181 + 2 x 23 ^2.
1241 = 89 + 2 x 24 ^2.
1243 = 443 + 2 x 20 ^2.
1245 = 277 + 2 x 22 ^2.
1247 = 599 + 2 x 18 ^2.
1249 = 97 + 2 x 24 ^2.
1251 = 193 + 2 x 23 ^2.
1253 = 3 + 2 x 25 ^2.
1255 = 5 + 2 x 25 ^2.
1257 = 7 + 2 x 25 ^2.
1259 = 107 + 2 x 24 ^2.
1261 = 11 + 2 x 25 ^2.
1263 = 13 + 2 x 25 ^2.
1265 = 113 + 2 x 24 ^2.
1267 = 17 + 2 x 25 ^2.
1269 = 19 + 2 x 25 ^2.
1271 = 389 + 2 x 21 ^2.
1273 = 23 + 2 x 25 ^2.
1275 = 307 + 2 x 22 ^2.
1277 = 827 + 2 x 15 ^2.
1279 = 29 + 2 x 25 ^2.
1281 = 31 + 2 x 25 ^2.
1283 = 131 + 2 x 24 ^2.
1285 = 227 + 2 x 23 ^2.
1287 = 37 + 2 x 25 ^2.
1289 = 137 + 2 x 24 ^2.
1291 = 41 + 2 x 25 ^2.
1293 = 43 + 2 x 25 ^2.
1295 = 647 + 2 x 18 ^2.
1297 = 47 + 2 x 25 ^2.
1299 = 241 + 2 x 23 ^2.
1301 = 149 + 2 x 24 ^2.
1303 = 53 + 2 x 25 ^2.
1305 = 337 + 2 x 22 ^2.
1307 = 659 + 2 x 18 ^2.
1309 = 59 + 2 x 25 ^2.
1311 = 61 + 2 x 25 ^2.
1313 = 431 + 2 x 21 ^2.
1315 = 163 + 2 x 24 ^2.
1317 = 67 + 2 x 25 ^2.
1319 = 167 + 2 x 24 ^2.
1321 = 71 + 2 x 25 ^2.
1323 = 73 + 2 x 25 ^2.
1325 = 173 + 2 x 24 ^2.
1327 = 269 + 2 x 23 ^2.
1329 = 79 + 2 x 25 ^2.
1331 = 179 + 2 x 24 ^2.
1333 = 83 + 2 x 25 ^2.
1335 = 277 + 2 x 23 ^2.
1337 = 887 + 2 x 15 ^2.
1339 = 89 + 2 x 25 ^2.
1341 = 283 + 2 x 23 ^2.
1343 = 191 + 2 x 24 ^2.
1345 = 193 + 2 x 24 ^2.
1347 = 97 + 2 x 25 ^2.
1349 = 197 + 2 x 24 ^2.
1351 = 101 + 2 x 25 ^2.
1353 = 103 + 2 x 25 ^2.
1355 = 3 + 2 x 26 ^2.
1357 = 5 + 2 x 26 ^2.
1359 = 7 + 2 x 26 ^2.
1361 = 479 + 2 x 21 ^2.
1363 = 11 + 2 x 26 ^2.

1365 = 13 + 2 x 26 ^2.
1367 = 719 + 2 x 18 ^2.
1369 = 17 + 2 x 26 ^2.
1371 = 19 + 2 x 26 ^2.
1373 = 491 + 2 x 21 ^2.
1375 = 23 + 2 x 26 ^2.
1377 = 127 + 2 x 25 ^2.
1379 = 227 + 2 x 24 ^2.
1381 = 29 + 2 x 26 ^2.
1383 = 31 + 2 x 26 ^2.
1385 = 233 + 2 x 24 ^2.
1387 = 137 + 2 x 25 ^2.
1389 = 37 + 2 x 26 ^2.
1391 = 239 + 2 x 24 ^2.
1393 = 41 + 2 x 26 ^2.
1395 = 43 + 2 x 26 ^2.
1397 = 947 + 2 x 15 ^2.
1399 = 47 + 2 x 26 ^2.
1401 = 151 + 2 x 25 ^2.
1403 = 251 + 2 x 24 ^2.
1405 = 53 + 2 x 26 ^2.
1407 = 157 + 2 x 25 ^2.
1409 = 257 + 2 x 24 ^2.
1411 = 59 + 2 x 26 ^2.
1413 = 61 + 2 x 26 ^2.
1415 = 263 + 2 x 24 ^2.
1417 = 167 + 2 x 25 ^2.
1419 = 67 + 2 x 26 ^2.
1421 = 269 + 2 x 24 ^2.
1423 = 71 + 2 x 26 ^2.
1425 = 73 + 2 x 26 ^2.
1427 = 977 + 2 x 15 ^2.
1429 = 179 + 2 x 25 ^2.
1431 = 79 + 2 x 26 ^2.
1433 = 281 + 2 x 24 ^2.
1435 = 83 + 2 x 26 ^2.
1437 = 379 + 2 x 23 ^2.
1439 = 557 + 2 x 21 ^2.
1441 = 89 + 2 x 26 ^2.
1443 = 193 + 2 x 25 ^2.
1445 = 293 + 2 x 24 ^2.
1447 = 197 + 2 x 25 ^2.
1449 = 97 + 2 x 26 ^2.
1451 = 569 + 2 x 21 ^2.
1453 = 101 + 2 x 26 ^2.
1455 = 103 + 2 x 26 ^2.
1457 = 809 + 2 x 18 ^2.
1459 = 107 + 2 x 26 ^2.
1461 = 3 + 2 x 27 ^2.
1463 = 5 + 2 x 27 ^2.
1465 = 7 + 2 x 27 ^2.
1467 = 409 + 2 x 23 ^2.
1469 = 11 + 2 x 27 ^2.
1471 = 13 + 2 x 27 ^2.
1473 = 223 + 2 x 25 ^2.
1475 = 17 + 2 x 27 ^2.
1477 = 19 + 2 x 27 ^2.
1479 = 127 + 2 x 26 ^2.
1481 = 23 + 2 x 27 ^2.
1483 = 131 + 2 x 26 ^2.
1485 = 907 + 2 x 17 ^2.
1487 = 29 + 2 x 27 ^2.
1489 = 31 + 2 x 27 ^2.
1491 = 139 + 2 x 26 ^2.

je n ai pas trouve de solution pour 1493

1495 = $37 + 2 \times 27^2$.
1497 = $439 + 2 \times 23^2$.
1499 = $41 + 2 \times 27^2$.
1501 = $43 + 2 \times 27^2$.
1503 = $151 + 2 \times 26^2$.
1505 = $47 + 2 \times 27^2$.
1507 = $257 + 2 \times 25^2$.
1509 = $157 + 2 \times 26^2$.
1511 = $53 + 2 \times 27^2$.
1513 = $263 + 2 \times 25^2$.
1515 = $163 + 2 \times 26^2$.
1517 = $59 + 2 \times 27^2$.
1519 = $61 + 2 \times 27^2$.
1521 = $271 + 2 \times 25^2$.
1523 = $641 + 2 \times 21^2$.
1525 = $67 + 2 \times 27^2$.
1527 = $277 + 2 \times 25^2$.
1529 = $71 + 2 \times 27^2$.
1531 = $73 + 2 \times 27^2$.
1533 = $181 + 2 \times 26^2$.
1535 = $383 + 2 \times 24^2$.
1537 = $79 + 2 \times 27^2$.
1539 = $571 + 2 \times 22^2$.
1541 = $83 + 2 \times 27^2$.
1543 = $191 + 2 \times 26^2$.
1545 = $193 + 2 \times 26^2$.
1547 = $89 + 2 \times 27^2$.
1549 = $197 + 2 \times 26^2$.
1551 = $199 + 2 \times 26^2$.
1553 = $401 + 2 \times 24^2$.
1555 = $97 + 2 \times 27^2$.
1557 = $307 + 2 \times 25^2$.
1559 = $101 + 2 \times 27^2$.
1561 = $103 + 2 \times 27^2$.
1563 = $211 + 2 \times 26^2$.
1565 = $107 + 2 \times 27^2$.
1567 = $109 + 2 \times 27^2$.
1569 = $601 + 2 \times 22^2$.
1571 = $3 + 2 \times 28^2$.
1573 = $5 + 2 \times 28^2$.
1575 = $7 + 2 \times 28^2$.
1577 = $929 + 2 \times 18^2$.
1579 = $11 + 2 \times 28^2$.
1581 = $13 + 2 \times 28^2$.
1583 = $431 + 2 \times 24^2$.
1585 = $17 + 2 \times 28^2$.
1587 = $19 + 2 \times 28^2$.
1589 = $131 + 2 \times 27^2$.
1591 = $23 + 2 \times 28^2$.
1593 = $241 + 2 \times 26^2$.
1595 = $137 + 2 \times 27^2$.
1597 = $29 + 2 \times 28^2$.
1599 = $31 + 2 \times 28^2$.
1601 = $449 + 2 \times 24^2$.
1603 = $251 + 2 \times 26^2$.
1605 = $37 + 2 \times 28^2$.
1607 = $149 + 2 \times 27^2$.
1609 = $41 + 2 \times 28^2$.
1611 = $43 + 2 \times 28^2$.
1613 = $461 + 2 \times 24^2$.
1615 = $47 + 2 \times 28^2$.
1617 = $367 + 2 \times 25^2$.
1619 = $467 + 2 \times 24^2$.

1621 = 53 + 2 x 28 ^2.
 1623 = 271 + 2 x 26 ^2.
 1625 = 167 + 2 x 27 ^2.
 1627 = 59 + 2 x 28 ^2.
 1629 = 61 + 2 x 28 ^2.
 1631 = 173 + 2 x 27 ^2.
 1633 = 281 + 2 x 26 ^2.
 1635 = 67 + 2 x 28 ^2.
 1637 = 179 + 2 x 27 ^2.
 1639 = 71 + 2 x 28 ^2.
 1641 = 73 + 2 x 28 ^2.
 1643 = 491 + 2 x 24 ^2.
 1645 = 293 + 2 x 26 ^2.
 1647 = 79 + 2 x 28 ^2.
 1649 = 191 + 2 x 27 ^2.
 1651 = 83 + 2 x 28 ^2.
 1653 = 853 + 2 x 20 ^2.
 1655 = 197 + 2 x 27 ^2.
 1657 = 89 + 2 x 28 ^2.
 1659 = 307 + 2 x 26 ^2.
 1661 = 509 + 2 x 24 ^2.
 1663 = 311 + 2 x 26 ^2.
 1665 = 97 + 2 x 28 ^2.
 1667 = 1019 + 2 x 18 ^2.
 1669 = 101 + 2 x 28 ^2.
 1671 = 103 + 2 x 28 ^2.
 1673 = 521 + 2 x 24 ^2.
 1675 = 107 + 2 x 28 ^2.
 1677 = 109 + 2 x 28 ^2.
 1679 = 797 + 2 x 21 ^2.
 1681 = 113 + 2 x 28 ^2.
 1683 = 331 + 2 x 26 ^2.
 1685 = 3 + 2 x 29 ^2.
 1687 = 5 + 2 x 29 ^2.
 1689 = 7 + 2 x 29 ^2.
 1691 = 233 + 2 x 27 ^2.
 1693 = 11 + 2 x 29 ^2.
 1695 = 13 + 2 x 29 ^2.
 1697 = 239 + 2 x 27 ^2.
 1699 = 17 + 2 x 29 ^2.
 1701 = 19 + 2 x 29 ^2.
 1703 = 821 + 2 x 21 ^2.
 1705 = 23 + 2 x 29 ^2.
 1707 = 139 + 2 x 28 ^2.
 1709 = 251 + 2 x 27 ^2.
 1711 = 29 + 2 x 29 ^2.
 1713 = 31 + 2 x 29 ^2.
 1715 = 257 + 2 x 27 ^2.
 1717 = 149 + 2 x 28 ^2.
 1719 = 37 + 2 x 29 ^2.
 1721 = 263 + 2 x 27 ^2.
 1723 = 41 + 2 x 29 ^2.
 1725 = 43 + 2 x 29 ^2.
 1727 = 269 + 2 x 27 ^2.
 1729 = 47 + 2 x 29 ^2.
 1731 = 163 + 2 x 28 ^2.
 1733 = 1283 + 2 x 15 ^2.
 1735 = 53 + 2 x 29 ^2.
 1737 = 487 + 2 x 25 ^2.
 1739 = 281 + 2 x 27 ^2.
 1741 = 59 + 2 x 29 ^2.
 1743 = 61 + 2 x 29 ^2.
 1745 = 593 + 2 x 24 ^2.
 1747 = 179 + 2 x 28 ^2.

1749 = 67 + 2 x 29 ^2.
1751 = 293 + 2 x 27 ^2.
1753 = 71 + 2 x 29 ^2.
1755 = 73 + 2 x 29 ^2.
1757 = 1109 + 2 x 18 ^2.
1759 = 191 + 2 x 28 ^2.
1761 = 79 + 2 x 29 ^2.
1763 = 881 + 2 x 21 ^2.
1765 = 83 + 2 x 29 ^2.
1767 = 199 + 2 x 28 ^2.
1769 = 311 + 2 x 27 ^2.
1771 = 89 + 2 x 29 ^2.
1773 = 421 + 2 x 26 ^2.
1775 = 317 + 2 x 27 ^2.
1777 = 719 + 2 x 23 ^2.
1779 = 97 + 2 x 29 ^2.
1781 = 1493 + 2 x 12 ^2.
1783 = 101 + 2 x 29 ^2.
1785 = 103 + 2 x 29 ^2.
1787 = 1499 + 2 x 12 ^2.
1789 = 107 + 2 x 29 ^2.
1791 = 109 + 2 x 29 ^2.
1793 = 641 + 2 x 24 ^2.
1795 = 113 + 2 x 29 ^2.
1797 = 229 + 2 x 28 ^2.
1799 = 647 + 2 x 24 ^2.
1801 = 233 + 2 x 28 ^2.
1803 = 3 + 2 x 30 ^2.
1805 = 5 + 2 x 30 ^2.
1807 = 7 + 2 x 30 ^2.
1809 = 127 + 2 x 29 ^2.
1811 = 11 + 2 x 30 ^2.
1813 = 13 + 2 x 30 ^2.
1815 = 463 + 2 x 26 ^2.
1817 = 17 + 2 x 30 ^2.
1819 = 19 + 2 x 30 ^2.
1821 = 139 + 2 x 29 ^2.
1823 = 23 + 2 x 30 ^2.
1825 = 257 + 2 x 28 ^2.
1827 = 577 + 2 x 25 ^2.
1829 = 29 + 2 x 30 ^2.
1831 = 31 + 2 x 30 ^2.
1833 = 151 + 2 x 29 ^2.
1835 = 683 + 2 x 24 ^2.
1837 = 37 + 2 x 30 ^2.
1839 = 157 + 2 x 29 ^2.
1841 = 41 + 2 x 30 ^2.
1843 = 43 + 2 x 30 ^2.
1845 = 163 + 2 x 29 ^2.
1847 = 47 + 2 x 30 ^2.
1849 = 167 + 2 x 29 ^2.
1851 = 283 + 2 x 28 ^2.
1853 = 53 + 2 x 30 ^2.
1855 = 173 + 2 x 29 ^2.
1857 = 607 + 2 x 25 ^2.
1859 = 59 + 2 x 30 ^2.
1861 = 61 + 2 x 30 ^2.
1863 = 181 + 2 x 29 ^2.
1865 = 983 + 2 x 21 ^2.
1867 = 67 + 2 x 30 ^2.
1869 = 619 + 2 x 25 ^2.
1871 = 71 + 2 x 30 ^2.
1873 = 73 + 2 x 30 ^2.
1875 = 193 + 2 x 29 ^2.

1877 = 419 + 2 x 27 ^2.
1879 = 79 + 2 x 30 ^2.
1881 = 199 + 2 x 29 ^2.
1883 = 83 + 2 x 30 ^2.
1885 = 317 + 2 x 28 ^2.
1887 = 829 + 2 x 23 ^2.
1889 = 89 + 2 x 30 ^2.
1891 = 433 + 2 x 27 ^2.
1893 = 211 + 2 x 29 ^2.
1895 = 743 + 2 x 24 ^2.
1897 = 97 + 2 x 30 ^2.
1899 = 331 + 2 x 28 ^2.
1901 = 101 + 2 x 30 ^2.
1903 = 103 + 2 x 30 ^2.
1905 = 223 + 2 x 29 ^2.
1907 = 107 + 2 x 30 ^2.
1909 = 109 + 2 x 30 ^2.
1911 = 229 + 2 x 29 ^2.
1913 = 113 + 2 x 30 ^2.
1915 = 233 + 2 x 29 ^2.
1917 = 349 + 2 x 28 ^2.
1919 = 461 + 2 x 27 ^2.
1921 = 239 + 2 x 29 ^2.
1923 = 241 + 2 x 29 ^2.
1925 = 3 + 2 x 31 ^2.
1927 = 5 + 2 x 31 ^2.
1929 = 7 + 2 x 31 ^2.
1931 = 131 + 2 x 30 ^2.
1933 = 11 + 2 x 31 ^2.
1935 = 13 + 2 x 31 ^2.
1937 = 137 + 2 x 30 ^2.
1939 = 17 + 2 x 31 ^2.
1941 = 19 + 2 x 31 ^2.
1943 = 1061 + 2 x 21 ^2.
1945 = 23 + 2 x 31 ^2.
1947 = 379 + 2 x 28 ^2.
1949 = 149 + 2 x 30 ^2.
1951 = 29 + 2 x 31 ^2.
1953 = 31 + 2 x 31 ^2.
1955 = 1307 + 2 x 18 ^2.
1957 = 157 + 2 x 30 ^2.
1959 = 37 + 2 x 31 ^2.
1961 = 503 + 2 x 27 ^2.
1963 = 41 + 2 x 31 ^2.
1965 = 43 + 2 x 31 ^2.
1967 = 167 + 2 x 30 ^2.
1969 = 47 + 2 x 31 ^2.
1971 = 619 + 2 x 26 ^2.
1973 = 173 + 2 x 30 ^2.
1975 = 53 + 2 x 31 ^2.
1977 = 409 + 2 x 28 ^2.
1979 = 179 + 2 x 30 ^2.
1981 = 59 + 2 x 31 ^2.
1983 = 61 + 2 x 31 ^2.
1985 = 1103 + 2 x 21 ^2.
1987 = 419 + 2 x 28 ^2.
1989 = 67 + 2 x 31 ^2.
1991 = 191 + 2 x 30 ^2.
1993 = 71 + 2 x 31 ^2.
1995 = 73 + 2 x 31 ^2.
1997 = 197 + 2 x 30 ^2.
1999 = 199 + 2 x 30 ^2.
2001 = 79 + 2 x 31 ^2.
2003 = 1553 + 2 x 15 ^2.

2005 = 83 + 2 x 31 ^2.
 2007 = 439 + 2 x 28 ^2.
 2009 = 857 + 2 x 24 ^2.
 2011 = 89 + 2 x 31 ^2.
 2013 = 331 + 2 x 29 ^2.
 2015 = 557 + 2 x 27 ^2.
 2017 = 449 + 2 x 28 ^2.
 2019 = 97 + 2 x 31 ^2.
 2021 = 563 + 2 x 27 ^2.
 2023 = 101 + 2 x 31 ^2.
 2025 = 103 + 2 x 31 ^2.
 2027 = 227 + 2 x 30 ^2.
 2029 = 107 + 2 x 31 ^2.
 2031 = 109 + 2 x 31 ^2.
 2033 = 233 + 2 x 30 ^2.
 2035 = 113 + 2 x 31 ^2.
 2037 = 787 + 2 x 25 ^2.
 2039 = 239 + 2 x 30 ^2.
 2041 = 241 + 2 x 30 ^2.
 2043 = 691 + 2 x 26 ^2.
 2045 = 587 + 2 x 27 ^2.
 2047 = 479 + 2 x 28 ^2.
 2049 = 127 + 2 x 31 ^2.
 2051 = 3 + 2 x 32 ^2.
 2053 = 5 + 2 x 32 ^2.
 2055 = 7 + 2 x 32 ^2.
 2057 = 257 + 2 x 30 ^2.
 2059 = 11 + 2 x 32 ^2.
 2061 = 13 + 2 x 32 ^2.
 2063 = 263 + 2 x 30 ^2.
 2065 = 17 + 2 x 32 ^2.
 2067 = 19 + 2 x 32 ^2.
 2069 = 269 + 2 x 30 ^2.
 2071 = 23 + 2 x 32 ^2.
 2073 = 151 + 2 x 31 ^2.
 2075 = 617 + 2 x 27 ^2.
 2077 = 29 + 2 x 32 ^2.
 2079 = 31 + 2 x 32 ^2.
 2081 = 281 + 2 x 30 ^2.
 2083 = 283 + 2 x 30 ^2.
 2085 = 37 + 2 x 32 ^2.
 2087 = 1439 + 2 x 18 ^2.
 2089 = 41 + 2 x 32 ^2.
 2091 = 43 + 2 x 32 ^2.
 2093 = 293 + 2 x 30 ^2.
 2095 = 47 + 2 x 32 ^2.
 2097 = 1039 + 2 x 23 ^2.
 2099 = 641 + 2 x 27 ^2.
 2101 = 53 + 2 x 32 ^2.
 2103 = 181 + 2 x 31 ^2.
 2105 = 647 + 2 x 27 ^2.
 2107 = 59 + 2 x 32 ^2.
 2109 = 61 + 2 x 32 ^2.
 2111 = 311 + 2 x 30 ^2.
 2113 = 191 + 2 x 31 ^2.
 2115 = 67 + 2 x 32 ^2.
 2117 = 317 + 2 x 30 ^2.
 2119 = 71 + 2 x 32 ^2.
 2121 = 73 + 2 x 32 ^2.
 2123 = 971 + 2 x 24 ^2.
 2125 = 443 + 2 x 29 ^2.
 2127 = 79 + 2 x 32 ^2.
 2129 = 977 + 2 x 24 ^2.
 2131 = 83 + 2 x 32 ^2.

2133 = 211 + 2 x 31 ^2.
 2135 = 677 + 2 x 27 ^2.
 2137 = 89 + 2 x 32 ^2.
 2139 = 457 + 2 x 29 ^2.
 2141 = 683 + 2 x 27 ^2.
 2143 = 461 + 2 x 29 ^2.
 2145 = 97 + 2 x 32 ^2.
 2147 = 347 + 2 x 30 ^2.
 2149 = 101 + 2 x 32 ^2.
 2151 = 103 + 2 x 32 ^2.
 2153 = 353 + 2 x 30 ^2.
 2155 = 107 + 2 x 32 ^2.
 2157 = 109 + 2 x 32 ^2.
 2159 = 359 + 2 x 30 ^2.
 2161 = 113 + 2 x 32 ^2.
 2163 = 241 + 2 x 31 ^2.
 2165 = 1013 + 2 x 24 ^2.
 2167 = 367 + 2 x 30 ^2.
 2169 = 487 + 2 x 29 ^2.
 2171 = 1019 + 2 x 24 ^2.
 2173 = 251 + 2 x 31 ^2.
 2175 = 127 + 2 x 32 ^2.
 2177 = 719 + 2 x 27 ^2.
 2179 = 131 + 2 x 32 ^2.
 2181 = 3 + 2 x 33 ^2.
 2183 = 5 + 2 x 33 ^2.
 2185 = 7 + 2 x 33 ^2.
 2187 = 139 + 2 x 32 ^2.
 2189 = 11 + 2 x 33 ^2.
 2191 = 13 + 2 x 33 ^2.
 2193 = 271 + 2 x 31 ^2.
 2195 = 17 + 2 x 33 ^2.
 2197 = 19 + 2 x 33 ^2.
 2199 = 151 + 2 x 32 ^2.
 2201 = 23 + 2 x 33 ^2.
 2203 = 281 + 2 x 31 ^2.
 2205 = 157 + 2 x 32 ^2.
 2207 = 29 + 2 x 33 ^2.
 2209 = 31 + 2 x 33 ^2.
 2211 = 163 + 2 x 32 ^2.
 2213 = 1061 + 2 x 24 ^2.
 2215 = 37 + 2 x 33 ^2.
 2217 = 967 + 2 x 25 ^2.
 2219 = 41 + 2 x 33 ^2.
 2221 = 43 + 2 x 33 ^2.
 2223 = 541 + 2 x 29 ^2.
 2225 = 47 + 2 x 33 ^2.
 2227 = 179 + 2 x 32 ^2.
 2229 = 181 + 2 x 32 ^2.
 2231 = 53 + 2 x 33 ^2.
 2233 = 311 + 2 x 31 ^2.
 2235 = 313 + 2 x 31 ^2.
 2237 = 59 + 2 x 33 ^2.
 2239 = 61 + 2 x 33 ^2.
 2241 = 193 + 2 x 32 ^2.
 2243 = 443 + 2 x 30 ^2.
 2245 = 67 + 2 x 33 ^2.
 2247 = 199 + 2 x 32 ^2.
 2249 = 71 + 2 x 33 ^2.
 2251 = 73 + 2 x 33 ^2.
 2253 = 331 + 2 x 31 ^2.
 2255 = 797 + 2 x 27 ^2.
 2257 = 79 + 2 x 33 ^2.
 2259 = 211 + 2 x 32 ^2.

2261 = 83 + 2 x 33 ^2.
 2263 = 463 + 2 x 30 ^2.
 2265 = 1297 + 2 x 22 ^2.
 2267 = 89 + 2 x 33 ^2.
 2269 = 347 + 2 x 31 ^2.
 2271 = 223 + 2 x 32 ^2.
 2273 = 1823 + 2 x 15 ^2.
 2275 = 97 + 2 x 33 ^2.
 2277 = 229 + 2 x 32 ^2.
 2279 = 101 + 2 x 33 ^2.
 2281 = 103 + 2 x 33 ^2.
 2283 = 601 + 2 x 29 ^2.
 2285 = 107 + 2 x 33 ^2.
 2287 = 109 + 2 x 33 ^2.
 2289 = 241 + 2 x 32 ^2.
 2291 = 113 + 2 x 33 ^2.
 2293 = 941 + 2 x 26 ^2.
 2295 = 373 + 2 x 31 ^2.
 2297 = 839 + 2 x 27 ^2.
 2299 = 251 + 2 x 32 ^2.
 2301 = 379 + 2 x 31 ^2.
 2303 = 503 + 2 x 30 ^2.
 2305 = 127 + 2 x 33 ^2.
 2307 = 739 + 2 x 28 ^2.
 2309 = 131 + 2 x 33 ^2.
 2311 = 263 + 2 x 32 ^2.
 2313 = 631 + 2 x 29 ^2.
 2315 = 3 + 2 x 34 ^2.
 2317 = 5 + 2 x 34 ^2.
 2319 = 7 + 2 x 34 ^2.
 2321 = 521 + 2 x 30 ^2.
 2323 = 11 + 2 x 34 ^2.
 2325 = 13 + 2 x 34 ^2.
 2327 = 149 + 2 x 33 ^2.
 2329 = 17 + 2 x 34 ^2.
 2331 = 19 + 2 x 34 ^2.
 2333 = 1181 + 2 x 24 ^2.
 2335 = 23 + 2 x 34 ^2.
 2337 = 769 + 2 x 28 ^2.
 2339 = 881 + 2 x 27 ^2.
 2341 = 29 + 2 x 34 ^2.
 2343 = 31 + 2 x 34 ^2.
 2345 = 167 + 2 x 33 ^2.
 2347 = 547 + 2 x 30 ^2.
 2349 = 37 + 2 x 34 ^2.
 2351 = 173 + 2 x 33 ^2.
 2353 = 41 + 2 x 34 ^2.
 2355 = 43 + 2 x 34 ^2.
 2357 = 179 + 2 x 33 ^2.
 2359 = 47 + 2 x 34 ^2.
 2361 = 313 + 2 x 32 ^2.
 2363 = 563 + 2 x 30 ^2.
 2365 = 53 + 2 x 34 ^2.
 2367 = 1117 + 2 x 25 ^2.
 2369 = 191 + 2 x 33 ^2.
 2371 = 59 + 2 x 34 ^2.
 2373 = 61 + 2 x 34 ^2.
 2375 = 197 + 2 x 33 ^2.
 2377 = 199 + 2 x 33 ^2.
 2379 = 67 + 2 x 34 ^2.
 2381 = 1229 + 2 x 24 ^2.
 2383 = 71 + 2 x 34 ^2.
 2385 = 73 + 2 x 34 ^2.
 2387 = 587 + 2 x 30 ^2.

2389 = 211 + 2 x 33 ^2.
 2391 = 79 + 2 x 34 ^2.
 2393 = 593 + 2 x 30 ^2.
 2395 = 83 + 2 x 34 ^2.
 2397 = 349 + 2 x 32 ^2.
 2399 = 599 + 2 x 30 ^2.
 2401 = 89 + 2 x 34 ^2.
 2403 = 1051 + 2 x 26 ^2.
 2405 = 227 + 2 x 33 ^2.
 2407 = 229 + 2 x 33 ^2.
 2409 = 97 + 2 x 34 ^2.
 2411 = 233 + 2 x 33 ^2.
 2413 = 101 + 2 x 34 ^2.
 2415 = 103 + 2 x 34 ^2.
 2417 = 239 + 2 x 33 ^2.
 2419 = 107 + 2 x 34 ^2.
 2421 = 109 + 2 x 34 ^2.
 2423 = 1973 + 2 x 15 ^2.
 2425 = 113 + 2 x 34 ^2.
 2427 = 379 + 2 x 32 ^2.
 2429 = 251 + 2 x 33 ^2.
 2431 = 383 + 2 x 32 ^2.
 2433 = 751 + 2 x 29 ^2.
 2435 = 257 + 2 x 33 ^2.
 2437 = 389 + 2 x 32 ^2.
 2439 = 127 + 2 x 34 ^2.
 2441 = 263 + 2 x 33 ^2.
 2443 = 131 + 2 x 34 ^2.
 2445 = 397 + 2 x 32 ^2.
 2447 = 269 + 2 x 33 ^2.
 2449 = 137 + 2 x 34 ^2.
 2451 = 139 + 2 x 34 ^2.
 2453 = 3 + 2 x 35 ^2.
 2455 = 5 + 2 x 35 ^2.
 2457 = 7 + 2 x 35 ^2.
 2459 = 281 + 2 x 33 ^2.
 2461 = 11 + 2 x 35 ^2.
 2463 = 13 + 2 x 35 ^2.
 2465 = 1583 + 2 x 21 ^2.
 2467 = 17 + 2 x 35 ^2.
 2469 = 19 + 2 x 35 ^2.
 2471 = 293 + 2 x 33 ^2.
 2473 = 23 + 2 x 35 ^2.
 2475 = 163 + 2 x 34 ^2.
 2477 = 677 + 2 x 30 ^2.
 2479 = 29 + 2 x 35 ^2.
 2481 = 31 + 2 x 35 ^2.
 2483 = 683 + 2 x 30 ^2.
 2485 = 173 + 2 x 34 ^2.
 2487 = 37 + 2 x 35 ^2.
 2489 = 311 + 2 x 33 ^2.
 2491 = 41 + 2 x 35 ^2.
 2493 = 43 + 2 x 35 ^2.
 2495 = 317 + 2 x 33 ^2.
 2497 = 47 + 2 x 35 ^2.
 2499 = 577 + 2 x 31 ^2.
 2501 = 701 + 2 x 30 ^2.
 2503 = 53 + 2 x 35 ^2.
 2505 = 193 + 2 x 34 ^2.
 2507 = 1049 + 2 x 27 ^2.
 2509 = 59 + 2 x 35 ^2.
 2511 = 61 + 2 x 35 ^2.
 2513 = 1361 + 2 x 24 ^2.
 2515 = 337 + 2 x 33 ^2.

2517 = 67 + 2 x 35 ^2.
 2519 = 719 + 2 x 30 ^2.
 2521 = 71 + 2 x 35 ^2.
 2523 = 73 + 2 x 35 ^2.
 2525 = 347 + 2 x 33 ^2.
 2527 = 349 + 2 x 33 ^2.
 2529 = 79 + 2 x 35 ^2.
 2531 = 353 + 2 x 33 ^2.
 2533 = 83 + 2 x 35 ^2.
 2535 = 223 + 2 x 34 ^2.
 2537 = 359 + 2 x 33 ^2.
 2539 = 89 + 2 x 35 ^2.
 2541 = 229 + 2 x 34 ^2.
 2543 = 743 + 2 x 30 ^2.
 2545 = 233 + 2 x 34 ^2.
 2547 = 97 + 2 x 35 ^2.
 2549 = 1091 + 2 x 27 ^2.
 2551 = 101 + 2 x 35 ^2.
 2553 = 103 + 2 x 35 ^2.
 2555 = 1097 + 2 x 27 ^2.
 2557 = 107 + 2 x 35 ^2.
 2559 = 109 + 2 x 35 ^2.
 2561 = 383 + 2 x 33 ^2.
 2563 = 113 + 2 x 35 ^2.
 2565 = 643 + 2 x 31 ^2.
 2567 = 389 + 2 x 33 ^2.
 2569 = 257 + 2 x 34 ^2.
 2571 = 523 + 2 x 32 ^2.
 2573 = 773 + 2 x 30 ^2.
 2575 = 263 + 2 x 34 ^2.
 2577 = 127 + 2 x 35 ^2.
 2579 = 401 + 2 x 33 ^2.
 2581 = 131 + 2 x 35 ^2.
 2583 = 271 + 2 x 34 ^2.
 2585 = 1433 + 2 x 24 ^2.
 2587 = 137 + 2 x 35 ^2.
 2589 = 139 + 2 x 35 ^2.
 2591 = 1439 + 2 x 24 ^2.
 2593 = 281 + 2 x 34 ^2.
 2595 = 3 + 2 x 36 ^2.
 2597 = 5 + 2 x 36 ^2.
 2599 = 7 + 2 x 36 ^2.
 2601 = 151 + 2 x 35 ^2.
 2603 = 11 + 2 x 36 ^2.
 2605 = 13 + 2 x 36 ^2.
 2607 = 157 + 2 x 35 ^2.
 2609 = 17 + 2 x 36 ^2.
 2611 = 19 + 2 x 36 ^2.
 2613 = 163 + 2 x 35 ^2.
 2615 = 23 + 2 x 36 ^2.
 2617 = 167 + 2 x 35 ^2.
 2619 = 307 + 2 x 34 ^2.
 2621 = 29 + 2 x 36 ^2.
 2623 = 31 + 2 x 36 ^2.
 2625 = 313 + 2 x 34 ^2.
 2627 = 449 + 2 x 33 ^2.
 2629 = 37 + 2 x 36 ^2.
 2631 = 181 + 2 x 35 ^2.
 2633 = 41 + 2 x 36 ^2.
 2635 = 43 + 2 x 36 ^2.
 2637 = 1069 + 2 x 28 ^2.
 2639 = 47 + 2 x 36 ^2.
 2641 = 191 + 2 x 35 ^2.
 2643 = 193 + 2 x 35 ^2.

2645 = 53 + 2 x 36 ^2.
 2647 = 197 + 2 x 35 ^2.
 2649 = 199 + 2 x 35 ^2.
 2651 = 59 + 2 x 36 ^2.
 2653 = 61 + 2 x 36 ^2.
 2655 = 607 + 2 x 32 ^2.
 2657 = 479 + 2 x 33 ^2.
 2659 = 67 + 2 x 36 ^2.
 2661 = 211 + 2 x 35 ^2.
 2663 = 71 + 2 x 36 ^2.
 2665 = 73 + 2 x 36 ^2.
 2667 = 619 + 2 x 32 ^2.
 2669 = 491 + 2 x 33 ^2.
 2671 = 79 + 2 x 36 ^2.
 2673 = 223 + 2 x 35 ^2.
 2675 = 83 + 2 x 36 ^2.
 2677 = 227 + 2 x 35 ^2.
 2679 = 229 + 2 x 35 ^2.
 2681 = 89 + 2 x 36 ^2.
 2683 = 233 + 2 x 35 ^2.
 2685 = 373 + 2 x 34 ^2.
 2687 = 509 + 2 x 33 ^2.
 2689 = 97 + 2 x 36 ^2.
 2691 = 241 + 2 x 35 ^2.
 2693 = 101 + 2 x 36 ^2.
 2695 = 103 + 2 x 36 ^2.
 2697 = 1129 + 2 x 28 ^2.
 2699 = 107 + 2 x 36 ^2.
 2701 = 109 + 2 x 36 ^2.
 2703 = 1021 + 2 x 29 ^2.
 2705 = 113 + 2 x 36 ^2.
 2707 = 257 + 2 x 35 ^2.
 2709 = 397 + 2 x 34 ^2.
 2711 = 911 + 2 x 30 ^2.
 2713 = 263 + 2 x 35 ^2.
 2715 = 1033 + 2 x 29 ^2.
 2717 = 1259 + 2 x 27 ^2.
 2719 = 127 + 2 x 36 ^2.
 2721 = 271 + 2 x 35 ^2.
 2723 = 131 + 2 x 36 ^2.
 2725 = 547 + 2 x 33 ^2.
 2727 = 277 + 2 x 35 ^2.
 2729 = 137 + 2 x 36 ^2.
 2731 = 139 + 2 x 36 ^2.
 2733 = 283 + 2 x 35 ^2.
 2735 = 557 + 2 x 33 ^2.
 2737 = 937 + 2 x 30 ^2.
 2739 = 691 + 2 x 32 ^2.
 2741 = 3 + 2 x 37 ^2.
 2743 = 5 + 2 x 37 ^2.
 2745 = 7 + 2 x 37 ^2.
 2747 = 569 + 2 x 33 ^2.
 2749 = 11 + 2 x 37 ^2.
 2751 = 13 + 2 x 37 ^2.
 2753 = 953 + 2 x 30 ^2.
 2755 = 17 + 2 x 37 ^2.
 2757 = 19 + 2 x 37 ^2.
 2759 = 167 + 2 x 36 ^2.
 2761 = 23 + 2 x 37 ^2.
 2763 = 313 + 2 x 35 ^2.
 2765 = 173 + 2 x 36 ^2.
 2767 = 29 + 2 x 37 ^2.
 2769 = 31 + 2 x 37 ^2.
 2771 = 179 + 2 x 36 ^2.

2773 = 181 + 2 x 36 ^2.
 2775 = 37 + 2 x 37 ^2.
 2777 = 599 + 2 x 33 ^2.
 2779 = 41 + 2 x 37 ^2.
 2781 = 43 + 2 x 37 ^2.
 2783 = 191 + 2 x 36 ^2.
 2785 = 47 + 2 x 37 ^2.
 2787 = 337 + 2 x 35 ^2.
 2789 = 197 + 2 x 36 ^2.
 2791 = 53 + 2 x 37 ^2.
 2793 = 1543 + 2 x 25 ^2.
 2795 = 617 + 2 x 33 ^2.
 2797 = 59 + 2 x 37 ^2.
 2799 = 61 + 2 x 37 ^2.
 2801 = 2153 + 2 x 18 ^2.
 2803 = 211 + 2 x 36 ^2.
 2805 = 67 + 2 x 37 ^2.
 2807 = 2357 + 2 x 15 ^2.
 2809 = 71 + 2 x 37 ^2.
 2811 = 73 + 2 x 37 ^2.
 2813 = 1013 + 2 x 30 ^2.
 2815 = 223 + 2 x 36 ^2.
 2817 = 79 + 2 x 37 ^2.
 2819 = 227 + 2 x 36 ^2.
 2821 = 83 + 2 x 37 ^2.
 2823 = 373 + 2 x 35 ^2.
 2825 = 233 + 2 x 36 ^2.
 2827 = 89 + 2 x 37 ^2.
 2829 = 379 + 2 x 35 ^2.
 2831 = 239 + 2 x 36 ^2.
 2833 = 241 + 2 x 36 ^2.
 2835 = 97 + 2 x 37 ^2.
 2837 = 659 + 2 x 33 ^2.
 2839 = 101 + 2 x 37 ^2.
 2841 = 103 + 2 x 37 ^2.
 2843 = 251 + 2 x 36 ^2.
 2845 = 107 + 2 x 37 ^2.
 2847 = 109 + 2 x 37 ^2.
 2849 = 257 + 2 x 36 ^2.
 2851 = 113 + 2 x 37 ^2.
 2853 = 541 + 2 x 34 ^2.
 2855 = 263 + 2 x 36 ^2.
 2857 = 809 + 2 x 32 ^2.
 2859 = 409 + 2 x 35 ^2.
 2861 = 269 + 2 x 36 ^2.
 2863 = 271 + 2 x 36 ^2.
 2865 = 127 + 2 x 37 ^2.
 2867 = 1409 + 2 x 27 ^2.
 2869 = 131 + 2 x 37 ^2.
 2871 = 421 + 2 x 35 ^2.
 2873 = 281 + 2 x 36 ^2.
 2875 = 137 + 2 x 37 ^2.
 2877 = 139 + 2 x 37 ^2.
 2879 = 701 + 2 x 33 ^2.
 2881 = 431 + 2 x 35 ^2.
 2883 = 433 + 2 x 35 ^2.
 2885 = 293 + 2 x 36 ^2.
 2887 = 149 + 2 x 37 ^2.
 2889 = 151 + 2 x 37 ^2.
 2891 = 3 + 2 x 38 ^2.
 2893 = 5 + 2 x 38 ^2.
 2895 = 7 + 2 x 38 ^2.
 2897 = 719 + 2 x 33 ^2.
 2899 = 11 + 2 x 38 ^2.

2901 = 13 + 2 x 38 ^2.
 2903 = 311 + 2 x 36 ^2.
 2905 = 17 + 2 x 38 ^2.
 2907 = 19 + 2 x 38 ^2.
 2909 = 317 + 2 x 36 ^2.
 2911 = 23 + 2 x 38 ^2.
 2913 = 463 + 2 x 35 ^2.
 2915 = 2267 + 2 x 18 ^2.
 2917 = 29 + 2 x 38 ^2.
 2919 = 31 + 2 x 38 ^2.
 2921 = 743 + 2 x 33 ^2.
 2923 = 331 + 2 x 36 ^2.
 2925 = 37 + 2 x 38 ^2.
 2927 = 2477 + 2 x 15 ^2.
 2929 = 41 + 2 x 38 ^2.
 2931 = 43 + 2 x 38 ^2.
 2933 = 2861 + 2 x 6 ^2.
 2935 = 47 + 2 x 38 ^2.
 2937 = 199 + 2 x 37 ^2.
 2939 = 347 + 2 x 36 ^2.
 2941 = 53 + 2 x 38 ^2.
 2943 = 631 + 2 x 34 ^2.
 2945 = 353 + 2 x 36 ^2.
 2947 = 59 + 2 x 38 ^2.
 2949 = 61 + 2 x 38 ^2.
 2951 = 359 + 2 x 36 ^2.
 2953 = 503 + 2 x 35 ^2.
 2955 = 67 + 2 x 38 ^2.
 2957 = 1499 + 2 x 27 ^2.
 2959 = 71 + 2 x 38 ^2.
 2961 = 73 + 2 x 38 ^2.
 2963 = 1163 + 2 x 30 ^2.
 2965 = 227 + 2 x 37 ^2.
 2967 = 79 + 2 x 38 ^2.
 2969 = 1511 + 2 x 27 ^2.
 2971 = 83 + 2 x 38 ^2.
 2973 = 523 + 2 x 35 ^2.
 2975 = 383 + 2 x 36 ^2.
 2977 = 89 + 2 x 38 ^2.
 2979 = 241 + 2 x 37 ^2.
 2981 = 389 + 2 x 36 ^2.
 2983 = 1061 + 2 x 31 ^2.
 2985 = 97 + 2 x 38 ^2.
 2987 = 809 + 2 x 33 ^2.
 2989 = 101 + 2 x 38 ^2.
 2991 = 103 + 2 x 38 ^2.
 2993 = 401 + 2 x 36 ^2.
 2995 = 107 + 2 x 38 ^2.
 2997 = 109 + 2 x 38 ^2.
 2999 = 821 + 2 x 33 ^2.
 3001 = 113 + 2 x 38 ^2.
 3003 = 691 + 2 x 34 ^2.
 3005 = 827 + 2 x 33 ^2.
 3007 = 269 + 2 x 37 ^2.
 3009 = 271 + 2 x 37 ^2.
 3011 = 419 + 2 x 36 ^2.
 3013 = 421 + 2 x 36 ^2.
 3015 = 127 + 2 x 38 ^2.
 3017 = 839 + 2 x 33 ^2.
 3019 = 131 + 2 x 38 ^2.
 3021 = 283 + 2 x 37 ^2.
 3023 = 431 + 2 x 36 ^2.
 3025 = 137 + 2 x 38 ^2.
 3027 = 139 + 2 x 38 ^2.

3029 = 1229 + 2 x 30 ^2.
3031 = 293 + 2 x 37 ^2.
3033 = 1783 + 2 x 25 ^2.
3035 = 443 + 2 x 36 ^2.
3037 = 149 + 2 x 38 ^2.
3039 = 151 + 2 x 38 ^2.
3041 = 449 + 2 x 36 ^2.
3043 = 593 + 2 x 35 ^2.
3045 = 3 + 2 x 39 ^2.
3047 = 5 + 2 x 39 ^2.
3049 = 7 + 2 x 39 ^2.
3051 = 163 + 2 x 38 ^2.
3053 = 11 + 2 x 39 ^2.
3055 = 13 + 2 x 39 ^2.
3057 = 607 + 2 x 35 ^2.
3059 = 17 + 2 x 39 ^2.
3061 = 19 + 2 x 39 ^2.
3063 = 613 + 2 x 35 ^2.
3065 = 23 + 2 x 39 ^2.
3067 = 179 + 2 x 38 ^2.
3069 = 181 + 2 x 38 ^2.
3071 = 29 + 2 x 39 ^2.
3073 = 31 + 2 x 39 ^2.
3075 = 337 + 2 x 37 ^2.
3077 = 1277 + 2 x 30 ^2.
3079 = 37 + 2 x 39 ^2.
3081 = 193 + 2 x 38 ^2.
3083 = 41 + 2 x 39 ^2.
3085 = 43 + 2 x 39 ^2.
3087 = 199 + 2 x 38 ^2.
3089 = 47 + 2 x 39 ^2.
3091 = 353 + 2 x 37 ^2.
3093 = 643 + 2 x 35 ^2.
3095 = 53 + 2 x 39 ^2.
3097 = 359 + 2 x 37 ^2.
3099 = 211 + 2 x 38 ^2.
3101 = 59 + 2 x 39 ^2.
3103 = 61 + 2 x 39 ^2.
3105 = 367 + 2 x 37 ^2.
3107 = 929 + 2 x 33 ^2.
3109 = 67 + 2 x 39 ^2.
3111 = 223 + 2 x 38 ^2.
3113 = 71 + 2 x 39 ^2.
3115 = 73 + 2 x 39 ^2.
3117 = 229 + 2 x 38 ^2.
3119 = 941 + 2 x 33 ^2.
3121 = 79 + 2 x 39 ^2.
3123 = 673 + 2 x 35 ^2.
3125 = 83 + 2 x 39 ^2.
3127 = 239 + 2 x 38 ^2.
3129 = 241 + 2 x 38 ^2.
3131 = 89 + 2 x 39 ^2.
3133 = 541 + 2 x 36 ^2.
3135 = 397 + 2 x 37 ^2.
3137 = 2687 + 2 x 15 ^2.
3139 = 97 + 2 x 39 ^2.
3141 = 691 + 2 x 35 ^2.
3143 = 101 + 2 x 39 ^2.
3145 = 103 + 2 x 39 ^2.
3147 = 409 + 2 x 37 ^2.
3149 = 107 + 2 x 39 ^2.
3151 = 109 + 2 x 39 ^2.
3153 = 1231 + 2 x 31 ^2.
3155 = 113 + 2 x 39 ^2.

3157 = 269 + 2 x 38 ^2.
3159 = 271 + 2 x 38 ^2.
3161 = 569 + 2 x 36 ^2.
3163 = 571 + 2 x 36 ^2.
3165 = 277 + 2 x 38 ^2.
3167 = 1367 + 2 x 30 ^2.
3169 = 127 + 2 x 39 ^2.
3171 = 283 + 2 x 38 ^2.
3173 = 131 + 2 x 39 ^2.
3175 = 863 + 2 x 34 ^2.
3177 = 439 + 2 x 37 ^2.
3179 = 137 + 2 x 39 ^2.
3181 = 139 + 2 x 39 ^2.
3183 = 733 + 2 x 35 ^2.
3185 = 593 + 2 x 36 ^2.
3187 = 449 + 2 x 37 ^2.
3189 = 739 + 2 x 35 ^2.
3191 = 149 + 2 x 39 ^2.
3193 = 151 + 2 x 39 ^2.
3195 = 307 + 2 x 38 ^2.
3197 = 1019 + 2 x 33 ^2.
3199 = 157 + 2 x 39 ^2.
3201 = 313 + 2 x 38 ^2.
3203 = 3 + 2 x 40 ^2.
3205 = 5 + 2 x 40 ^2.
3207 = 7 + 2 x 40 ^2.
3209 = 167 + 2 x 39 ^2.
3211 = 11 + 2 x 40 ^2.
3213 = 13 + 2 x 40 ^2.
3215 = 173 + 2 x 39 ^2.
3217 = 17 + 2 x 40 ^2.
3219 = 19 + 2 x 40 ^2.
3221 = 179 + 2 x 39 ^2.
3223 = 23 + 2 x 40 ^2.
3225 = 337 + 2 x 38 ^2.
3227 = 1049 + 2 x 33 ^2.
3229 = 29 + 2 x 40 ^2.
3231 = 31 + 2 x 40 ^2.
3233 = 191 + 2 x 39 ^2.
3235 = 193 + 2 x 39 ^2.
3237 = 37 + 2 x 40 ^2.
3239 = 197 + 2 x 39 ^2.
3241 = 41 + 2 x 40 ^2.
3243 = 43 + 2 x 40 ^2.
3245 = 653 + 2 x 36 ^2.
3247 = 47 + 2 x 40 ^2.
3249 = 937 + 2 x 34 ^2.
3251 = 659 + 2 x 36 ^2.
3253 = 53 + 2 x 40 ^2.
3255 = 367 + 2 x 38 ^2.
3257 = 2609 + 2 x 18 ^2.
3259 = 59 + 2 x 40 ^2.
3261 = 61 + 2 x 40 ^2.
3263 = 2111 + 2 x 24 ^2.
3265 = 223 + 2 x 39 ^2.
3267 = 67 + 2 x 40 ^2.
3269 = 227 + 2 x 39 ^2.
3271 = 71 + 2 x 40 ^2.
3273 = 73 + 2 x 40 ^2.
3275 = 233 + 2 x 39 ^2.
3277 = 389 + 2 x 38 ^2.
3279 = 79 + 2 x 40 ^2.
3281 = 239 + 2 x 39 ^2.
3283 = 83 + 2 x 40 ^2.

3285 = 397 + 2 x 38 ^2.
3287 = 1109 + 2 x 33 ^2.
3289 = 89 + 2 x 40 ^2.
3291 = 1609 + 2 x 29 ^2.
3293 = 251 + 2 x 39 ^2.
3295 = 557 + 2 x 37 ^2.
3297 = 97 + 2 x 40 ^2.
3299 = 257 + 2 x 39 ^2.
3301 = 101 + 2 x 40 ^2.
3303 = 103 + 2 x 40 ^2.
3305 = 263 + 2 x 39 ^2.
3307 = 107 + 2 x 40 ^2.
3309 = 109 + 2 x 40 ^2.
3311 = 269 + 2 x 39 ^2.
3313 = 113 + 2 x 40 ^2.
3315 = 577 + 2 x 37 ^2.
3317 = 3299 + 2 x 3 ^2.
3319 = 277 + 2 x 39 ^2.
3321 = 433 + 2 x 38 ^2.
3323 = 281 + 2 x 39 ^2.
3325 = 283 + 2 x 39 ^2.
3327 = 127 + 2 x 40 ^2.
3329 = 1151 + 2 x 33 ^2.
3331 = 131 + 2 x 40 ^2.
3333 = 883 + 2 x 35 ^2.
3335 = 293 + 2 x 39 ^2.
3337 = 137 + 2 x 40 ^2.
3339 = 139 + 2 x 40 ^2.
3341 = 1163 + 2 x 33 ^2.
3343 = 751 + 2 x 36 ^2.
3345 = 457 + 2 x 38 ^2.
3347 = 1889 + 2 x 27 ^2.
3349 = 149 + 2 x 40 ^2.
3351 = 151 + 2 x 40 ^2.
3353 = 311 + 2 x 39 ^2.
3355 = 313 + 2 x 39 ^2.
3357 = 157 + 2 x 40 ^2.
3359 = 317 + 2 x 39 ^2.
3361 = 769 + 2 x 36 ^2.
3363 = 163 + 2 x 40 ^2.
3365 = 3 + 2 x 41 ^2.
3367 = 5 + 2 x 41 ^2.
3369 = 7 + 2 x 41 ^2.
3371 = 1193 + 2 x 33 ^2.
3373 = 11 + 2 x 41 ^2.
3375 = 13 + 2 x 41 ^2.
3377 = 2729 + 2 x 18 ^2.
3379 = 17 + 2 x 41 ^2.
3381 = 19 + 2 x 41 ^2.
3383 = 1583 + 2 x 30 ^2.
3385 = 23 + 2 x 41 ^2.
3387 = 499 + 2 x 38 ^2.
3389 = 347 + 2 x 39 ^2.
3391 = 29 + 2 x 41 ^2.
3393 = 31 + 2 x 41 ^2.
3395 = 353 + 2 x 39 ^2.
3397 = 197 + 2 x 40 ^2.
3399 = 37 + 2 x 41 ^2.
3401 = 359 + 2 x 39 ^2.
3403 = 41 + 2 x 41 ^2.
3405 = 43 + 2 x 41 ^2.
3407 = 1229 + 2 x 33 ^2.
3409 = 47 + 2 x 41 ^2.
3411 = 211 + 2 x 40 ^2.

3413 = 821 + 2 x 36 ^2.
3415 = 53 + 2 x 41 ^2.
3417 = 967 + 2 x 35 ^2.
3419 = 827 + 2 x 36 ^2.
3421 = 59 + 2 x 41 ^2.
3423 = 61 + 2 x 41 ^2.
3425 = 383 + 2 x 39 ^2.
3427 = 227 + 2 x 40 ^2.
3429 = 67 + 2 x 41 ^2.
3431 = 389 + 2 x 39 ^2.
3433 = 71 + 2 x 41 ^2.
3435 = 73 + 2 x 41 ^2.
3437 = 1259 + 2 x 33 ^2.
3439 = 239 + 2 x 40 ^2.
3441 = 79 + 2 x 41 ^2.
3443 = 401 + 2 x 39 ^2.
3445 = 83 + 2 x 41 ^2.
3447 = 709 + 2 x 37 ^2.
3449 = 857 + 2 x 36 ^2.
3451 = 89 + 2 x 41 ^2.
3453 = 1531 + 2 x 31 ^2.
3455 = 863 + 2 x 36 ^2.
3457 = 257 + 2 x 40 ^2.
3459 = 97 + 2 x 41 ^2.
3461 = 419 + 2 x 39 ^2.
3463 = 101 + 2 x 41 ^2.
3465 = 103 + 2 x 41 ^2.
3467 = 1289 + 2 x 33 ^2.
3469 = 107 + 2 x 41 ^2.
3471 = 109 + 2 x 41 ^2.
3473 = 431 + 2 x 39 ^2.
3475 = 113 + 2 x 41 ^2.
3477 = 277 + 2 x 40 ^2.
3479 = 887 + 2 x 36 ^2.
3481 = 281 + 2 x 40 ^2.
3483 = 283 + 2 x 40 ^2.
3485 = 443 + 2 x 39 ^2.
3487 = 599 + 2 x 38 ^2.
3489 = 127 + 2 x 41 ^2.
3491 = 449 + 2 x 39 ^2.
3493 = 131 + 2 x 41 ^2.
3495 = 607 + 2 x 38 ^2.
3497 = 1319 + 2 x 33 ^2.
3499 = 137 + 2 x 41 ^2.
3501 = 139 + 2 x 41 ^2.
3503 = 461 + 2 x 39 ^2.
3505 = 463 + 2 x 39 ^2.
3507 = 307 + 2 x 40 ^2.
3509 = 467 + 2 x 39 ^2.
3511 = 149 + 2 x 41 ^2.
3513 = 151 + 2 x 41 ^2.
3515 = 2633 + 2 x 21 ^2.
3517 = 317 + 2 x 40 ^2.
3519 = 157 + 2 x 41 ^2.
3521 = 479 + 2 x 39 ^2.
3523 = 1601 + 2 x 31 ^2.
3525 = 163 + 2 x 41 ^2.
3527 = 2069 + 2 x 27 ^2.
3529 = 167 + 2 x 41 ^2.
3531 = 3 + 2 x 42 ^2.
3533 = 5 + 2 x 42 ^2.
3535 = 7 + 2 x 42 ^2.
3537 = 337 + 2 x 40 ^2.
3539 = 11 + 2 x 42 ^2.

3541 = 13 + 2 x 42 ^2.
 3543 = 181 + 2 x 41 ^2.
 3545 = 17 + 2 x 42 ^2.
 3547 = 19 + 2 x 42 ^2.
 3549 = 349 + 2 x 40 ^2.
 3551 = 23 + 2 x 42 ^2.
 3553 = 191 + 2 x 41 ^2.
 3555 = 193 + 2 x 41 ^2.
 3557 = 29 + 2 x 42 ^2.
 3559 = 31 + 2 x 42 ^2.
 3561 = 199 + 2 x 41 ^2.
 3563 = 521 + 2 x 39 ^2.
 3565 = 37 + 2 x 42 ^2.
 3567 = 367 + 2 x 40 ^2.
 3569 = 41 + 2 x 42 ^2.
 3571 = 43 + 2 x 42 ^2.
 3573 = 211 + 2 x 41 ^2.
 3575 = 47 + 2 x 42 ^2.
 3577 = 839 + 2 x 37 ^2.
 3579 = 379 + 2 x 40 ^2.
 3581 = 53 + 2 x 42 ^2.
 3583 = 383 + 2 x 40 ^2.
 3585 = 223 + 2 x 41 ^2.
 3587 = 59 + 2 x 42 ^2.
 3589 = 61 + 2 x 42 ^2.
 3591 = 229 + 2 x 41 ^2.
 3593 = 2441 + 2 x 24 ^2.
 3595 = 67 + 2 x 42 ^2.
 3597 = 397 + 2 x 40 ^2.
 3599 = 71 + 2 x 42 ^2.
 3601 = 73 + 2 x 42 ^2.
 3603 = 241 + 2 x 41 ^2.
 3605 = 563 + 2 x 39 ^2.
 3607 = 79 + 2 x 42 ^2.
 3609 = 409 + 2 x 40 ^2.
 3611 = 83 + 2 x 42 ^2.
 3613 = 251 + 2 x 41 ^2.
 3615 = 727 + 2 x 38 ^2.
 3617 = 89 + 2 x 42 ^2.
 3619 = 257 + 2 x 41 ^2.
 3621 = 421 + 2 x 40 ^2.
 3623 = 1031 + 2 x 36 ^2.
 3625 = 97 + 2 x 42 ^2.
 3627 = 739 + 2 x 38 ^2.
 3629 = 101 + 2 x 42 ^2.
 3631 = 103 + 2 x 42 ^2.
 3633 = 271 + 2 x 41 ^2.
 3635 = 107 + 2 x 42 ^2.
 3637 = 109 + 2 x 42 ^2.
 3639 = 277 + 2 x 41 ^2.
 3641 = 113 + 2 x 42 ^2.
 3643 = 281 + 2 x 41 ^2.
 3645 = 283 + 2 x 41 ^2.
 3647 = 1847 + 2 x 30 ^2.
 3649 = 449 + 2 x 40 ^2.
 3651 = 1201 + 2 x 35 ^2.
 3653 = 1061 + 2 x 36 ^2.
 3655 = 127 + 2 x 42 ^2.
 3657 = 457 + 2 x 40 ^2.
 3659 = 131 + 2 x 42 ^2.
 3661 = 461 + 2 x 40 ^2.
 3663 = 463 + 2 x 40 ^2.
 3665 = 137 + 2 x 42 ^2.
 3667 = 139 + 2 x 42 ^2.

3669 = 307 + 2 x 41 ^2.
3671 = 1493 + 2 x 33 ^2.
3673 = 311 + 2 x 41 ^2.
3675 = 313 + 2 x 41 ^2.
3677 = 149 + 2 x 42 ^2.
3679 = 151 + 2 x 42 ^2.
3681 = 1231 + 2 x 35 ^2.
3683 = 641 + 2 x 39 ^2.
3685 = 157 + 2 x 42 ^2.
3687 = 487 + 2 x 40 ^2.
3689 = 647 + 2 x 39 ^2.
3691 = 163 + 2 x 42 ^2.
3693 = 331 + 2 x 41 ^2.
3695 = 167 + 2 x 42 ^2.
3697 = 809 + 2 x 38 ^2.
3699 = 337 + 2 x 41 ^2.
3701 = 3 + 2 x 43 ^2.
3703 = 5 + 2 x 43 ^2.
3705 = 7 + 2 x 43 ^2.
3707 = 179 + 2 x 42 ^2.
3709 = 11 + 2 x 43 ^2.
3711 = 13 + 2 x 43 ^2.
3713 = 1913 + 2 x 30 ^2.
3715 = 17 + 2 x 43 ^2.
3717 = 19 + 2 x 43 ^2.
3719 = 191 + 2 x 42 ^2.
3721 = 23 + 2 x 43 ^2.
3723 = 523 + 2 x 40 ^2.
3725 = 197 + 2 x 42 ^2.
3727 = 29 + 2 x 43 ^2.
3729 = 31 + 2 x 43 ^2.
3731 = 1553 + 2 x 33 ^2.
3733 = 691 + 2 x 39 ^2.
3735 = 37 + 2 x 43 ^2.
3737 = 1559 + 2 x 33 ^2.
3739 = 41 + 2 x 43 ^2.
3741 = 43 + 2 x 43 ^2.
3743 = 701 + 2 x 39 ^2.
3745 = 47 + 2 x 43 ^2.
3747 = 547 + 2 x 40 ^2.
3749 = 1571 + 2 x 33 ^2.
3751 = 53 + 2 x 43 ^2.
3753 = 1303 + 2 x 35 ^2.
3755 = 227 + 2 x 42 ^2.
3757 = 59 + 2 x 43 ^2.
3759 = 61 + 2 x 43 ^2.
3761 = 233 + 2 x 42 ^2.
3763 = 401 + 2 x 41 ^2.
3765 = 67 + 2 x 43 ^2.
3767 = 239 + 2 x 42 ^2.
3769 = 71 + 2 x 43 ^2.
3771 = 73 + 2 x 43 ^2.
3773 = 1181 + 2 x 36 ^2.
3775 = 733 + 2 x 39 ^2.
3777 = 79 + 2 x 43 ^2.
3779 = 251 + 2 x 42 ^2.
3781 = 83 + 2 x 43 ^2.
3783 = 421 + 2 x 41 ^2.
3785 = 257 + 2 x 42 ^2.
3787 = 89 + 2 x 43 ^2.
3789 = 1051 + 2 x 37 ^2.
3791 = 263 + 2 x 42 ^2.
3793 = 431 + 2 x 41 ^2.
3795 = 97 + 2 x 43 ^2.

3797 = 269 + 2 x 42 ^2.
 3799 = 101 + 2 x 43 ^2.
 3801 = 103 + 2 x 43 ^2.
 3803 = 761 + 2 x 39 ^2.
 3805 = 107 + 2 x 43 ^2.
 3807 = 109 + 2 x 43 ^2.
 3809 = 281 + 2 x 42 ^2.
 3811 = 113 + 2 x 43 ^2.
 3813 = 613 + 2 x 40 ^2.
 3815 = 773 + 2 x 39 ^2.
 3817 = 617 + 2 x 40 ^2.
 3819 = 457 + 2 x 41 ^2.
 3821 = 293 + 2 x 42 ^2.
 3823 = 461 + 2 x 41 ^2.
 3825 = 127 + 2 x 43 ^2.
 3827 = 2027 + 2 x 30 ^2.
 3829 = 131 + 2 x 43 ^2.
 3831 = 631 + 2 x 40 ^2.
 3833 = 3671 + 2 x 9 ^2.
 3835 = 137 + 2 x 43 ^2.
 3837 = 139 + 2 x 43 ^2.
 3839 = 311 + 2 x 42 ^2.
 3841 = 313 + 2 x 42 ^2.
 3843 = 643 + 2 x 40 ^2.
 3845 = 317 + 2 x 42 ^2.
 3847 = 149 + 2 x 43 ^2.
 3849 = 151 + 2 x 43 ^2.
 3851 = 809 + 2 x 39 ^2.
 3853 = 491 + 2 x 41 ^2.
 3855 = 157 + 2 x 43 ^2.
 3857 = 2399 + 2 x 27 ^2.
 3859 = 331 + 2 x 42 ^2.
 3861 = 163 + 2 x 43 ^2.
 3863 = 821 + 2 x 39 ^2.
 3865 = 167 + 2 x 43 ^2.
 3867 = 1129 + 2 x 37 ^2.
 3869 = 827 + 2 x 39 ^2.
 3871 = 173 + 2 x 43 ^2.
 3873 = 673 + 2 x 40 ^2.
 3875 = 3 + 2 x 44 ^2.
 3877 = 5 + 2 x 44 ^2.
 3879 = 7 + 2 x 44 ^2.
 3881 = 353 + 2 x 42 ^2.
 3883 = 11 + 2 x 44 ^2.
 3885 = 13 + 2 x 44 ^2.
 3887 = 359 + 2 x 42 ^2.
 3889 = 17 + 2 x 44 ^2.
 3891 = 19 + 2 x 44 ^2.
 3893 = 1301 + 2 x 36 ^2.
 3895 = 23 + 2 x 44 ^2.
 3897 = 199 + 2 x 43 ^2.
 3899 = 857 + 2 x 39 ^2.
 3901 = 29 + 2 x 44 ^2.
 3903 = 31 + 2 x 44 ^2.
 3905 = 863 + 2 x 39 ^2.
 3907 = 379 + 2 x 42 ^2.
 3909 = 37 + 2 x 44 ^2.
 3911 = 383 + 2 x 42 ^2.
 3913 = 41 + 2 x 44 ^2.
 3915 = 43 + 2 x 44 ^2.
 3917 = 389 + 2 x 42 ^2.
 3919 = 47 + 2 x 44 ^2.
 3921 = 223 + 2 x 43 ^2.
 3923 = 881 + 2 x 39 ^2.

3925 = 53 + 2 x 44 ^2.
 3927 = 229 + 2 x 43 ^2.
 3929 = 401 + 2 x 42 ^2.
 3931 = 59 + 2 x 44 ^2.
 3933 = 61 + 2 x 44 ^2.
 3935 = 2477 + 2 x 27 ^2.
 3937 = 239 + 2 x 43 ^2.
 3939 = 67 + 2 x 44 ^2.
 3941 = 2141 + 2 x 30 ^2.
 3943 = 71 + 2 x 44 ^2.
 3945 = 73 + 2 x 44 ^2.
 3947 = 419 + 2 x 42 ^2.
 3949 = 251 + 2 x 43 ^2.
 3951 = 79 + 2 x 44 ^2.
 3953 = 911 + 2 x 39 ^2.
 3955 = 83 + 2 x 44 ^2.
 3957 = 757 + 2 x 40 ^2.
 3959 = 431 + 2 x 42 ^2.
 3961 = 89 + 2 x 44 ^2.
 3963 = 601 + 2 x 41 ^2.
 3965 = 1373 + 2 x 36 ^2.
 3967 = 269 + 2 x 43 ^2.
 3969 = 97 + 2 x 44 ^2.
 3971 = 443 + 2 x 42 ^2.
 3973 = 101 + 2 x 44 ^2.
 3975 = 103 + 2 x 44 ^2.
 3977 = 449 + 2 x 42 ^2.
 3979 = 107 + 2 x 44 ^2.
 3981 = 109 + 2 x 44 ^2.
 3983 = 941 + 2 x 39 ^2.
 3985 = 113 + 2 x 44 ^2.
 3987 = 787 + 2 x 40 ^2.
 3989 = 461 + 2 x 42 ^2.
 3991 = 293 + 2 x 43 ^2.
 3993 = 631 + 2 x 41 ^2.
 3995 = 467 + 2 x 42 ^2.
 3997 = 797 + 2 x 40 ^2.
 3999 = 127 + 2 x 44 ^2.
 4001 = 1409 + 2 x 36 ^2.
 4003 = 131 + 2 x 44 ^2.
 4005 = 307 + 2 x 43 ^2.
 4007 = 479 + 2 x 42 ^2.
 4009 = 137 + 2 x 44 ^2.
 4011 = 139 + 2 x 44 ^2.
 4013 = 971 + 2 x 39 ^2.
 4015 = 317 + 2 x 43 ^2.
 4017 = 1129 + 2 x 38 ^2.
 4019 = 491 + 2 x 42 ^2.
 4021 = 149 + 2 x 44 ^2.
 4023 = 151 + 2 x 44 ^2.
 4025 = 983 + 2 x 39 ^2.
 4027 = 499 + 2 x 42 ^2.
 4029 = 157 + 2 x 44 ^2.
 4031 = 503 + 2 x 42 ^2.
 4033 = 991 + 2 x 39 ^2.
 4035 = 163 + 2 x 44 ^2.
 4037 = 509 + 2 x 42 ^2.
 4039 = 167 + 2 x 44 ^2.
 4041 = 1153 + 2 x 38 ^2.
 4043 = 1451 + 2 x 36 ^2.
 4045 = 173 + 2 x 44 ^2.
 4047 = 349 + 2 x 43 ^2.
 4049 = 521 + 2 x 42 ^2.
 4051 = 179 + 2 x 44 ^2.

4053 = 3 + 2 x 45 ^2.
 4055 = 5 + 2 x 45 ^2.
 4057 = 7 + 2 x 45 ^2.
 4059 = 859 + 2 x 40 ^2.
 4061 = 11 + 2 x 45 ^2.
 4063 = 13 + 2 x 45 ^2.
 4065 = 193 + 2 x 44 ^2.
 4067 = 17 + 2 x 45 ^2.
 4069 = 19 + 2 x 45 ^2.
 4071 = 199 + 2 x 44 ^2.
 4073 = 23 + 2 x 45 ^2.
 4075 = 547 + 2 x 42 ^2.
 4077 = 379 + 2 x 43 ^2.
 4079 = 29 + 2 x 45 ^2.
 4081 = 31 + 2 x 45 ^2.
 4083 = 211 + 2 x 44 ^2.
 4085 = 557 + 2 x 42 ^2.
 4087 = 37 + 2 x 45 ^2.
 4089 = 727 + 2 x 41 ^2.
 4091 = 41 + 2 x 45 ^2.
 4093 = 43 + 2 x 45 ^2.
 4095 = 223 + 2 x 44 ^2.
 4097 = 47 + 2 x 45 ^2.
 4099 = 227 + 2 x 44 ^2.
 4101 = 229 + 2 x 44 ^2.
 4103 = 53 + 2 x 45 ^2.
 4105 = 233 + 2 x 44 ^2.
 4107 = 409 + 2 x 43 ^2.
 4109 = 59 + 2 x 45 ^2.
 4111 = 61 + 2 x 45 ^2.
 4113 = 241 + 2 x 44 ^2.
 4115 = 587 + 2 x 42 ^2.
 4117 = 67 + 2 x 45 ^2.
 4119 = 421 + 2 x 43 ^2.
 4121 = 71 + 2 x 45 ^2.
 4123 = 73 + 2 x 45 ^2.
 4125 = 1237 + 2 x 38 ^2.
 4127 = 599 + 2 x 42 ^2.
 4129 = 79 + 2 x 45 ^2.
 4131 = 433 + 2 x 43 ^2.
 4133 = 83 + 2 x 45 ^2.
 4135 = 263 + 2 x 44 ^2.
 4137 = 439 + 2 x 43 ^2.
 4139 = 89 + 2 x 45 ^2.
 4141 = 269 + 2 x 44 ^2.
 4143 = 271 + 2 x 44 ^2.
 4145 = 617 + 2 x 42 ^2.
 4147 = 97 + 2 x 45 ^2.
 4149 = 277 + 2 x 44 ^2.
 4151 = 101 + 2 x 45 ^2.
 4153 = 103 + 2 x 45 ^2.
 4155 = 283 + 2 x 44 ^2.
 4157 = 107 + 2 x 45 ^2.
 4159 = 109 + 2 x 45 ^2.
 4161 = 463 + 2 x 43 ^2.
 4163 = 113 + 2 x 45 ^2.
 4165 = 293 + 2 x 44 ^2.
 4167 = 967 + 2 x 40 ^2.
 4169 = 641 + 2 x 42 ^2.
 4171 = 643 + 2 x 42 ^2.
 4173 = 811 + 2 x 41 ^2.
 4175 = 647 + 2 x 42 ^2.
 4177 = 127 + 2 x 45 ^2.
 4179 = 307 + 2 x 44 ^2.

4181 = 131 + 2 x 45 ^2.
 4183 = 311 + 2 x 44 ^2.
 4185 = 313 + 2 x 44 ^2.
 4187 = 137 + 2 x 45 ^2.
 4189 = 139 + 2 x 45 ^2.
 4191 = 829 + 2 x 41 ^2.
 4193 = 1151 + 2 x 39 ^2.
 4195 = 1153 + 2 x 39 ^2.
 4197 = 499 + 2 x 43 ^2.
 4199 = 149 + 2 x 45 ^2.
 4201 = 151 + 2 x 45 ^2.
 4203 = 331 + 2 x 44 ^2.
 4205 = 677 + 2 x 42 ^2.
 4207 = 157 + 2 x 45 ^2.
 4209 = 337 + 2 x 44 ^2.
 4211 = 683 + 2 x 42 ^2.
 4213 = 163 + 2 x 45 ^2.
 4215 = 853 + 2 x 41 ^2.
 4217 = 167 + 2 x 45 ^2.
 4219 = 347 + 2 x 44 ^2.
 4221 = 349 + 2 x 44 ^2.
 4223 = 173 + 2 x 45 ^2.
 4225 = 353 + 2 x 44 ^2.
 4227 = 1489 + 2 x 37 ^2.
 4229 = 179 + 2 x 45 ^2.
 4231 = 181 + 2 x 45 ^2.
 4233 = 1033 + 2 x 40 ^2.
 4235 = 3 + 2 x 46 ^2.
 4237 = 5 + 2 x 46 ^2.
 4239 = 7 + 2 x 46 ^2.
 4241 = 191 + 2 x 45 ^2.
 4243 = 11 + 2 x 46 ^2.
 4245 = 13 + 2 x 46 ^2.
 4247 = 197 + 2 x 45 ^2.
 4249 = 17 + 2 x 46 ^2.
 4251 = 19 + 2 x 46 ^2.
 4253 = 3371 + 2 x 21 ^2.
 4255 = 23 + 2 x 46 ^2.
 4257 = 2689 + 2 x 28 ^2.
 4259 = 1217 + 2 x 39 ^2.
 4261 = 29 + 2 x 46 ^2.
 4263 = 31 + 2 x 46 ^2.
 4265 = 1223 + 2 x 39 ^2.
 4267 = 569 + 2 x 43 ^2.
 4269 = 37 + 2 x 46 ^2.
 4271 = 743 + 2 x 42 ^2.
 4273 = 41 + 2 x 46 ^2.
 4275 = 43 + 2 x 46 ^2.
 4277 = 227 + 2 x 45 ^2.
 4279 = 47 + 2 x 46 ^2.
 4281 = 409 + 2 x 44 ^2.
 4283 = 233 + 2 x 45 ^2.
 4285 = 53 + 2 x 46 ^2.
 4287 = 1087 + 2 x 40 ^2.
 4289 = 239 + 2 x 45 ^2.
 4291 = 59 + 2 x 46 ^2.
 4293 = 61 + 2 x 46 ^2.
 4295 = 2837 + 2 x 27 ^2.
 4297 = 599 + 2 x 43 ^2.
 4299 = 67 + 2 x 46 ^2.
 4301 = 251 + 2 x 45 ^2.
 4303 = 71 + 2 x 46 ^2.
 4305 = 73 + 2 x 46 ^2.
 4307 = 257 + 2 x 45 ^2.

4309 = 947 + 2 x 41 ^2.
 4311 = 79 + 2 x 46 ^2.
 4313 = 263 + 2 x 45 ^2.
 4315 = 83 + 2 x 46 ^2.
 4317 = 619 + 2 x 43 ^2.
 4319 = 269 + 2 x 45 ^2.
 4321 = 89 + 2 x 46 ^2.
 4323 = 1123 + 2 x 40 ^2.
 4325 = 797 + 2 x 42 ^2.
 4327 = 277 + 2 x 45 ^2.
 4329 = 97 + 2 x 46 ^2.
 4331 = 281 + 2 x 45 ^2.
 4333 = 101 + 2 x 46 ^2.
 4335 = 103 + 2 x 46 ^2.
 4337 = 809 + 2 x 42 ^2.
 4339 = 107 + 2 x 46 ^2.
 4341 = 109 + 2 x 46 ^2.
 4343 = 293 + 2 x 45 ^2.
 4345 = 113 + 2 x 46 ^2.
 4347 = 1459 + 2 x 38 ^2.
 4349 = 821 + 2 x 42 ^2.
 4351 = 479 + 2 x 44 ^2.
 4353 = 991 + 2 x 41 ^2.
 4355 = 827 + 2 x 42 ^2.
 4357 = 307 + 2 x 45 ^2.
 4359 = 127 + 2 x 46 ^2.
 4361 = 311 + 2 x 45 ^2.
 4363 = 131 + 2 x 46 ^2.
 4365 = 1627 + 2 x 37 ^2.
 4367 = 317 + 2 x 45 ^2.
 4369 = 137 + 2 x 46 ^2.
 4371 = 139 + 2 x 46 ^2.
 4373 = 3221 + 2 x 24 ^2.
 4375 = 503 + 2 x 44 ^2.
 4377 = 1489 + 2 x 38 ^2.
 4379 = 1787 + 2 x 36 ^2.
 4381 = 149 + 2 x 46 ^2.
 4383 = 151 + 2 x 46 ^2.
 4385 = 857 + 2 x 42 ^2.
 4387 = 337 + 2 x 45 ^2.
 4389 = 157 + 2 x 46 ^2.
 4391 = 863 + 2 x 42 ^2.
 4393 = 521 + 2 x 44 ^2.
 4395 = 163 + 2 x 46 ^2.
 4397 = 347 + 2 x 45 ^2.
 4399 = 167 + 2 x 46 ^2.
 4401 = 1039 + 2 x 41 ^2.
 4403 = 353 + 2 x 45 ^2.
 4405 = 173 + 2 x 46 ^2.
 4407 = 709 + 2 x 43 ^2.
 4409 = 359 + 2 x 45 ^2.
 4411 = 179 + 2 x 46 ^2.
 4413 = 181 + 2 x 46 ^2.
 4415 = 887 + 2 x 42 ^2.
 4417 = 367 + 2 x 45 ^2.
 4419 = 547 + 2 x 44 ^2.
 4421 = 3 + 2 x 47 ^2.
 4423 = 5 + 2 x 47 ^2.
 4425 = 7 + 2 x 47 ^2.
 4427 = 2969 + 2 x 27 ^2.
 4429 = 11 + 2 x 47 ^2.
 4431 = 13 + 2 x 47 ^2.
 4433 = 383 + 2 x 45 ^2.
 4435 = 17 + 2 x 47 ^2.

4437 = 19 + 2 x 47 ^2.
 4439 = 389 + 2 x 45 ^2.
 4441 = 23 + 2 x 47 ^2.
 4443 = 211 + 2 x 46 ^2.
 4445 = 2267 + 2 x 33 ^2.
 4447 = 29 + 2 x 47 ^2.
 4449 = 31 + 2 x 47 ^2.
 4451 = 401 + 2 x 45 ^2.
 4453 = 1091 + 2 x 41 ^2.
 4455 = 37 + 2 x 47 ^2.
 4457 = 929 + 2 x 42 ^2.
 4459 = 41 + 2 x 47 ^2.
 4461 = 43 + 2 x 47 ^2.
 4463 = 1871 + 2 x 36 ^2.
 4465 = 47 + 2 x 47 ^2.
 4467 = 769 + 2 x 43 ^2.
 4469 = 419 + 2 x 45 ^2.
 4471 = 53 + 2 x 47 ^2.
 4473 = 241 + 2 x 46 ^2.
 4475 = 947 + 2 x 42 ^2.
 4477 = 59 + 2 x 47 ^2.
 4479 = 61 + 2 x 47 ^2.
 4481 = 431 + 2 x 45 ^2.
 4483 = 251 + 2 x 46 ^2.
 4485 = 67 + 2 x 47 ^2.
 4487 = 2309 + 2 x 33 ^2.
 4489 = 71 + 2 x 47 ^2.
 4491 = 73 + 2 x 47 ^2.
 4493 = 443 + 2 x 45 ^2.
 4495 = 263 + 2 x 46 ^2.
 4497 = 79 + 2 x 47 ^2.
 4499 = 449 + 2 x 45 ^2.
 4501 = 83 + 2 x 47 ^2.
 4503 = 271 + 2 x 46 ^2.
 4505 = 977 + 2 x 42 ^2.
 4507 = 89 + 2 x 47 ^2.
 4509 = 277 + 2 x 46 ^2.
 4511 = 461 + 2 x 45 ^2.
 4513 = 281 + 2 x 46 ^2.
 4515 = 97 + 2 x 47 ^2.
 4517 = 467 + 2 x 45 ^2.
 4519 = 101 + 2 x 47 ^2.
 4521 = 103 + 2 x 47 ^2.
 4523 = 1481 + 2 x 39 ^2.
 4525 = 107 + 2 x 47 ^2.
 4527 = 109 + 2 x 47 ^2.
 4529 = 479 + 2 x 45 ^2.
 4531 = 113 + 2 x 47 ^2.
 4533 = 661 + 2 x 44 ^2.
 4535 = 1493 + 2 x 39 ^2.
 4537 = 487 + 2 x 45 ^2.
 4539 = 307 + 2 x 46 ^2.
 4541 = 491 + 2 x 45 ^2.
 4543 = 311 + 2 x 46 ^2.
 4545 = 127 + 2 x 47 ^2.
 4547 = 1019 + 2 x 42 ^2.
 4549 = 131 + 2 x 47 ^2.
 4551 = 853 + 2 x 43 ^2.
 4553 = 503 + 2 x 45 ^2.
 4555 = 137 + 2 x 47 ^2.
 4557 = 139 + 2 x 47 ^2.
 4559 = 509 + 2 x 45 ^2.
 4561 = 863 + 2 x 43 ^2.
 4563 = 331 + 2 x 46 ^2.

4565 = 1523 + 2 x 39 ^2.
 4567 = 149 + 2 x 47 ^2.
 4569 = 151 + 2 x 47 ^2.
 4571 = 521 + 2 x 45 ^2.
 4573 = 523 + 2 x 45 ^2.
 4575 = 157 + 2 x 47 ^2.
 4577 = 1049 + 2 x 42 ^2.
 4579 = 347 + 2 x 46 ^2.
 4581 = 163 + 2 x 47 ^2.
 4583 = 3701 + 2 x 21 ^2.
 4585 = 167 + 2 x 47 ^2.
 4587 = 1699 + 2 x 38 ^2.
 4589 = 1061 + 2 x 42 ^2.
 4591 = 173 + 2 x 47 ^2.
 4593 = 1231 + 2 x 41 ^2.
 4595 = 1553 + 2 x 39 ^2.
 4597 = 179 + 2 x 47 ^2.
 4599 = 181 + 2 x 47 ^2.
 4601 = 1559 + 2 x 39 ^2.
 4603 = 2011 + 2 x 36 ^2.
 4605 = 373 + 2 x 46 ^2.
 4607 = 557 + 2 x 45 ^2.
 4609 = 191 + 2 x 47 ^2.
 4611 = 3 + 2 x 48 ^2.
 4613 = 5 + 2 x 48 ^2.
 4615 = 7 + 2 x 48 ^2.
 4617 = 199 + 2 x 47 ^2.
 4619 = 11 + 2 x 48 ^2.
 4621 = 13 + 2 x 48 ^2.
 4623 = 751 + 2 x 44 ^2.
 4625 = 17 + 2 x 48 ^2.
 4627 = 19 + 2 x 48 ^2.
 4629 = 211 + 2 x 47 ^2.
 4631 = 23 + 2 x 48 ^2.
 4633 = 401 + 2 x 46 ^2.
 4635 = 937 + 2 x 43 ^2.
 4637 = 29 + 2 x 48 ^2.
 4639 = 31 + 2 x 48 ^2.
 4641 = 223 + 2 x 47 ^2.
 4643 = 593 + 2 x 45 ^2.
 4645 = 37 + 2 x 48 ^2.
 4647 = 229 + 2 x 47 ^2.
 4649 = 41 + 2 x 48 ^2.
 4651 = 43 + 2 x 48 ^2.
 4653 = 421 + 2 x 46 ^2.
 4655 = 47 + 2 x 48 ^2.
 4657 = 239 + 2 x 47 ^2.
 4659 = 241 + 2 x 47 ^2.
 4661 = 53 + 2 x 48 ^2.
 4663 = 431 + 2 x 46 ^2.
 4665 = 433 + 2 x 46 ^2.
 4667 = 59 + 2 x 48 ^2.
 4669 = 61 + 2 x 48 ^2.
 4671 = 439 + 2 x 46 ^2.
 4673 = 2081 + 2 x 36 ^2.
 4675 = 67 + 2 x 48 ^2.
 4677 = 1789 + 2 x 38 ^2.
 4679 = 71 + 2 x 48 ^2.
 4681 = 73 + 2 x 48 ^2.
 4683 = 811 + 2 x 44 ^2.
 4685 = 3533 + 2 x 24 ^2.
 4687 = 79 + 2 x 48 ^2.
 4689 = 271 + 2 x 47 ^2.
 4691 = 83 + 2 x 48 ^2.

4693 = 461 + 2 x 46 ^2.
 4695 = 277 + 2 x 47 ^2.
 4697 = 89 + 2 x 48 ^2.
 4699 = 281 + 2 x 47 ^2.
 4701 = 283 + 2 x 47 ^2.
 4703 = 653 + 2 x 45 ^2.
 4705 = 97 + 2 x 48 ^2.
 4707 = 1009 + 2 x 43 ^2.
 4709 = 101 + 2 x 48 ^2.
 4711 = 103 + 2 x 48 ^2.
 4713 = 2791 + 2 x 31 ^2.
 4715 = 107 + 2 x 48 ^2.
 4717 = 109 + 2 x 48 ^2.
 4719 = 487 + 2 x 46 ^2.
 4721 = 113 + 2 x 48 ^2.
 4723 = 491 + 2 x 46 ^2.
 4725 = 307 + 2 x 47 ^2.
 4727 = 677 + 2 x 45 ^2.
 4729 = 311 + 2 x 47 ^2.
 4731 = 313 + 2 x 47 ^2.
 4733 = 683 + 2 x 45 ^2.
 4735 = 127 + 2 x 48 ^2.
 4737 = 1039 + 2 x 43 ^2.
 4739 = 131 + 2 x 48 ^2.
 4741 = 509 + 2 x 46 ^2.
 4743 = 1381 + 2 x 41 ^2.
 4745 = 137 + 2 x 48 ^2.
 4747 = 139 + 2 x 48 ^2.
 4749 = 331 + 2 x 47 ^2.
 4751 = 701 + 2 x 45 ^2.
 4753 = 521 + 2 x 46 ^2.
 4755 = 337 + 2 x 47 ^2.
 4757 = 149 + 2 x 48 ^2.
 4759 = 151 + 2 x 48 ^2.
 4761 = 1063 + 2 x 43 ^2.
 4763 = 1721 + 2 x 39 ^2.
 4765 = 157 + 2 x 48 ^2.
 4767 = 349 + 2 x 47 ^2.
 4769 = 719 + 2 x 45 ^2.
 4771 = 163 + 2 x 48 ^2.
 4773 = 541 + 2 x 46 ^2.
 4775 = 167 + 2 x 48 ^2.
 4777 = 359 + 2 x 47 ^2.
 4779 = 547 + 2 x 46 ^2.
 4781 = 173 + 2 x 48 ^2.
 4783 = 733 + 2 x 45 ^2.
 4785 = 367 + 2 x 47 ^2.
 4787 = 179 + 2 x 48 ^2.
 4789 = 181 + 2 x 48 ^2.
 4791 = 373 + 2 x 47 ^2.
 4793 = 743 + 2 x 45 ^2.
 4795 = 563 + 2 x 46 ^2.
 4797 = 379 + 2 x 47 ^2.
 4799 = 191 + 2 x 48 ^2.
 4801 = 193 + 2 x 48 ^2.
 4803 = 571 + 2 x 46 ^2.
 4805 = 3 + 2 x 49 ^2.
 4807 = 5 + 2 x 49 ^2.
 4809 = 7 + 2 x 49 ^2.
 4811 = 761 + 2 x 45 ^2.
 4813 = 11 + 2 x 49 ^2.
 4815 = 13 + 2 x 49 ^2.
 4817 = 1289 + 2 x 42 ^2.
 4819 = 17 + 2 x 49 ^2.

4821 = 19 + 2 x 49 ^2.
 4823 = 773 + 2 x 45 ^2.
 4825 = 23 + 2 x 49 ^2.
 4827 = 409 + 2 x 47 ^2.
 4829 = 1301 + 2 x 42 ^2.
 4831 = 29 + 2 x 49 ^2.
 4833 = 31 + 2 x 49 ^2.
 4835 = 227 + 2 x 48 ^2.
 4837 = 229 + 2 x 48 ^2.
 4839 = 37 + 2 x 49 ^2.
 4841 = 233 + 2 x 48 ^2.
 4843 = 41 + 2 x 49 ^2.
 4845 = 43 + 2 x 49 ^2.
 4847 = 239 + 2 x 48 ^2.
 4849 = 47 + 2 x 49 ^2.
 4851 = 433 + 2 x 47 ^2.
 4853 = 1811 + 2 x 39 ^2.
 4855 = 53 + 2 x 49 ^2.
 4857 = 439 + 2 x 47 ^2.
 4859 = 251 + 2 x 48 ^2.
 4861 = 59 + 2 x 49 ^2.
 4863 = 61 + 2 x 49 ^2.
 4865 = 257 + 2 x 48 ^2.
 4867 = 449 + 2 x 47 ^2.
 4869 = 67 + 2 x 49 ^2.
 4871 = 263 + 2 x 48 ^2.
 4873 = 71 + 2 x 49 ^2.
 4875 = 73 + 2 x 49 ^2.
 4877 = 269 + 2 x 48 ^2.
 4879 = 271 + 2 x 48 ^2.
 4881 = 79 + 2 x 49 ^2.
 4883 = 3083 + 2 x 30 ^2.
 4885 = 83 + 2 x 49 ^2.
 4887 = 1999 + 2 x 38 ^2.
 4889 = 281 + 2 x 48 ^2.
 4891 = 89 + 2 x 49 ^2.
 4893 = 661 + 2 x 46 ^2.
 4895 = 1367 + 2 x 42 ^2.
 4897 = 479 + 2 x 47 ^2.
 4899 = 97 + 2 x 49 ^2.
 4901 = 293 + 2 x 48 ^2.
 4903 = 101 + 2 x 49 ^2.
 4905 = 103 + 2 x 49 ^2.
 4907 = 857 + 2 x 45 ^2.
 4909 = 107 + 2 x 49 ^2.
 4911 = 109 + 2 x 49 ^2.
 4913 = 863 + 2 x 45 ^2.
 4915 = 113 + 2 x 49 ^2.
 4917 = 499 + 2 x 47 ^2.
 4919 = 311 + 2 x 48 ^2.
 4921 = 313 + 2 x 48 ^2.
 4923 = 691 + 2 x 46 ^2.
 4925 = 317 + 2 x 48 ^2.
 4927 = 509 + 2 x 47 ^2.
 4929 = 127 + 2 x 49 ^2.
 4931 = 881 + 2 x 45 ^2.
 4933 = 131 + 2 x 49 ^2.
 4935 = 1063 + 2 x 44 ^2.
 4937 = 887 + 2 x 45 ^2.
 4939 = 137 + 2 x 49 ^2.
 4941 = 139 + 2 x 49 ^2.
 4943 = 1901 + 2 x 39 ^2.
 4945 = 337 + 2 x 48 ^2.
 4947 = 1249 + 2 x 43 ^2.

4949 = 1907 + 2 x 39 ^2.
 4951 = 149 + 2 x 49 ^2.
 4953 = 151 + 2 x 49 ^2.
 4955 = 347 + 2 x 48 ^2.
 4957 = 349 + 2 x 48 ^2.
 4959 = 157 + 2 x 49 ^2.
 4961 = 353 + 2 x 48 ^2.
 4963 = 1091 + 2 x 44 ^2.
 4965 = 163 + 2 x 49 ^2.
 4967 = 359 + 2 x 48 ^2.
 4969 = 167 + 2 x 49 ^2.
 4971 = 739 + 2 x 46 ^2.
 4973 = 1931 + 2 x 39 ^2.
 4975 = 173 + 2 x 49 ^2.
 4977 = 1279 + 2 x 43 ^2.
 4979 = 929 + 2 x 45 ^2.
 4981 = 179 + 2 x 49 ^2.
 4983 = 181 + 2 x 49 ^2.
 4985 = 2393 + 2 x 36 ^2.
 4987 = 379 + 2 x 48 ^2.
 4989 = 571 + 2 x 47 ^2.
 4991 = 383 + 2 x 48 ^2.
 4993 = 191 + 2 x 49 ^2.
 4995 = 193 + 2 x 49 ^2.
 4997 = 389 + 2 x 48 ^2.
 4999 = 197 + 2 x 49 ^2.
 5001 = 199 + 2 x 49 ^2.
 5003 = 3 + 2 x 50 ^2.
 5005 = 5 + 2 x 50 ^2.
 5007 = 7 + 2 x 50 ^2.
 5009 = 401 + 2 x 48 ^2.
 5011 = 11 + 2 x 50 ^2.
 5013 = 13 + 2 x 50 ^2.
 5015 = 1487 + 2 x 42 ^2.
 5017 = 17 + 2 x 50 ^2.
 5019 = 19 + 2 x 50 ^2.
 5021 = 971 + 2 x 45 ^2.
 5023 = 23 + 2 x 50 ^2.
 5025 = 223 + 2 x 49 ^2.
 5027 = 419 + 2 x 48 ^2.
 5029 = 29 + 2 x 50 ^2.
 5031 = 31 + 2 x 50 ^2.
 5033 = 983 + 2 x 45 ^2.
 5035 = 233 + 2 x 49 ^2.
 5037 = 37 + 2 x 50 ^2.
 5039 = 431 + 2 x 48 ^2.
 5041 = 41 + 2 x 50 ^2.
 5043 = 43 + 2 x 50 ^2.
 5045 = 2003 + 2 x 39 ^2.
 5047 = 47 + 2 x 50 ^2.
 5049 = 631 + 2 x 47 ^2.
 5051 = 443 + 2 x 48 ^2.
 5053 = 53 + 2 x 50 ^2.
 5055 = 823 + 2 x 46 ^2.
 5057 = 449 + 2 x 48 ^2.
 5059 = 59 + 2 x 50 ^2.
 5061 = 61 + 2 x 50 ^2.
 5063 = 1013 + 2 x 45 ^2.
 5065 = 263 + 2 x 49 ^2.
 5067 = 67 + 2 x 50 ^2.
 5069 = 461 + 2 x 48 ^2.
 5071 = 71 + 2 x 50 ^2.
 5073 = 73 + 2 x 50 ^2.
 5075 = 467 + 2 x 48 ^2.

5077 = 659 + 2 x 47 ^2.
 5079 = 79 + 2 x 50 ^2.
 5081 = 1031 + 2 x 45 ^2.
 5083 = 83 + 2 x 50 ^2.
 5085 = 283 + 2 x 49 ^2.
 5087 = 479 + 2 x 48 ^2.
 5089 = 89 + 2 x 50 ^2.
 5091 = 673 + 2 x 47 ^2.
 5093 = 4211 + 2 x 21 ^2.
 5095 = 293 + 2 x 49 ^2.
 5097 = 97 + 2 x 50 ^2.
 5099 = 491 + 2 x 48 ^2.
 5101 = 101 + 2 x 50 ^2.
 5103 = 103 + 2 x 50 ^2.
 5105 = 2063 + 2 x 39 ^2.
 5107 = 107 + 2 x 50 ^2.
 5109 = 109 + 2 x 50 ^2.
 5111 = 503 + 2 x 48 ^2.
 5113 = 113 + 2 x 50 ^2.
 5115 = 313 + 2 x 49 ^2.
 5117 = 509 + 2 x 48 ^2.
 5119 = 317 + 2 x 49 ^2.
 5121 = 1249 + 2 x 44 ^2.
 5123 = 2081 + 2 x 39 ^2.
 5125 = 1427 + 2 x 43 ^2.
 5127 = 127 + 2 x 50 ^2.
 5129 = 521 + 2 x 48 ^2.
 5131 = 131 + 2 x 50 ^2.
 5133 = 331 + 2 x 49 ^2.
 5135 = 1607 + 2 x 42 ^2.
 5137 = 137 + 2 x 50 ^2.
 5139 = 139 + 2 x 50 ^2.
 5141 = 1091 + 2 x 45 ^2.
 5143 = 911 + 2 x 46 ^2.
 5145 = 727 + 2 x 47 ^2.
 5147 = 1097 + 2 x 45 ^2.
 5149 = 149 + 2 x 50 ^2.
 5151 = 151 + 2 x 50 ^2.
 5153 = 1103 + 2 x 45 ^2.
 5155 = 353 + 2 x 49 ^2.
 5157 = 157 + 2 x 50 ^2.
 5159 = 1109 + 2 x 45 ^2.
 5161 = 359 + 2 x 49 ^2.
 5163 = 163 + 2 x 50 ^2.
 5165 = 557 + 2 x 48 ^2.
 5167 = 167 + 2 x 50 ^2.
 5169 = 367 + 2 x 49 ^2.
 5171 = 563 + 2 x 48 ^2.
 5173 = 173 + 2 x 50 ^2.
 5175 = 373 + 2 x 49 ^2.
 5177 = 569 + 2 x 48 ^2.
 5179 = 179 + 2 x 50 ^2.
 5181 = 181 + 2 x 50 ^2.
 5183 = 2141 + 2 x 39 ^2.
 5185 = 383 + 2 x 49 ^2.
 5187 = 769 + 2 x 47 ^2.
 5189 = 3011 + 2 x 33 ^2.
 5191 = 191 + 2 x 50 ^2.
 5193 = 193 + 2 x 50 ^2.
 5195 = 587 + 2 x 48 ^2.
 5197 = 197 + 2 x 50 ^2.
 5199 = 199 + 2 x 50 ^2.
 5201 = 593 + 2 x 48 ^2.
 5203 = 401 + 2 x 49 ^2.

5205 = 3 + 2 x 51 ^2.
5207 = 5 + 2 x 51 ^2.
5209 = 7 + 2 x 51 ^2.
5211 = 211 + 2 x 50 ^2.
5213 = 11 + 2 x 51 ^2.
5215 = 13 + 2 x 51 ^2.
5217 = 2017 + 2 x 40 ^2.
5219 = 17 + 2 x 51 ^2.
5221 = 19 + 2 x 51 ^2.
5223 = 223 + 2 x 50 ^2.
5225 = 23 + 2 x 51 ^2.
5227 = 227 + 2 x 50 ^2.
5229 = 229 + 2 x 50 ^2.
5231 = 29 + 2 x 51 ^2.
5233 = 31 + 2 x 51 ^2.
5235 = 433 + 2 x 49 ^2.
5237 = 1187 + 2 x 45 ^2.
5239 = 37 + 2 x 51 ^2.
5241 = 241 + 2 x 50 ^2.
5243 = 41 + 2 x 51 ^2.
5245 = 43 + 2 x 51 ^2.
5247 = 829 + 2 x 47 ^2.
5249 = 47 + 2 x 51 ^2.
5251 = 251 + 2 x 50 ^2.
5253 = 1021 + 2 x 46 ^2.
5255 = 53 + 2 x 51 ^2.
5257 = 257 + 2 x 50 ^2.
5259 = 457 + 2 x 49 ^2.
5261 = 59 + 2 x 51 ^2.
5263 = 61 + 2 x 51 ^2.
5265 = 463 + 2 x 49 ^2.
5267 = 659 + 2 x 48 ^2.
5269 = 67 + 2 x 51 ^2.
5271 = 271 + 2 x 50 ^2.
5273 = 71 + 2 x 51 ^2.
5275 = 73 + 2 x 51 ^2.
5277 = 277 + 2 x 50 ^2.
5279 = 1229 + 2 x 45 ^2.
5281 = 79 + 2 x 51 ^2.
5283 = 283 + 2 x 50 ^2.
5285 = 83 + 2 x 51 ^2.
5287 = 1237 + 2 x 45 ^2.
5289 = 487 + 2 x 49 ^2.
5291 = 89 + 2 x 51 ^2.
5293 = 293 + 2 x 50 ^2.
5295 = 877 + 2 x 47 ^2.
5297 = 3119 + 2 x 33 ^2.
5299 = 97 + 2 x 51 ^2.
5301 = 499 + 2 x 49 ^2.
5303 = 101 + 2 x 51 ^2.
5305 = 103 + 2 x 51 ^2.
5307 = 307 + 2 x 50 ^2.
5309 = 107 + 2 x 51 ^2.
5311 = 109 + 2 x 51 ^2.
5313 = 313 + 2 x 50 ^2.
5315 = 113 + 2 x 51 ^2.
5317 = 317 + 2 x 50 ^2.
5319 = 1087 + 2 x 46 ^2.
5321 = 2729 + 2 x 36 ^2.
5323 = 521 + 2 x 49 ^2.
5325 = 523 + 2 x 49 ^2.
5327 = 719 + 2 x 48 ^2.
5329 = 127 + 2 x 51 ^2.
5331 = 331 + 2 x 50 ^2.

5333 = 131 + 2 x 51 ^2.
5335 = 727 + 2 x 48 ^2.
5337 = 337 + 2 x 50 ^2.
5339 = 137 + 2 x 51 ^2.
5341 = 139 + 2 x 51 ^2.
5343 = 541 + 2 x 49 ^2.
5345 = 2753 + 2 x 36 ^2.
5347 = 347 + 2 x 50 ^2.
5349 = 349 + 2 x 50 ^2.
5351 = 149 + 2 x 51 ^2.
5353 = 151 + 2 x 51 ^2.
5355 = 937 + 2 x 47 ^2.
5357 = 1307 + 2 x 45 ^2.
5359 = 157 + 2 x 51 ^2.
5361 = 1129 + 2 x 46 ^2.
5363 = 4211 + 2 x 24 ^2.
5365 = 163 + 2 x 51 ^2.
5367 = 367 + 2 x 50 ^2.
5369 = 167 + 2 x 51 ^2.
5371 = 569 + 2 x 49 ^2.
5373 = 373 + 2 x 50 ^2.
5375 = 173 + 2 x 51 ^2.
5377 = 769 + 2 x 48 ^2.
5379 = 379 + 2 x 50 ^2.
5381 = 179 + 2 x 51 ^2.
5383 = 181 + 2 x 51 ^2.
5385 = 967 + 2 x 47 ^2.
5387 = 3209 + 2 x 33 ^2.
5389 = 389 + 2 x 50 ^2.
5391 = 1693 + 2 x 43 ^2.
5393 = 191 + 2 x 51 ^2.
5395 = 193 + 2 x 51 ^2.
5397 = 397 + 2 x 50 ^2.
5399 = 197 + 2 x 51 ^2.
5401 = 199 + 2 x 51 ^2.
5403 = 601 + 2 x 49 ^2.
5405 = 797 + 2 x 48 ^2.
5407 = 1709 + 2 x 43 ^2.
5409 = 409 + 2 x 50 ^2.
5411 = 3 + 2 x 52 ^2.
5413 = 5 + 2 x 52 ^2.
5415 = 7 + 2 x 52 ^2.
5417 = 809 + 2 x 48 ^2.
5419 = 11 + 2 x 52 ^2.
5421 = 13 + 2 x 52 ^2.
5423 = 1373 + 2 x 45 ^2.
5425 = 17 + 2 x 52 ^2.
5427 = 19 + 2 x 52 ^2.
5429 = 227 + 2 x 51 ^2.
5431 = 23 + 2 x 52 ^2.
5433 = 433 + 2 x 50 ^2.
5435 = 233 + 2 x 51 ^2.
5437 = 29 + 2 x 52 ^2.
5439 = 31 + 2 x 52 ^2.
5441 = 239 + 2 x 51 ^2.
5443 = 241 + 2 x 51 ^2.
5445 = 37 + 2 x 52 ^2.
5447 = 839 + 2 x 48 ^2.
5449 = 41 + 2 x 52 ^2.
5451 = 43 + 2 x 52 ^2.
5453 = 251 + 2 x 51 ^2.
5455 = 47 + 2 x 52 ^2.
5457 = 457 + 2 x 50 ^2.
5459 = 257 + 2 x 51 ^2.

5461 = 53 + 2 x 52 ^2.
5463 = 463 + 2 x 50 ^2.
5465 = 263 + 2 x 51 ^2.
5467 = 59 + 2 x 52 ^2.
5469 = 61 + 2 x 52 ^2.
5471 = 269 + 2 x 51 ^2.
5473 = 271 + 2 x 51 ^2.
5475 = 67 + 2 x 52 ^2.
5477 = 1427 + 2 x 45 ^2.
5479 = 71 + 2 x 52 ^2.
5481 = 73 + 2 x 52 ^2.
5483 = 281 + 2 x 51 ^2.
5485 = 283 + 2 x 51 ^2.
5487 = 79 + 2 x 52 ^2.
5489 = 881 + 2 x 48 ^2.
5491 = 83 + 2 x 52 ^2.
5493 = 691 + 2 x 49 ^2.
5495 = 293 + 2 x 51 ^2.
5497 = 89 + 2 x 52 ^2.
5499 = 499 + 2 x 50 ^2.
5501 = 1451 + 2 x 45 ^2.
5503 = 503 + 2 x 50 ^2.
5505 = 97 + 2 x 52 ^2.
5507 = 1979 + 2 x 42 ^2.
5509 = 101 + 2 x 52 ^2.
5511 = 103 + 2 x 52 ^2.
5513 = 311 + 2 x 51 ^2.
5515 = 107 + 2 x 52 ^2.
5517 = 109 + 2 x 52 ^2.
5519 = 317 + 2 x 51 ^2.
5521 = 113 + 2 x 52 ^2.
5523 = 523 + 2 x 50 ^2.
5525 = 1997 + 2 x 42 ^2.
5527 = 919 + 2 x 48 ^2.
5529 = 727 + 2 x 49 ^2.
5531 = 1481 + 2 x 45 ^2.
5533 = 331 + 2 x 51 ^2.
5535 = 127 + 2 x 52 ^2.
5537 = 929 + 2 x 48 ^2.
5539 = 131 + 2 x 52 ^2.
5541 = 541 + 2 x 50 ^2.
5543 = 1493 + 2 x 45 ^2.
5545 = 137 + 2 x 52 ^2.
5547 = 139 + 2 x 52 ^2.
5549 = 347 + 2 x 51 ^2.
5551 = 349 + 2 x 51 ^2.
5553 = 751 + 2 x 49 ^2.
5555 = 353 + 2 x 51 ^2.
5557 = 149 + 2 x 52 ^2.
5559 = 151 + 2 x 52 ^2.
5561 = 359 + 2 x 51 ^2.
5563 = 563 + 2 x 50 ^2.
5565 = 157 + 2 x 52 ^2.
5567 = 2039 + 2 x 42 ^2.
5569 = 367 + 2 x 51 ^2.
5571 = 163 + 2 x 52 ^2.
5573 = 1523 + 2 x 45 ^2.
5575 = 167 + 2 x 52 ^2.
5577 = 577 + 2 x 50 ^2.
5579 = 971 + 2 x 48 ^2.
5581 = 173 + 2 x 52 ^2.
5583 = 2221 + 2 x 41 ^2.
5585 = 383 + 2 x 51 ^2.
5587 = 179 + 2 x 52 ^2.

5589 = 181 + 2 x 52 ^2.
5591 = 389 + 2 x 51 ^2.
5593 = 593 + 2 x 50 ^2.
5595 = 1723 + 2 x 44 ^2.
5597 = 2069 + 2 x 42 ^2.
5599 = 191 + 2 x 52 ^2.
5601 = 193 + 2 x 52 ^2.
5603 = 401 + 2 x 51 ^2.
5605 = 197 + 2 x 52 ^2.
5607 = 199 + 2 x 52 ^2.
5609 = 1559 + 2 x 45 ^2.
5611 = 409 + 2 x 51 ^2.
5613 = 613 + 2 x 50 ^2.
5615 = 2087 + 2 x 42 ^2.
5617 = 617 + 2 x 50 ^2.
5619 = 211 + 2 x 52 ^2.
5621 = 3 + 2 x 53 ^2.
5623 = 5 + 2 x 53 ^2.
5625 = 7 + 2 x 53 ^2.
5627 = 1019 + 2 x 48 ^2.
5629 = 11 + 2 x 53 ^2.
5631 = 13 + 2 x 53 ^2.
5633 = 431 + 2 x 51 ^2.
5635 = 17 + 2 x 53 ^2.
5637 = 19 + 2 x 53 ^2.
5639 = 1031 + 2 x 48 ^2.
5641 = 23 + 2 x 53 ^2.
5643 = 643 + 2 x 50 ^2.
5645 = 443 + 2 x 51 ^2.
5647 = 29 + 2 x 53 ^2.
5649 = 31 + 2 x 53 ^2.
5651 = 449 + 2 x 51 ^2.
5653 = 653 + 2 x 50 ^2.
5655 = 37 + 2 x 53 ^2.
5657 = 1049 + 2 x 48 ^2.
5659 = 41 + 2 x 53 ^2.
5661 = 43 + 2 x 53 ^2.
5663 = 461 + 2 x 51 ^2.
5665 = 47 + 2 x 53 ^2.
5667 = 1249 + 2 x 47 ^2.
5669 = 467 + 2 x 51 ^2.
5671 = 53 + 2 x 53 ^2.
5673 = 673 + 2 x 50 ^2.
5675 = 2633 + 2 x 39 ^2.
5677 = 59 + 2 x 53 ^2.
5679 = 61 + 2 x 53 ^2.
5681 = 479 + 2 x 51 ^2.
5683 = 683 + 2 x 50 ^2.
5685 = 67 + 2 x 53 ^2.
5687 = 1637 + 2 x 45 ^2.
5689 = 71 + 2 x 53 ^2.
5691 = 73 + 2 x 53 ^2.
5693 = 491 + 2 x 51 ^2.
5695 = 1087 + 2 x 48 ^2.
5697 = 79 + 2 x 53 ^2.
5699 = 1091 + 2 x 48 ^2.
5701 = 83 + 2 x 53 ^2.
5703 = 1471 + 2 x 46 ^2.
5705 = 503 + 2 x 51 ^2.
5707 = 89 + 2 x 53 ^2.
5709 = 709 + 2 x 50 ^2.
5711 = 509 + 2 x 51 ^2.
5713 = 911 + 2 x 49 ^2.
5715 = 97 + 2 x 53 ^2.

5717 = 1109 + 2 x 48 ^2.
5719 = 101 + 2 x 53 ^2.
5721 = 103 + 2 x 53 ^2.
5723 = 521 + 2 x 51 ^2.
5725 = 107 + 2 x 53 ^2.
5727 = 109 + 2 x 53 ^2.
5729 = 2687 + 2 x 39 ^2.
5731 = 113 + 2 x 53 ^2.
5733 = 733 + 2 x 50 ^2.
5735 = 2207 + 2 x 42 ^2.
5737 = 1129 + 2 x 48 ^2.
5739 = 331 + 2 x 52 ^2.
5741 = 2213 + 2 x 42 ^2.
5743 = 541 + 2 x 51 ^2.
5745 = 127 + 2 x 53 ^2.
5747 = 1697 + 2 x 45 ^2.
5749 = 131 + 2 x 53 ^2.
5751 = 751 + 2 x 50 ^2.
5753 = 2711 + 2 x 39 ^2.
5755 = 137 + 2 x 53 ^2.
5757 = 139 + 2 x 53 ^2.
5759 = 557 + 2 x 51 ^2.
5761 = 353 + 2 x 52 ^2.
5763 = 1531 + 2 x 46 ^2.
5765 = 563 + 2 x 51 ^2.
5767 = 149 + 2 x 53 ^2.
5769 = 151 + 2 x 53 ^2.
5771 = 569 + 2 x 51 ^2.
5773 = 571 + 2 x 51 ^2.
5775 = 157 + 2 x 53 ^2.
je n ai pas trouve de solution pour 5777
5779 = 577 + 2 x 51 ^2.
5781 = 163 + 2 x 53 ^2.
5783 = 1733 + 2 x 45 ^2.
5785 = 167 + 2 x 53 ^2.
5787 = 379 + 2 x 52 ^2.
5789 = 587 + 2 x 51 ^2.
5791 = 173 + 2 x 53 ^2.
5793 = 991 + 2 x 49 ^2.
5795 = 593 + 2 x 51 ^2.
5797 = 179 + 2 x 53 ^2.
5799 = 181 + 2 x 53 ^2.
5801 = 599 + 2 x 51 ^2.
5803 = 601 + 2 x 51 ^2.
5805 = 397 + 2 x 52 ^2.
5807 = 4007 + 2 x 30 ^2.
5809 = 191 + 2 x 53 ^2.
5811 = 193 + 2 x 53 ^2.
5813 = 3221 + 2 x 36 ^2.
5815 = 197 + 2 x 53 ^2.
5817 = 199 + 2 x 53 ^2.
5819 = 617 + 2 x 51 ^2.
5821 = 619 + 2 x 51 ^2.
5823 = 823 + 2 x 50 ^2.
5825 = 1217 + 2 x 48 ^2.
5827 = 419 + 2 x 52 ^2.
5829 = 211 + 2 x 53 ^2.
5831 = 1223 + 2 x 48 ^2.
5833 = 631 + 2 x 51 ^2.
5835 = 3 + 2 x 54 ^2.
5837 = 5 + 2 x 54 ^2.
5839 = 7 + 2 x 54 ^2.
5841 = 223 + 2 x 53 ^2.
5843 = 11 + 2 x 54 ^2.

5845 = 13 + 2 x 54 ^2.
 5847 = 229 + 2 x 53 ^2.
 5849 = 17 + 2 x 54 ^2.
 5851 = 19 + 2 x 54 ^2.
 5853 = 853 + 2 x 50 ^2.
 5855 = 23 + 2 x 54 ^2.
 5857 = 239 + 2 x 53 ^2.
 5859 = 241 + 2 x 53 ^2.
 5861 = 29 + 2 x 54 ^2.
 5863 = 31 + 2 x 54 ^2.
 5865 = 457 + 2 x 52 ^2.
 5867 = 1259 + 2 x 48 ^2.
 5869 = 37 + 2 x 54 ^2.
 5871 = 463 + 2 x 52 ^2.
 5873 = 41 + 2 x 54 ^2.
 5875 = 43 + 2 x 54 ^2.
 5877 = 877 + 2 x 50 ^2.
 5879 = 47 + 2 x 54 ^2.
 5881 = 263 + 2 x 53 ^2.
 5883 = 883 + 2 x 50 ^2.
 5885 = 53 + 2 x 54 ^2.
 5887 = 269 + 2 x 53 ^2.
 5889 = 271 + 2 x 53 ^2.
 5891 = 59 + 2 x 54 ^2.
 5893 = 61 + 2 x 54 ^2.
 5895 = 277 + 2 x 53 ^2.
 5897 = 1289 + 2 x 48 ^2.
 5899 = 67 + 2 x 54 ^2.
 5901 = 283 + 2 x 53 ^2.
 5903 = 71 + 2 x 54 ^2.
 5905 = 73 + 2 x 54 ^2.
 5907 = 499 + 2 x 52 ^2.
 5909 = 1301 + 2 x 48 ^2.
 5911 = 79 + 2 x 54 ^2.
 5913 = 2551 + 2 x 41 ^2.
 5915 = 83 + 2 x 54 ^2.
 5917 = 509 + 2 x 52 ^2.
 5919 = 919 + 2 x 50 ^2.
 5921 = 89 + 2 x 54 ^2.
 5923 = 1873 + 2 x 45 ^2.
 5925 = 307 + 2 x 53 ^2.
 5927 = 1319 + 2 x 48 ^2.
 5929 = 97 + 2 x 54 ^2.
 5931 = 313 + 2 x 53 ^2.
 5933 = 101 + 2 x 54 ^2.
 5935 = 103 + 2 x 54 ^2.
 5937 = 937 + 2 x 50 ^2.
 5939 = 107 + 2 x 54 ^2.
 5941 = 109 + 2 x 54 ^2.
 5943 = 3631 + 2 x 34 ^2.
 5945 = 113 + 2 x 54 ^2.
 5947 = 947 + 2 x 50 ^2.
 5949 = 331 + 2 x 53 ^2.
 5951 = 1901 + 2 x 45 ^2.
 5953 = 751 + 2 x 51 ^2.
 5955 = 337 + 2 x 53 ^2.
 5957 = 1907 + 2 x 45 ^2.
 5959 = 127 + 2 x 54 ^2.
 5961 = 1543 + 2 x 47 ^2.
 5963 = 131 + 2 x 54 ^2.
 5965 = 347 + 2 x 53 ^2.
 5967 = 349 + 2 x 53 ^2.
 5969 = 137 + 2 x 54 ^2.
 5971 = 139 + 2 x 54 ^2.

5973 = 1171 + 2 x 49 ^2.
 5975 = 773 + 2 x 51 ^2.
 5977 = 359 + 2 x 53 ^2.
 5979 = 571 + 2 x 52 ^2.
 5981 = 149 + 2 x 54 ^2.
 5983 = 151 + 2 x 54 ^2.
 5985 = 367 + 2 x 53 ^2.
 5987 = 2459 + 2 x 42 ^2.
 5989 = 157 + 2 x 54 ^2.
 5991 = 373 + 2 x 53 ^2.

je n ai pas trouve de solution pour 5993

5995 = 163 + 2 x 54 ^2.
 5997 = 379 + 2 x 53 ^2.
 5999 = 167 + 2 x 54 ^2.
 6001 = 383 + 2 x 53 ^2.
 6003 = 1201 + 2 x 49 ^2.
 6005 = 173 + 2 x 54 ^2.
 6007 = 389 + 2 x 53 ^2.
 6009 = 601 + 2 x 52 ^2.
 6011 = 179 + 2 x 54 ^2.
 6013 = 181 + 2 x 54 ^2.
 6015 = 397 + 2 x 53 ^2.
 6017 = 1409 + 2 x 48 ^2.
 6019 = 401 + 2 x 53 ^2.
 6021 = 613 + 2 x 52 ^2.
 6023 = 191 + 2 x 54 ^2.
 6025 = 193 + 2 x 54 ^2.
 6027 = 409 + 2 x 53 ^2.
 6029 = 197 + 2 x 54 ^2.
 6031 = 199 + 2 x 54 ^2.
 6033 = 1033 + 2 x 50 ^2.
 6035 = 1427 + 2 x 48 ^2.
 6037 = 419 + 2 x 53 ^2.
 6039 = 421 + 2 x 53 ^2.
 6041 = 839 + 2 x 51 ^2.
 6043 = 211 + 2 x 54 ^2.
 6045 = 1627 + 2 x 47 ^2.
 6047 = 1439 + 2 x 48 ^2.
 6049 = 431 + 2 x 53 ^2.
 6051 = 433 + 2 x 53 ^2.
 6053 = 3 + 2 x 55 ^2.
 6055 = 5 + 2 x 55 ^2.
 6057 = 7 + 2 x 55 ^2.
 6059 = 227 + 2 x 54 ^2.
 6061 = 11 + 2 x 55 ^2.
 6063 = 13 + 2 x 55 ^2.
 6065 = 233 + 2 x 54 ^2.
 6067 = 17 + 2 x 55 ^2.
 6069 = 19 + 2 x 55 ^2.
 6071 = 239 + 2 x 54 ^2.
 6073 = 23 + 2 x 55 ^2.
 6075 = 457 + 2 x 53 ^2.
 6077 = 2027 + 2 x 45 ^2.
 6079 = 29 + 2 x 55 ^2.
 6081 = 31 + 2 x 55 ^2.
 6083 = 251 + 2 x 54 ^2.
 6085 = 467 + 2 x 53 ^2.
 6087 = 37 + 2 x 55 ^2.
 6089 = 257 + 2 x 54 ^2.
 6091 = 41 + 2 x 55 ^2.
 6093 = 43 + 2 x 55 ^2.
 6095 = 263 + 2 x 54 ^2.
 6097 = 47 + 2 x 55 ^2.
 6099 = 691 + 2 x 52 ^2.

6101 = 269 + 2 x 54 ^2.
6103 = 53 + 2 x 55 ^2.
6105 = 487 + 2 x 53 ^2.
6107 = 1499 + 2 x 48 ^2.
6109 = 59 + 2 x 55 ^2.
6111 = 61 + 2 x 55 ^2.
6113 = 281 + 2 x 54 ^2.
6115 = 283 + 2 x 54 ^2.
6117 = 67 + 2 x 55 ^2.
6119 = 1511 + 2 x 48 ^2.
6121 = 71 + 2 x 55 ^2.
6123 = 73 + 2 x 55 ^2.
6125 = 293 + 2 x 54 ^2.
6127 = 509 + 2 x 53 ^2.
6129 = 79 + 2 x 55 ^2.
6131 = 929 + 2 x 51 ^2.
6133 = 83 + 2 x 55 ^2.
6135 = 727 + 2 x 52 ^2.
6137 = 2087 + 2 x 45 ^2.
6139 = 89 + 2 x 55 ^2.
6141 = 523 + 2 x 53 ^2.
6143 = 311 + 2 x 54 ^2.
6145 = 313 + 2 x 54 ^2.
6147 = 97 + 2 x 55 ^2.
6149 = 317 + 2 x 54 ^2.
6151 = 101 + 2 x 55 ^2.
6153 = 103 + 2 x 55 ^2.
6155 = 953 + 2 x 51 ^2.
6157 = 107 + 2 x 55 ^2.
6159 = 109 + 2 x 55 ^2.
6161 = 1553 + 2 x 48 ^2.
6163 = 113 + 2 x 55 ^2.
6165 = 547 + 2 x 53 ^2.
6167 = 1559 + 2 x 48 ^2.
6169 = 337 + 2 x 54 ^2.
6171 = 1171 + 2 x 50 ^2.
6173 = 971 + 2 x 51 ^2.
6175 = 557 + 2 x 53 ^2.
6177 = 127 + 2 x 55 ^2.
6179 = 347 + 2 x 54 ^2.
6181 = 131 + 2 x 55 ^2.
6183 = 1381 + 2 x 49 ^2.
6185 = 353 + 2 x 54 ^2.
6187 = 137 + 2 x 55 ^2.
6189 = 139 + 2 x 55 ^2.
6191 = 359 + 2 x 54 ^2.
6193 = 991 + 2 x 51 ^2.
6195 = 577 + 2 x 53 ^2.
6197 = 4019 + 2 x 33 ^2.
6199 = 149 + 2 x 55 ^2.
6201 = 151 + 2 x 55 ^2.
6203 = 2153 + 2 x 45 ^2.
6205 = 373 + 2 x 54 ^2.
6207 = 157 + 2 x 55 ^2.
6209 = 1601 + 2 x 48 ^2.
6211 = 379 + 2 x 54 ^2.
6213 = 163 + 2 x 55 ^2.
6215 = 383 + 2 x 54 ^2.
6217 = 167 + 2 x 55 ^2.
6219 = 601 + 2 x 53 ^2.
6221 = 389 + 2 x 54 ^2.
6223 = 173 + 2 x 55 ^2.
6225 = 607 + 2 x 53 ^2.
6227 = 1619 + 2 x 48 ^2.

6229 = 179 + 2 x 55 ^2.
6231 = 181 + 2 x 55 ^2.
6233 = 401 + 2 x 54 ^2.
6235 = 617 + 2 x 53 ^2.
6237 = 619 + 2 x 53 ^2.
6239 = 2711 + 2 x 42 ^2.
6241 = 191 + 2 x 55 ^2.
6243 = 193 + 2 x 55 ^2.
6245 = 1637 + 2 x 48 ^2.
6247 = 197 + 2 x 55 ^2.
6249 = 199 + 2 x 55 ^2.
6251 = 419 + 2 x 54 ^2.
6253 = 421 + 2 x 54 ^2.
6255 = 1453 + 2 x 49 ^2.
6257 = 2207 + 2 x 45 ^2.
6259 = 641 + 2 x 53 ^2.
6261 = 211 + 2 x 55 ^2.
6263 = 431 + 2 x 54 ^2.
6265 = 433 + 2 x 54 ^2.
6267 = 859 + 2 x 52 ^2.
6269 = 2741 + 2 x 42 ^2.
6271 = 439 + 2 x 54 ^2.
6273 = 223 + 2 x 55 ^2.
6275 = 3 + 2 x 56 ^2.
6277 = 5 + 2 x 56 ^2.
6279 = 7 + 2 x 56 ^2.
6281 = 449 + 2 x 54 ^2.
6283 = 11 + 2 x 56 ^2.
6285 = 13 + 2 x 56 ^2.
6287 = 2237 + 2 x 45 ^2.
6289 = 17 + 2 x 56 ^2.
6291 = 19 + 2 x 56 ^2.
6293 = 461 + 2 x 54 ^2.
6295 = 23 + 2 x 56 ^2.
6297 = 1297 + 2 x 50 ^2.
6299 = 467 + 2 x 54 ^2.
6301 = 29 + 2 x 56 ^2.
6303 = 31 + 2 x 56 ^2.
6305 = 1103 + 2 x 51 ^2.
6307 = 257 + 2 x 55 ^2.
6309 = 37 + 2 x 56 ^2.
6311 = 479 + 2 x 54 ^2.
6313 = 41 + 2 x 56 ^2.
6315 = 43 + 2 x 56 ^2.
6317 = 1709 + 2 x 48 ^2.
6319 = 47 + 2 x 56 ^2.
6321 = 271 + 2 x 55 ^2.
6323 = 491 + 2 x 54 ^2.
6325 = 53 + 2 x 56 ^2.
6327 = 277 + 2 x 55 ^2.
6329 = 1721 + 2 x 48 ^2.
6331 = 59 + 2 x 56 ^2.
6333 = 61 + 2 x 56 ^2.
6335 = 503 + 2 x 54 ^2.
6337 = 719 + 2 x 53 ^2.
6339 = 67 + 2 x 56 ^2.
6341 = 509 + 2 x 54 ^2.
6343 = 71 + 2 x 56 ^2.
6345 = 73 + 2 x 56 ^2.
6347 = 2297 + 2 x 45 ^2.
6349 = 941 + 2 x 52 ^2.
6351 = 79 + 2 x 56 ^2.
6353 = 521 + 2 x 54 ^2.
6355 = 83 + 2 x 56 ^2.

6357 = 307 + 2 x 55 ^2.
6359 = 2309 + 2 x 45 ^2.
6361 = 89 + 2 x 56 ^2.
6363 = 313 + 2 x 55 ^2.
6365 = 1163 + 2 x 51 ^2.
6367 = 317 + 2 x 55 ^2.
6369 = 97 + 2 x 56 ^2.
6371 = 2843 + 2 x 42 ^2.
6373 = 101 + 2 x 56 ^2.
6375 = 103 + 2 x 56 ^2.
6377 = 4919 + 2 x 27 ^2.
6379 = 107 + 2 x 56 ^2.
6381 = 109 + 2 x 56 ^2.
6383 = 1181 + 2 x 51 ^2.
6385 = 113 + 2 x 56 ^2.
6387 = 337 + 2 x 55 ^2.
6389 = 557 + 2 x 54 ^2.
6391 = 773 + 2 x 53 ^2.
6393 = 2161 + 2 x 46 ^2.
6395 = 563 + 2 x 54 ^2.
6397 = 347 + 2 x 55 ^2.
6399 = 127 + 2 x 56 ^2.
6401 = 569 + 2 x 54 ^2.
6403 = 131 + 2 x 56 ^2.
6405 = 787 + 2 x 53 ^2.
6407 = 2357 + 2 x 45 ^2.
6409 = 137 + 2 x 56 ^2.
6411 = 139 + 2 x 56 ^2.
6413 = 3371 + 2 x 39 ^2.
6415 = 797 + 2 x 53 ^2.
6417 = 367 + 2 x 55 ^2.
6419 = 587 + 2 x 54 ^2.
6421 = 149 + 2 x 56 ^2.
6423 = 151 + 2 x 56 ^2.
6425 = 593 + 2 x 54 ^2.
6427 = 809 + 2 x 53 ^2.
6429 = 157 + 2 x 56 ^2.
6431 = 599 + 2 x 54 ^2.
6433 = 383 + 2 x 55 ^2.
6435 = 163 + 2 x 56 ^2.
6437 = 2909 + 2 x 42 ^2.
6439 = 167 + 2 x 56 ^2.
6441 = 823 + 2 x 53 ^2.
6443 = 2393 + 2 x 45 ^2.
6445 = 173 + 2 x 56 ^2.
6447 = 397 + 2 x 55 ^2.
6449 = 617 + 2 x 54 ^2.
6451 = 179 + 2 x 56 ^2.
6453 = 181 + 2 x 56 ^2.
6455 = 1847 + 2 x 48 ^2.
6457 = 839 + 2 x 53 ^2.
6459 = 409 + 2 x 55 ^2.
6461 = 1259 + 2 x 51 ^2.
6463 = 191 + 2 x 56 ^2.
6465 = 193 + 2 x 56 ^2.
6467 = 2417 + 2 x 45 ^2.
6469 = 197 + 2 x 56 ^2.
6471 = 199 + 2 x 56 ^2.
6473 = 641 + 2 x 54 ^2.
6475 = 643 + 2 x 54 ^2.
6477 = 859 + 2 x 53 ^2.
6479 = 647 + 2 x 54 ^2.
6481 = 431 + 2 x 55 ^2.
6483 = 211 + 2 x 56 ^2.

6485 = 653 + 2 x 54 ^2.
 6487 = 1487 + 2 x 50 ^2.
 6489 = 439 + 2 x 55 ^2.
 6491 = 659 + 2 x 54 ^2.
 6493 = 443 + 2 x 55 ^2.
 6495 = 223 + 2 x 56 ^2.
 6497 = 1889 + 2 x 48 ^2.
 6499 = 227 + 2 x 56 ^2.
 6501 = 3 + 2 x 57 ^2.
 6503 = 5 + 2 x 57 ^2.
 6505 = 7 + 2 x 57 ^2.
 6507 = 457 + 2 x 55 ^2.
 6509 = 11 + 2 x 57 ^2.
 6511 = 13 + 2 x 57 ^2.
 6513 = 241 + 2 x 56 ^2.
 6515 = 17 + 2 x 57 ^2.
 6517 = 19 + 2 x 57 ^2.
 6519 = 2287 + 2 x 46 ^2.
 6521 = 23 + 2 x 57 ^2.
 6523 = 251 + 2 x 56 ^2.
 6525 = 907 + 2 x 53 ^2.
 6527 = 29 + 2 x 57 ^2.
 6529 = 31 + 2 x 57 ^2.
 6531 = 1123 + 2 x 52 ^2.
 6533 = 701 + 2 x 54 ^2.
 6535 = 37 + 2 x 57 ^2.
 6537 = 487 + 2 x 55 ^2.
 6539 = 41 + 2 x 57 ^2.
 6541 = 43 + 2 x 57 ^2.
 6543 = 271 + 2 x 56 ^2.
 6545 = 47 + 2 x 57 ^2.
 6547 = 929 + 2 x 53 ^2.
 6549 = 277 + 2 x 56 ^2.
 6551 = 53 + 2 x 57 ^2.
 6553 = 281 + 2 x 56 ^2.
 6555 = 283 + 2 x 56 ^2.
 6557 = 59 + 2 x 57 ^2.
 6559 = 61 + 2 x 57 ^2.
 6561 = 1153 + 2 x 52 ^2.
 6563 = 1361 + 2 x 51 ^2.
 6565 = 67 + 2 x 57 ^2.
 6567 = 1567 + 2 x 50 ^2.
 6569 = 71 + 2 x 57 ^2.
 6571 = 73 + 2 x 57 ^2.
 6573 = 523 + 2 x 55 ^2.
 6575 = 743 + 2 x 54 ^2.
 6577 = 79 + 2 x 57 ^2.
 6579 = 307 + 2 x 56 ^2.
 6581 = 83 + 2 x 57 ^2.
 6583 = 311 + 2 x 56 ^2.
 6585 = 313 + 2 x 56 ^2.
 6587 = 89 + 2 x 57 ^2.
 6589 = 317 + 2 x 56 ^2.
 6591 = 541 + 2 x 55 ^2.
 6593 = 761 + 2 x 54 ^2.
 6595 = 97 + 2 x 57 ^2.
 6597 = 547 + 2 x 55 ^2.
 6599 = 101 + 2 x 57 ^2.
 6601 = 103 + 2 x 57 ^2.
 6603 = 331 + 2 x 56 ^2.
 6605 = 107 + 2 x 57 ^2.
 6607 = 109 + 2 x 57 ^2.
 6609 = 337 + 2 x 56 ^2.
 6611 = 113 + 2 x 57 ^2.

6613 = 563 + 2 x 55 ^2.
6615 = 997 + 2 x 53 ^2.
6617 = 3089 + 2 x 42 ^2.
6619 = 347 + 2 x 56 ^2.
6621 = 349 + 2 x 56 ^2.
6623 = 3581 + 2 x 39 ^2.
6625 = 127 + 2 x 57 ^2.
6627 = 577 + 2 x 55 ^2.
6629 = 131 + 2 x 57 ^2.
6631 = 359 + 2 x 56 ^2.
6633 = 1831 + 2 x 49 ^2.
6635 = 137 + 2 x 57 ^2.
6637 = 139 + 2 x 57 ^2.
6639 = 367 + 2 x 56 ^2.
6641 = 809 + 2 x 54 ^2.
6643 = 593 + 2 x 55 ^2.
6645 = 373 + 2 x 56 ^2.
6647 = 149 + 2 x 57 ^2.
6649 = 151 + 2 x 57 ^2.
6651 = 379 + 2 x 56 ^2.
6653 = 821 + 2 x 54 ^2.
6655 = 157 + 2 x 57 ^2.
6657 = 607 + 2 x 55 ^2.
6659 = 827 + 2 x 54 ^2.
6661 = 163 + 2 x 57 ^2.
6663 = 613 + 2 x 55 ^2.
6665 = 167 + 2 x 57 ^2.
6667 = 617 + 2 x 55 ^2.
6669 = 397 + 2 x 56 ^2.
6671 = 173 + 2 x 57 ^2.
6673 = 401 + 2 x 56 ^2.
6675 = 1873 + 2 x 49 ^2.
6677 = 179 + 2 x 57 ^2.
6679 = 181 + 2 x 57 ^2.
6681 = 409 + 2 x 56 ^2.
6683 = 1481 + 2 x 51 ^2.
6685 = 853 + 2 x 54 ^2.
6687 = 1069 + 2 x 53 ^2.
6689 = 191 + 2 x 57 ^2.
6691 = 193 + 2 x 57 ^2.
6693 = 421 + 2 x 56 ^2.
6695 = 197 + 2 x 57 ^2.
6697 = 199 + 2 x 57 ^2.
6699 = 1291 + 2 x 52 ^2.
6701 = 1499 + 2 x 51 ^2.
6703 = 431 + 2 x 56 ^2.
6705 = 433 + 2 x 56 ^2.
6707 = 2099 + 2 x 48 ^2.
6709 = 211 + 2 x 57 ^2.
6711 = 439 + 2 x 56 ^2.
6713 = 881 + 2 x 54 ^2.
6715 = 443 + 2 x 56 ^2.
6717 = 3019 + 2 x 43 ^2.
6719 = 887 + 2 x 54 ^2.
6721 = 223 + 2 x 57 ^2.
6723 = 673 + 2 x 55 ^2.
6725 = 227 + 2 x 57 ^2.
6727 = 229 + 2 x 57 ^2.
6729 = 457 + 2 x 56 ^2.
6731 = 3 + 2 x 58 ^2.
6733 = 5 + 2 x 58 ^2.
6735 = 7 + 2 x 58 ^2.
6737 = 239 + 2 x 57 ^2.
6739 = 11 + 2 x 58 ^2.

6741 = 13 + 2 x 58 ^2.
 6743 = 911 + 2 x 54 ^2.
 6745 = 17 + 2 x 58 ^2.
 6747 = 19 + 2 x 58 ^2.
 6749 = 251 + 2 x 57 ^2.
 6751 = 23 + 2 x 58 ^2.
 6753 = 1753 + 2 x 50 ^2.
 6755 = 257 + 2 x 57 ^2.
 6757 = 29 + 2 x 58 ^2.
 6759 = 31 + 2 x 58 ^2.
 6761 = 263 + 2 x 57 ^2.
 6763 = 491 + 2 x 56 ^2.
 6765 = 37 + 2 x 58 ^2.
 6767 = 269 + 2 x 57 ^2.
 6769 = 41 + 2 x 58 ^2.
 6771 = 43 + 2 x 58 ^2.
 6773 = 941 + 2 x 54 ^2.
 6775 = 47 + 2 x 58 ^2.
 6777 = 727 + 2 x 55 ^2.
 6779 = 281 + 2 x 57 ^2.
 6781 = 53 + 2 x 58 ^2.
 6783 = 733 + 2 x 55 ^2.
 6785 = 953 + 2 x 54 ^2.
 6787 = 59 + 2 x 58 ^2.
 6789 = 61 + 2 x 58 ^2.
 6791 = 293 + 2 x 57 ^2.
 6793 = 521 + 2 x 56 ^2.
 6795 = 67 + 2 x 58 ^2.
 6797 = 6779 + 2 x 3 ^2.
 6799 = 71 + 2 x 58 ^2.
 6801 = 73 + 2 x 58 ^2.
 6803 = 971 + 2 x 54 ^2.
 6805 = 307 + 2 x 57 ^2.
 6807 = 79 + 2 x 58 ^2.
 6809 = 311 + 2 x 57 ^2.
 6811 = 83 + 2 x 58 ^2.
 6813 = 541 + 2 x 56 ^2.
 6815 = 317 + 2 x 57 ^2.
 6817 = 89 + 2 x 58 ^2.
 6819 = 547 + 2 x 56 ^2.
 6821 = 1619 + 2 x 51 ^2.
 6823 = 773 + 2 x 55 ^2.
 6825 = 97 + 2 x 58 ^2.
 6827 = 2777 + 2 x 45 ^2.
 6829 = 101 + 2 x 58 ^2.
 6831 = 103 + 2 x 58 ^2.
 6833 = 4241 + 2 x 36 ^2.
 6835 = 107 + 2 x 58 ^2.
 6837 = 109 + 2 x 58 ^2.
 6839 = 1637 + 2 x 51 ^2.
 6841 = 113 + 2 x 58 ^2.
 6843 = 571 + 2 x 56 ^2.
 6845 = 347 + 2 x 57 ^2.
 6847 = 349 + 2 x 57 ^2.
 6849 = 577 + 2 x 56 ^2.
 6851 = 353 + 2 x 57 ^2.
 6853 = 1021 + 2 x 54 ^2.
 6855 = 127 + 2 x 58 ^2.
 6857 = 359 + 2 x 57 ^2.
 6859 = 131 + 2 x 58 ^2.
 6861 = 811 + 2 x 55 ^2.
 6863 = 1031 + 2 x 54 ^2.
 6865 = 137 + 2 x 58 ^2.
 6867 = 139 + 2 x 58 ^2.

6869 = 1667 + 2 x 51 ^2.
6871 = 373 + 2 x 57 ^2.
6873 = 601 + 2 x 56 ^2.
6875 = 2267 + 2 x 48 ^2.
6877 = 149 + 2 x 58 ^2.
6879 = 151 + 2 x 58 ^2.
6881 = 383 + 2 x 57 ^2.
6883 = 1051 + 2 x 54 ^2.
6885 = 157 + 2 x 58 ^2.
6887 = 389 + 2 x 57 ^2.
6889 = 617 + 2 x 56 ^2.
6891 = 163 + 2 x 58 ^2.
6893 = 1061 + 2 x 54 ^2.
6895 = 167 + 2 x 58 ^2.
6897 = 1279 + 2 x 53 ^2.
6899 = 401 + 2 x 57 ^2.
6901 = 173 + 2 x 58 ^2.
6903 = 631 + 2 x 56 ^2.
6905 = 2297 + 2 x 48 ^2.
6907 = 179 + 2 x 58 ^2.
6909 = 181 + 2 x 58 ^2.
6911 = 1709 + 2 x 51 ^2.
6913 = 641 + 2 x 56 ^2.
6915 = 643 + 2 x 56 ^2.
6917 = 419 + 2 x 57 ^2.
6919 = 191 + 2 x 58 ^2.
6921 = 193 + 2 x 58 ^2.
6923 = 1091 + 2 x 54 ^2.
6925 = 197 + 2 x 58 ^2.
6927 = 199 + 2 x 58 ^2.
6929 = 431 + 2 x 57 ^2.
6931 = 433 + 2 x 57 ^2.
6933 = 661 + 2 x 56 ^2.
6935 = 1103 + 2 x 54 ^2.
6937 = 439 + 2 x 57 ^2.
6939 = 211 + 2 x 58 ^2.
6941 = 443 + 2 x 57 ^2.
6943 = 1741 + 2 x 51 ^2.
6945 = 673 + 2 x 56 ^2.
6947 = 449 + 2 x 57 ^2.
6949 = 677 + 2 x 56 ^2.
6951 = 223 + 2 x 58 ^2.
6953 = 2903 + 2 x 45 ^2.
6955 = 227 + 2 x 58 ^2.
6957 = 229 + 2 x 58 ^2.
6959 = 461 + 2 x 57 ^2.
6961 = 233 + 2 x 58 ^2.
6963 = 691 + 2 x 56 ^2.
6965 = 3 + 2 x 59 ^2.
6967 = 5 + 2 x 59 ^2.
6969 = 7 + 2 x 59 ^2.
6971 = 3929 + 2 x 39 ^2.
6973 = 11 + 2 x 59 ^2.
6975 = 13 + 2 x 59 ^2.
6977 = 479 + 2 x 57 ^2.
6979 = 17 + 2 x 59 ^2.
6981 = 19 + 2 x 59 ^2.
6983 = 1151 + 2 x 54 ^2.
6985 = 23 + 2 x 59 ^2.
6987 = 937 + 2 x 55 ^2.
6989 = 491 + 2 x 57 ^2.
6991 = 29 + 2 x 59 ^2.
6993 = 31 + 2 x 59 ^2.
6995 = 1163 + 2 x 54 ^2.

6997 = 269 + 2 x 58 ^2.
6999 = 37 + 2 x 59 ^2.
7001 = 503 + 2 x 57 ^2.
7003 = 41 + 2 x 59 ^2.
7005 = 43 + 2 x 59 ^2.
7007 = 509 + 2 x 57 ^2.
7009 = 47 + 2 x 59 ^2.
7011 = 283 + 2 x 58 ^2.
7013 = 1181 + 2 x 54 ^2.
7015 = 53 + 2 x 59 ^2.
7017 = 967 + 2 x 55 ^2.
7019 = 521 + 2 x 57 ^2.
7021 = 59 + 2 x 59 ^2.
7023 = 61 + 2 x 59 ^2.
7025 = 1193 + 2 x 54 ^2.
7027 = 977 + 2 x 55 ^2.
7029 = 67 + 2 x 59 ^2.
7031 = 2423 + 2 x 48 ^2.
7033 = 71 + 2 x 59 ^2.
7035 = 73 + 2 x 59 ^2.
7037 = 5237 + 2 x 30 ^2.
7039 = 311 + 2 x 58 ^2.
7041 = 79 + 2 x 59 ^2.
7043 = 4001 + 2 x 39 ^2.
7045 = 83 + 2 x 59 ^2.
7047 = 997 + 2 x 55 ^2.
7049 = 1217 + 2 x 54 ^2.
7051 = 89 + 2 x 59 ^2.
7053 = 2053 + 2 x 50 ^2.
7055 = 557 + 2 x 57 ^2.
7057 = 1439 + 2 x 53 ^2.
7059 = 97 + 2 x 59 ^2.
7061 = 563 + 2 x 57 ^2.
7063 = 101 + 2 x 59 ^2.
7065 = 103 + 2 x 59 ^2.
7067 = 569 + 2 x 57 ^2.
7069 = 107 + 2 x 59 ^2.
7071 = 109 + 2 x 59 ^2.
7073 = 1871 + 2 x 51 ^2.
7075 = 113 + 2 x 59 ^2.
7077 = 349 + 2 x 58 ^2.
7079 = 1877 + 2 x 51 ^2.
7081 = 353 + 2 x 58 ^2.
7083 = 811 + 2 x 56 ^2.
7085 = 587 + 2 x 57 ^2.
7087 = 359 + 2 x 58 ^2.
7089 = 127 + 2 x 59 ^2.
7091 = 593 + 2 x 57 ^2.
7093 = 131 + 2 x 59 ^2.
7095 = 367 + 2 x 58 ^2.
7097 = 599 + 2 x 57 ^2.
7099 = 137 + 2 x 59 ^2.
7101 = 139 + 2 x 59 ^2.
7103 = 1901 + 2 x 51 ^2.
7105 = 607 + 2 x 57 ^2.
7107 = 379 + 2 x 58 ^2.
7109 = 1277 + 2 x 54 ^2.
7111 = 149 + 2 x 59 ^2.
7113 = 151 + 2 x 59 ^2.
7115 = 617 + 2 x 57 ^2.
7117 = 389 + 2 x 58 ^2.
7119 = 157 + 2 x 59 ^2.
7121 = 1289 + 2 x 54 ^2.
7123 = 1291 + 2 x 54 ^2.

7125 = 163 + 2 x 59 ^2.
7127 = 5669 + 2 x 27 ^2.
7129 = 167 + 2 x 59 ^2.
7131 = 859 + 2 x 56 ^2.
7133 = 1301 + 2 x 54 ^2.
7135 = 173 + 2 x 59 ^2.
7137 = 409 + 2 x 58 ^2.
7139 = 641 + 2 x 57 ^2.
7141 = 179 + 2 x 59 ^2.
7143 = 181 + 2 x 59 ^2.
7145 = 647 + 2 x 57 ^2.
7147 = 419 + 2 x 58 ^2.
7149 = 421 + 2 x 58 ^2.
7151 = 653 + 2 x 57 ^2.
7153 = 191 + 2 x 59 ^2.
7155 = 193 + 2 x 59 ^2.
7157 = 659 + 2 x 57 ^2.
7159 = 197 + 2 x 59 ^2.
7161 = 199 + 2 x 59 ^2.
7163 = 6011 + 2 x 24 ^2.
7165 = 2557 + 2 x 48 ^2.
7167 = 439 + 2 x 58 ^2.
7169 = 3119 + 2 x 45 ^2.
7171 = 443 + 2 x 58 ^2.
7173 = 211 + 2 x 59 ^2.
7175 = 677 + 2 x 57 ^2.
7177 = 449 + 2 x 58 ^2.
7179 = 907 + 2 x 56 ^2.
7181 = 683 + 2 x 57 ^2.
7183 = 911 + 2 x 56 ^2.
7185 = 223 + 2 x 59 ^2.
7187 = 2579 + 2 x 48 ^2.
7189 = 227 + 2 x 59 ^2.
7191 = 229 + 2 x 59 ^2.
7193 = 1361 + 2 x 54 ^2.
7195 = 233 + 2 x 59 ^2.
7197 = 1579 + 2 x 53 ^2.
7199 = 701 + 2 x 57 ^2.
7201 = 239 + 2 x 59 ^2.
7203 = 3 + 2 x 60 ^2.
7205 = 5 + 2 x 60 ^2.
7207 = 7 + 2 x 60 ^2.
7209 = 937 + 2 x 56 ^2.
7211 = 11 + 2 x 60 ^2.
7213 = 13 + 2 x 60 ^2.
7215 = 487 + 2 x 58 ^2.
7217 = 17 + 2 x 60 ^2.
7219 = 19 + 2 x 60 ^2.
7221 = 1171 + 2 x 55 ^2.
7223 = 23 + 2 x 60 ^2.
7225 = 263 + 2 x 59 ^2.
7227 = 499 + 2 x 58 ^2.
7229 = 29 + 2 x 60 ^2.
7231 = 31 + 2 x 60 ^2.
7233 = 271 + 2 x 59 ^2.
7235 = 4643 + 2 x 36 ^2.
7237 = 37 + 2 x 60 ^2.
7239 = 277 + 2 x 59 ^2.
7241 = 41 + 2 x 60 ^2.
7243 = 43 + 2 x 60 ^2.
7245 = 283 + 2 x 59 ^2.
7247 = 47 + 2 x 60 ^2.
7249 = 521 + 2 x 58 ^2.
7251 = 523 + 2 x 58 ^2.

7253 = 53 + 2 x 60 ^2.
7255 = 293 + 2 x 59 ^2.
7257 = 3559 + 2 x 43 ^2.
7259 = 59 + 2 x 60 ^2.
7261 = 61 + 2 x 60 ^2.
7263 = 991 + 2 x 56 ^2.
7265 = 1433 + 2 x 54 ^2.
7267 = 67 + 2 x 60 ^2.
7269 = 307 + 2 x 59 ^2.
7271 = 71 + 2 x 60 ^2.
7273 = 73 + 2 x 60 ^2.
7275 = 313 + 2 x 59 ^2.
7277 = 5099 + 2 x 33 ^2.
7279 = 79 + 2 x 60 ^2.
7281 = 1009 + 2 x 56 ^2.
7283 = 83 + 2 x 60 ^2.
7285 = 557 + 2 x 58 ^2.
7287 = 1237 + 2 x 55 ^2.
7289 = 89 + 2 x 60 ^2.
7291 = 563 + 2 x 58 ^2.
7293 = 331 + 2 x 59 ^2.
7295 = 797 + 2 x 57 ^2.
7297 = 97 + 2 x 60 ^2.
7299 = 337 + 2 x 59 ^2.
7301 = 101 + 2 x 60 ^2.
7303 = 103 + 2 x 60 ^2.
7305 = 577 + 2 x 58 ^2.
7307 = 107 + 2 x 60 ^2.
7309 = 109 + 2 x 60 ^2.
7311 = 349 + 2 x 59 ^2.
7313 = 113 + 2 x 60 ^2.
7315 = 353 + 2 x 59 ^2.
7317 = 1699 + 2 x 53 ^2.
7319 = 821 + 2 x 57 ^2.
7321 = 359 + 2 x 59 ^2.
7323 = 1051 + 2 x 56 ^2.
7325 = 827 + 2 x 57 ^2.
7327 = 127 + 2 x 60 ^2.
7329 = 367 + 2 x 59 ^2.
7331 = 131 + 2 x 60 ^2.
7333 = 1061 + 2 x 56 ^2.
7335 = 373 + 2 x 59 ^2.
7337 = 137 + 2 x 60 ^2.
7339 = 139 + 2 x 60 ^2.
7341 = 379 + 2 x 59 ^2.
7343 = 1511 + 2 x 54 ^2.
7345 = 383 + 2 x 59 ^2.
7347 = 619 + 2 x 58 ^2.
7349 = 149 + 2 x 60 ^2.
7351 = 151 + 2 x 60 ^2.
7353 = 1303 + 2 x 55 ^2.
7355 = 857 + 2 x 57 ^2.
7357 = 157 + 2 x 60 ^2.
7359 = 397 + 2 x 59 ^2.
7361 = 863 + 2 x 57 ^2.
7363 = 163 + 2 x 60 ^2.
7365 = 1093 + 2 x 56 ^2.
7367 = 167 + 2 x 60 ^2.
7369 = 641 + 2 x 58 ^2.
7371 = 409 + 2 x 59 ^2.
7373 = 173 + 2 x 60 ^2.
7375 = 647 + 2 x 58 ^2.
7377 = 1327 + 2 x 55 ^2.
7379 = 179 + 2 x 60 ^2.

7381 = 181 + 2 x 60 ^2.
7383 = 421 + 2 x 59 ^2.
7385 = 887 + 2 x 57 ^2.
7387 = 659 + 2 x 58 ^2.
7389 = 661 + 2 x 58 ^2.
7391 = 191 + 2 x 60 ^2.
7393 = 193 + 2 x 60 ^2.
7395 = 433 + 2 x 59 ^2.
7397 = 197 + 2 x 60 ^2.
7399 = 199 + 2 x 60 ^2.
7401 = 439 + 2 x 59 ^2.
7403 = 1571 + 2 x 54 ^2.
7405 = 443 + 2 x 59 ^2.
7407 = 1789 + 2 x 53 ^2.
7409 = 911 + 2 x 57 ^2.
7411 = 211 + 2 x 60 ^2.
7413 = 3181 + 2 x 46 ^2.
7415 = 1583 + 2 x 54 ^2.
7417 = 919 + 2 x 57 ^2.
7419 = 457 + 2 x 59 ^2.
7421 = 3371 + 2 x 45 ^2.
7423 = 223 + 2 x 60 ^2.
7425 = 463 + 2 x 59 ^2.
7427 = 227 + 2 x 60 ^2.
7429 = 229 + 2 x 60 ^2.
7431 = 1381 + 2 x 55 ^2.
7433 = 233 + 2 x 60 ^2.
7435 = 937 + 2 x 57 ^2.
7437 = 709 + 2 x 58 ^2.
7439 = 239 + 2 x 60 ^2.
7441 = 241 + 2 x 60 ^2.
7443 = 1171 + 2 x 56 ^2.
7445 = 3 + 2 x 61 ^2.
7447 = 5 + 2 x 61 ^2.
7449 = 7 + 2 x 61 ^2.
7451 = 251 + 2 x 60 ^2.
7453 = 11 + 2 x 61 ^2.
7455 = 13 + 2 x 61 ^2.
7457 = 257 + 2 x 60 ^2.
7459 = 17 + 2 x 61 ^2.
7461 = 19 + 2 x 61 ^2.
7463 = 263 + 2 x 60 ^2.
7465 = 23 + 2 x 61 ^2.
7467 = 739 + 2 x 58 ^2.
7469 = 269 + 2 x 60 ^2.
7471 = 29 + 2 x 61 ^2.
7473 = 31 + 2 x 61 ^2.
7475 = 977 + 2 x 57 ^2.
7477 = 277 + 2 x 60 ^2.
7479 = 37 + 2 x 61 ^2.
7481 = 281 + 2 x 60 ^2.
7483 = 41 + 2 x 61 ^2.
7485 = 43 + 2 x 61 ^2.
7487 = 2879 + 2 x 48 ^2.
7489 = 47 + 2 x 61 ^2.
7491 = 1873 + 2 x 53 ^2.
7493 = 293 + 2 x 60 ^2.
7495 = 53 + 2 x 61 ^2.
7497 = 769 + 2 x 58 ^2.
7499 = 1667 + 2 x 54 ^2.
7501 = 59 + 2 x 61 ^2.
7503 = 61 + 2 x 61 ^2.
7505 = 2897 + 2 x 48 ^2.
7507 = 307 + 2 x 60 ^2.

7509 = 67 + 2 x 61 ^2.
7511 = 311 + 2 x 60 ^2.
7513 = 71 + 2 x 61 ^2.
7515 = 73 + 2 x 61 ^2.
7517 = 317 + 2 x 60 ^2.
7519 = 557 + 2 x 59 ^2.
7521 = 79 + 2 x 61 ^2.
7523 = 4481 + 2 x 39 ^2.
7525 = 83 + 2 x 61 ^2.
7527 = 3109 + 2 x 47 ^2.
7529 = 1031 + 2 x 57 ^2.
7531 = 89 + 2 x 61 ^2.
7533 = 571 + 2 x 59 ^2.
7535 = 2333 + 2 x 51 ^2.
7537 = 337 + 2 x 60 ^2.
7539 = 97 + 2 x 61 ^2.
7541 = 1709 + 2 x 54 ^2.
7543 = 101 + 2 x 61 ^2.
7545 = 103 + 2 x 61 ^2.
7547 = 347 + 2 x 60 ^2.
7549 = 107 + 2 x 61 ^2.
7551 = 109 + 2 x 61 ^2.
7553 = 353 + 2 x 60 ^2.
7555 = 113 + 2 x 61 ^2.
7557 = 829 + 2 x 58 ^2.
7559 = 359 + 2 x 60 ^2.
7561 = 599 + 2 x 59 ^2.
7563 = 601 + 2 x 59 ^2.
7565 = 1733 + 2 x 54 ^2.
7567 = 367 + 2 x 60 ^2.
7569 = 127 + 2 x 61 ^2.
7571 = 2963 + 2 x 48 ^2.
7573 = 131 + 2 x 61 ^2.
7575 = 613 + 2 x 59 ^2.
7577 = 2969 + 2 x 48 ^2.
7579 = 137 + 2 x 61 ^2.
7581 = 139 + 2 x 61 ^2.
7583 = 383 + 2 x 60 ^2.
7585 = 857 + 2 x 58 ^2.
7587 = 859 + 2 x 58 ^2.
7589 = 389 + 2 x 60 ^2.
7591 = 149 + 2 x 61 ^2.
7593 = 151 + 2 x 61 ^2.
7595 = 1097 + 2 x 57 ^2.
7597 = 397 + 2 x 60 ^2.
7599 = 157 + 2 x 61 ^2.
7601 = 401 + 2 x 60 ^2.
7603 = 641 + 2 x 59 ^2.
7605 = 163 + 2 x 61 ^2.
7607 = 1109 + 2 x 57 ^2.
7609 = 167 + 2 x 61 ^2.
7611 = 883 + 2 x 58 ^2.
7613 = 2411 + 2 x 51 ^2.
7615 = 173 + 2 x 61 ^2.
7617 = 1567 + 2 x 55 ^2.
7619 = 419 + 2 x 60 ^2.
7621 = 179 + 2 x 61 ^2.
7623 = 181 + 2 x 61 ^2.
7625 = 2423 + 2 x 51 ^2.
7627 = 1129 + 2 x 57 ^2.
7629 = 1579 + 2 x 55 ^2.
7631 = 431 + 2 x 60 ^2.
7633 = 191 + 2 x 61 ^2.
7635 = 193 + 2 x 61 ^2.

7637 = 7187 + 2 x 15 ^2.
7639 = 197 + 2 x 61 ^2.
7641 = 199 + 2 x 61 ^2.
7643 = 443 + 2 x 60 ^2.
7645 = 683 + 2 x 59 ^2.
7647 = 919 + 2 x 58 ^2.
7649 = 449 + 2 x 60 ^2.
7651 = 1153 + 2 x 57 ^2.
7653 = 211 + 2 x 61 ^2.
7655 = 1823 + 2 x 54 ^2.
7657 = 457 + 2 x 60 ^2.
7659 = 1609 + 2 x 55 ^2.
7661 = 461 + 2 x 60 ^2.
7663 = 463 + 2 x 60 ^2.
7665 = 223 + 2 x 61 ^2.
7667 = 467 + 2 x 60 ^2.
7669 = 227 + 2 x 61 ^2.
7671 = 229 + 2 x 61 ^2.
7673 = 3623 + 2 x 45 ^2.
7675 = 233 + 2 x 61 ^2.
7677 = 1627 + 2 x 55 ^2.
7679 = 479 + 2 x 60 ^2.
7681 = 239 + 2 x 61 ^2.
7683 = 241 + 2 x 61 ^2.
7685 = 1187 + 2 x 57 ^2.
7687 = 487 + 2 x 60 ^2.
7689 = 727 + 2 x 59 ^2.
7691 = 3 + 2 x 62 ^2.
7693 = 5 + 2 x 62 ^2.
7695 = 7 + 2 x 62 ^2.
7697 = 3089 + 2 x 48 ^2.
7699 = 11 + 2 x 62 ^2.
7701 = 13 + 2 x 62 ^2.
7703 = 503 + 2 x 60 ^2.
7705 = 17 + 2 x 62 ^2.
7707 = 19 + 2 x 62 ^2.
7709 = 509 + 2 x 60 ^2.
7711 = 23 + 2 x 62 ^2.
7713 = 271 + 2 x 61 ^2.
7715 = 1217 + 2 x 57 ^2.
7717 = 29 + 2 x 62 ^2.
7719 = 31 + 2 x 62 ^2.
7721 = 521 + 2 x 60 ^2.
7723 = 281 + 2 x 61 ^2.
7725 = 37 + 2 x 62 ^2.
7727 = 1229 + 2 x 57 ^2.
7729 = 41 + 2 x 62 ^2.
7731 = 43 + 2 x 62 ^2.
7733 = 1901 + 2 x 54 ^2.
7735 = 47 + 2 x 62 ^2.
7737 = 1009 + 2 x 58 ^2.
7739 = 1907 + 2 x 54 ^2.
7741 = 53 + 2 x 62 ^2.
7743 = 1471 + 2 x 56 ^2.
7745 = 1913 + 2 x 54 ^2.
7747 = 59 + 2 x 62 ^2.
7749 = 61 + 2 x 62 ^2.
7751 = 2549 + 2 x 51 ^2.
7753 = 311 + 2 x 61 ^2.
7755 = 67 + 2 x 62 ^2.
7757 = 557 + 2 x 60 ^2.
7759 = 71 + 2 x 62 ^2.
7761 = 73 + 2 x 62 ^2.
7763 = 563 + 2 x 60 ^2.

7765 = 1493 + 2 x 56 ^2.
7767 = 79 + 2 x 62 ^2.
7769 = 569 + 2 x 60 ^2.
7771 = 83 + 2 x 62 ^2.
7773 = 331 + 2 x 61 ^2.
7775 = 1277 + 2 x 57 ^2.
7777 = 89 + 2 x 62 ^2.
7779 = 337 + 2 x 61 ^2.
7781 = 1283 + 2 x 57 ^2.
7783 = 821 + 2 x 59 ^2.
7785 = 97 + 2 x 62 ^2.
7787 = 587 + 2 x 60 ^2.
7789 = 101 + 2 x 62 ^2.
7791 = 103 + 2 x 62 ^2.
7793 = 593 + 2 x 60 ^2.
7795 = 107 + 2 x 62 ^2.
7797 = 109 + 2 x 62 ^2.
7799 = 599 + 2 x 60 ^2.
7801 = 113 + 2 x 62 ^2.
7803 = 1531 + 2 x 56 ^2.
7805 = 1307 + 2 x 57 ^2.
7807 = 607 + 2 x 60 ^2.
7809 = 367 + 2 x 61 ^2.
7811 = 1979 + 2 x 54 ^2.
7813 = 613 + 2 x 60 ^2.
7815 = 127 + 2 x 62 ^2.
7817 = 617 + 2 x 60 ^2.
7819 = 131 + 2 x 62 ^2.
7821 = 379 + 2 x 61 ^2.
7823 = 2621 + 2 x 51 ^2.
7825 = 137 + 2 x 62 ^2.
7827 = 139 + 2 x 62 ^2.
7829 = 1997 + 2 x 54 ^2.
7831 = 389 + 2 x 61 ^2.
7833 = 1783 + 2 x 55 ^2.
7835 = 2003 + 2 x 54 ^2.
7837 = 149 + 2 x 62 ^2.
7839 = 151 + 2 x 62 ^2.
7841 = 641 + 2 x 60 ^2.
7843 = 401 + 2 x 61 ^2.
7845 = 157 + 2 x 62 ^2.
7847 = 647 + 2 x 60 ^2.
7849 = 887 + 2 x 59 ^2.
7851 = 163 + 2 x 62 ^2.
7853 = 653 + 2 x 60 ^2.
7855 = 167 + 2 x 62 ^2.
7857 = 1129 + 2 x 58 ^2.
7859 = 659 + 2 x 60 ^2.
7861 = 173 + 2 x 62 ^2.
7863 = 421 + 2 x 61 ^2.
7865 = 1367 + 2 x 57 ^2.
7867 = 179 + 2 x 62 ^2.
7869 = 181 + 2 x 62 ^2.
7871 = 1373 + 2 x 57 ^2.
7873 = 431 + 2 x 61 ^2.
7875 = 433 + 2 x 61 ^2.
7877 = 677 + 2 x 60 ^2.
7879 = 191 + 2 x 62 ^2.
7881 = 193 + 2 x 62 ^2.
7883 = 683 + 2 x 60 ^2.
7885 = 197 + 2 x 62 ^2.
7887 = 199 + 2 x 62 ^2.
7889 = 2687 + 2 x 51 ^2.
7891 = 449 + 2 x 61 ^2.

7893 = 1621 + 2 x 56 ^2.
7895 = 2063 + 2 x 54 ^2.
7897 = 1399 + 2 x 57 ^2.
7899 = 211 + 2 x 62 ^2.
7901 = 701 + 2 x 60 ^2.
7903 = 461 + 2 x 61 ^2.
7905 = 463 + 2 x 61 ^2.
7907 = 1409 + 2 x 57 ^2.
7909 = 467 + 2 x 61 ^2.
7911 = 223 + 2 x 62 ^2.
7913 = 2081 + 2 x 54 ^2.
7915 = 227 + 2 x 62 ^2.
7917 = 229 + 2 x 62 ^2.
7919 = 719 + 2 x 60 ^2.
7921 = 233 + 2 x 62 ^2.
7923 = 1873 + 2 x 55 ^2.
7925 = 1427 + 2 x 57 ^2.
7927 = 239 + 2 x 62 ^2.
7929 = 241 + 2 x 62 ^2.
7931 = 1433 + 2 x 57 ^2.
7933 = 491 + 2 x 61 ^2.
7935 = 1663 + 2 x 56 ^2.
7937 = 1439 + 2 x 57 ^2.
7939 = 251 + 2 x 62 ^2.
7941 = 3 + 2 x 63 ^2.
7943 = 5 + 2 x 63 ^2.
7945 = 7 + 2 x 63 ^2.
7947 = 2539 + 2 x 52 ^2.
7949 = 11 + 2 x 63 ^2.
7951 = 13 + 2 x 63 ^2.
7953 = 991 + 2 x 59 ^2.
7955 = 17 + 2 x 63 ^2.
7957 = 19 + 2 x 63 ^2.
7959 = 271 + 2 x 62 ^2.
7961 = 23 + 2 x 63 ^2.
7963 = 521 + 2 x 61 ^2.
7965 = 277 + 2 x 62 ^2.
7967 = 29 + 2 x 63 ^2.
7969 = 31 + 2 x 63 ^2.
7971 = 283 + 2 x 62 ^2.
7973 = 773 + 2 x 60 ^2.
7975 = 37 + 2 x 63 ^2.
7977 = 1249 + 2 x 58 ^2.
7979 = 41 + 2 x 63 ^2.
7981 = 43 + 2 x 63 ^2.
7983 = 541 + 2 x 61 ^2.
7985 = 47 + 2 x 63 ^2.
7987 = 787 + 2 x 60 ^2.
7989 = 547 + 2 x 61 ^2.
7991 = 53 + 2 x 63 ^2.
7993 = 1031 + 2 x 59 ^2.
7995 = 307 + 2 x 62 ^2.
7997 = 59 + 2 x 63 ^2.
7999 = 61 + 2 x 63 ^2.
8001 = 313 + 2 x 62 ^2.
8003 = 2801 + 2 x 51 ^2.
8005 = 67 + 2 x 63 ^2.
8007 = 1279 + 2 x 58 ^2.
8009 = 71 + 2 x 63 ^2.
8011 = 73 + 2 x 63 ^2.
8013 = 571 + 2 x 61 ^2.
8015 = 3407 + 2 x 48 ^2.
8017 = 79 + 2 x 63 ^2.
8019 = 331 + 2 x 62 ^2.

8021 = 83 + 2 x 63 ^2.
 8023 = 823 + 2 x 60 ^2.
 8025 = 337 + 2 x 62 ^2.
 8027 = 89 + 2 x 63 ^2.
 8029 = 587 + 2 x 61 ^2.
 8031 = 1069 + 2 x 59 ^2.
 8033 = 5441 + 2 x 36 ^2.
 8035 = 97 + 2 x 63 ^2.
 8037 = 349 + 2 x 62 ^2.
 8039 = 101 + 2 x 63 ^2.
 8041 = 103 + 2 x 63 ^2.
 8043 = 601 + 2 x 61 ^2.
 8045 = 107 + 2 x 63 ^2.
 8047 = 109 + 2 x 63 ^2.
 8049 = 607 + 2 x 61 ^2.
 8051 = 113 + 2 x 63 ^2.
 8053 = 853 + 2 x 60 ^2.
 8055 = 367 + 2 x 62 ^2.
 8057 = 857 + 2 x 60 ^2.
 8059 = 617 + 2 x 61 ^2.
 8061 = 373 + 2 x 62 ^2.
 8063 = 863 + 2 x 60 ^2.
 8065 = 127 + 2 x 63 ^2.
 8067 = 379 + 2 x 62 ^2.
 8069 = 131 + 2 x 63 ^2.
 8071 = 383 + 2 x 62 ^2.
 8073 = 631 + 2 x 61 ^2.
 8075 = 137 + 2 x 63 ^2.
 8077 = 139 + 2 x 63 ^2.
 8079 = 1117 + 2 x 59 ^2.
 8081 = 881 + 2 x 60 ^2.
 8083 = 641 + 2 x 61 ^2.
 8085 = 397 + 2 x 62 ^2.
 8087 = 149 + 2 x 63 ^2.
 8089 = 151 + 2 x 63 ^2.
 8091 = 1129 + 2 x 59 ^2.
 8093 = 5051 + 2 x 39 ^2.
 8095 = 157 + 2 x 63 ^2.
 8097 = 409 + 2 x 62 ^2.
 8099 = 1601 + 2 x 57 ^2.
 8101 = 163 + 2 x 63 ^2.
 8103 = 661 + 2 x 61 ^2.
 8105 = 167 + 2 x 63 ^2.
 8107 = 419 + 2 x 62 ^2.
 8109 = 421 + 2 x 62 ^2.
 8111 = 173 + 2 x 63 ^2.
 8113 = 1151 + 2 x 59 ^2.
 8115 = 673 + 2 x 61 ^2.
 8117 = 179 + 2 x 63 ^2.
 8119 = 181 + 2 x 63 ^2.
 8121 = 433 + 2 x 62 ^2.
 8123 = 4073 + 2 x 45 ^2.
 8125 = 683 + 2 x 61 ^2.
 8127 = 439 + 2 x 62 ^2.
 8129 = 191 + 2 x 63 ^2.
 8131 = 193 + 2 x 63 ^2.
 8133 = 691 + 2 x 61 ^2.
 8135 = 197 + 2 x 63 ^2.
 8137 = 199 + 2 x 63 ^2.
 8139 = 1867 + 2 x 56 ^2.
 8141 = 941 + 2 x 60 ^2.
 8143 = 701 + 2 x 61 ^2.
 8145 = 457 + 2 x 62 ^2.
 8147 = 947 + 2 x 60 ^2.

8149 = 211 + 2 x 63 ^2.
 8151 = 463 + 2 x 62 ^2.
 8153 = 953 + 2 x 60 ^2.
 8155 = 467 + 2 x 62 ^2.
 8157 = 1429 + 2 x 58 ^2.
 8159 = 2957 + 2 x 51 ^2.
 8161 = 223 + 2 x 63 ^2.
 8163 = 1201 + 2 x 59 ^2.
 8165 = 227 + 2 x 63 ^2.
 8167 = 229 + 2 x 63 ^2.
 8169 = 727 + 2 x 61 ^2.
 8171 = 233 + 2 x 63 ^2.
 8173 = 1901 + 2 x 56 ^2.
 8175 = 487 + 2 x 62 ^2.
 8177 = 239 + 2 x 63 ^2.
 8179 = 241 + 2 x 63 ^2.
 8181 = 739 + 2 x 61 ^2.
 8183 = 983 + 2 x 60 ^2.
 8185 = 743 + 2 x 61 ^2.
 8187 = 499 + 2 x 62 ^2.
 8189 = 251 + 2 x 63 ^2.
 8191 = 503 + 2 x 62 ^2.
 8193 = 751 + 2 x 61 ^2.
 8195 = 3 + 2 x 64 ^2.
 8197 = 5 + 2 x 64 ^2.
 8199 = 7 + 2 x 64 ^2.
 8201 = 263 + 2 x 63 ^2.
 8203 = 11 + 2 x 64 ^2.
 8205 = 13 + 2 x 64 ^2.
 8207 = 269 + 2 x 63 ^2.
 8209 = 17 + 2 x 64 ^2.
 8211 = 19 + 2 x 64 ^2.
 8213 = 1013 + 2 x 60 ^2.
 8215 = 23 + 2 x 64 ^2.
 8217 = 1489 + 2 x 58 ^2.
 8219 = 281 + 2 x 63 ^2.
 8221 = 29 + 2 x 64 ^2.
 8223 = 31 + 2 x 64 ^2.
 8225 = 2393 + 2 x 54 ^2.
 8227 = 1499 + 2 x 58 ^2.
 8229 = 37 + 2 x 64 ^2.
 8231 = 293 + 2 x 63 ^2.
 8233 = 41 + 2 x 64 ^2.
 8235 = 43 + 2 x 64 ^2.
 8237 = 6779 + 2 x 27 ^2.
 8239 = 47 + 2 x 64 ^2.
 8241 = 1279 + 2 x 59 ^2.
 8243 = 2411 + 2 x 54 ^2.
 8245 = 53 + 2 x 64 ^2.
 8247 = 4549 + 2 x 43 ^2.
 8249 = 311 + 2 x 63 ^2.
 8251 = 59 + 2 x 64 ^2.
 8253 = 61 + 2 x 64 ^2.
 8255 = 317 + 2 x 63 ^2.
 8257 = 569 + 2 x 62 ^2.
 8259 = 67 + 2 x 64 ^2.
 8261 = 1061 + 2 x 60 ^2.
 8263 = 71 + 2 x 64 ^2.
 8265 = 73 + 2 x 64 ^2.
 8267 = 3659 + 2 x 48 ^2.
 8269 = 331 + 2 x 63 ^2.
 8271 = 79 + 2 x 64 ^2.
 8273 = 2441 + 2 x 54 ^2.
 8275 = 83 + 2 x 64 ^2.

8277 = 1549 + 2 x 58 ^2.
8279 = 2447 + 2 x 54 ^2.
8281 = 89 + 2 x 64 ^2.
8283 = 1321 + 2 x 59 ^2.
8285 = 347 + 2 x 63 ^2.
8287 = 349 + 2 x 63 ^2.
8289 = 97 + 2 x 64 ^2.
8291 = 353 + 2 x 63 ^2.
8293 = 101 + 2 x 64 ^2.
8295 = 103 + 2 x 64 ^2.
8297 = 359 + 2 x 63 ^2.
8299 = 107 + 2 x 64 ^2.
8301 = 109 + 2 x 64 ^2.
8303 = 1103 + 2 x 60 ^2.
8305 = 113 + 2 x 64 ^2.
8307 = 619 + 2 x 62 ^2.
8309 = 1109 + 2 x 60 ^2.
8311 = 373 + 2 x 63 ^2.
8313 = 3313 + 2 x 50 ^2.
8315 = 4787 + 2 x 42 ^2.
8317 = 379 + 2 x 63 ^2.
8319 = 127 + 2 x 64 ^2.
8321 = 383 + 2 x 63 ^2.
8323 = 131 + 2 x 64 ^2.
8325 = 883 + 2 x 61 ^2.
8327 = 389 + 2 x 63 ^2.
8329 = 137 + 2 x 64 ^2.
8331 = 139 + 2 x 64 ^2.
8333 = 4283 + 2 x 45 ^2.
8335 = 397 + 2 x 63 ^2.
8337 = 1609 + 2 x 58 ^2.
8339 = 401 + 2 x 63 ^2.
8341 = 149 + 2 x 64 ^2.
8343 = 151 + 2 x 64 ^2.
8345 = 1847 + 2 x 57 ^2.
8347 = 409 + 2 x 63 ^2.
8349 = 157 + 2 x 64 ^2.
8351 = 1151 + 2 x 60 ^2.
8353 = 911 + 2 x 61 ^2.
8355 = 163 + 2 x 64 ^2.
8357 = 419 + 2 x 63 ^2.
8359 = 167 + 2 x 64 ^2.
8361 = 673 + 2 x 62 ^2.
8363 = 1163 + 2 x 60 ^2.
8365 = 173 + 2 x 64 ^2.
8367 = 2749 + 2 x 53 ^2.
8369 = 431 + 2 x 63 ^2.
8371 = 179 + 2 x 64 ^2.
8373 = 181 + 2 x 64 ^2.
8375 = 1877 + 2 x 57 ^2.
8377 = 439 + 2 x 63 ^2.
8379 = 691 + 2 x 62 ^2.
8381 = 443 + 2 x 63 ^2.
8383 = 191 + 2 x 64 ^2.
8385 = 193 + 2 x 64 ^2.
8387 = 449 + 2 x 63 ^2.
8389 = 197 + 2 x 64 ^2.
8391 = 199 + 2 x 64 ^2.
8393 = 1193 + 2 x 60 ^2.
8395 = 457 + 2 x 63 ^2.
8397 = 709 + 2 x 62 ^2.
8399 = 461 + 2 x 63 ^2.
8401 = 463 + 2 x 63 ^2.
8403 = 211 + 2 x 64 ^2.

8405 = 467 + 2 x 63 ^2.
 8407 = 719 + 2 x 62 ^2.
 8409 = 967 + 2 x 61 ^2.
 8411 = 1913 + 2 x 57 ^2.
 8413 = 971 + 2 x 61 ^2.
 8415 = 223 + 2 x 64 ^2.
 8417 = 479 + 2 x 63 ^2.
 8419 = 227 + 2 x 64 ^2.
 8421 = 229 + 2 x 64 ^2.
 8423 = 1223 + 2 x 60 ^2.
 8425 = 233 + 2 x 64 ^2.
 8427 = 739 + 2 x 62 ^2.
 8429 = 491 + 2 x 63 ^2.
 8431 = 239 + 2 x 64 ^2.
 8433 = 241 + 2 x 64 ^2.
 8435 = 5393 + 2 x 39 ^2.
 8437 = 499 + 2 x 63 ^2.
 8439 = 751 + 2 x 62 ^2.
 8441 = 503 + 2 x 63 ^2.
 8443 = 251 + 2 x 64 ^2.
 8445 = 757 + 2 x 62 ^2.
 8447 = 509 + 2 x 63 ^2.
 8449 = 257 + 2 x 64 ^2.
 8451 = 1009 + 2 x 61 ^2.
 8453 = 3 + 2 x 65 ^2.
 8455 = 5 + 2 x 65 ^2.
 8457 = 7 + 2 x 65 ^2.
 8459 = 521 + 2 x 63 ^2.
 8461 = 11 + 2 x 65 ^2.
 8463 = 13 + 2 x 65 ^2.
 8465 = 2633 + 2 x 54 ^2.
 8467 = 17 + 2 x 65 ^2.
 8469 = 19 + 2 x 65 ^2.
 8471 = 1973 + 2 x 57 ^2.
 8473 = 23 + 2 x 65 ^2.
 8475 = 283 + 2 x 64 ^2.
 8477 = 1277 + 2 x 60 ^2.
 8479 = 29 + 2 x 65 ^2.
 8481 = 31 + 2 x 65 ^2.
 8483 = 1283 + 2 x 60 ^2.
 8485 = 293 + 2 x 64 ^2.
 8487 = 37 + 2 x 65 ^2.
 8489 = 1289 + 2 x 60 ^2.
 8491 = 41 + 2 x 65 ^2.
 8493 = 43 + 2 x 65 ^2.
 8495 = 557 + 2 x 63 ^2.
 8497 = 47 + 2 x 65 ^2.
 8499 = 307 + 2 x 64 ^2.
 8501 = 563 + 2 x 63 ^2.
 8503 = 53 + 2 x 65 ^2.
 8505 = 313 + 2 x 64 ^2.
 8507 = 569 + 2 x 63 ^2.
 8509 = 59 + 2 x 65 ^2.
 8511 = 61 + 2 x 65 ^2.
 8513 = 4463 + 2 x 45 ^2.
 8515 = 577 + 2 x 63 ^2.
 8517 = 67 + 2 x 65 ^2.
 8519 = 1319 + 2 x 60 ^2.
 8521 = 71 + 2 x 65 ^2.
 8523 = 73 + 2 x 65 ^2.
 8525 = 587 + 2 x 63 ^2.
 8527 = 839 + 2 x 62 ^2.
 8529 = 79 + 2 x 65 ^2.
 8531 = 593 + 2 x 63 ^2.

8533 = 83 + 2 x 65 ^2.
 8535 = 1093 + 2 x 61 ^2.
 8537 = 599 + 2 x 63 ^2.
 8539 = 89 + 2 x 65 ^2.
 8541 = 349 + 2 x 64 ^2.
 8543 = 2711 + 2 x 54 ^2.
 8545 = 353 + 2 x 64 ^2.
 8547 = 97 + 2 x 65 ^2.
 8549 = 3347 + 2 x 51 ^2.
 8551 = 101 + 2 x 65 ^2.
 8553 = 103 + 2 x 65 ^2.
 8555 = 617 + 2 x 63 ^2.
 8557 = 107 + 2 x 65 ^2.
 8559 = 109 + 2 x 65 ^2.
 8561 = 1361 + 2 x 60 ^2.
 8563 = 113 + 2 x 65 ^2.
 8565 = 373 + 2 x 64 ^2.
 8567 = 1367 + 2 x 60 ^2.
 8569 = 631 + 2 x 63 ^2.
 8571 = 379 + 2 x 64 ^2.
 8573 = 1373 + 2 x 60 ^2.
 8575 = 383 + 2 x 64 ^2.
 8577 = 127 + 2 x 65 ^2.
 8579 = 641 + 2 x 63 ^2.
 8581 = 131 + 2 x 65 ^2.
 8583 = 1621 + 2 x 59 ^2.
 8585 = 647 + 2 x 63 ^2.
 8587 = 137 + 2 x 65 ^2.
 8589 = 139 + 2 x 65 ^2.
 8591 = 653 + 2 x 63 ^2.
 8593 = 401 + 2 x 64 ^2.
 8595 = 907 + 2 x 62 ^2.
 8597 = 659 + 2 x 63 ^2.
 8599 = 149 + 2 x 65 ^2.
 8601 = 151 + 2 x 65 ^2.
 8603 = 6011 + 2 x 36 ^2.
 8605 = 1163 + 2 x 61 ^2.
 8607 = 157 + 2 x 65 ^2.
 8609 = 1409 + 2 x 60 ^2.
 8611 = 419 + 2 x 64 ^2.
 8613 = 163 + 2 x 65 ^2.
 8615 = 677 + 2 x 63 ^2.
 8617 = 167 + 2 x 65 ^2.
 8619 = 1657 + 2 x 59 ^2.
 8621 = 683 + 2 x 63 ^2.
 8623 = 173 + 2 x 65 ^2.
 8625 = 433 + 2 x 64 ^2.
 8627 = 1427 + 2 x 60 ^2.
 8629 = 179 + 2 x 65 ^2.
 8631 = 181 + 2 x 65 ^2.
 8633 = 1433 + 2 x 60 ^2.
 8635 = 443 + 2 x 64 ^2.
 8637 = 3019 + 2 x 53 ^2.
 8639 = 701 + 2 x 63 ^2.
 8641 = 191 + 2 x 65 ^2.
 8643 = 193 + 2 x 65 ^2.
 8645 = 6053 + 2 x 36 ^2.
 8647 = 197 + 2 x 65 ^2.
 8649 = 199 + 2 x 65 ^2.
 8651 = 1451 + 2 x 60 ^2.
 8653 = 461 + 2 x 64 ^2.
 8655 = 463 + 2 x 64 ^2.
 8657 = 719 + 2 x 63 ^2.
 8659 = 467 + 2 x 64 ^2.

8661 = 211 + 2 x 65 ^2.
 8663 = 3461 + 2 x 51 ^2.
 8665 = 727 + 2 x 63 ^2.
 8667 = 2617 + 2 x 55 ^2.
 8669 = 2837 + 2 x 54 ^2.
 8671 = 479 + 2 x 64 ^2.
 8673 = 223 + 2 x 65 ^2.
 8675 = 2843 + 2 x 54 ^2.
 8677 = 227 + 2 x 65 ^2.
 8679 = 229 + 2 x 65 ^2.
 8681 = 743 + 2 x 63 ^2.
 8683 = 233 + 2 x 65 ^2.
 8685 = 997 + 2 x 62 ^2.
 8687 = 1487 + 2 x 60 ^2.
 8689 = 239 + 2 x 65 ^2.
 8691 = 241 + 2 x 65 ^2.
 8693 = 1493 + 2 x 60 ^2.
 8695 = 503 + 2 x 64 ^2.
 8697 = 1009 + 2 x 62 ^2.
 8699 = 761 + 2 x 63 ^2.
 8701 = 251 + 2 x 65 ^2.
 8703 = 1741 + 2 x 59 ^2.
 8705 = 2207 + 2 x 57 ^2.
 8707 = 257 + 2 x 65 ^2.
 8709 = 1021 + 2 x 62 ^2.
 8711 = 773 + 2 x 63 ^2.
 8713 = 263 + 2 x 65 ^2.
 8715 = 3 + 2 x 66 ^2.
 8717 = 5 + 2 x 66 ^2.
 8719 = 7 + 2 x 66 ^2.
 8721 = 271 + 2 x 65 ^2.
 8723 = 11 + 2 x 66 ^2.
 8725 = 13 + 2 x 66 ^2.
 8727 = 277 + 2 x 65 ^2.
 8729 = 17 + 2 x 66 ^2.
 8731 = 19 + 2 x 66 ^2.
 8733 = 283 + 2 x 65 ^2.
 8735 = 23 + 2 x 66 ^2.
 8737 = 1049 + 2 x 62 ^2.
 8739 = 547 + 2 x 64 ^2.
 8741 = 29 + 2 x 66 ^2.
 8743 = 31 + 2 x 66 ^2.
 8745 = 1303 + 2 x 61 ^2.
 8747 = 809 + 2 x 63 ^2.
 8749 = 37 + 2 x 66 ^2.
 8751 = 1063 + 2 x 62 ^2.
 8753 = 41 + 2 x 66 ^2.
 8755 = 43 + 2 x 66 ^2.
 8757 = 307 + 2 x 65 ^2.
 8759 = 47 + 2 x 66 ^2.
 8761 = 311 + 2 x 65 ^2.
 8763 = 313 + 2 x 65 ^2.
 8765 = 53 + 2 x 66 ^2.
 8767 = 317 + 2 x 65 ^2.
 8769 = 577 + 2 x 64 ^2.
 8771 = 59 + 2 x 66 ^2.
 8773 = 61 + 2 x 66 ^2.
 8775 = 1087 + 2 x 62 ^2.
 8777 = 839 + 2 x 63 ^2.
 8779 = 67 + 2 x 66 ^2.
 8781 = 331 + 2 x 65 ^2.
 8783 = 71 + 2 x 66 ^2.
 8785 = 73 + 2 x 66 ^2.
 8787 = 337 + 2 x 65 ^2.

8789 = 2957 + 2 x 54 ^2.
 8791 = 79 + 2 x 66 ^2.
 8793 = 601 + 2 x 64 ^2.
 8795 = 83 + 2 x 66 ^2.
 8797 = 347 + 2 x 65 ^2.
 8799 = 349 + 2 x 65 ^2.
 8801 = 89 + 2 x 66 ^2.
 8803 = 353 + 2 x 65 ^2.
 8805 = 613 + 2 x 64 ^2.
 8807 = 1607 + 2 x 60 ^2.
 8809 = 97 + 2 x 66 ^2.
 8811 = 619 + 2 x 64 ^2.
 8813 = 101 + 2 x 66 ^2.
 8815 = 103 + 2 x 66 ^2.
 8817 = 367 + 2 x 65 ^2.
 8819 = 107 + 2 x 66 ^2.
 8821 = 109 + 2 x 66 ^2.
 8823 = 373 + 2 x 65 ^2.
 8825 = 113 + 2 x 66 ^2.
 8827 = 1627 + 2 x 60 ^2.
 8829 = 379 + 2 x 65 ^2.
 8831 = 2333 + 2 x 57 ^2.
 8833 = 383 + 2 x 65 ^2.
 8835 = 643 + 2 x 64 ^2.
 8837 = 1637 + 2 x 60 ^2.
 8839 = 127 + 2 x 66 ^2.
 8841 = 1153 + 2 x 62 ^2.
 8843 = 131 + 2 x 66 ^2.
 8845 = 653 + 2 x 64 ^2.
 8847 = 397 + 2 x 65 ^2.
 8849 = 137 + 2 x 66 ^2.
 8851 = 139 + 2 x 66 ^2.
 8853 = 661 + 2 x 64 ^2.
 8855 = 2357 + 2 x 57 ^2.
 8857 = 919 + 2 x 63 ^2.
 8859 = 409 + 2 x 65 ^2.
 8861 = 149 + 2 x 66 ^2.
 8863 = 151 + 2 x 66 ^2.
 8865 = 673 + 2 x 64 ^2.
 8867 = 929 + 2 x 63 ^2.
 8869 = 157 + 2 x 66 ^2.
 8871 = 421 + 2 x 65 ^2.
 8873 = 3041 + 2 x 54 ^2.
 8875 = 163 + 2 x 66 ^2.
 8877 = 3259 + 2 x 53 ^2.
 8879 = 167 + 2 x 66 ^2.
 8881 = 431 + 2 x 65 ^2.
 8883 = 433 + 2 x 65 ^2.
 8885 = 173 + 2 x 66 ^2.
 8887 = 2389 + 2 x 57 ^2.
 8889 = 439 + 2 x 65 ^2.
 8891 = 179 + 2 x 66 ^2.
 8893 = 181 + 2 x 66 ^2.
 8895 = 1453 + 2 x 61 ^2.
 8897 = 1697 + 2 x 60 ^2.
 8899 = 449 + 2 x 65 ^2.
 8901 = 709 + 2 x 64 ^2.
 8903 = 191 + 2 x 66 ^2.
 8905 = 193 + 2 x 66 ^2.
 8907 = 457 + 2 x 65 ^2.
 8909 = 197 + 2 x 66 ^2.
 8911 = 199 + 2 x 66 ^2.
 8913 = 463 + 2 x 65 ^2.
 8915 = 977 + 2 x 63 ^2.

8917 = 467 + 2 x 65 ^2.
8919 = 727 + 2 x 64 ^2.
8921 = 983 + 2 x 63 ^2.
8923 = 211 + 2 x 66 ^2.
8925 = 733 + 2 x 64 ^2.
8927 = 4877 + 2 x 45 ^2.
8929 = 479 + 2 x 65 ^2.
8931 = 739 + 2 x 64 ^2.
8933 = 1733 + 2 x 60 ^2.
8935 = 223 + 2 x 66 ^2.
8937 = 487 + 2 x 65 ^2.
8939 = 227 + 2 x 66 ^2.
8941 = 229 + 2 x 66 ^2.
8943 = 751 + 2 x 64 ^2.
8945 = 233 + 2 x 66 ^2.
8947 = 1009 + 2 x 63 ^2.
8949 = 499 + 2 x 65 ^2.
8951 = 239 + 2 x 66 ^2.
8953 = 241 + 2 x 66 ^2.
8955 = 1993 + 2 x 59 ^2.
8957 = 1019 + 2 x 63 ^2.
8959 = 509 + 2 x 65 ^2.
8961 = 769 + 2 x 64 ^2.
8963 = 251 + 2 x 66 ^2.
8965 = 773 + 2 x 64 ^2.
8967 = 1279 + 2 x 62 ^2.
8969 = 257 + 2 x 66 ^2.
8971 = 521 + 2 x 65 ^2.
8973 = 523 + 2 x 65 ^2.
8975 = 263 + 2 x 66 ^2.
8977 = 1039 + 2 x 63 ^2.
8979 = 787 + 2 x 64 ^2.
8981 = 3 + 2 x 67 ^2.
8983 = 5 + 2 x 67 ^2.
8985 = 7 + 2 x 67 ^2.
8987 = 1049 + 2 x 63 ^2.
8989 = 11 + 2 x 67 ^2.
8991 = 13 + 2 x 67 ^2.
8993 = 281 + 2 x 66 ^2.
8995 = 17 + 2 x 67 ^2.
8997 = 19 + 2 x 67 ^2.
8999 = 1061 + 2 x 63 ^2.
9001 = 23 + 2 x 67 ^2.
9003 = 811 + 2 x 64 ^2.
9005 = 293 + 2 x 66 ^2.
9007 = 29 + 2 x 67 ^2.
9009 = 31 + 2 x 67 ^2.
9011 = 1811 + 2 x 60 ^2.
9013 = 563 + 2 x 65 ^2.
9015 = 37 + 2 x 67 ^2.
9017 = 4409 + 2 x 48 ^2.
9019 = 41 + 2 x 67 ^2.
9021 = 43 + 2 x 67 ^2.
9023 = 311 + 2 x 66 ^2.
9025 = 47 + 2 x 67 ^2.
9027 = 577 + 2 x 65 ^2.
9029 = 317 + 2 x 66 ^2.
9031 = 53 + 2 x 67 ^2.
9033 = 4231 + 2 x 49 ^2.
9035 = 1097 + 2 x 63 ^2.
9037 = 59 + 2 x 67 ^2.
9039 = 61 + 2 x 67 ^2.
9041 = 1103 + 2 x 63 ^2.
9043 = 331 + 2 x 66 ^2.

9045 = 67 + 2 x 67 ^2.
 9047 = 1109 + 2 x 63 ^2.
 9049 = 71 + 2 x 67 ^2.
 9051 = 73 + 2 x 67 ^2.
 9053 = 3221 + 2 x 54 ^2.
 9055 = 863 + 2 x 64 ^2.
 9057 = 79 + 2 x 67 ^2.
 9059 = 347 + 2 x 66 ^2.
 9061 = 83 + 2 x 67 ^2.
 9063 = 613 + 2 x 65 ^2.
 9065 = 353 + 2 x 66 ^2.
 9067 = 89 + 2 x 67 ^2.
 9069 = 619 + 2 x 65 ^2.
 9071 = 359 + 2 x 66 ^2.
 9073 = 881 + 2 x 64 ^2.
 9075 = 97 + 2 x 67 ^2.
 9077 = 1877 + 2 x 60 ^2.
 9079 = 101 + 2 x 67 ^2.
 9081 = 103 + 2 x 67 ^2.
 9083 = 3251 + 2 x 54 ^2.
 9085 = 107 + 2 x 67 ^2.
 9087 = 109 + 2 x 67 ^2.
 9089 = 1151 + 2 x 63 ^2.
 9091 = 113 + 2 x 67 ^2.
 9093 = 643 + 2 x 65 ^2.
 9095 = 383 + 2 x 66 ^2.
 9097 = 647 + 2 x 65 ^2.
 9099 = 907 + 2 x 64 ^2.
 9101 = 389 + 2 x 66 ^2.
 9103 = 653 + 2 x 65 ^2.
 9105 = 127 + 2 x 67 ^2.
 9107 = 1907 + 2 x 60 ^2.
 9109 = 131 + 2 x 67 ^2.
 9111 = 661 + 2 x 65 ^2.
 9113 = 401 + 2 x 66 ^2.
 9115 = 137 + 2 x 67 ^2.
 9117 = 139 + 2 x 67 ^2.
 9119 = 1181 + 2 x 63 ^2.
 9121 = 409 + 2 x 66 ^2.
 9123 = 673 + 2 x 65 ^2.
 9125 = 1187 + 2 x 63 ^2.
 9127 = 149 + 2 x 67 ^2.
 9129 = 151 + 2 x 67 ^2.
 9131 = 419 + 2 x 66 ^2.
 9133 = 421 + 2 x 66 ^2.
 9135 = 157 + 2 x 67 ^2.
 9137 = 5087 + 2 x 45 ^2.
 9139 = 947 + 2 x 64 ^2.
 9141 = 163 + 2 x 67 ^2.
 9143 = 431 + 2 x 66 ^2.
 9145 = 167 + 2 x 67 ^2.
 9147 = 1459 + 2 x 62 ^2.
 9149 = 1949 + 2 x 60 ^2.
 9151 = 173 + 2 x 67 ^2.
 9153 = 4153 + 2 x 50 ^2.
 9155 = 443 + 2 x 66 ^2.
 9157 = 179 + 2 x 67 ^2.
 9159 = 181 + 2 x 67 ^2.
 9161 = 449 + 2 x 66 ^2.
 9163 = 971 + 2 x 64 ^2.
 9165 = 1723 + 2 x 61 ^2.
 9167 = 1229 + 2 x 63 ^2.
 9169 = 191 + 2 x 67 ^2.
 9171 = 193 + 2 x 67 ^2.

9173 = 461 + 2 x 66 ^2.
 9175 = 197 + 2 x 67 ^2.
 9177 = 199 + 2 x 67 ^2.
 9179 = 467 + 2 x 66 ^2.
 9181 = 1493 + 2 x 62 ^2.
 9183 = 733 + 2 x 65 ^2.
 9185 = 2687 + 2 x 57 ^2.
 9187 = 1249 + 2 x 63 ^2.
 9189 = 211 + 2 x 67 ^2.
 9191 = 479 + 2 x 66 ^2.
 9193 = 743 + 2 x 65 ^2.
 9195 = 1753 + 2 x 61 ^2.
 9197 = 1259 + 2 x 63 ^2.
 9199 = 487 + 2 x 66 ^2.
 9201 = 223 + 2 x 67 ^2.
 9203 = 491 + 2 x 66 ^2.
 9205 = 227 + 2 x 67 ^2.
 9207 = 229 + 2 x 67 ^2.
 9209 = 2711 + 2 x 57 ^2.
 9211 = 233 + 2 x 67 ^2.
 9213 = 1021 + 2 x 64 ^2.
 9215 = 503 + 2 x 66 ^2.
 9217 = 239 + 2 x 67 ^2.
 9219 = 241 + 2 x 67 ^2.
 9221 = 509 + 2 x 66 ^2.
 9223 = 773 + 2 x 65 ^2.
 9225 = 1033 + 2 x 64 ^2.
 9227 = 1289 + 2 x 63 ^2.
 9229 = 251 + 2 x 67 ^2.
 9231 = 1039 + 2 x 64 ^2.
 9233 = 521 + 2 x 66 ^2.
 9235 = 257 + 2 x 67 ^2.
 9237 = 787 + 2 x 65 ^2.
 9239 = 1301 + 2 x 63 ^2.
 9241 = 263 + 2 x 67 ^2.
 9243 = 1051 + 2 x 64 ^2.
 9245 = 1307 + 2 x 63 ^2.
 9247 = 269 + 2 x 67 ^2.
 9249 = 271 + 2 x 67 ^2.
 9251 = 3 + 2 x 68 ^2.
 9253 = 5 + 2 x 68 ^2.
 9255 = 7 + 2 x 68 ^2.
 9257 = 1319 + 2 x 63 ^2.
 9259 = 11 + 2 x 68 ^2.
 9261 = 13 + 2 x 68 ^2.
 9263 = 2063 + 2 x 60 ^2.
 9265 = 17 + 2 x 68 ^2.
 9267 = 19 + 2 x 68 ^2.
 9269 = 557 + 2 x 66 ^2.
 9271 = 23 + 2 x 68 ^2.
 9273 = 823 + 2 x 65 ^2.
 9275 = 563 + 2 x 66 ^2.
 9277 = 29 + 2 x 68 ^2.
 9279 = 31 + 2 x 68 ^2.
 9281 = 569 + 2 x 66 ^2.
 9283 = 571 + 2 x 66 ^2.
 9285 = 37 + 2 x 68 ^2.
 9287 = 2087 + 2 x 60 ^2.
 9289 = 41 + 2 x 68 ^2.
 9291 = 43 + 2 x 68 ^2.
 9293 = 3461 + 2 x 54 ^2.
 9295 = 47 + 2 x 68 ^2.
 9297 = 1609 + 2 x 62 ^2.
 9299 = 587 + 2 x 66 ^2.

9301 = 53 + 2 x 68 ^2.
 9303 = 853 + 2 x 65 ^2.
 9305 = 593 + 2 x 66 ^2.
 9307 = 59 + 2 x 68 ^2.
 9309 = 61 + 2 x 68 ^2.
 9311 = 599 + 2 x 66 ^2.
 9313 = 601 + 2 x 66 ^2.
 9315 = 67 + 2 x 68 ^2.
 9317 = 2819 + 2 x 57 ^2.
 9319 = 71 + 2 x 68 ^2.
 9321 = 73 + 2 x 68 ^2.
 9323 = 3491 + 2 x 54 ^2.
 9325 = 347 + 2 x 67 ^2.
 9327 = 79 + 2 x 68 ^2.
 9329 = 617 + 2 x 66 ^2.
 9331 = 83 + 2 x 68 ^2.
 9333 = 883 + 2 x 65 ^2.
 9335 = 2837 + 2 x 57 ^2.
 9337 = 89 + 2 x 68 ^2.
 9339 = 2377 + 2 x 59 ^2.
 9341 = 2141 + 2 x 60 ^2.
 9343 = 631 + 2 x 66 ^2.
 9345 = 97 + 2 x 68 ^2.
 9347 = 1409 + 2 x 63 ^2.
 9349 = 101 + 2 x 68 ^2.
 9351 = 103 + 2 x 68 ^2.
 9353 = 641 + 2 x 66 ^2.
 9355 = 107 + 2 x 68 ^2.
 9357 = 109 + 2 x 68 ^2.
 9359 = 647 + 2 x 66 ^2.
 9361 = 113 + 2 x 68 ^2.
 9363 = 1171 + 2 x 64 ^2.
 9365 = 653 + 2 x 66 ^2.
 9367 = 389 + 2 x 67 ^2.
 9369 = 919 + 2 x 65 ^2.
 9371 = 659 + 2 x 66 ^2.
 9373 = 661 + 2 x 66 ^2.
 9375 = 127 + 2 x 68 ^2.
 9377 = 1439 + 2 x 63 ^2.
 9379 = 131 + 2 x 68 ^2.
 9381 = 1693 + 2 x 62 ^2.
 9383 = 5333 + 2 x 45 ^2.
 9385 = 137 + 2 x 68 ^2.
 9387 = 139 + 2 x 68 ^2.
 9389 = 677 + 2 x 66 ^2.
 9391 = 941 + 2 x 65 ^2.
 9393 = 1201 + 2 x 64 ^2.
 9395 = 683 + 2 x 66 ^2.
 9397 = 149 + 2 x 68 ^2.
 9399 = 151 + 2 x 68 ^2.
 9401 = 2903 + 2 x 57 ^2.
 9403 = 691 + 2 x 66 ^2.
 9405 = 157 + 2 x 68 ^2.
 9407 = 2207 + 2 x 60 ^2.
 9409 = 431 + 2 x 67 ^2.
 9411 = 163 + 2 x 68 ^2.
 9413 = 701 + 2 x 66 ^2.
 9415 = 167 + 2 x 68 ^2.
 9417 = 439 + 2 x 67 ^2.
 9419 = 1481 + 2 x 63 ^2.
 9421 = 173 + 2 x 68 ^2.
 9423 = 1231 + 2 x 64 ^2.
 9425 = 1487 + 2 x 63 ^2.
 9427 = 179 + 2 x 68 ^2.

9429 = 181 + 2 x 68 ^2.
 9431 = 719 + 2 x 66 ^2.
 9433 = 983 + 2 x 65 ^2.
 9435 = 457 + 2 x 67 ^2.
 9437 = 1499 + 2 x 63 ^2.
 9439 = 191 + 2 x 68 ^2.
 9441 = 193 + 2 x 68 ^2.
 9443 = 2243 + 2 x 60 ^2.
 9445 = 197 + 2 x 68 ^2.
 9447 = 199 + 2 x 68 ^2.
 9449 = 1511 + 2 x 63 ^2.
 9451 = 739 + 2 x 66 ^2.
 9453 = 2011 + 2 x 61 ^2.
 9455 = 743 + 2 x 66 ^2.
 9457 = 479 + 2 x 67 ^2.
 9459 = 211 + 2 x 68 ^2.
 9461 = 1523 + 2 x 63 ^2.
 9463 = 751 + 2 x 66 ^2.
 9465 = 487 + 2 x 67 ^2.
 9467 = 2267 + 2 x 60 ^2.
 9469 = 491 + 2 x 67 ^2.
 9471 = 223 + 2 x 68 ^2.
 9473 = 761 + 2 x 66 ^2.
 9475 = 227 + 2 x 68 ^2.
 9477 = 229 + 2 x 68 ^2.
 9479 = 4871 + 2 x 48 ^2.
 9481 = 233 + 2 x 68 ^2.
 9483 = 1033 + 2 x 65 ^2.
 9485 = 773 + 2 x 66 ^2.
 9487 = 239 + 2 x 68 ^2.
 9489 = 241 + 2 x 68 ^2.
 9491 = 1553 + 2 x 63 ^2.
 9493 = 1301 + 2 x 64 ^2.
 9495 = 1303 + 2 x 64 ^2.
 9497 = 1559 + 2 x 63 ^2.
 9499 = 251 + 2 x 68 ^2.
 9501 = 523 + 2 x 67 ^2.
 9503 = 3671 + 2 x 54 ^2.
 9505 = 257 + 2 x 68 ^2.
 9507 = 3457 + 2 x 55 ^2.
 9509 = 797 + 2 x 66 ^2.
 9511 = 263 + 2 x 68 ^2.
 9513 = 1063 + 2 x 65 ^2.
 9515 = 5987 + 2 x 42 ^2.
 9517 = 269 + 2 x 68 ^2.
 9519 = 271 + 2 x 68 ^2.
 9521 = 809 + 2 x 66 ^2.
 9523 = 811 + 2 x 66 ^2.
 9525 = 3 + 2 x 69 ^2.
 9527 = 5 + 2 x 69 ^2.
 9529 = 7 + 2 x 69 ^2.
 9531 = 283 + 2 x 68 ^2.
 9533 = 11 + 2 x 69 ^2.
 9535 = 13 + 2 x 69 ^2.
 9537 = 1087 + 2 x 65 ^2.
 9539 = 17 + 2 x 69 ^2.
 9541 = 19 + 2 x 69 ^2.
 9543 = 1093 + 2 x 65 ^2.
 9545 = 23 + 2 x 69 ^2.
 9547 = 569 + 2 x 67 ^2.
 9549 = 571 + 2 x 67 ^2.
 9551 = 29 + 2 x 69 ^2.
 9553 = 31 + 2 x 69 ^2.
 9555 = 307 + 2 x 68 ^2.

9557 = 1619 + 2 x 63 ^2.
 9559 = 37 + 2 x 69 ^2.
 9561 = 313 + 2 x 68 ^2.
 9563 = 41 + 2 x 69 ^2.
 9565 = 43 + 2 x 69 ^2.
 9567 = 1117 + 2 x 65 ^2.
 9569 = 47 + 2 x 69 ^2.
 9571 = 593 + 2 x 67 ^2.
 9573 = 1123 + 2 x 65 ^2.
 9575 = 53 + 2 x 69 ^2.
 9577 = 599 + 2 x 67 ^2.
 9579 = 331 + 2 x 68 ^2.
 9581 = 59 + 2 x 69 ^2.
 9583 = 61 + 2 x 69 ^2.
 9585 = 337 + 2 x 68 ^2.
 9587 = 3089 + 2 x 57 ^2.
 9589 = 67 + 2 x 69 ^2.
 9591 = 613 + 2 x 67 ^2.
 9593 = 71 + 2 x 69 ^2.
 9595 = 73 + 2 x 69 ^2.
 9597 = 349 + 2 x 68 ^2.
 9599 = 887 + 2 x 66 ^2.
 9601 = 79 + 2 x 69 ^2.
 9603 = 1153 + 2 x 65 ^2.
 9605 = 83 + 2 x 69 ^2.
 9607 = 359 + 2 x 68 ^2.
 9609 = 631 + 2 x 67 ^2.
 9611 = 89 + 2 x 69 ^2.
 9613 = 1163 + 2 x 65 ^2.
 9615 = 367 + 2 x 68 ^2.
 9617 = 2417 + 2 x 60 ^2.
 9619 = 97 + 2 x 69 ^2.
 9621 = 373 + 2 x 68 ^2.
 9623 = 101 + 2 x 69 ^2.
 9625 = 103 + 2 x 69 ^2.
 9627 = 379 + 2 x 68 ^2.
 9629 = 107 + 2 x 69 ^2.
 9631 = 109 + 2 x 69 ^2.
 9633 = 2671 + 2 x 59 ^2.
 9635 = 113 + 2 x 69 ^2.
 9637 = 389 + 2 x 68 ^2.
 9639 = 661 + 2 x 67 ^2.
 9641 = 929 + 2 x 66 ^2.
 9643 = 1193 + 2 x 65 ^2.
 9645 = 397 + 2 x 68 ^2.
 9647 = 1709 + 2 x 63 ^2.
 9649 = 127 + 2 x 69 ^2.
 9651 = 673 + 2 x 67 ^2.
 9653 = 131 + 2 x 69 ^2.
 9655 = 677 + 2 x 67 ^2.
 9657 = 409 + 2 x 68 ^2.
 9659 = 137 + 2 x 69 ^2.
 9661 = 139 + 2 x 69 ^2.
 9663 = 1213 + 2 x 65 ^2.
 9665 = 953 + 2 x 66 ^2.
 9667 = 419 + 2 x 68 ^2.
 9669 = 421 + 2 x 68 ^2.
 9671 = 149 + 2 x 69 ^2.
 9673 = 151 + 2 x 69 ^2.
 9675 = 1483 + 2 x 64 ^2.
 9677 = 2477 + 2 x 60 ^2.
 9679 = 157 + 2 x 69 ^2.
 9681 = 433 + 2 x 68 ^2.
 9683 = 971 + 2 x 66 ^2.

9685 = 163 + 2 x 69 ^2.
 9687 = 439 + 2 x 68 ^2.
 9689 = 167 + 2 x 69 ^2.
 9691 = 443 + 2 x 68 ^2.
 9693 = 2251 + 2 x 61 ^2.
 9695 = 173 + 2 x 69 ^2.
 9697 = 449 + 2 x 68 ^2.
 9699 = 1249 + 2 x 65 ^2.
 9701 = 179 + 2 x 69 ^2.
 9703 = 181 + 2 x 69 ^2.
 9705 = 457 + 2 x 68 ^2.
 9707 = 3209 + 2 x 57 ^2.
 9709 = 461 + 2 x 68 ^2.
 9711 = 463 + 2 x 68 ^2.
 9713 = 191 + 2 x 69 ^2.
 9715 = 193 + 2 x 69 ^2.
 9717 = 739 + 2 x 67 ^2.
 9719 = 197 + 2 x 69 ^2.
 9721 = 199 + 2 x 69 ^2.
 9723 = 1531 + 2 x 64 ^2.
 9725 = 1013 + 2 x 66 ^2.
 9727 = 479 + 2 x 68 ^2.
 9729 = 751 + 2 x 67 ^2.
 9731 = 1019 + 2 x 66 ^2.
 9733 = 211 + 2 x 69 ^2.
 9735 = 487 + 2 x 68 ^2.
 9737 = 7559 + 2 x 33 ^2.
 9739 = 491 + 2 x 68 ^2.
 9741 = 1291 + 2 x 65 ^2.
 9743 = 1031 + 2 x 66 ^2.
 9745 = 223 + 2 x 69 ^2.
 9747 = 499 + 2 x 68 ^2.
 9749 = 227 + 2 x 69 ^2.
 9751 = 229 + 2 x 69 ^2.
 9753 = 1303 + 2 x 65 ^2.
 9755 = 233 + 2 x 69 ^2.
 9757 = 509 + 2 x 68 ^2.
 9759 = 1567 + 2 x 64 ^2.
 9761 = 239 + 2 x 69 ^2.
 9763 = 241 + 2 x 69 ^2.
 9765 = 787 + 2 x 67 ^2.
 9767 = 5717 + 2 x 45 ^2.
 9769 = 521 + 2 x 68 ^2.
 9771 = 523 + 2 x 68 ^2.
 9773 = 251 + 2 x 69 ^2.
 9775 = 797 + 2 x 67 ^2.
 9777 = 1327 + 2 x 65 ^2.
 9779 = 257 + 2 x 69 ^2.
 9781 = 1069 + 2 x 66 ^2.
 9783 = 2341 + 2 x 61 ^2.
 9785 = 263 + 2 x 69 ^2.
 9787 = 809 + 2 x 67 ^2.
 9789 = 541 + 2 x 68 ^2.
 9791 = 269 + 2 x 69 ^2.
 9793 = 271 + 2 x 69 ^2.
 9795 = 547 + 2 x 68 ^2.
 9797 = 3299 + 2 x 57 ^2.
 9799 = 277 + 2 x 69 ^2.
 9801 = 823 + 2 x 67 ^2.
 9803 = 3 + 2 x 70 ^2.
 9805 = 5 + 2 x 70 ^2.
 9807 = 7 + 2 x 70 ^2.
 9809 = 1097 + 2 x 66 ^2.
 9811 = 11 + 2 x 70 ^2.

9813 = 13 + 2 x 70 ^2.
 9815 = 293 + 2 x 69 ^2.
 9817 = 17 + 2 x 70 ^2.
 9819 = 19 + 2 x 70 ^2.
 9821 = 1109 + 2 x 66 ^2.
 9823 = 23 + 2 x 70 ^2.
 9825 = 577 + 2 x 68 ^2.
 9827 = 1889 + 2 x 63 ^2.
 9829 = 29 + 2 x 70 ^2.
 9831 = 31 + 2 x 70 ^2.
 9833 = 311 + 2 x 69 ^2.
 9835 = 313 + 2 x 69 ^2.
 9837 = 37 + 2 x 70 ^2.
 9839 = 317 + 2 x 69 ^2.
 9841 = 41 + 2 x 70 ^2.
 9843 = 43 + 2 x 70 ^2.
 9845 = 1907 + 2 x 63 ^2.
 9847 = 47 + 2 x 70 ^2.
 9849 = 601 + 2 x 68 ^2.
 9851 = 1913 + 2 x 63 ^2.
 9853 = 53 + 2 x 70 ^2.
 9855 = 607 + 2 x 68 ^2.
 9857 = 2657 + 2 x 60 ^2.
 9859 = 59 + 2 x 70 ^2.
 9861 = 61 + 2 x 70 ^2.
 9863 = 1151 + 2 x 66 ^2.
 9865 = 617 + 2 x 68 ^2.
 9867 = 67 + 2 x 70 ^2.
 9869 = 347 + 2 x 69 ^2.
 9871 = 71 + 2 x 70 ^2.
 9873 = 73 + 2 x 70 ^2.
 9875 = 353 + 2 x 69 ^2.
 9877 = 1427 + 2 x 65 ^2.
 9879 = 79 + 2 x 70 ^2.
 9881 = 359 + 2 x 69 ^2.
 9883 = 83 + 2 x 70 ^2.
 9885 = 907 + 2 x 67 ^2.
 9887 = 1949 + 2 x 63 ^2.
 9889 = 89 + 2 x 70 ^2.
 9891 = 643 + 2 x 68 ^2.
 9893 = 1181 + 2 x 66 ^2.
 9895 = 373 + 2 x 69 ^2.
 9897 = 97 + 2 x 70 ^2.
 9899 = 1187 + 2 x 66 ^2.
 9901 = 101 + 2 x 70 ^2.
 9903 = 103 + 2 x 70 ^2.
 9905 = 383 + 2 x 69 ^2.
 9907 = 107 + 2 x 70 ^2.
 9909 = 109 + 2 x 70 ^2.
 9911 = 389 + 2 x 69 ^2.
 9913 = 113 + 2 x 70 ^2.
 9915 = 937 + 2 x 67 ^2.
 9917 = 1979 + 2 x 63 ^2.
 9919 = 397 + 2 x 69 ^2.
 9921 = 673 + 2 x 68 ^2.
 9923 = 401 + 2 x 69 ^2.
 9925 = 677 + 2 x 68 ^2.
 9927 = 127 + 2 x 70 ^2.
 9929 = 1217 + 2 x 66 ^2.
 9931 = 131 + 2 x 70 ^2.
 9933 = 1483 + 2 x 65 ^2.
 9935 = 1223 + 2 x 66 ^2.
 9937 = 137 + 2 x 70 ^2.
 9939 = 139 + 2 x 70 ^2.

9941 = 419 + 2 x 69 ^2.
9943 = 421 + 2 x 69 ^2.
9945 = 967 + 2 x 67 ^2.
9947 = 3449 + 2 x 57 ^2.
9949 = 149 + 2 x 70 ^2.
9951 = 151 + 2 x 70 ^2.
9953 = 431 + 2 x 69 ^2.
9955 = 433 + 2 x 69 ^2.
9957 = 157 + 2 x 70 ^2.
9959 = 3461 + 2 x 57 ^2.
9961 = 439 + 2 x 69 ^2.
9963 = 163 + 2 x 70 ^2.
9965 = 443 + 2 x 69 ^2.
9967 = 167 + 2 x 70 ^2.
9969 = 991 + 2 x 67 ^2.
9971 = 449 + 2 x 69 ^2.
9973 = 173 + 2 x 70 ^2.
9975 = 727 + 2 x 68 ^2.
9977 = 2039 + 2 x 63 ^2.
9979 = 179 + 2 x 70 ^2.
9981 = 181 + 2 x 70 ^2.
9983 = 461 + 2 x 69 ^2.
9985 = 463 + 2 x 69 ^2.
9987 = 739 + 2 x 68 ^2.
9989 = 467 + 2 x 69 ^2.
9991 = 191 + 2 x 70 ^2.
9993 = 193 + 2 x 70 ^2.
9995 = 1283 + 2 x 66 ^2.
9997 = 197 + 2 x 70 ^2.
9999 = 199 + 2 x 70 ^2.
10001 = 479 + 2 x 69 ^2.
10003 = 1291 + 2 x 66 ^2.