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A table of partitions into two squares with an  
application to rational triangles

BY

A. VAN WIJNGAARDEN

(REPORT R 68 OF THE COMPUTATION DEPARTMENT  
OF THE MATHEMATICAL CENTRE AT AMSTERDAM)

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# A TABLE OF PARTITIONS INTO TWO SQUARES WITH AN APPLICATION TO RATIONAL TRIANGLES.

BY

A. VAN WIJNGAARDEN

(Report R 68 of the Computation Department of the Mathematical Centre at Amsterdam)

(Communicated by Prof. D. VAN DANTZIG at the meeting of April 29, 1950)

1. *Introduction.* In order to solve a specific problem on rational triangles, mentioned in section 3, a table was needed of all partitions of a number  $n$  into two squares according to

$$(1.1) \quad n = p^2 + q^2$$

for  $n$  up to many thousands. C. E. BICKMORE and O. WESTERN <sup>1)</sup> gave such a table but only for  $n$  up to 1000, whereas M. RIGNAUX <sup>2)</sup> announced a manuscript table up to  $n = 10000$  that is, however, not published to our knowledge. Therefore, such a table was prepared that is reproduced here in full.

2. *Preparation of the table.* It is well known, which numbers  $n$  can be written in the form (1.1). In fact they are exactly the numbers that have no prime factors of the form  $4k + 3$  to an odd power. Also the number of partitions can be determined without difficulty for each  $n$  whose factors are known but the determination of the actual partitions, though straightforward, is rather tedious. In constructing a table of some size, one better starts, therefore, from the right hand side of (1.1).

On a National accounting-machine an auxiliary double-entry table of  $n$  was made by building up from a constant second difference for  $p^2 + q^2 \leq 10000$ . Twelve columns were produced simultaneously. From this auxiliary table the wanted one was constructed by rewriting the partitions  $p, q$  as function of  $n$ . This table was first checked against omissions by counting the number of partitions in both tables between round values of  $n$ , and next against reproduction errors by verifying that (1.1) holds for all entries. The same checks were applied to the manuscript for the printer (that had to be arranged in another way) and to the proofsheets.

The table is arranged in six lines of three columns each. The first column gives  $n$ , the second and third  $p$  and  $q$ . In case of double and multiple partitions the argument  $n$  is not repeated in order to facilitate their recognition.

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<sup>1)</sup> C. E. BICKMORE and O. WESTERN, *Messenger Math.* 41, 52–64 (1911).

<sup>2)</sup> M. RIGNAUX, *L'intermédiaire des math.*, 25, 143 (1918), 26, 54–55 (1919).

3. *An application of the table in the field of rational triangles.* An application of this table, which was in fact the immediate cause for its construction, is the finding of the "smallest" triangle  $(a, b, c)$  with integer sides  $a, b$  and  $c$  and three rational medians. Here, by definition, a triangle  $(a, b, c)$  is smaller than another triangle  $(A, B, C)$ , where  $a \leq b \leq c$ , and  $A \leq B \leq C$ , if either  $c < C$  or  $c = C$  and  $b < B$  or  $c = C, b = B$  and  $a < A$ . L. EULER<sup>3)</sup> has given already some examples of these triangles, the smallest of which is (68, 85, 87). Several others have been found later on and by following the method of J. H. J. ALMERING<sup>4)</sup> arbitrarily many can be constructed without difficulty. This method, however, does not permit to state what is the smallest solution, but the fact that nobody ever found a smaller triangle than EULER's one, mentioned above, induces the hypothesis, that it is indeed the smallest one.

Of course, for the prove of this hypothesis, it has only to be verified that no smaller triangle than (68, 85, 87) has three rational medians, but the amount of smaller triangles is excessive. It shall be shown, however, that by the use of the table this verification is only a minor computing job.

Be  $A, B$  and  $C$  the double medians on the sides  $a, b$  and  $c$  respectively (so that  $c$  and  $C$  are diagonals of the parallelogram with sides  $a$  and  $b$ . etc.). They follow from

$$(3.1) \quad 2a^2 + 2b^2 - c^2 = C^2,$$

$$(3.2) \quad 2a^2 - b^2 + 2c^2 = B^2,$$

$$(3.3) \quad -a^2 + 2b^2 + 2c^2 = A^2.$$

If  $a, b$  and  $c$  are all odd, or if  $a$  and  $b$  are even, and  $c$  is odd, then  $C^2 \equiv 3 \pmod{4}$ , so  $C$  is irrational. If  $a, b$  and  $c$  are all even,  $a/2, b/2, c/2$  are integers and define a smaller triangle. Without loss of generality it can, therefore, be assumed that  $a$  and  $b$  are odd and  $c$  is even. Then (3.1) can be written in the form

$$(3.4) \quad \left(\frac{-a+b}{2}\right)^2 + \left(\frac{a+b}{2}\right)^2 = \left(\frac{c}{2}\right)^2 + \left(\frac{C}{2}\right)^2 = n,$$

where all terms between brackets are integers. Moreover, the inequalities of the triangle require  $(-a+b)/2 < c/2 < (a+b)/2$ . Hence,  $n$  is a number permitting a double partition, and possible values of  $n$  are found directly by inspection of the table. As for the smallest triangle certainly holds  $a \leq 85, b \leq 87, n = (a^2 + b^2)/2 \leq 7397$ .

If a number  $n$  to be investigated has the partitions  $n = p^2 + q^2 = r^2 + s^2$ , with  $p < q, r < s$  and  $p < r < q$  then is also  $p < s < q$ . Therefore, each double partition with  $r \neq s$  gives rise to two triangles, viz.  $(-p+q, p+q, 2r)$  and  $(-p+q, p+q, 2s)$ .

<sup>3)</sup> L. EULER, *Novi Comm. Acad. Petrop.*, 18, 171 (1773).

<sup>4)</sup> J. H. J. ALMERING, "Rationaliteitseigenschappen in de vlakke meetkunde", Thesis (1950), Amsterdam.

Not all double partitions come into consideration, however. As  $a$  and  $b$  are odd,  $n$  is also odd. In particular, the case  $r = s$  cannot occur. Also cases where  $p, q, r, s$  have a factor in common may be rejected.

In this way only a rather limited amount of values of  $n$  need a closer investigation. For those  $n$  the corresponding  $a, b$  and  $c$  were computed and inserted into (3. 2). In the few cases that  $B^2$  proved to be the square of an integer, they were also inserted into (3. 3), and in only one case  $A^2$  was the square of an integer, viz. in that of EULER's triangle (68, 85, 87). This verification was checked by complete duplication. Hence, the smallest triangle with integer sides and three rational medians is (68, 85, 87).

4. *Acknowledgement.* I am indebted to Mr H. DUPARC for useful suggestions, to Miss G. BOTTERWEG, Miss P. M. HEINSEN and Miss R. D. M. MULDER for performing the necessary calculations and to Miss C. LANGEREIS for the preparation of the manuscript.

|     |   |    |     |    |    |     |    |    |     |    |    |     |    |    |  |     |    |    |
|-----|---|----|-----|----|----|-----|----|----|-----|----|----|-----|----|----|--|-----|----|----|
| 0   | 0 | 0  |     | 8  | 9  | 305 | 4  | 17 | 464 | 8  | 20 | 628 | 12 | 22 |  | 8   | 27 |    |
| 1   | 0 | 1  | 146 | 5  | 11 |     | 7  | 16 | 466 | 5  | 21 | 629 | 2  | 25 |  | 794 | 13 | 25 |
| 2   | 1 | 1  | 148 | 2  | 12 | 306 | 9  | 15 | 468 | 12 | 18 |     | 10 | 23 |  | 797 | 11 | 26 |
| 4   | 0 | 2  | 149 | 7  | 10 | 313 | 12 | 13 | 477 | 6  | 21 | 634 | 3  | 25 |  | 800 | 4  | 28 |
| 5   | 1 | 2  | 153 | 3  | 12 | 314 | 5  | 17 | 481 | 9  | 20 | 637 | 14 | 21 |  |     | 20 | 20 |
| 8   | 2 | 2  | 157 | 6  | 11 | 317 | 11 | 14 |     | 15 | 16 | 640 | 8  | 24 |  | 801 | 15 | 24 |
| 9   | 0 | 3  | 160 | 4  | 12 | 320 | 8  | 16 | 482 | 11 | 19 | 641 | 4  | 25 |  | 802 | 19 | 21 |
| 10  | 1 | 3  | 162 | 9  | 9  | 324 | 0  | 18 | 484 | 0  | 22 | 648 | 18 | 18 |  | 808 | 18 | 22 |
| 13  | 2 | 3  | 164 | 8  | 10 | 325 | 1  | 18 | 485 | 1  | 22 | 650 | 5  | 25 |  | 809 | 5  | 28 |
| 16  | 0 | 4  | 169 | 0  | 13 |     | 6  | 17 |     | 14 | 17 |     | 11 | 23 |  | 810 | 9  | 27 |
| 17  | 1 | 4  |     | 5  | 12 |     | 10 | 15 | 488 | 2  | 22 |     | 17 | 19 |  | 818 | 17 | 23 |
| 18  | 3 | 3  | 170 | 1  | 13 | 328 | 2  | 18 | 490 | 7  | 21 | 653 | 13 | 22 |  | 820 | 6  | 28 |
| 20  | 2 | 4  |     | 7  | 11 | 333 | 3  | 18 | 493 | 3  | 22 | 656 | 16 | 20 |  |     | 12 | 26 |
| 25  | 0 | 5  | 173 | 2  | 13 | 337 | 9  | 16 |     | 13 | 18 | 657 | 9  | 24 |  | 821 | 14 | 25 |
|     | 3 | 4  | 178 | 3  | 13 | 338 | 7  | 17 | 500 | 4  | 22 | 661 | 6  | 25 |  | 829 | 10 | 27 |
| 26  | 1 | 5  | 180 | 6  | 12 |     | 13 | 13 |     | 10 | 20 | 666 | 15 | 21 |  | 832 | 16 | 24 |
| 29  | 2 | 5  | 181 | 9  | 10 | 340 | 4  | 18 | 505 | 8  | 21 | 673 | 12 | 23 |  | 833 | 7  | 28 |
| 32  | 4 | 4  | 185 | 4  | 13 |     | 12 | 14 |     | 12 | 19 | 674 | 7  | 25 |  | 841 | 0  | 29 |
| 34  | 3 | 5  |     | 8  | 11 | 346 | 11 | 15 | 509 | 5  | 22 | 676 | 0  | 26 |  |     | 20 | 21 |
| 36  | 0 | 6  | 193 | 7  | 12 | 349 | 5  | 18 | 512 | 16 | 16 |     | 10 | 24 |  | 842 | 1  | 29 |
| 37  | 1 | 6  | 194 | 5  | 13 | 353 | 8  | 17 | 514 | 15 | 17 | 677 | 1  | 26 |  | 845 | 2  | 29 |
| 40  | 2 | 6  | 196 | 0  | 14 | 356 | 10 | 16 | 520 | 6  | 22 | 680 | 2  | 26 |  |     | 13 | 26 |
| 41  | 4 | 5  | 197 | 1  | 14 | 360 | 6  | 18 |     | 14 | 18 |     | 14 | 22 |  |     | 19 | 22 |
| 45  | 3 | 6  | 200 | 2  | 14 | 361 | 0  | 19 | 521 | 11 | 20 | 685 | 3  | 26 |  | 848 | 8  | 28 |
| 49  | 0 | 7  |     | 10 | 10 | 362 | 1  | 19 | 522 | 9  | 21 |     | 18 | 19 |  | 850 | 3  | 29 |
| 50  | 1 | 7  | 202 | 9  | 11 | 365 | 2  | 19 | 529 | 0  | 23 | 689 | 8  | 25 |  |     | 11 | 27 |
|     | 5 | 5  | 205 | 3  | 14 |     | 13 | 14 | 530 | 1  | 23 |     | 17 | 20 |  |     | 15 | 25 |
| 52  | 4 | 6  |     | 6  | 13 | 369 | 12 | 15 |     | 13 | 19 | 692 | 4  | 26 |  | 853 | 18 | 23 |
| 53  | 2 | 7  | 208 | 8  | 12 | 370 | 3  | 19 | 533 | 2  | 23 | 697 | 11 | 24 |  | 857 | 4  | 29 |
| 58  | 3 | 7  | 212 | 4  | 14 |     | 9  | 17 |     | 7  | 22 |     | 16 | 21 |  | 865 | 9  | 28 |
| 61  | 5 | 6  | 218 | 7  | 13 | 373 | 7  | 18 | 538 | 3  | 23 | 698 | 13 | 23 |  |     | 17 | 24 |
| 64  | 0 | 8  | 221 | 5  | 14 | 377 | 4  | 19 | 541 | 10 | 21 | 701 | 5  | 26 |  | 866 | 5  | 29 |
| 65  | 1 | 8  |     | 10 | 11 |     | 11 | 16 | 544 | 12 | 20 | 706 | 9  | 25 |  | 872 | 14 | 26 |
|     | 4 | 7  | 225 | 0  | 15 | 386 | 5  | 19 | 545 | 4  | 23 | 709 | 15 | 22 |  | 873 | 12 | 27 |
| 68  | 2 | 8  |     | 9  | 12 | 388 | 8  | 18 |     | 16 | 17 | 712 | 6  | 26 |  | 877 | 6  | 29 |
| 72  | 6 | 6  | 226 | 1  | 15 | 389 | 10 | 17 | 548 | 8  | 22 | 720 | 12 | 24 |  | 881 | 16 | 25 |
| 73  | 3 | 8  | 229 | 2  | 15 | 392 | 14 | 14 | 549 | 15 | 18 | 722 | 19 | 19 |  | 882 | 21 | 21 |
| 74  | 5 | 7  | 232 | 6  | 14 | 394 | 13 | 15 | 554 | 5  | 23 | 724 | 18 | 20 |  | 884 | 10 | 28 |
| 80  | 4 | 8  | 233 | 8  | 13 | 397 | 6  | 19 | 557 | 14 | 19 | 725 | 7  | 26 |  |     | 20 | 22 |
| 81  | 0 | 9  | 234 | 3  | 15 | 400 | 0  | 20 | 562 | 11 | 21 |     | 10 | 25 |  | 890 | 7  | 29 |
| 82  | 1 | 9  | 241 | 4  | 15 |     | 12 | 16 | 565 | 6  | 23 |     | 14 | 23 |  |     | 19 | 23 |
| 85  | 2 | 9  | 242 | 11 | 11 | 401 | 1  | 20 |     | 9  | 22 | 729 | 0  | 27 |  | 898 | 13 | 27 |
|     | 6 | 7  | 244 | 10 | 12 | 404 | 2  | 20 | 569 | 13 | 20 | 730 | 1  | 27 |  | 900 | 0  | 30 |
| 89  | 5 | 8  | 245 | 7  | 14 | 405 | 9  | 18 | 576 | 0  | 24 |     | 17 | 21 |  |     | 18 | 24 |
| 90  | 3 | 9  | 250 | 5  | 15 | 409 | 3  | 20 | 577 | 1  | 24 | 733 | 2  | 27 |  | 901 | 1  | 30 |
| 97  | 4 | 9  |     | 9  | 13 | 410 | 7  | 19 | 578 | 7  | 23 | 738 | 3  | 27 |  |     | 15 | 26 |
| 98  | 7 | 7  | 256 | 0  | 16 |     | 11 | 17 |     | 17 | 17 | 740 | 8  | 26 |  | 904 | 2  | 30 |
| 100 | 0 | 10 | 257 | 1  | 16 | 416 | 4  | 20 | 580 | 2  | 24 |     | 16 | 22 |  | 905 | 8  | 29 |
|     | 6 | 8  | 260 | 2  | 16 | 421 | 14 | 15 |     | 16 | 18 | 745 | 4  | 27 |  |     | 11 | 28 |
| 101 | 1 | 10 |     | 8  | 14 | 424 | 10 | 18 | 584 | 10 | 22 |     | 13 | 24 |  | 909 | 3  | 30 |
| 104 | 2 | 10 | 261 | 6  | 15 | 425 | 5  | 20 | 585 | 3  | 24 | 746 | 11 | 25 |  | 914 | 17 | 25 |
| 106 | 5 | 9  | 265 | 3  | 16 |     | 8  | 19 |     | 12 | 21 | 754 | 5  | 27 |  | 916 | 4  | 30 |
| 109 | 3 | 10 |     | 11 | 12 |     | 13 | 16 | 586 | 15 | 19 |     | 15 | 23 |  | 922 | 9  | 29 |
| 113 | 7 | 8  | 269 | 10 | 13 | 433 | 12 | 17 | 592 | 4  | 24 | 757 | 9  | 26 |  | 925 | 5  | 30 |
| 116 | 4 | 10 | 272 | 4  | 16 | 436 | 6  | 20 | 593 | 8  | 23 | 761 | 19 | 20 |  |     | 14 | 27 |
| 117 | 6 | 9  | 274 | 7  | 15 | 441 | 0  | 21 | 596 | 14 | 20 | 765 | 6  | 27 |  |     | 21 | 22 |
| 121 | 0 | 11 | 277 | 9  | 14 | 442 | 1  | 21 | 601 | 5  | 24 |     | 18 | 21 |  | 928 | 12 | 28 |
| 122 | 1 | 11 | 281 | 5  | 16 |     | 9  | 19 | 605 | 11 | 22 | 769 | 12 | 25 |  | 929 | 20 | 23 |
| 125 | 2 | 11 | 288 | 12 | 12 | 445 | 2  | 21 | 610 | 9  | 23 | 772 | 14 | 24 |  | 932 | 16 | 26 |
|     | 5 | 10 | 289 | 0  | 17 |     | 11 | 18 |     | 13 | 21 | 773 | 17 | 22 |  | 936 | 6  | 30 |
| 128 | 8 | 8  |     | 8  | 15 | 449 | 7  | 20 | 612 | 6  | 24 | 776 | 10 | 26 |  | 937 | 19 | 24 |
| 130 | 3 | 11 | 290 | 1  | 17 | 450 | 3  | 21 | 613 | 17 | 18 | 778 | 7  | 27 |  | 941 | 10 | 29 |
|     | 7 | 9  |     | 11 | 13 |     | 15 | 15 | 617 | 16 | 19 | 784 | 0  | 28 |  | 949 | 7  | 30 |
| 136 | 6 | 10 | 292 | 6  | 16 | 452 | 14 | 16 | 625 | 0  | 25 | 785 | 1  | 28 |  |     | 18 | 25 |
| 137 | 4 | 11 | 293 | 2  | 17 | 457 | 4  | 21 |     | 7  | 24 |     | 16 | 23 |  | 953 | 13 | 28 |
| 144 | 0 | 12 | 296 | 10 | 14 | 458 | 13 | 17 |     | 15 | 20 | 788 | 2  | 28 |  | 954 | 15 | 27 |
| 145 | 1 | 12 | 298 | 3  | 17 | 461 | 10 | 19 | 626 | 1  | 25 | 793 | 3  | 28 |  | 961 | 0  | 31 |

|      |       |      |       |      |       |            |      |       |      |       |
|------|-------|------|-------|------|-------|------------|------|-------|------|-------|
| 962  | 1 31  | 1124 | 10 32 | 1289 | 8 35  | 19 33      | 1620 | 18 36 | 1781 | 10 41 |
|      | 11 29 | 1125 | 6 33  | 1296 | 0 36  | 1453 3 38  | 1621 | 10 39 |      | 25 34 |
| 964  | 8 30  |      | 15 30 | 1297 | 1 36  | 1458 27 27 | 1625 | 5 40  | 1789 | 5 42  |
| 965  | 2 31  | 1129 | 20 27 | 1300 | 2 36  | 1460 4 38  |      | 16 37 | 1796 | 14 40 |
|      | 17 26 | 1130 | 13 31 |      | 12 34 | 26 28      |      | 20 35 | 1800 | 6 42  |
| 968  | 22 22 |      | 17 29 |      | 20 30 | 1465 13 36 |      | 28 29 |      | 30 30 |
| 970  | 3 31  | 1138 | 7 33  | 1301 | 25 26 | 21 32      | 1629 | 27 30 | 1801 | 24 35 |
|      | 21 23 | 1145 | 11 32 | 1305 | 3 36  | 1466 25 29 | 1636 | 6 40  | 1802 | 11 41 |
| 976  | 20 24 |      | 19 28 |      | 24 27 | 1469 5 38  | 1637 | 26 31 |      | 29 31 |
| 977  | 4 31  | 1152 | 24 24 | 1306 | 9 35  | 10 37      | 1640 | 14 38 | 1805 | 19 38 |
| 980  | 14 28 | 1153 | 8 33  | 1312 | 4 36  | 1476 24 30 |      | 22 34 | 1808 | 28 32 |
| 981  | 9 30  | 1154 | 23 25 | 1313 | 17 32 | 1480 6 38  | 1642 | 11 39 | 1810 | 17 39 |
| 985  | 12 29 | 1156 | 0 34  |      | 23 28 | 18 34      | 1649 | 7 40  |      | 21 37 |
|      | 16 27 |      | 16 30 | 1314 | 15 33 | 1481 16 35 |      | 25 32 | 1813 | 7 42  |
| 986  | 5 31  | 1157 | 1 34  | 1321 | 5 36  | 1489 20 33 | 1657 | 19 36 | 1818 | 27 33 |
|      | 19 25 |      | 14 31 | 1322 | 19 31 | 1490 11 37 | 1658 | 17 37 | 1825 | 12 41 |
| 997  | 6 31  | 1160 | 2 34  | 1325 | 10 35 | 23 31      | 1664 | 8 40  |      | 15 40 |
| 1000 | 10 30 |      | 22 26 |      | 13 34 | 1492 14 36 | 1665 | 12 39 |      | 23 36 |
|      | 18 26 | 1165 | 3 34  |      | 22 29 | 1493 7 38  |      | 24 33 | 1828 | 8 42  |
| 1009 | 15 28 |      | 18 29 | 1332 | 6 36  | 1508 8 38  | 1666 | 21 35 | 1832 | 26 34 |
| 1010 | 7 31  | 1168 | 12 32 | 1341 | 21 30 | 22 32      | 1669 | 15 38 | 1844 | 20 38 |
|      | 13 29 | 1170 | 9 33  | 1345 | 7 36  | 1513 12 37 | 1681 | 0 41  | 1845 | 9 42  |
| 1013 | 22 23 |      | 21 27 |      | 16 33 | 27 28      |      | 9 40  |      | 18 39 |
| 1017 | 21 24 | 1172 | 4 34  | 1346 | 11 35 | 1514 17 35 | 1682 | 1 41  | 1849 | 0 43  |
| 1018 | 17 27 | 1181 | 5 34  | 1348 | 18 32 | 1517 19 34 |      | 29 29 | 1850 | 1 43  |
| 1021 | 11 30 | 1184 | 20 28 | 1352 | 14 34 | 26 29      | 1684 | 28 30 |      | 13 41 |
| 1024 | 0 32  | 1186 | 15 31 |      | 26 26 | 1521 0 39  | 1685 | 2 41  |      | 25 35 |
| 1025 | 1 32  | 1189 | 10 33 | 1354 | 25 27 | 15 36      |      | 23 34 | 1853 | 2 43  |
|      | 8 31  |      | 17 30 | 1360 | 8 36  | 1522 1 39  | 1690 | 3 41  |      | 22 37 |
|      | 20 25 | 1192 | 6 34  |      | 24 28 | 1525 2 39  |      | 13 39 | 1856 | 16 40 |
| 1028 | 2 32  | 1193 | 13 32 | 1361 | 20 31 | 9 38       |      | 27 31 | 1858 | 3 43  |
| 1033 | 3 32  | 1201 | 24 25 | 1369 | 0 37  | 25 30      | 1693 | 18 37 | 1861 | 30 31 |
| 1037 | 14 29 | 1202 | 19 29 |      | 12 35 | 1530 3 39  | 1696 | 20 36 | 1864 | 10 42 |
|      | 19 26 | 1205 | 7 34  | 1370 | 1 37  | 21 33      | 1697 | 4 41  | 1865 | 4 43  |
| 1040 | 4 32  |      | 23 26 |      | 23 29 | 1537 4 39  | 1700 | 10 40 |      | 29 32 |
|      | 16 28 | 1210 | 11 33 | 1373 | 2 37  | 24 31      |      | 16 38 | 1872 | 24 36 |
| 1042 | 9 31  | 1213 | 22 27 | 1377 | 9 36  | 1538 13 37 |      | 26 32 | 1873 | 28 33 |
| 1044 | 12 30 | 1217 | 16 31 | 1378 | 3 37  | 1544 10 38 | 1706 | 5 41  | 1874 | 5 43  |
| 1049 | 5 32  | 1220 | 8 34  |      | 17 33 | 1546 5 39  | 1709 | 22 35 | 1877 | 14 41 |
| 1053 | 18 27 |      | 14 32 | 1381 | 15 34 | 1549 18 35 | 1714 | 25 33 | 1882 | 19 39 |
| 1058 | 23 23 | 1224 | 18 30 | 1384 | 22 30 | 1552 16 36 | 1717 | 6 41  | 1885 | 6 43  |
| 1060 | 6 32  | 1225 | 0 35  | 1385 | 4 37  | 1553 23 32 |      | 14 39 |      | 11 42 |
|      | 22 24 |      | 21 28 |      | 19 32 | 1556 20 34 | 1721 | 11 40 |      | 21 38 |
| 1061 | 10 31 | 1226 | 1 35  | 1394 | 5 37  | 1557 6 39  | 1730 | 7 41  |      | 27 34 |
| 1066 | 15 29 | 1229 | 2 35  |      | 13 35 | 1565 11 38 |      | 19 37 | 1889 | 17 40 |
|      | 21 25 | 1233 | 12 33 | 1396 | 10 36 | 14 37      | 1732 | 24 34 | 1898 | 7 43  |
| 1069 | 13 30 | 1234 | 3 35  | 1402 | 21 31 | 1568 28 28 | 1733 | 17 38 |      | 23 37 |
| 1073 | 7 32  | 1237 | 9 34  | 1405 | 6 37  | 1570 7 39  | 1737 | 21 36 | 1901 | 26 35 |
|      | 17 28 | 1241 | 4 35  |      | 26 27 | 27 29      | 1741 | 29 30 | 1906 | 15 41 |
| 1076 | 20 26 |      | 20 29 | 1409 | 25 28 | 1573 22 33 | 1744 | 12 40 | 1908 | 12 42 |
| 1082 | 11 31 | 1249 | 15 32 | 1412 | 16 34 | 1576 26 30 | 1745 | 8 41  | 1913 | 8 43  |
| 1088 | 8 32  | 1250 | 5 35  | 1413 | 18 33 | 1585 8 39  |      | 28 31 | 1921 | 20 39 |
| 1089 | 0 33  |      | 17 31 | 1417 | 11 36 | 17 36      | 1746 | 15 39 |      | 25 36 |
| 1090 | 1 33  |      | 25 25 |      | 24 29 | 1586 19 35 | 1753 | 27 32 | 1922 | 31 31 |
|      | 19 27 | 1252 | 24 26 | 1418 | 7 37  | 25 31      | 1754 | 23 35 | 1924 | 18 40 |
| 1093 | 2 33  | 1256 | 10 34 | 1421 | 14 35 | 1588 12 38 | 1762 | 9 41  |      | 30 32 |
| 1096 | 14 30 | 1258 | 13 33 | 1424 | 20 32 | 1594 15 37 | 1764 | 0 42  | 1928 | 22 38 |
| 1097 | 16 29 |      | 23 27 | 1429 | 23 30 | 1597 21 34 | 1765 | 1 42  | 1930 | 9 43  |
| 1098 | 3 33  | 1261 | 6 35  | 1433 | 8 37  | 1600 0 40  |      | 26 33 |      | 29 33 |
| 1105 | 4 33  |      | 19 30 | 1440 | 12 36 | 24 32      | 1768 | 2 42  | 1933 | 13 42 |
|      | 9 32  | 1268 | 22 28 | 1444 | 0 38  | 1601 1 40  |      | 18 38 | 1936 | 0 44  |
|      | 12 31 | 1274 | 7 35  | 1445 | 1 38  | 1602 9 39  | 1769 | 13 40 | 1937 | 1 44  |
|      | 23 24 | 1277 | 11 34 |      | 17 34 | 1604 2 40  |      | 20 37 |      | 16 41 |
| 1108 | 18 28 | 1280 | 16 32 |      | 22 31 | 1609 3 40  | 1773 | 3 42  | 1940 | 2 44  |
| 1109 | 22 25 | 1282 | 21 29 | 1448 | 2 38  | 1613 13 38 | 1777 | 16 39 |      | 28 34 |
| 1114 | 5 33  | 1285 | 14 33 | 1450 | 9 37  | 1616 4 40  | 1780 | 4 42  | 1945 | 3 44  |
| 1117 | 21 26 |      | 18 31 |      | 15 35 | 1618 23 33 |      | 22 36 |      | 24 37 |

|      |       |      |       |      |       |      |       |      |       |      |       |
|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|
| 1949 | 10 43 |      | 26 38 | 2290 | 9 47  |      | 35 35 | 2612 | 26 44 |      | 32 42 |
| 1952 | 4 44  | 2122 | 21 41 |      | 21 43 | 2452 | 34 36 | 2617 | 4 51  | 2789 | 17 50 |
| 1954 | 27 35 | 2125 | 3 46  | 2293 | 23 42 | 2458 | 33 37 | 2621 | 11 50 | 2792 | 26 46 |
| 1960 | 14 42 |      | 10 45 | 2297 | 19 44 | 2465 | 8 49  | 2624 | 32 40 | 2797 | 14 51 |
| 1961 | 5 44  |      | 19 42 | 2304 | 0 48  |      | 16 47 | 2626 | 5 51  | 2801 | 20 49 |
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| 1985 | 7 44  | 2146 | 11 45 | 2313 | 3 48  | 2482 | 9 49  | 2650 | 7 51  | 2817 | 36 39 |
|      | 31 32 |      | 25 39 | 2314 | 17 45 |      | 31 39 |      | 21 47 | 2818 | 3 53  |
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| 8144 20 88 | 8320 24 88 |       | 52 76      | 8653 2 93  | 44 83      | 8993 23 92 |
| 8145 24 87 |            | 56 72 | 8482 61 69 | 42 83      | 8829 27 90 | 8996 40 86 |
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