

Bordered Magic Squares Multiples of 14

The work is also available at author's site:

<https://numbers-magic.com/?p=812>

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Abstract

*During past years author worked with **block-wise**, **bordered** and **block-bordered** magic squares. This work make connection between **block-wise** and **bordered** magic squares. We first constructed **bordered** magic squares of orders 140 and 126 multiples of magic square of order 14. Based on these two big magic squares lower order magic squares are obtained. By lower orders we understand that magic squares of orders 112, 98, 84, etc. The construction of the **bordered** magic squares multiples of 14 is based on equal sum blocks of magic squares of order 14. We considered 46 different types of magic square of order 14. The advantage in studying **bordered** magic squares is that when we remove external border, still we left with magic squares with sequential entries. For multiples of order 4, 6, 8, 10 and 12 see author's work [24, 25, 26, 27, 28]. The further multiples, such as multiples, 16, 18, etc. shall be done in another works. This work brings examples only up to order 42. Higher orders examples can be seen in **Excel files** attached with the work. The total work is up to order 140.*

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1 Introduction

During past years author [3, 4, 5, 6, 7, 8, 9] worked with **block-wise** magic squares from orders 12 to 47. Author [10, 11, 12, 13, 14, 15] also worked with **bordered** magic squares. The study on **bordered** magic squares is extended to **block-bordered** magic squares [16, 17, 18]. This is specially done for the magic squares of orders p and p , where p is a prime number. This study is still extended to **block-wise bordered** magic squares [19, 20, 21, 22]. Some conection with Pythagorean triples and area-representations are also made [24, 25, 26, 27, 28]. The main property of **bordered** magic squares is that if we remove external borders, still we get **sub-bordered** magic squares, i.e., each layer in itself lead us to magic squares. In many cases, the properties of **bordered** magic square are seperated by **even** and **odd** orders magic squares. In many cases, we get good properties for the **even** order **bordered** magic squares. In many cases, we have to use fractional numbers entries, specially to reach minimum perfect square sum of entries. For more study on **bordered** magic squares refer H. White's [1] and H. Danielsson's [2] web-sites.

1.1 Summary of Bordered Magic Squares

1.1.1 Odd Numbers Multiples

- **Single Digit:** Bordered magic squares based on single digit [10, 11, 1].
- **Three Digits:** Bordered magic squares based on magic squares of order 3 [30].
- **Five Digits:** Bordered magic squares multiples of magic squares of order 5 [31].
- **Seven Digits:** Bordered magic squares multiples of magic squares of order 7 [32].
- **Nine Digits:** Bordered magic squares multiples of magic squares of order 9 [33]
- **Eleven Digits:** Bordered magic squares multiples of magic squares of order 11 [34]
- **Thirteen Digits:** Bordered magic squares multiples of magic squares of order 13 [35]
- **Fifteen Digits:** Bordered magic squares multiples of magic squares of order 15 [36]
- **Seventeen Digits:** Bordered magic squares multiples of magic squares of order 17 [37]
- **Nineteen Digits:** Bordered magic squares multiples of magic squares of order 19 [38]

1.1.2 Even Numbers Multiples

- **Two Digits:** Bordered magic squares based on magic rectangles multiples of 2 [78, 79, 67, 68, 68, 69].
- **Four Digits:** Bordered magic squares multiples of magic squares of order 4 [24].
- **Six Digits:** Bordered magic squares multiples of magic squares of order 6 [25]
- **Eight Digits:** Bordered magic squares multiples of magic squares of order 8 [26]
- **Ten Digits:** Bordered magic squares multiples of magic squares of order 10 [27]
- **Ten Digits:** Bordered magic squares multiples of magic squares of order 12 [28]
- **Fourteen Digits:** Bordered magic squares multiples of magic squares of order 12 [29] (This work)

The work on even number multiples is with equal sums blocks of magic squares. The work on odd number multiples is with different sum magic squares.

It is revised and extended version of authors previous work on multiples of 14. Previous version still remains online at the same place. Here we have considered 46 different types of magic squares of order 14. The work is here only up to order 42. Higher order examples can be seen in an **excel files** attached with the work.

2 Bordered Magic Squares Multiples of 14

Let's consider following 46 magic squares of order 14.

| 1 | mgc | 1709 | 1574 | 1649 | 1499 | 1079 | 1454 | 1094 | 1049 | 1229 | 929 | 1274 | 1514 | 1874 | 1379 |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1 | 95 | 191 | 112 | 138 | 78 | 58 | 32 | 17 | 159 | 146 | 178 | 125 | 49 | 1379 |
| | 147 | 16 | 110 | 176 | 188 | 127 | 87 | 117 | 4 | 53 | 70 | 83 | 38 | 163 | 1379 |
| | 126 | 162 | 31 | 137 | 172 | 63 | 80 | 6 | 47 | 26 | 97 | 99 | 149 | 184 | 1379 |
| | 190 | 111 | 150 | 46 | 155 | 115 | 5 | 77 | 34 | 170 | 23 | 96 | 140 | 67 | 1379 |
| | 164 | 84 | 55 | 12 | 121 | 86 | 29 | 101 | 133 | 62 | 173 | 25 | 186 | 148 | 1379 |
| | 104 | 10 | 89 | 37 | 21 | 166 | 179 | 154 | 195 | 74 | 44 | 134 | 59 | 113 | 1379 |
| | 19 | 35 | 132 | 57 | 3 | 153 | 196 | 165 | 180 | 92 | 122 | 51 | 72 | 102 | 1379 |
| | 45 | 65 | 71 | 90 | 36 | 193 | 152 | 181 | 168 | 119 | 130 | 2 | 103 | 24 | 1379 |
| | 30 | 43 | 60 | 73 | 94 | 182 | 167 | 194 | 151 | 107 | 7 | 118 | 22 | 131 | 1379 |
| | 68 | 144 | 156 | 27 | 75 | 48 | 105 | 93 | 120 | 136 | 183 | 42 | 11 | 171 | 1379 |
| | 81 | 187 | 175 | 114 | 69 | 18 | 135 | 52 | 85 | 14 | 106 | 143 | 160 | 40 | 1379 |
| | 139 | 174 | 8 | 161 | 142 | 108 | 116 | 15 | 79 | 185 | 39 | 61 | 54 | 98 | 1379 |
| | 177 | 129 | 123 | 192 | 56 | 33 | 20 | 64 | 100 | 141 | 82 | 158 | 91 | 13 | 1379 |
| | 88 | 124 | 28 | 145 | 109 | 9 | 50 | 128 | 66 | 41 | 157 | 189 | 169 | 76 | 1379 |
| | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 2 | mgc | 1341 | 1540 | 1284 | 1358 | 1354 | 1290 | 1577 | 1401 | 1273 | 1393 | 1227 | 1505 | 1384 | 1379 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 14 | 8 | 188 | 10 | 186 | 12 | 196 | 7 | 182 | 16 | 180 | 18 | 178 | 184 | 1379 | |
| 195 | 160 | 169 | 29 | 167 | 31 | 27 | 48 | 150 | 46 | 152 | 44 | 159 | 2 | 1379 | |
| 3 | 42 | 139 | 134 | 64 | 132 | 66 | 62 | 52 | 146 | 50 | 140 | 155 | 194 | 1379 | |
| 193 | 41 | 61 | 74 | 68 | 128 | 130 | 117 | 79 | 119 | 73 | 136 | 156 | 4 | 1379 | |
| 5 | 157 | 137 | 71 | 112 | 110 | 83 | 116 | 84 | 86 | 126 | 60 | 40 | 192 | 1379 | |
| 191 | 158 | 59 | 72 | 82 | 97 | 102 | 91 | 104 | 115 | 125 | 138 | 39 | 6 | 1379 | |
| 177 | 165 | 144 | 77 | 88 | 92 | 103 | 98 | 101 | 109 | 120 | 53 | 32 | 20 | 1379 | |
| 171 | 154 | 49 | 127 | 90 | 106 | 93 | 100 | 95 | 107 | 70 | 148 | 43 | 26 | 1379 | |
| 25 | 36 | 141 | 122 | 108 | 99 | 96 | 105 | 94 | 89 | 75 | 56 | 161 | 172 | 1379 | |
| 173 | 35 | 55 | 121 | 111 | 87 | 114 | 81 | 113 | 85 | 76 | 142 | 162 | 24 | 1379 | |
| 23 | 163 | 143 | 124 | 129 | 69 | 67 | 80 | 118 | 78 | 123 | 54 | 34 | 174 | 1379 | |
| 175 | 33 | 57 | 63 | 133 | 65 | 131 | 135 | 145 | 51 | 147 | 58 | 164 | 22 | 1379 | |
| 21 | 38 | 28 | 168 | 30 | 166 | 170 | 149 | 47 | 151 | 45 | 153 | 37 | 176 | 1379 | |
| 13 | 189 | 9 | 187 | 11 | 185 | 1 | 190 | 15 | 181 | 17 | 179 | 19 | 183 | 1379 | |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | |

| 3 | mgc | 1263 | 1532 | 1460 | 1141 | 1450 | 1291 | 1293 | 1392 | 1487 | 1321 | 1417 | 1402 | 1478 | 1379 |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 14 | 8 | 188 | 10 | 186 | 12 | 196 | 7 | 182 | 16 | 180 | 18 | 178 | 184 | 1379 |
| | 195 | 124 | 27 | 77 | 98 | 48 | 145 | 104 | 54 | 151 | 166 | 69 | 119 | 2 | 1379 |
| | 3 | 29 | 76 | 123 | 144 | 97 | 50 | 150 | 103 | 56 | 71 | 118 | 165 | 194 | 1379 |
| | 193 | 75 | 125 | 28 | 49 | 146 | 96 | 55 | 152 | 102 | 117 | 167 | 70 | 4 | 1379 |
| | 5 | 157 | 60 | 110 | 113 | 63 | 160 | 83 | 33 | 130 | 139 | 42 | 92 | 192 | 1379 |
| | 191 | 62 | 109 | 156 | 159 | 112 | 65 | 129 | 82 | 35 | 44 | 91 | 138 | 6 | 1379 |
| | 177 | 108 | 158 | 61 | 64 | 161 | 111 | 34 | 131 | 81 | 90 | 140 | 43 | 20 | 1379 |
| | 171 | 93 | 143 | 46 | 31 | 128 | 78 | 73 | 170 | 120 | 99 | 149 | 52 | 26 | 1379 |
| | 25 | 47 | 94 | 141 | 126 | 79 | 32 | 168 | 121 | 74 | 53 | 100 | 147 | 172 | 1379 |
| | 173 | 142 | 45 | 95 | 80 | 30 | 127 | 122 | 72 | 169 | 148 | 51 | 101 | 24 | 1379 |
| | 23 | 114 | 164 | 67 | 58 | 155 | 105 | 40 | 137 | 87 | 84 | 134 | 37 | 174 | 1379 |
| | 175 | 68 | 115 | 162 | 153 | 106 | 59 | 135 | 88 | 41 | 38 | 85 | 132 | 22 | 1379 |
| | 21 | 163 | 66 | 116 | 107 | 57 | 154 | 89 | 39 | 136 | 133 | 36 | 86 | 176 | 1379 |
| | 13 | 189 | 9 | 187 | 11 | 185 | 1 | 190 | 15 | 181 | 17 | 179 | 19 | 183 | 1379 |
| | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 4 | mgc | 1306 | 1410 | 1313 | 1372 | 1417 | 1236 | 1520 | 1323 | 1447 | 1400 | 1335 | 1338 | 1510 | 1379 |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 14 | 8 | 188 | 10 | 186 | 12 | 196 | 7 | 182 | 16 | 180 | 18 | 178 | 184 | 1379 |
| | 195 | 81 | 134 | 27 | 152 | 82 | 133 | 28 | 151 | 83 | 132 | 29 | 150 | 2 | 1379 |
| | 3 | 44 | 135 | 98 | 117 | 43 | 136 | 97 | 118 | 42 | 137 | 96 | 119 | 194 | 1379 |
| | 193 | 170 | 45 | 116 | 63 | 169 | 46 | 115 | 64 | 168 | 47 | 114 | 65 | 4 | 1379 |
| | 5 | 99 | 80 | 153 | 62 | 100 | 79 | 154 | 61 | 101 | 78 | 155 | 60 | 192 | 1379 |
| | 191 | 84 | 131 | 30 | 149 | 85 | 130 | 31 | 148 | 86 | 129 | 32 | 147 | 6 | 1379 |
| | 177 | 41 | 138 | 95 | 120 | 40 | 139 | 94 | 121 | 39 | 140 | 93 | 122 | 20 | 1379 |
| | 171 | 167 | 48 | 113 | 66 | 166 | 49 | 112 | 67 | 165 | 50 | 111 | 68 | 26 | 1379 |
| | 25 | 102 | 77 | 156 | 59 | 103 | 76 | 157 | 58 | 104 | 75 | 158 | 57 | 172 | 1379 |
| | 173 | 87 | 128 | 33 | 146 | 88 | 127 | 34 | 145 | 89 | 126 | 35 | 144 | 24 | 1379 |
| | 23 | 38 | 141 | 92 | 123 | 37 | 142 | 91 | 124 | 36 | 143 | 90 | 125 | 174 | 1379 |
| | 175 | 164 | 51 | 110 | 69 | 163 | 52 | 109 | 70 | 162 | 53 | 108 | 71 | 22 | 1379 |
| | 21 | 105 | 74 | 159 | 56 | 106 | 73 | 160 | 55 | 107 | 72 | 161 | 54 | 176 | 1379 |
| | 13 | 189 | 9 | 187 | 11 | 185 | 1 | 190 | 15 | 181 | 17 | 179 | 19 | 183 | 1379 |
| | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 5 | mgc | 1136 | 1391 | 1305 | 1671 | 1373 | 1321 | 1347 | 1300 | 1204 | 1552 | 1526 | 1628 | 1173 | 1379 |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 14 | 8 | 188 | 10 | 186 | 12 | 196 | 7 | 182 | 16 | 180 | 18 | 178 | 184 | 1379 |
| | 195 | 27 | 163 | 162 | 155 | 34 | 50 | 28 | 164 | 161 | 156 | 33 | 49 | 2 | 1379 |
| | 3 | 146 | 58 | 138 | 59 | 67 | 123 | 145 | 57 | 137 | 60 | 68 | 124 | 194 | 1379 |
| | 193 | 122 | 115 | 83 | 90 | 106 | 75 | 121 | 116 | 84 | 89 | 105 | 76 | 4 | 1379 |
| | 5 | 98 | 82 | 107 | 114 | 91 | 99 | 97 | 81 | 108 | 113 | 92 | 100 | 192 | 1379 |
| | 191 | 51 | 130 | 66 | 131 | 139 | 74 | 52 | 129 | 65 | 132 | 140 | 73 | 6 | 1379 |
| | 177 | 147 | 43 | 35 | 42 | 154 | 170 | 148 | 44 | 36 | 41 | 153 | 169 | 20 | 1379 |
| | 171 | 29 | 165 | 160 | 157 | 32 | 48 | 30 | 166 | 159 | 158 | 31 | 47 | 26 | 1379 |
| | 25 | 144 | 56 | 136 | 61 | 69 | 125 | 143 | 55 | 135 | 62 | 70 | 126 | 172 | 1379 |
| | 173 | 120 | 117 | 85 | 88 | 104 | 77 | 119 | 118 | 86 | 87 | 103 | 78 | 24 | 1379 |
| | 23 | 96 | 80 | 109 | 112 | 93 | 101 | 95 | 79 | 110 | 111 | 94 | 102 | 174 | 1379 |
| | 175 | 53 | 128 | 64 | 133 | 141 | 72 | 54 | 127 | 63 | 134 | 142 | 71 | 22 | 1379 |
| | 21 | 149 | 45 | 37 | 40 | 152 | 168 | 150 | 46 | 38 | 39 | 151 | 167 | 176 | 1379 |
| | 13 | 189 | 9 | 187 | 11 | 185 | 1 | 190 | 15 | 181 | 17 | 179 | 19 | 183 | 1379 |
| | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 6 | mgc | 1369 | 1516 | 1290 | 1402 | 1132 | 1215 | 1652 | 1415 | 1489 | 1497 | 1127 | 1390 | 1433 | 1379 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 14 | 8 | 188 | 10 | 186 | 12 | 196 | 7 | 182 | 16 | 180 | 18 | 178 | 184 | 1379 | |
| 195 | 166 | 164 | 29 | 170 | 30 | 32 | 148 | 146 | 47 | 152 | 48 | 50 | 2 | 1379 | |
| 3 | 28 | 43 | 156 | 37 | 158 | 169 | 46 | 61 | 138 | 55 | 140 | 151 | 194 | 1379 | |
| 193 | 34 | 38 | 157 | 44 | 155 | 163 | 52 | 56 | 139 | 62 | 137 | 145 | 4 | 1379 | |
| 5 | 36 | 160 | 39 | 154 | 41 | 161 | 54 | 142 | 57 | 136 | 59 | 143 | 192 | 1379 | |
| 191 | 162 | 153 | 42 | 159 | 40 | 35 | 144 | 135 | 60 | 141 | 58 | 53 | 6 | 1379 | |
| 177 | 165 | 33 | 168 | 27 | 167 | 31 | 147 | 51 | 150 | 45 | 149 | 49 | 20 | 1379 | |
| 171 | 112 | 110 | 83 | 116 | 84 | 86 | 130 | 128 | 65 | 134 | 66 | 68 | 26 | 1379 | |
| 25 | 82 | 97 | 102 | 91 | 104 | 115 | 64 | 79 | 120 | 73 | 122 | 133 | 172 | 1379 | |
| 173 | 88 | 92 | 103 | 98 | 101 | 109 | 70 | 74 | 121 | 80 | 119 | 127 | 24 | 1379 | |
| 23 | 90 | 106 | 93 | 100 | 95 | 107 | 72 | 124 | 75 | 118 | 77 | 125 | 174 | 1379 | |
| 175 | 108 | 99 | 96 | 105 | 94 | 89 | 126 | 117 | 78 | 123 | 76 | 71 | 22 | 1379 | |
| 21 | 111 | 87 | 114 | 81 | 113 | 85 | 129 | 69 | 132 | 63 | 131 | 67 | 176 | 1379 | |
| 13 | 189 | 9 | 187 | 11 | 185 | 1 | 190 | 15 | 181 | 17 | 179 | 19 | 183 | 1379 | |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | |

| | | | | | | | | | | | | | | | |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 7 | mgc | 1552 | 1293 | 1375 | 1606 | 1109 | 1484 | 1046 | 1617 | 1059 | 1822 | 1209 | 1533 | 1222 | 1379 |
| | 1 | 3 | 195 | 193 | 192 | 191 | 7 | 8 | 9 | 187 | 11 | 185 | 13 | 184 | 1379 |
| | 196 | 194 | 2 | 4 | 5 | 6 | 190 | 189 | 188 | 10 | 186 | 12 | 15 | 182 | 1379 |
| | 37 | 160 | 49 | 147 | 94 | 110 | 66 | 122 | 103 | 135 | 78 | 81 | 183 | 14 | 1379 |
| | 159 | 38 | 124 | 60 | 146 | 91 | 108 | 87 | 129 | 52 | 113 | 75 | 181 | 16 | 1379 |
| | 39 | 158 | 90 | 116 | 71 | 138 | 84 | 65 | 127 | 99 | 142 | 53 | 180 | 17 | 1379 |
| | 157 | 40 | 118 | 55 | 123 | 82 | 69 | 131 | 96 | 140 | 64 | 107 | 179 | 18 | 1379 |
| | 156 | 41 | 102 | 79 | 117 | 125 | 93 | 70 | 144 | 68 | 51 | 136 | 19 | 178 | 1379 |
| | 155 | 42 | 133 | 92 | 59 | 77 | 145 | 104 | 58 | 111 | 86 | 120 | 20 | 177 | 1379 |
| | 43 | 154 | 76 | 101 | 88 | 54 | 130 | 143 | 115 | 97 | 119 | 62 | 21 | 176 | 1379 |
| | 44 | 153 | 85 | 73 | 132 | 139 | 57 | 98 | 61 | 126 | 100 | 114 | 175 | 22 | 1379 |
| | 45 | 152 | 141 | 128 | 105 | 63 | 112 | 56 | 80 | 74 | 137 | 89 | 23 | 174 | 1379 |
| | 47 | 150 | 67 | 134 | 50 | 106 | 121 | 109 | 72 | 83 | 95 | 148 | 173 | 24 | 1379 |
| | 151 | 46 | 25 | 171 | 27 | 169 | 168 | 167 | 31 | 32 | 33 | 35 | 163 | 161 | 1379 |
| | 149 | 48 | 172 | 26 | 170 | 28 | 29 | 30 | 166 | 165 | 164 | 162 | 34 | 36 | 1379 |
| | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 8 | mgc | 1394 | 1555 | 1337 | 1680 | 1116 | 1443 | 1057 | 1483 | 1011 | 1719 | 1283 | 1561 | 1288 | 1379 |
| 1 | 3 | 195 | 193 | 192 | 191 | 7 | 8 | 9 | 187 | 11 | 185 | 13 | 184 | 1379 | |
| 196 | 194 | 2 | 4 | 5 | 6 | 190 | 189 | 188 | 10 | 186 | 12 | 15 | 182 | 1379 | |
| 37 | 160 | 139 | 132 | 134 | 146 | 66 | 64 | 62 | 52 | 50 | 140 | 183 | 14 | 1379 | |
| 159 | 38 | 61 | 74 | 68 | 128 | 130 | 117 | 79 | 119 | 73 | 136 | 181 | 16 | 1379 | |
| 39 | 158 | 59 | 71 | 112 | 110 | 83 | 116 | 84 | 86 | 126 | 138 | 180 | 17 | 1379 | |
| 157 | 40 | 55 | 72 | 82 | 97 | 102 | 91 | 104 | 115 | 125 | 142 | 179 | 18 | 1379 | |
| 156 | 41 | 49 | 77 | 88 | 92 | 103 | 98 | 101 | 109 | 120 | 148 | 19 | 178 | 1379 | |
| 155 | 42 | 137 | 127 | 90 | 106 | 93 | 100 | 95 | 107 | 70 | 60 | 20 | 177 | 1379 | |
| 43 | 154 | 141 | 122 | 108 | 99 | 96 | 105 | 94 | 89 | 75 | 56 | 21 | 176 | 1379 | |
| 44 | 153 | 143 | 121 | 111 | 87 | 114 | 81 | 113 | 85 | 76 | 54 | 175 | 22 | 1379 | |
| 45 | 152 | 144 | 124 | 129 | 69 | 67 | 80 | 118 | 78 | 123 | 53 | 23 | 174 | 1379 | |
| 47 | 150 | 57 | 65 | 63 | 51 | 131 | 133 | 135 | 145 | 147 | 58 | 173 | 24 | 1379 | |
| 151 | 46 | 25 | 171 | 27 | 169 | 168 | 167 | 31 | 32 | 33 | 35 | 163 | 161 | 1379 | |
| 149 | 48 | 172 | 26 | 170 | 28 | 29 | 30 | 166 | 165 | 164 | 162 | 34 | 36 | 1379 | |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | |

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|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 9 | mgc | 1382 | 1575 | 1296 | 1635 | 1082 | 1422 | 1222 | 1584 | 1021 | 1694 | 1355 | 1493 | 1166 | 1379 |
| 1 | 3 | 195 | 193 | 192 | 191 | 7 | 8 | 9 | 187 | 11 | 185 | 13 | 184 | 1379 | |
| 196 | 194 | 2 | 4 | 5 | 6 | 190 | 189 | 188 | 10 | 186 | 12 | 15 | 182 | 1379 | |
| 37 | 160 | 51 | 49 | 147 | 145 | 144 | 54 | 142 | 56 | 57 | 140 | 183 | 14 | 1379 | |
| 159 | 38 | 146 | 148 | 50 | 52 | 53 | 143 | 55 | 141 | 59 | 138 | 181 | 16 | 1379 | |
| 39 | 158 | 73 | 124 | 81 | 115 | 114 | 113 | 82 | 86 | 139 | 58 | 180 | 17 | 1379 | |
| 157 | 40 | 123 | 74 | 110 | 88 | 108 | 89 | 91 | 105 | 137 | 60 | 179 | 18 | 1379 | |
| 156 | 41 | 75 | 122 | 104 | 103 | 95 | 96 | 100 | 93 | 136 | 61 | 19 | 178 | 1379 | |
| 155 | 42 | 121 | 76 | 98 | 94 | 101 | 102 | 97 | 99 | 62 | 135 | 20 | 177 | 1379 | |
| 43 | 154 | 120 | 77 | 87 | 106 | 90 | 107 | 109 | 92 | 134 | 63 | 21 | 176 | 1379 | |
| 44 | 153 | 118 | 79 | 111 | 85 | 83 | 84 | 112 | 116 | 64 | 133 | 175 | 22 | 1379 | |
| 45 | 152 | 80 | 117 | 65 | 131 | 67 | 129 | 72 | 70 | 126 | 128 | 23 | 174 | 1379 | |
| 47 | 150 | 78 | 119 | 132 | 66 | 130 | 68 | 125 | 127 | 71 | 69 | 173 | 24 | 1379 | |
| 151 | 46 | 25 | 171 | 27 | 169 | 168 | 167 | 31 | 32 | 33 | 35 | 163 | 161 | 1379 | |
| 149 | 48 | 172 | 26 | 170 | 28 | 29 | 30 | 166 | 165 | 164 | 162 | 34 | 36 | 1379 | |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | |

| | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 10 | mgc | 1366 | 1597 | 1269 | 1652 | 1077 | 1422 | 1222 | 1584 | 1026 | 1694 | 1338 | 1488 | 1192 | 1379 |
| 1 | 3 | 195 | 193 | 192 | 191 | 7 | 8 | 9 | 187 | 11 | 185 | 13 | 184 | 1379 | |
| 196 | 194 | 2 | 4 | 5 | 6 | 190 | 189 | 188 | 10 | 186 | 12 | 15 | 182 | 1379 | |
| 37 | 160 | 51 | 49 | 147 | 145 | 144 | 54 | 142 | 56 | 57 | 140 | 183 | 14 | 1379 | |
| 159 | 38 | 146 | 148 | 50 | 52 | 53 | 143 | 55 | 141 | 59 | 138 | 181 | 16 | 1379 | |
| 39 | 158 | 73 | 124 | 86 | 110 | 83 | 116 | 84 | 112 | 139 | 58 | 180 | 17 | 1379 | |
| 157 | 40 | 123 | 74 | 115 | 97 | 102 | 91 | 104 | 82 | 137 | 60 | 179 | 18 | 1379 | |
| 156 | 41 | 75 | 122 | 109 | 92 | 103 | 98 | 101 | 88 | 136 | 61 | 19 | 178 | 1379 | |
| 155 | 42 | 121 | 76 | 107 | 106 | 93 | 100 | 95 | 90 | 62 | 135 | 20 | 177 | 1379 | |
| 43 | 154 | 120 | 77 | 89 | 99 | 96 | 105 | 94 | 108 | 134 | 63 | 21 | 176 | 1379 | |
| 44 | 153 | 118 | 79 | 85 | 87 | 114 | 81 | 113 | 111 | 64 | 133 | 175 | 22 | 1379 | |
| 45 | 152 | 80 | 117 | 65 | 131 | 67 | 129 | 72 | 70 | 126 | 128 | 23 | 174 | 1379 | |
| 47 | 150 | 78 | 119 | 132 | 66 | 130 | 68 | 125 | 127 | 71 | 69 | 173 | 24 | 1379 | |
| 151 | 46 | 25 | 171 | 27 | 169 | 168 | 167 | 31 | 32 | 33 | 35 | 163 | 161 | 1379 | |
| 149 | 48 | 172 | 26 | 170 | 28 | 29 | 30 | 166 | 165 | 164 | 162 | 34 | 36 | 1379 | |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | |

| | | | | | | | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 11 | mgc | 1321 | 1535 | 1342 | 1638 | 1181 | 1488 | 1008 | 1618 | 1120 | 1715 | 1288 | 1545 | 1128 | 1379 |
| | 1 | 3 | 195 | 193 | 192 | 191 | 7 | 8 | 9 | 187 | 11 | 185 | 13 | 184 | 1379 |
| | 196 | 194 | 2 | 4 | 5 | 6 | 190 | 189 | 188 | 10 | 186 | 12 | 15 | 182 | 1379 |
| | 37 | 160 | 139 | 132 | 134 | 146 | 50 | 64 | 62 | 52 | 66 | 140 | 183 | 14 | 1379 |
| | 159 | 38 | 61 | 69 | 67 | 129 | 127 | 126 | 124 | 74 | 72 | 136 | 181 | 16 | 1379 |
| | 39 | 158 | 59 | 128 | 130 | 68 | 70 | 71 | 73 | 123 | 125 | 138 | 180 | 17 | 1379 |
| | 157 | 40 | 55 | 83 | 114 | 97 | 102 | 91 | 104 | 108 | 89 | 142 | 179 | 18 | 1379 |
| | 156 | 41 | 144 | 86 | 111 | 92 | 103 | 98 | 101 | 109 | 88 | 53 | 19 | 178 | 1379 |
| | 155 | 42 | 137 | 113 | 84 | 106 | 93 | 100 | 95 | 90 | 107 | 60 | 20 | 177 | 1379 |
| | 43 | 154 | 141 | 112 | 85 | 99 | 96 | 105 | 94 | 87 | 110 | 56 | 21 | 176 | 1379 |
| | 44 | 153 | 143 | 119 | 121 | 75 | 77 | 82 | 80 | 116 | 118 | 54 | 175 | 22 | 1379 |
| | 45 | 152 | 49 | 78 | 76 | 122 | 120 | 115 | 117 | 81 | 79 | 148 | 23 | 174 | 1379 |
| | 47 | 150 | 57 | 65 | 63 | 51 | 147 | 133 | 135 | 145 | 131 | 58 | 173 | 24 | 1379 |
| | 151 | 46 | 25 | 171 | 27 | 169 | 168 | 167 | 31 | 32 | 33 | 35 | 163 | 161 | 1379 |
| | 149 | 48 | 172 | 26 | 170 | 28 | 29 | 30 | 166 | 165 | 164 | 162 | 34 | 36 | 1379 |
| | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 12 | mgc | 1236 | 1502 | 1325 | 1341 | 1512 | 1646 | 1109 | 1340 | 1366 | 1343 | 1452 | 1303 | 1452 | 1379 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 183 | 172 | 174 | 176 | 192 | 194 | 26 | 24 | 22 | 20 | 6 | 4 | 2 | 184 | 1379 |
| | 19 | 30 | 27 | 169 | 168 | 31 | 165 | 164 | 34 | 35 | 38 | 160 | 161 | 178 | 1379 |
| | 17 | 167 | 170 | 28 | 29 | 166 | 32 | 33 | 163 | 162 | 159 | 37 | 36 | 180 | 1379 |
| | 15 | 63 | 134 | 69 | 67 | 129 | 127 | 126 | 124 | 74 | 72 | 39 | 158 | 182 | 1379 |
| | 11 | 133 | 64 | 128 | 130 | 68 | 70 | 71 | 73 | 123 | 125 | 157 | 40 | 186 | 1379 |
| | 9 | 132 | 65 | 83 | 114 | 97 | 102 | 91 | 104 | 87 | 110 | 156 | 41 | 188 | 1379 |
| | 1 | 66 | 131 | 86 | 111 | 92 | 103 | 98 | 101 | 90 | 107 | 42 | 155 | 196 | 1379 |
| | 179 | 59 | 138 | 113 | 84 | 106 | 93 | 100 | 95 | 109 | 88 | 43 | 154 | 18 | 1379 |
| | 181 | 137 | 60 | 112 | 85 | 99 | 96 | 105 | 94 | 108 | 89 | 153 | 44 | 16 | 1379 |
| | 185 | 136 | 61 | 119 | 121 | 75 | 77 | 82 | 80 | 116 | 118 | 152 | 45 | 12 | 1379 |
| | 187 | 62 | 135 | 78 | 76 | 122 | 120 | 115 | 117 | 81 | 79 | 46 | 151 | 10 | 1379 |
| | 189 | 141 | 140 | 58 | 55 | 51 | 145 | 144 | 54 | 148 | 149 | 47 | 50 | 8 | 1379 |
| | 190 | 56 | 57 | 139 | 142 | 146 | 52 | 53 | 143 | 49 | 48 | 150 | 147 | 7 | 1379 |
| 13 | 25 | 23 | 21 | 5 | 3 | 171 | 173 | 175 | 177 | 191 | 193 | 195 | 14 | 1379 | |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 13 | mgc | 1291 | 1497 | 1277 | 1344 | 1487 | 1647 | 1128 | 1339 | 1348 | 1342 | 1426 | 1306 | 1495 | 1379 |
|---|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 183 | | 172 | 174 | 176 | 192 | 194 | 26 | 24 | 22 | 20 | 6 | 4 | 2 | 184 | 1379 |
| 19 | | 30 | 27 | 169 | 168 | 31 | 165 | 164 | 34 | 35 | 38 | 160 | 161 | 178 | 1379 |
| 17 | | 167 | 170 | 28 | 29 | 166 | 32 | 33 | 163 | 162 | 159 | 37 | 36 | 180 | 1379 |
| 15 | | 63 | 134 | 73 | 126 | 67 | 128 | 81 | 118 | 75 | 120 | 39 | 158 | 182 | 1379 |
| 11 | | 133 | 64 | 68 | 127 | 74 | 125 | 76 | 119 | 82 | 117 | 157 | 40 | 186 | 1379 |
| 9 | | 132 | 65 | 130 | 69 | 124 | 71 | 122 | 77 | 116 | 79 | 156 | 41 | 188 | 1379 |
| 1 | | 66 | 131 | 123 | 72 | 129 | 70 | 115 | 80 | 121 | 78 | 42 | 155 | 196 | 1379 |
| 179 | | 59 | 138 | 89 | 110 | 83 | 112 | 97 | 102 | 91 | 104 | 43 | 154 | 18 | 1379 |
| 181 | | 137 | 60 | 84 | 111 | 90 | 109 | 92 | 103 | 98 | 101 | 153 | 44 | 16 | 1379 |
| 185 | | 136 | 61 | 114 | 85 | 108 | 87 | 106 | 93 | 100 | 95 | 152 | 45 | 12 | 1379 |
| 187 | | 62 | 135 | 107 | 88 | 113 | 86 | 99 | 96 | 105 | 94 | 46 | 151 | 10 | 1379 |
| 189 | | 141 | 140 | 58 | 55 | 51 | 145 | 144 | 54 | 148 | 149 | 47 | 50 | 8 | 1379 |
| 190 | | 56 | 57 | 139 | 142 | 146 | 52 | 53 | 143 | 49 | 48 | 150 | 147 | 7 | 1379 |
| 13 | | 25 | 23 | 21 | 5 | 3 | 171 | 173 | 175 | 177 | 191 | 193 | 195 | 14 | 1379 |
| 1379 1379 1379 1379 1379 1379 1379 1379 1379 1379 1379 1379 1379 1379 1379 1379 | | | | | | | | | | | | | | | |

| 14 | mgc | 1330 | 1520 | 1282 | 1302 | 1468 | 1601 | 1158 | 1284 | 1336 | 1347 | 1447 | 1319 | 1533 | 1379 |
|---|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 183 | | 172 | 174 | 176 | 192 | 194 | 26 | 24 | 22 | 20 | 6 | 4 | 2 | 184 | 1379 |
| 19 | | 30 | 27 | 169 | 168 | 31 | 165 | 164 | 34 | 35 | 38 | 160 | 161 | 178 | 1379 |
| 17 | | 167 | 170 | 28 | 29 | 166 | 32 | 33 | 163 | 162 | 159 | 37 | 36 | 180 | 1379 |
| 15 | | 63 | 134 | 74 | 68 | 128 | 130 | 117 | 79 | 119 | 73 | 39 | 158 | 182 | 1379 |
| 11 | | 133 | 64 | 71 | 112 | 110 | 83 | 116 | 84 | 86 | 126 | 157 | 40 | 186 | 1379 |
| 9 | | 132 | 65 | 72 | 82 | 97 | 102 | 91 | 104 | 115 | 125 | 156 | 41 | 188 | 1379 |
| 1 | | 66 | 131 | 77 | 88 | 92 | 103 | 98 | 101 | 109 | 120 | 42 | 155 | 196 | 1379 |
| 179 | | 59 | 138 | 127 | 90 | 106 | 93 | 100 | 95 | 107 | 70 | 43 | 154 | 18 | 1379 |
| 181 | | 137 | 60 | 122 | 108 | 99 | 96 | 105 | 94 | 89 | 75 | 153 | 44 | 16 | 1379 |
| 185 | | 136 | 61 | 121 | 111 | 87 | 114 | 81 | 113 | 85 | 76 | 152 | 45 | 12 | 1379 |
| 187 | | 62 | 135 | 124 | 129 | 69 | 67 | 80 | 118 | 78 | 123 | 46 | 151 | 10 | 1379 |
| 189 | | 141 | 140 | 58 | 55 | 51 | 145 | 144 | 54 | 148 | 149 | 47 | 50 | 8 | 1379 |
| 190 | | 56 | 57 | 139 | 142 | 146 | 52 | 53 | 143 | 49 | 48 | 150 | 147 | 7 | 1379 |
| 13 | | 25 | 23 | 21 | 5 | 3 | 171 | 173 | 175 | 177 | 191 | 193 | 195 | 14 | 1379 |
| 1379 1379 1379 1379 1379 1379 1379 1379 1379 1379 1379 1379 1379 1379 1379 1379 | | | | | | | | | | | | | | | |

| 15 | mgc | 1583 | 1397 | 1221 | 1425 | 1382 | 1555 | 1281 | 1379 | 1518 | 1261 | 1273 | 1278 | 1374 | 1379 |
|---|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 183 | | 172 | 174 | 176 | 192 | 194 | 26 | 24 | 22 | 20 | 6 | 4 | 2 | 184 | 1379 |
| 19 | | 43 | 156 | 37 | 158 | 163 | 34 | 145 | 52 | 61 | 138 | 55 | 140 | 178 | 1379 |
| 17 | | 38 | 157 | 44 | 155 | 161 | 36 | 151 | 46 | 56 | 139 | 62 | 137 | 180 | 1379 |
| 15 | | 160 | 39 | 154 | 41 | 169 | 28 | 143 | 54 | 142 | 57 | 136 | 59 | 182 | 1379 |
| 11 | | 153 | 42 | 159 | 40 | 35 | 162 | 53 | 144 | 135 | 60 | 141 | 58 | 186 | 1379 |
| 9 | | 30 | 29 | 170 | 164 | 32 | 166 | 50 | 148 | 152 | 146 | 48 | 47 | 188 | 1379 |
| 1 | | 167 | 168 | 27 | 33 | 31 | 165 | 49 | 147 | 45 | 51 | 149 | 150 | 196 | 1379 |
| 179 | | 83 | 84 | 116 | 110 | 86 | 112 | 68 | 130 | 128 | 134 | 65 | 66 | 18 | 1379 |
| 181 | | 114 | 113 | 81 | 87 | 85 | 111 | 67 | 129 | 69 | 63 | 132 | 131 | 16 | 1379 |
| 185 | | 97 | 102 | 91 | 104 | 89 | 108 | 71 | 126 | 79 | 120 | 73 | 122 | 12 | 1379 |
| 187 | | 92 | 103 | 98 | 101 | 107 | 90 | 133 | 64 | 74 | 121 | 80 | 119 | 10 | 1379 |
| 189 | | 106 | 93 | 100 | 95 | 115 | 82 | 125 | 72 | 124 | 75 | 118 | 77 | 8 | 1379 |
| 190 | | 99 | 96 | 105 | 94 | 109 | 88 | 127 | 70 | 117 | 78 | 123 | 76 | 7 | 1379 |
| 13 | | 25 | 23 | 21 | 5 | 3 | 171 | 173 | 175 | 177 | 191 | 193 | 195 | 14 | 1379 |
| 1379 1379 1379 1379 1379 1379 1379 1379 1379 1379 1379 1379 1379 1379 1379 1379 | | | | | | | | | | | | | | | |

| 16 | mgc | 1491 | 1400 | 1489 | 1367 | 1250 | 1426 | 1281 | 1436 | 1500 | 1391 | 1207 | 1483 | 1206 | 1379 |
|---|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 183 | | 172 | 174 | 176 | 192 | 194 | 26 | 24 | 22 | 20 | 6 | 4 | 2 | 184 | 1379 |
| 19 | | 163 | 34 | 43 | 156 | 37 | 158 | 50 | 148 | 146 | 152 | 47 | 48 | 178 | 1379 |
| 17 | | 169 | 28 | 38 | 157 | 44 | 155 | 49 | 147 | 51 | 45 | 150 | 149 | 180 | 1379 |
| 15 | | 161 | 36 | 160 | 39 | 154 | 41 | 53 | 144 | 61 | 138 | 55 | 140 | 182 | 1379 |
| 11 | | 35 | 162 | 153 | 42 | 159 | 40 | 151 | 46 | 56 | 139 | 62 | 137 | 186 | 1379 |
| 9 | | 32 | 166 | 164 | 170 | 30 | 29 | 143 | 54 | 142 | 57 | 136 | 59 | 188 | 1379 |
| 1 | | 31 | 165 | 33 | 27 | 167 | 168 | 145 | 52 | 135 | 60 | 141 | 58 | 196 | 1379 |
| 179 | | 97 | 102 | 91 | 104 | 109 | 88 | 65 | 66 | 134 | 128 | 68 | 130 | 18 | 1379 |
| 181 | | 92 | 103 | 98 | 101 | 107 | 90 | 132 | 131 | 63 | 69 | 67 | 129 | 16 | 1379 |
| 185 | | 106 | 93 | 100 | 95 | 89 | 108 | 79 | 120 | 73 | 122 | 71 | 126 | 12 | 1379 |
| 187 | | 99 | 96 | 105 | 94 | 115 | 82 | 74 | 121 | 80 | 119 | 125 | 72 | 10 | 1379 |
| 189 | | 84 | 83 | 116 | 110 | 86 | 112 | 124 | 75 | 118 | 77 | 133 | 64 | 8 | 1379 |
| 190 | | 113 | 114 | 81 | 87 | 85 | 111 | 117 | 78 | 123 | 76 | 127 | 70 | 7 | 1379 |
| 13 | | 25 | 23 | 21 | 5 | 3 | 171 | 173 | 175 | 177 | 191 | 193 | 195 | 14 | 1379 |
| 1379 1379 1379 1379 1379 1379 1379 1379 1379 1379 1379 1379 1379 1379 1379 1379 | | | | | | | | | | | | | | | |

| 17 | mgc | 1606 | 1396 | 1171 | 1455 | 1422 | 1555 | 1309 | 1311 | 1394 | 1258 | 1398 | 1350 | 1302 | 1379 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 183 | 172 | 174 | 176 | 192 | 194 | 26 | 24 | 22 | 20 | 6 | 4 | 2 | 184 | 1379 | |
| 19 | 43 | 156 | 37 | 158 | 163 | 34 | 47 | 48 | 152 | 146 | 50 | 148 | 178 | 1379 | |
| 17 | 38 | 157 | 44 | 155 | 161 | 36 | 150 | 149 | 45 | 51 | 49 | 147 | 180 | 1379 | |
| 15 | 160 | 39 | 154 | 41 | 169 | 28 | 61 | 138 | 55 | 140 | 143 | 54 | 182 | 1379 | |
| 11 | 153 | 42 | 159 | 40 | 35 | 162 | 56 | 139 | 62 | 137 | 151 | 46 | 186 | 1379 | |
| 9 | 30 | 29 | 170 | 164 | 32 | 166 | 142 | 57 | 136 | 59 | 53 | 144 | 188 | 1379 | |
| 1 | 167 | 168 | 27 | 33 | 31 | 165 | 135 | 60 | 141 | 58 | 145 | 52 | 196 | 1379 | |
| 179 | 109 | 88 | 97 | 102 | 91 | 104 | 79 | 120 | 73 | 122 | 127 | 70 | 18 | 1379 | |
| 181 | 115 | 82 | 92 | 103 | 98 | 101 | 74 | 121 | 80 | 119 | 125 | 72 | 16 | 1379 | |
| 185 | 107 | 90 | 106 | 93 | 100 | 95 | 124 | 75 | 118 | 77 | 133 | 64 | 12 | 1379 | |
| 187 | 89 | 108 | 99 | 96 | 105 | 94 | 117 | 78 | 123 | 76 | 71 | 126 | 10 | 1379 | |
| 189 | 86 | 112 | 110 | 116 | 84 | 83 | 66 | 65 | 134 | 128 | 68 | 130 | 8 | 1379 | |
| 190 | 85 | 111 | 87 | 81 | 113 | 114 | 131 | 132 | 63 | 69 | 67 | 129 | 7 | 1379 | |
| 13 | 25 | 23 | 21 | 5 | 3 | 171 | 173 | 175 | 177 | 191 | 193 | 195 | 14 | 1379 | |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | |

| 18 | mgc | 1131 | 1578 | 1549 | 984 | 1264 | 1274 | 1437 | 1359 | 1594 | 1543 | 1254 | 1379 | 1581 | 1379 |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 97 | 102 | 91 | 104 | 83 | 114 | 77 | 120 | 132 | 65 | 169 | 28 | 192 | 5 | 1379 |
| | 92 | 103 | 98 | 101 | 111 | 86 | 117 | 80 | 66 | 131 | 149 | 48 | 183 | 14 | 1379 |
| | 106 | 93 | 100 | 95 | 115 | 82 | 130 | 67 | 60 | 137 | 159 | 38 | 13 | 184 | 1379 |
| | 99 | 96 | 105 | 94 | 88 | 109 | 123 | 74 | 134 | 63 | 45 | 152 | 171 | 26 | 1379 |
| | 113 | 81 | 112 | 108 | 87 | 90 | 72 | 125 | 51 | 146 | 158 | 39 | 178 | 19 | 1379 |
| | 84 | 116 | 85 | 89 | 107 | 110 | 69 | 128 | 139 | 58 | 150 | 47 | 11 | 186 | 1379 |
| | 79 | 70 | 68 | 126 | 122 | 78 | 124 | 121 | 61 | 136 | 164 | 33 | 7 | 190 | 1379 |
| | 118 | 127 | 129 | 71 | 75 | 119 | 76 | 73 | 144 | 53 | 40 | 157 | 23 | 174 | 1379 |
| | 49 | 64 | 50 | 62 | 145 | 54 | 140 | 138 | 142 | 141 | 42 | 155 | 25 | 172 | 1379 |
| | 148 | 133 | 147 | 135 | 52 | 143 | 57 | 59 | 56 | 55 | 31 | 166 | 17 | 180 | 1379 |
| | 46 | 27 | 35 | 168 | 167 | 153 | 163 | 41 | 160 | 36 | 32 | 154 | 189 | 8 | 1379 |
| | 151 | 170 | 162 | 29 | 30 | 44 | 34 | 156 | 37 | 161 | 43 | 165 | 182 | 15 | 1379 |
| | 194 | 187 | 16 | 1 | 177 | 195 | 6 | 21 | 24 | 12 | 4 | 175 | 179 | 188 | 1379 |
| | 3 | 10 | 181 | 196 | 20 | 2 | 191 | 176 | 173 | 185 | 193 | 22 | 9 | 18 | 1379 |
| | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 19 | mgc | 1115 | 1609 | 1555 | 1012 | 1218 | 1275 | 1396 | 1376 | 1601 | 1550 | 1260 | 1379 | 1581 | 1379 | |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 81 | 115 | 114 | 113 | 82 | 86 | 77 | 120 | 132 | 65 | 169 | 28 | 192 | 5 | 1379 | |
| | 110 | 88 | 108 | 89 | 91 | 105 | 117 | 80 | 66 | 131 | 149 | 48 | 183 | 14 | 1379 | |
| | 104 | 103 | 95 | 96 | 100 | 93 | 130 | 67 | 60 | 137 | 159 | 38 | 13 | 184 | 1379 | |
| | 98 | 94 | 101 | 102 | 97 | 99 | 123 | 74 | 134 | 63 | 45 | 152 | 171 | 26 | 1379 | |
| | 87 | 106 | 90 | 107 | 109 | 92 | 72 | 125 | 51 | 146 | 158 | 39 | 178 | 19 | 1379 | |
| | 111 | 85 | 83 | 84 | 112 | 116 | 69 | 128 | 139 | 58 | 150 | 47 | 11 | 186 | 1379 | |
| | 79 | 70 | 68 | 126 | 122 | 78 | 124 | 121 | 61 | 136 | 164 | 33 | 7 | 190 | 1379 | |
| | 118 | 127 | 129 | 71 | 75 | 119 | 76 | 73 | 144 | 53 | 40 | 157 | 23 | 174 | 1379 | |
| | 49 | 64 | 50 | 62 | 145 | 54 | 140 | 138 | 142 | 141 | 42 | 155 | 25 | 172 | 1379 | |
| | 148 | 133 | 147 | 135 | 52 | 143 | 57 | 59 | 56 | 55 | 31 | 166 | 17 | 180 | 1379 | |
| | 46 | 27 | 35 | 168 | 167 | 153 | 163 | 41 | 160 | 36 | 32 | 154 | 189 | 8 | 1379 | |
| | 151 | 170 | 162 | 29 | 30 | 44 | 34 | 156 | 37 | 161 | 43 | 165 | 182 | 15 | 1379 | |
| | 194 | 187 | 16 | 1 | 177 | 195 | 6 | 21 | 24 | 12 | 4 | 175 | 179 | 188 | 1379 | |
| | 3 | 10 | 181 | 196 | 20 | 2 | 191 | 176 | 173 | 185 | 193 | 22 | 9 | 18 | 1379 | |
| | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 20 | mgc | 1120 | 1609 | 1539 | 989 | 1261 | 1275 | 1380 | 1397 | 1592 | 1550 | 1255 | 1379 | 1581 | 1379 |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 86 | 110 | 84 | 116 | 83 | 112 | 77 | 120 | 132 | 65 | 169 | 28 | 192 | 5 | 1379 |
| | 115 | 97 | 102 | 91 | 104 | 82 | 117 | 80 | 66 | 131 | 149 | 48 | 183 | 14 | 1379 |
| | 109 | 92 | 103 | 98 | 101 | 88 | 130 | 67 | 60 | 137 | 159 | 38 | 13 | 184 | 1379 |
| | 89 | 106 | 93 | 100 | 95 | 108 | 123 | 74 | 134 | 63 | 45 | 152 | 171 | 26 | 1379 |
| | 107 | 99 | 96 | 105 | 94 | 90 | 72 | 125 | 51 | 146 | 158 | 39 | 178 | 19 | 1379 |
| | 85 | 87 | 113 | 81 | 114 | 111 | 69 | 128 | 139 | 58 | 150 | 47 | 11 | 186 | 1379 |
| | 79 | 70 | 68 | 126 | 122 | 78 | 124 | 121 | 61 | 136 | 164 | 33 | 7 | 190 | 1379 |
| | 118 | 127 | 129 | 71 | 75 | 119 | 76 | 73 | 144 | 53 | 40 | 157 | 23 | 174 | 1379 |
| | 49 | 64 | 50 | 62 | 145 | 54 | 140 | 138 | 142 | 141 | 42 | 155 | 25 | 172 | 1379 |
| | 148 | 133 | 147 | 135 | 52 | 143 | 57 | 59 | 56 | 55 | 31 | 166 | 17 | 180 | 1379 |
| | 46 | 27 | 35 | 168 | 167 | 153 | 163 | 41 | 160 | 36 | 32 | 154 | 189 | 8 | 1379 |
| | 151 | 170 | 162 | 29 | 30 | 44 | 34 | 156 | 37 | 161 | 43 | 165 | 182 | 15 | 1379 |
| | 194 | 187 | 16 | 1 | 177 | 195 | 6 | 21 | 24 | 12 | 4 | 175 | 179 | 188 | 1379 |
| | 3 | 10 | 181 | 196 | 20 | 2 | 191 | 176 | 173 | 185 | 193 | 22 | 9 | 18 | 1379 |
| | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 21 | mgc | 1131 | 1578 | 1573 | 984 | 1265 | 1269 | 1452 | 1359 | 1619 | 1495 | 1269 | 1426 | 1507 | 1379 |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 73 | 126 | 67 | 128 | 81 | 118 | 75 | 120 | 132 | 65 | 169 | 28 | 192 | 5 | 1379 |
| | 68 | 127 | 74 | 125 | 76 | 119 | 82 | 117 | 66 | 131 | 149 | 48 | 183 | 14 | 1379 |
| | 130 | 69 | 124 | 71 | 122 | 77 | 116 | 79 | 60 | 137 | 159 | 38 | 13 | 184 | 1379 |
| | 123 | 72 | 129 | 70 | 115 | 80 | 121 | 78 | 134 | 63 | 42 | 155 | 171 | 26 | 1379 |
| | 89 | 110 | 83 | 112 | 97 | 102 | 91 | 104 | 51 | 146 | 158 | 39 | 178 | 19 | 1379 |
| | 84 | 111 | 90 | 109 | 92 | 103 | 98 | 101 | 139 | 58 | 150 | 47 | 11 | 186 | 1379 |
| | 114 | 85 | 108 | 87 | 106 | 93 | 100 | 95 | 61 | 136 | 164 | 33 | 7 | 190 | 1379 |
| | 107 | 88 | 113 | 86 | 99 | 96 | 105 | 94 | 144 | 53 | 40 | 157 | 23 | 174 | 1379 |
| | 49 | 64 | 50 | 62 | 145 | 54 | 140 | 138 | 142 | 141 | 45 | 152 | 25 | 172 | 1379 |
| | 148 | 133 | 147 | 135 | 52 | 143 | 57 | 59 | 56 | 55 | 31 | 166 | 17 | 180 | 1379 |
| | 46 | 27 | 35 | 168 | 167 | 153 | 163 | 41 | 160 | 36 | 32 | 154 | 189 | 8 | 1379 |
| | 151 | 170 | 162 | 29 | 30 | 44 | 34 | 156 | 37 | 161 | 43 | 165 | 182 | 15 | 1379 |
| | 194 | 187 | 16 | 1 | 177 | 195 | 6 | 21 | 24 | 12 | 4 | 175 | 179 | 188 | 1379 |
| | 3 | 10 | 181 | 196 | 20 | 2 | 191 | 176 | 173 | 185 | 193 | 22 | 9 | 18 | 1379 |
| | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 22 | mgc | 1165 | 1573 | 1561 | 1026 | 1249 | 1282 | 1440 | 1359 | 1608 | 1518 | 1241 | 1417 | 1488 | 1379 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 74 | 68 | 128 | 117 | 130 | 79 | 119 | 73 | 132 | 65 | 169 | 28 | 192 | 5 | 1379 | |
| 121 | 112 | 110 | 83 | 116 | 84 | 86 | 76 | 66 | 131 | 149 | 48 | 183 | 14 | 1379 | |
| 72 | 82 | 97 | 102 | 91 | 104 | 115 | 125 | 60 | 137 | 159 | 38 | 13 | 184 | 1379 | |
| 127 | 88 | 92 | 103 | 98 | 101 | 109 | 70 | 134 | 63 | 42 | 155 | 171 | 26 | 1379 | |
| 77 | 90 | 106 | 93 | 100 | 95 | 107 | 120 | 51 | 146 | 158 | 39 | 178 | 19 | 1379 | |
| 122 | 108 | 99 | 96 | 105 | 94 | 89 | 75 | 139 | 58 | 150 | 47 | 11 | 186 | 1379 | |
| 71 | 111 | 87 | 114 | 81 | 113 | 85 | 126 | 61 | 136 | 164 | 33 | 7 | 190 | 1379 | |
| 124 | 129 | 69 | 80 | 67 | 118 | 78 | 123 | 144 | 53 | 40 | 157 | 23 | 174 | 1379 | |
| 49 | 64 | 54 | 62 | 145 | 50 | 140 | 138 | 142 | 141 | 45 | 152 | 25 | 172 | 1379 | |
| 148 | 133 | 143 | 135 | 52 | 147 | 57 | 59 | 56 | 55 | 31 | 166 | 17 | 180 | 1379 | |
| 46 | 27 | 35 | 168 | 167 | 153 | 163 | 41 | 160 | 36 | 32 | 154 | 189 | 8 | 1379 | |
| 151 | 170 | 162 | 29 | 30 | 44 | 34 | 156 | 37 | 161 | 43 | 165 | 182 | 15 | 1379 | |
| 194 | 187 | 16 | 1 | 177 | 195 | 6 | 21 | 24 | 12 | 4 | 175 | 179 | 188 | 1379 | |
| 3 | 10 | 181 | 196 | 20 | 2 | 191 | 176 | 173 | 185 | 193 | 22 | 9 | 18 | 1379 | |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | |

| | | | | | | | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 23 | mgc | 1110 | 1579 | 1591 | 984 | 1289 | 1269 | 1409 | 1359 | 1586 | 1497 | 1279 | 1421 | 1554 | 1379 |
| | 69 | 67 | 129 | 127 | 126 | 124 | 74 | 72 | 132 | 65 | 169 | 28 | 192 | 5 | 1379 |
| | 128 | 130 | 68 | 70 | 71 | 73 | 123 | 125 | 66 | 131 | 149 | 48 | 182 | 15 | 1379 |
| | 83 | 114 | 97 | 102 | 91 | 104 | 109 | 88 | 60 | 137 | 159 | 38 | 13 | 184 | 1379 |
| | 86 | 111 | 92 | 103 | 98 | 101 | 108 | 89 | 134 | 63 | 45 | 152 | 171 | 26 | 1379 |
| | 113 | 84 | 106 | 93 | 100 | 95 | 90 | 107 | 51 | 146 | 158 | 39 | 178 | 19 | 1379 |
| | 112 | 85 | 99 | 96 | 105 | 94 | 87 | 110 | 139 | 58 | 150 | 47 | 11 | 186 | 1379 |
| | 119 | 121 | 75 | 77 | 82 | 80 | 116 | 118 | 61 | 136 | 164 | 33 | 7 | 190 | 1379 |
| | 78 | 76 | 122 | 120 | 115 | 117 | 81 | 79 | 144 | 53 | 40 | 157 | 23 | 174 | 1379 |
| | 49 | 64 | 50 | 62 | 145 | 54 | 140 | 138 | 142 | 141 | 42 | 155 | 25 | 172 | 1379 |
| | 148 | 133 | 147 | 135 | 52 | 143 | 57 | 59 | 56 | 55 | 31 | 166 | 17 | 180 | 1379 |
| | 46 | 27 | 35 | 168 | 167 | 153 | 163 | 41 | 160 | 36 | 32 | 154 | 189 | 8 | 1379 |
| | 151 | 170 | 162 | 29 | 30 | 44 | 34 | 156 | 37 | 161 | 43 | 165 | 183 | 14 | 1379 |
| | 195 | 187 | 16 | 1 | 177 | 194 | 6 | 21 | 24 | 12 | 4 | 175 | 179 | 188 | 1379 |
| | 2 | 10 | 181 | 196 | 20 | 3 | 191 | 176 | 173 | 185 | 193 | 22 | 9 | 18 | 1379 |
| | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 24 | mgc | 1172 | 1447 | 1584 | 1028 | 1354 | 1281 | 1418 | 1367 | 1554 | 1543 | 1386 | 1315 | 1478 | 1379 |
| 139 | 132 | 134 | 146 | 66 | 64 | 62 | 52 | 50 | 140 | 169 | 28 | 192 | 5 | 1379 | |
| 61 | 74 | 68 | 128 | 130 | 117 | 79 | 119 | 73 | 136 | 149 | 48 | 183 | 14 | 1379 | |
| 59 | 71 | 112 | 110 | 83 | 116 | 84 | 86 | 126 | 138 | 159 | 38 | 13 | 184 | 1379 | |
| 55 | 127 | 82 | 97 | 102 | 91 | 104 | 115 | 70 | 142 | 42 | 155 | 171 | 26 | 1379 | |
| 144 | 77 | 88 | 92 | 103 | 98 | 101 | 109 | 120 | 53 | 158 | 39 | 178 | 19 | 1379 | |
| 137 | 72 | 90 | 106 | 93 | 100 | 95 | 107 | 125 | 60 | 150 | 47 | 11 | 186 | 1379 | |
| 141 | 122 | 108 | 99 | 96 | 105 | 94 | 89 | 75 | 56 | 164 | 33 | 7 | 190 | 1379 | |
| 143 | 121 | 111 | 87 | 114 | 81 | 113 | 85 | 76 | 54 | 40 | 157 | 23 | 174 | 1379 | |
| 49 | 124 | 129 | 69 | 67 | 80 | 118 | 78 | 123 | 148 | 45 | 152 | 25 | 172 | 1379 | |
| 57 | 65 | 63 | 51 | 131 | 133 | 135 | 145 | 147 | 58 | 31 | 166 | 17 | 180 | 1379 | |
| 46 | 27 | 35 | 168 | 167 | 153 | 163 | 41 | 160 | 36 | 32 | 154 | 189 | 8 | 1379 | |
| 151 | 170 | 162 | 29 | 30 | 44 | 34 | 156 | 37 | 161 | 43 | 165 | 182 | 15 | 1379 | |
| 194 | 187 | 16 | 1 | 177 | 195 | 6 | 21 | 24 | 12 | 4 | 175 | 179 | 188 | 1379 | |
| 3 | 10 | 181 | 196 | 20 | 2 | 191 | 176 | 173 | 185 | 193 | 22 | 9 | 18 | 1379 | |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 25 | mgc | 1238 | 1492 | 1535 | 1068 | 1313 | 1277 | 1478 | 1351 | 1492 | 1541 | 1312 | 1350 | 1480 | 1379 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 139 | 132 | 134 | 146 | 50 | 64 | 62 | 52 | 66 | 140 | 169 | 28 | 189 | 8 | 1379 | |
| 61 | 69 | 67 | 129 | 127 | 126 | 124 | 74 | 72 | 136 | 149 | 48 | 182 | 15 | 1379 | |
| 59 | 128 | 130 | 68 | 70 | 71 | 73 | 123 | 125 | 138 | 159 | 38 | 13 | 184 | 1379 | |
| 55 | 83 | 114 | 97 | 102 | 91 | 104 | 108 | 89 | 142 | 42 | 155 | 171 | 26 | 1379 | |
| 144 | 86 | 111 | 92 | 103 | 98 | 101 | 109 | 88 | 53 | 158 | 39 | 178 | 19 | 1379 | |
| 137 | 113 | 84 | 106 | 93 | 100 | 95 | 90 | 107 | 60 | 150 | 47 | 11 | 186 | 1379 | |
| 141 | 112 | 85 | 99 | 96 | 105 | 94 | 87 | 110 | 56 | 164 | 33 | 7 | 190 | 1379 | |
| 143 | 119 | 121 | 75 | 77 | 82 | 80 | 116 | 118 | 54 | 40 | 157 | 23 | 174 | 1379 | |
| 49 | 78 | 76 | 122 | 120 | 115 | 117 | 81 | 79 | 148 | 45 | 152 | 25 | 172 | 1379 | |
| 57 | 65 | 63 | 51 | 147 | 133 | 135 | 145 | 131 | 58 | 31 | 166 | 17 | 180 | 1379 | |
| 46 | 27 | 35 | 168 | 167 | 153 | 163 | 41 | 160 | 36 | 32 | 154 | 192 | 5 | 1379 | |
| 151 | 170 | 162 | 29 | 30 | 44 | 34 | 156 | 37 | 161 | 43 | 165 | 183 | 14 | 1379 | |
| 194 | 187 | 16 | 1 | 177 | 195 | 6 | 21 | 24 | 12 | 4 | 175 | 179 | 188 | 1379 | |
| 3 | 10 | 181 | 196 | 20 | 2 | 191 | 176 | 173 | 185 | 193 | 22 | 9 | 18 | 1379 | |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | |

| | | | | | | | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 26 | mgc | 1136 | 1499 | 1676 | 1034 | 1214 | 1256 | 1545 | 1299 | 1530 | 1540 | 1374 | 1315 | 1509 | 1379 |
| | 51 | 49 | 147 | 145 | 144 | 54 | 142 | 56 | 57 | 140 | 169 | 28 | 189 | 8 | 1379 |
| | 146 | 148 | 50 | 52 | 53 | 143 | 55 | 141 | 59 | 138 | 149 | 48 | 183 | 14 | 1379 |
| | 73 | 124 | 81 | 115 | 114 | 113 | 82 | 86 | 139 | 58 | 159 | 38 | 13 | 184 | 1379 |
| | 123 | 74 | 110 | 88 | 108 | 89 | 91 | 105 | 62 | 135 | 42 | 155 | 171 | 26 | 1379 |
| | 75 | 122 | 104 | 103 | 95 | 96 | 100 | 93 | 136 | 61 | 158 | 39 | 178 | 19 | 1379 |
| | 121 | 76 | 98 | 94 | 101 | 102 | 97 | 99 | 64 | 133 | 150 | 47 | 11 | 186 | 1379 |
| | 120 | 77 | 87 | 106 | 90 | 107 | 109 | 92 | 134 | 63 | 164 | 33 | 7 | 190 | 1379 |
| | 118 | 79 | 111 | 85 | 83 | 84 | 112 | 116 | 137 | 60 | 40 | 157 | 23 | 174 | 1379 |
| | 80 | 117 | 65 | 131 | 67 | 129 | 72 | 70 | 126 | 128 | 45 | 152 | 25 | 172 | 1379 |
| | 78 | 119 | 132 | 66 | 130 | 68 | 125 | 127 | 71 | 69 | 31 | 166 | 17 | 180 | 1379 |
| | 46 | 27 | 35 | 168 | 167 | 153 | 163 | 41 | 160 | 36 | 32 | 154 | 192 | 5 | 1379 |
| | 151 | 170 | 162 | 29 | 30 | 44 | 34 | 156 | 37 | 161 | 43 | 165 | 182 | 15 | 1379 |
| | 194 | 187 | 16 | 1 | 177 | 195 | 6 | 21 | 24 | 12 | 4 | 175 | 179 | 188 | 1379 |
| | 3 | 10 | 181 | 196 | 20 | 2 | 191 | 176 | 173 | 185 | 193 | 22 | 9 | 18 | 1379 |
| | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 27 | mgc | 1131 | 1499 | 1676 | 1034 | 1219 | 1228 | 1556 | 1276 | 1574 | 1540 | 1387 | 1308 | 1499 | 1379 |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 51 | 49 | 147 | 145 | 144 | 54 | 142 | 56 | 57 | 140 | 169 | 28 | 189 | 8 | 1379 |
| | 146 | 148 | 50 | 52 | 53 | 143 | 55 | 141 | 59 | 138 | 149 | 48 | 183 | 14 | 1379 |
| | 73 | 124 | 86 | 83 | 110 | 116 | 84 | 112 | 139 | 58 | 159 | 38 | 13 | 184 | 1379 |
| | 123 | 74 | 115 | 97 | 102 | 91 | 104 | 82 | 62 | 135 | 42 | 155 | 171 | 26 | 1379 |
| | 75 | 122 | 109 | 92 | 103 | 98 | 101 | 88 | 136 | 61 | 158 | 39 | 178 | 19 | 1379 |
| | 121 | 76 | 89 | 106 | 93 | 100 | 95 | 108 | 64 | 133 | 150 | 47 | 11 | 186 | 1379 |
| | 120 | 77 | 107 | 99 | 96 | 105 | 94 | 90 | 134 | 63 | 164 | 33 | 7 | 190 | 1379 |
| | 118 | 79 | 85 | 114 | 87 | 81 | 113 | 111 | 137 | 60 | 40 | 157 | 23 | 174 | 1379 |
| | 80 | 117 | 67 | 131 | 65 | 129 | 72 | 70 | 126 | 128 | 45 | 152 | 25 | 172 | 1379 |
| | 78 | 119 | 130 | 66 | 132 | 68 | 125 | 127 | 71 | 69 | 31 | 166 | 17 | 180 | 1379 |
| | 46 | 27 | 36 | 168 | 167 | 153 | 163 | 41 | 160 | 35 | 32 | 154 | 192 | 5 | 1379 |
| | 151 | 170 | 161 | 29 | 30 | 44 | 34 | 156 | 37 | 162 | 43 | 165 | 182 | 15 | 1379 |
| | 194 | 187 | 16 | 1 | 177 | 195 | 6 | 21 | 24 | 12 | 4 | 175 | 179 | 188 | 1379 |
| | 3 | 10 | 181 | 196 | 20 | 2 | 191 | 176 | 173 | 185 | 193 | 22 | 9 | 18 | 1379 |
| | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| | | | | | | | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 28 | mgc | 1132 | 1499 | 1686 | 1024 | 1230 | 1224 | 1540 | 1271 | 1570 | 1544 | 1416 | 1307 | 1484 | 1379 |
| | 51 | 49 | 147 | 145 | 144 | 54 | 142 | 56 | 57 | 140 | 169 | 28 | 182 | 15 | 1379 |
| | 146 | 148 | 50 | 52 | 53 | 143 | 55 | 141 | 59 | 138 | 149 | 48 | 192 | 5 | 1379 |
| | 73 | 124 | 97 | 102 | 91 | 104 | 109 | 88 | 139 | 58 | 159 | 38 | 13 | 184 | 1379 |
| | 123 | 74 | 92 | 103 | 98 | 101 | 107 | 90 | 62 | 135 | 42 | 155 | 171 | 26 | 1379 |
| | 75 | 122 | 106 | 93 | 100 | 95 | 115 | 82 | 136 | 61 | 158 | 39 | 178 | 19 | 1379 |
| | 121 | 76 | 99 | 96 | 105 | 94 | 89 | 108 | 64 | 133 | 150 | 47 | 11 | 186 | 1379 |
| | 120 | 77 | 84 | 83 | 110 | 116 | 86 | 112 | 134 | 63 | 164 | 33 | 7 | 190 | 1379 |
| | 118 | 79 | 113 | 114 | 87 | 81 | 85 | 111 | 137 | 60 | 40 | 157 | 23 | 174 | 1379 |
| | 80 | 117 | 67 | 131 | 65 | 129 | 72 | 70 | 126 | 128 | 45 | 152 | 25 | 172 | 1379 |
| | 78 | 119 | 130 | 66 | 132 | 68 | 125 | 127 | 71 | 69 | 31 | 166 | 17 | 180 | 1379 |
| | 46 | 27 | 36 | 168 | 167 | 153 | 163 | 41 | 160 | 35 | 32 | 154 | 189 | 8 | 1379 |
| | 151 | 170 | 161 | 29 | 30 | 44 | 34 | 156 | 37 | 162 | 43 | 165 | 183 | 14 | 1379 |
| | 194 | 177 | 16 | 1 | 187 | 195 | 6 | 21 | 24 | 12 | 4 | 175 | 179 | 188 | 1379 |
| | 3 | 20 | 181 | 196 | 10 | 2 | 191 | 176 | 173 | 185 | 193 | 22 | 9 | 18 | 1379 |
| | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 29 | mgc | 1285 | 1272 | 1645 | 1312 | 905 | 1452 | 1637 | 1152 | 1571 | 1592 | 1292 | 1379 | 1433 | 1379 |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 124 | 27 | 77 | 98 | 48 | 145 | 104 | 54 | 151 | 166 | 69 | 119 | 182 | 15 | 1379 |
| | 29 | 76 | 123 | 144 | 97 | 50 | 150 | 103 | 56 | 71 | 118 | 165 | 192 | 5 | 1379 |
| | 75 | 125 | 28 | 49 | 146 | 96 | 55 | 152 | 102 | 117 | 167 | 70 | 13 | 184 | 1379 |
| | 157 | 60 | 110 | 113 | 63 | 160 | 83 | 33 | 130 | 139 | 42 | 92 | 171 | 26 | 1379 |
| | 62 | 109 | 156 | 159 | 112 | 65 | 129 | 82 | 35 | 44 | 91 | 138 | 178 | 19 | 1379 |
| | 108 | 158 | 61 | 64 | 161 | 111 | 34 | 131 | 81 | 90 | 140 | 43 | 11 | 186 | 1379 |
| | 93 | 143 | 46 | 31 | 128 | 78 | 73 | 170 | 120 | 99 | 149 | 52 | 7 | 190 | 1379 |
| | 47 | 94 | 141 | 126 | 79 | 32 | 168 | 121 | 74 | 53 | 100 | 147 | 23 | 174 | 1379 |
| | 142 | 45 | 95 | 80 | 30 | 127 | 122 | 72 | 169 | 148 | 51 | 101 | 25 | 172 | 1379 |
| | 114 | 164 | 67 | 58 | 155 | 105 | 40 | 137 | 87 | 84 | 134 | 37 | 17 | 180 | 1379 |
| | 68 | 115 | 162 | 153 | 106 | 59 | 135 | 88 | 41 | 38 | 85 | 132 | 189 | 8 | 1379 |
| | 163 | 66 | 116 | 107 | 57 | 154 | 89 | 39 | 136 | 133 | 36 | 86 | 183 | 14 | 1379 |
| | 175 | 24 | 16 | 1 | 177 | 195 | 6 | 21 | 187 | 12 | 4 | 194 | 179 | 188 | 1379 |
| | 22 | 173 | 181 | 196 | 20 | 2 | 191 | 176 | 10 | 185 | 193 | 3 | 9 | 18 | 1379 |
| | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 30 | mgc | 898 | 1519 | 1664 | 1233 | 1116 | 1407 | 1422 | 1362 | 1537 | 1541 | 1303 | 1379 | 1546 | 1379 |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 33 | 166 | 27 | 168 | 41 | 158 | 35 | 160 | 49 | 150 | 43 | 152 | 192 | 5 | 1379 |
| | 28 | 167 | 34 | 165 | 36 | 159 | 42 | 157 | 44 | 151 | 50 | 149 | 182 | 15 | 1379 |
| | 170 | 29 | 164 | 31 | 162 | 37 | 156 | 39 | 154 | 45 | 148 | 47 | 13 | 184 | 1379 |
| | 163 | 32 | 169 | 30 | 155 | 40 | 161 | 38 | 147 | 48 | 153 | 46 | 171 | 26 | 1379 |
| | 57 | 142 | 51 | 144 | 65 | 134 | 59 | 136 | 73 | 126 | 67 | 128 | 178 | 19 | 1379 |
| | 52 | 143 | 58 | 141 | 60 | 135 | 66 | 133 | 68 | 127 | 74 | 125 | 11 | 186 | 1379 |
| | 146 | 53 | 140 | 55 | 138 | 61 | 132 | 63 | 130 | 69 | 124 | 71 | 7 | 190 | 1379 |
| | 139 | 56 | 145 | 54 | 131 | 64 | 137 | 62 | 123 | 72 | 129 | 70 | 23 | 174 | 1379 |
| | 81 | 118 | 75 | 120 | 89 | 110 | 83 | 112 | 97 | 102 | 91 | 104 | 25 | 172 | 1379 |
| | 76 | 119 | 82 | 117 | 84 | 111 | 90 | 109 | 92 | 103 | 98 | 101 | 17 | 180 | 1379 |
| | 122 | 77 | 116 | 79 | 114 | 85 | 108 | 87 | 106 | 93 | 100 | 95 | 189 | 8 | 1379 |
| | 115 | 80 | 121 | 78 | 107 | 88 | 113 | 86 | 99 | 96 | 105 | 94 | 183 | 14 | 1379 |
| | 187 | 194 | 16 | 1 | 177 | 195 | 6 | 21 | 24 | 12 | 4 | 175 | 179 | 188 | 1379 |
| | 10 | 3 | 181 | 196 | 20 | 2 | 191 | 176 | 173 | 185 | 193 | 22 | 9 | 18 | 1379 |
| | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 31 | mgc | 1213 | 1534 | 1491 | 1191 | 1276 | 1349 | 1308 | 1392 | 1663 | 1563 | 1198 | 1418 | 1331 | 1379 |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 142 | 56 | 143 | 58 | 52 | 140 | 69 | 129 | 133 | 127 | 66 | 67 | 171 | 26 | 1379 |
| | 144 | 136 | 62 | 137 | 59 | 53 | 132 | 125 | 124 | 74 | 71 | 65 | 192 | 5 | 1379 |
| | 51 | 61 | 135 | 60 | 138 | 146 | 63 | 72 | 73 | 123 | 126 | 134 | 13 | 184 | 1379 |
| | 57 | 141 | 54 | 139 | 145 | 55 | 130 | 68 | 64 | 70 | 131 | 128 | 182 | 15 | 1379 |
| | 164 | 32 | 167 | 28 | 34 | 166 | 154 | 44 | 155 | 46 | 40 | 152 | 178 | 19 | 1379 |
| | 170 | 38 | 35 | 161 | 160 | 27 | 156 | 50 | 47 | 149 | 148 | 41 | 11 | 186 | 1379 |
| | 29 | 159 | 162 | 36 | 37 | 168 | 39 | 147 | 150 | 48 | 49 | 158 | 7 | 190 | 1379 |
| | 31 | 165 | 30 | 169 | 163 | 33 | 45 | 153 | 42 | 151 | 157 | 43 | 23 | 174 | 1379 |
| | 116 | 82 | 80 | 119 | 76 | 118 | 106 | 92 | 88 | 107 | 94 | 104 | 25 | 172 | 1379 |
| | 77 | 113 | 83 | 112 | 86 | 120 | 108 | 98 | 95 | 101 | 100 | 89 | 17 | 180 | 1379 |
| | 122 | 84 | 114 | 85 | 111 | 75 | 87 | 99 | 102 | 96 | 97 | 110 | 189 | 8 | 1379 |
| | 79 | 115 | 117 | 78 | 121 | 81 | 93 | 105 | 109 | 90 | 103 | 91 | 183 | 14 | 1379 |
| | 187 | 195 | 16 | 1 | 177 | 194 | 6 | 21 | 24 | 12 | 4 | 175 | 179 | 188 | 1379 |
| | 10 | 2 | 181 | 196 | 20 | 3 | 191 | 176 | 173 | 185 | 193 | 22 | 9 | 18 | 1379 |
| | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| | | | | | | | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 32 | mgc | 1016 | 1796 | 1419 | 1229 | 1293 | 1342 | 1401 | 1409 | 1382 | 1510 | 1312 | 1379 | 1439 | 1379 |
| | 43 | 156 | 37 | 158 | 163 | 34 | 47 | 48 | 152 | 146 | 50 | 148 | 189 | 8 | 1379 |
| | 38 | 157 | 44 | 155 | 161 | 36 | 150 | 149 | 45 | 51 | 49 | 147 | 183 | 14 | 1379 |
| | 160 | 39 | 154 | 41 | 169 | 28 | 61 | 138 | 55 | 140 | 143 | 54 | 13 | 184 | 1379 |
| | 153 | 42 | 159 | 40 | 35 | 162 | 56 | 139 | 62 | 137 | 151 | 46 | 171 | 26 | 1379 |
| | 30 | 29 | 170 | 164 | 32 | 166 | 142 | 57 | 136 | 59 | 53 | 144 | 178 | 19 | 1379 |
| | 167 | 168 | 27 | 33 | 31 | 165 | 135 | 60 | 141 | 58 | 145 | 52 | 11 | 186 | 1379 |
| | 109 | 88 | 97 | 102 | 91 | 104 | 79 | 120 | 73 | 122 | 127 | 70 | 7 | 190 | 1379 |
| | 115 | 82 | 92 | 103 | 98 | 101 | 74 | 121 | 80 | 119 | 125 | 72 | 23 | 174 | 1379 |
| | 107 | 90 | 106 | 93 | 100 | 95 | 124 | 75 | 118 | 77 | 133 | 64 | 25 | 172 | 1379 |
| | 89 | 108 | 99 | 96 | 105 | 94 | 117 | 78 | 123 | 76 | 71 | 126 | 17 | 180 | 1379 |
| | 86 | 112 | 110 | 116 | 84 | 83 | 66 | 65 | 134 | 128 | 68 | 130 | 192 | 5 | 1379 |
| | 85 | 111 | 87 | 81 | 113 | 114 | 131 | 132 | 63 | 69 | 67 | 129 | 182 | 15 | 1379 |
| | 12 | 1 | 16 | 187 | 177 | 194 | 6 | 21 | 24 | 195 | 4 | 175 | 179 | 188 | 1379 |
| | 185 | 196 | 181 | 10 | 20 | 3 | 191 | 176 | 173 | 2 | 193 | 22 | 9 | 18 | 1379 |
| | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

[illegible][illegible]

| 37 | mgc | 1697 | 1157 | 1515 | 1230 | 1280 | 1013 | 1711 | 1301 | 1434 | 1556 | 1143 | 1326 | 1564 | 1379 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 51 | 49 | 147 | 145 | 144 | 54 | 142 | 56 | | 57 | 140 | 162 | 29 | 39 | 164 | 1379 |
| 146 | 148 | 50 | 52 | 53 | 143 | 55 | 141 | | 59 | 138 | 40 | 150 | 47 | 157 | 1379 |
| 73 | 124 | 86 | 110 | 83 | 116 | 84 | 112 | | 139 | 58 | 37 | 155 | 42 | 160 | 1379 |
| 123 | 74 | 115 | 97 | 102 | 91 | 104 | 82 | | 137 | 60 | 167 | 44 | 153 | 30 | 1379 |
| 75 | 122 | 109 | 92 | 103 | 98 | 101 | 88 | | 134 | 63 | 161 | 48 | 149 | 36 | 1379 |
| 121 | 76 | 89 | 106 | 93 | 100 | 95 | 108 | | 64 | 133 | 32 | 41 | 156 | 165 | 1379 |
| 120 | 77 | 107 | 99 | 96 | 105 | 94 | 90 | | 136 | 61 | 159 | 154 | 43 | 38 | 1379 |
| 118 | 79 | 85 | 87 | 114 | 81 | 113 | 111 | | 62 | 135 | 31 | 45 | 152 | 166 | 1379 |
| 80 | 117 | 65 | 131 | 67 | 129 | 72 | 70 | | 126 | 128 | 163 | 151 | 46 | 34 | 1379 |
| 78 | 119 | 132 | 66 | 130 | 68 | 125 | 127 | | 71 | 69 | 33 | 168 | 158 | 35 | 1379 |
| 13 | 6 | 187 | 195 | 189 | 193 | 182 | 3 | | 16 | 5 | 14 | 185 | 1 | 190 | 1379 |
| 186 | 169 | 27 | 172 | 23 | 22 | 26 | 173 | | 20 | 176 | 17 | 178 | 179 | 11 | 1379 |
| 188 | 28 | 170 | 25 | 174 | 175 | 171 | 24 | | 177 | 21 | 180 | 19 | 18 | 9 | 1379 |
| 7 | 191 | 10 | 2 | 8 | 4 | 15 | 194 | | 181 | 192 | 183 | 12 | 196 | 184 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| | | | | | | | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 38 | mgc | 1309 | 1167 | 1531 | 1490 | 883 | 1250 | 1588 | 1425 | 1431 | 1556 | 1208 | 1403 | 1686 | 1379 |
| | 51 | 49 | 147 | 145 | 144 | 54 | 142 | 56 | 57 | 140 | 164 | 29 | 39 | 162 | 1379 |
| | 146 | 148 | 50 | 52 | 53 | 143 | 55 | 141 | 59 | 138 | 157 | 151 | 46 | 40 | 1379 |
| | 73 | 124 | 97 | 102 | 91 | 104 | 109 | 88 | 139 | 58 | 160 | 155 | 42 | 37 | 1379 |
| | 123 | 74 | 92 | 103 | 98 | 101 | 107 | 90 | 137 | 60 | 30 | 44 | 153 | 167 | 1379 |
| | 75 | 122 | 106 | 93 | 100 | 95 | 115 | 82 | 134 | 63 | 36 | 48 | 149 | 161 | 1379 |
| | 121 | 76 | 99 | 96 | 105 | 94 | 89 | 108 | 64 | 133 | 165 | 41 | 156 | 32 | 1379 |
| | 120 | 77 | 84 | 83 | 116 | 110 | 86 | 112 | 136 | 61 | 38 | 154 | 43 | 159 | 1379 |
| | 118 | 79 | 113 | 114 | 81 | 87 | 85 | 111 | 62 | 135 | 166 | 45 | 152 | 31 | 1379 |
| | 80 | 117 | 65 | 131 | 67 | 129 | 72 | 70 | 126 | 128 | 34 | 150 | 47 | 163 | 1379 |
| | 78 | 119 | 132 | 66 | 130 | 68 | 125 | 127 | 71 | 69 | 35 | 168 | 158 | 33 | 1379 |
| | 13 | 6 | 187 | 195 | 189 | 193 | 182 | 3 | 16 | 5 | 14 | 185 | 1 | 190 | 1379 |
| | 186 | 169 | 173 | 172 | 23 | 22 | 26 | 27 | 20 | 176 | 17 | 178 | 179 | 11 | 1379 |
| | 188 | 28 | 24 | 25 | 174 | 175 | 171 | 170 | 177 | 21 | 180 | 19 | 18 | 9 | 1379 |
| | 7 | 191 | 10 | 2 | 8 | 4 | 15 | 194 | 181 | 192 | 183 | 12 | 196 | 184 | 1379 |
| | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 39 | mgc | 1675 | 1174 | 1427 | 1201 | 1279 | 1029 | 1691 | 1226 | 1334 | 1652 | 1152 | 1391 | 1696 | 1379 |
| 81 | 115 | 114 | 113 | 82 | 86 | | 124 | 69 | 126 | 75 | 162 | 29 | 39 | 164 | 1379 |
| 110 | 88 | 108 | 89 | 91 | 105 | | 74 | 80 | 117 | 123 | 40 | 150 | 47 | 157 | 1379 |
| 104 | 103 | 95 | 96 | 100 | 93 | | 76 | 77 | 120 | 121 | 37 | 154 | 43 | 160 | 1379 |
| 98 | 94 | 101 | 102 | 97 | 99 | | 125 | 119 | 78 | 72 | 167 | 44 | 153 | 30 | 1379 |
| 87 | 106 | 90 | 107 | 109 | 92 | | 70 | 118 | 79 | 127 | 161 | 48 | 149 | 36 | 1379 |
| 111 | 85 | 83 | 84 | 112 | 116 | | 122 | 128 | 71 | 73 | 32 | 41 | 156 | 165 | 1379 |
| 144 | 58 | 54 | 137 | 56 | 145 | 140 | 50 | 146 | 55 | | 159 | 155 | 42 | 38 | 1379 |
| 49 | 61 | 68 | 64 | 65 | 131 | 135 | 134 | 130 | 148 | 31 | 45 | 152 | 166 | | 1379 |
| 59 | 136 | 129 | 133 | 132 | 66 | 62 | 63 | 67 | 138 | 163 | 151 | 46 | 34 | | 1379 |
| 142 | 139 | 143 | 60 | 141 | 52 | 57 | 147 | 51 | 53 | 33 | 168 | 158 | 35 | | 1379 |
| 13 | 6 | 187 | 195 | 189 | 193 | 182 | 3 | 16 | 5 | 14 | 185 | 1 | 190 | | 1379 |
| 186 | 169 | 27 | 172 | 23 | 22 | 26 | 173 | 20 | 176 | 17 | 178 | 179 | 11 | | 1379 |
| 188 | 28 | 170 | 25 | 174 | 175 | 171 | 24 | 177 | 21 | 180 | 19 | 18 | 9 | | 1379 |
| 7 | 191 | 10 | 2 | 8 | 4 | 15 | 194 | 181 | 192 | 183 | 12 | 196 | 184 | | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 40 | mgc | 1680 | 1174 | 1410 | 1196 | 1305 | 1029 | 1675 | 1248 | 1307 | 1669 | 1147 | 1391 | 1696 | 1379 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 86 | 110 | 83 | 116 | 84 | 112 | 124 | 69 | 126 | 75 | 162 | 29 | 39 | 164 | 1379 |
| | 115 | 97 | 102 | 91 | 104 | 82 | 74 | 80 | 117 | 123 | 40 | 150 | 47 | 157 | 1379 |
| | 109 | 92 | 103 | 98 | 101 | 88 | 76 | 77 | 120 | 121 | 37 | 154 | 43 | 160 | 1379 |
| | 107 | 106 | 93 | 100 | 95 | 90 | 125 | 119 | 78 | 72 | 167 | 44 | 153 | 30 | 1379 |
| | 89 | 99 | 96 | 105 | 94 | 108 | 70 | 118 | 79 | 127 | 161 | 48 | 149 | 36 | 1379 |
| | 85 | 87 | 114 | 81 | 113 | 111 | 122 | 128 | 71 | 73 | 32 | 41 | 156 | 165 | 1379 |
| | 144 | 58 | 54 | 137 | 56 | 145 | 140 | 50 | 146 | 55 | 159 | 155 | 42 | 38 | 1379 |
| | 49 | 61 | 68 | 64 | 65 | 131 | 135 | 134 | 130 | 148 | 31 | 45 | 152 | 166 | 1379 |
| | 59 | 136 | 129 | 133 | 132 | 66 | 62 | 63 | 67 | 138 | 163 | 151 | 46 | 34 | 1379 |
| | 142 | 139 | 143 | 60 | 141 | 52 | 57 | 147 | 51 | 53 | 33 | 168 | 158 | 35 | 1379 |
| | 13 | 6 | 187 | 195 | 189 | 193 | 182 | 3 | 16 | 5 | 14 | 185 | 1 | 190 | 1379 |
| | 186 | 169 | 27 | 172 | 23 | 22 | 26 | 173 | 20 | 176 | 17 | 178 | 179 | 11 | 1379 |
| | 188 | 28 | 170 | 25 | 174 | 175 | 171 | 24 | 177 | 21 | 180 | 19 | 18 | 9 | 1379 |
| | 7 | 191 | 10 | 2 | 8 | 4 | 15 | 194 | 181 | 192 | 183 | 12 | 196 | 184 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 41 | mgc | 1691 | 1143 | 1421 | 1173 | 1322 | 1029 | 1738 | 1208 | 1323 | 1645 | 1147 | 1391 | 1696 | 1379 |
| 97 | 102 | 91 | 104 | 109 | 88 | 124 | 69 | 126 | 75 | 162 | 29 | 39 | 164 | 1379 | |
| 92 | 103 | 98 | 101 | 107 | 90 | 74 | 80 | 117 | 123 | 40 | 150 | 47 | 157 | 1379 | |
| 106 | 93 | 100 | 95 | 115 | 82 | 76 | 77 | 120 | 121 | 37 | 154 | 43 | 160 | 1379 | |
| 99 | 96 | 105 | 94 | 89 | 108 | 125 | 119 | 78 | 72 | 167 | 44 | 153 | 30 | 1379 | |
| 84 | 83 | 116 | 110 | 86 | 112 | 70 | 118 | 79 | 127 | 161 | 48 | 149 | 36 | 1379 | |
| 113 | 114 | 81 | 87 | 85 | 111 | 122 | 128 | 71 | 73 | 32 | 41 | 156 | 165 | 1379 | |
| 144 | 58 | 54 | 137 | 56 | 145 | 140 | 50 | 146 | 55 | 159 | 155 | 42 | 38 | 1379 | |
| 49 | 61 | 68 | 64 | 65 | 131 | 135 | 134 | 130 | 148 | 31 | 45 | 152 | 166 | 1379 | |
| 59 | 136 | 129 | 133 | 132 | 66 | 62 | 63 | 67 | 138 | 163 | 151 | 46 | 34 | 1379 | |
| 142 | 139 | 143 | 60 | 141 | 52 | 57 | 147 | 51 | 53 | 33 | 168 | 158 | 35 | 1379 | |
| 13 | 6 | 187 | 195 | 189 | 193 | 182 | 3 | 16 | 5 | 14 | 185 | 1 | 190 | 1379 | |
| 186 | 169 | 27 | 172 | 23 | 22 | 26 | 173 | 20 | 176 | 17 | 178 | 179 | 11 | 1379 | |
| 188 | 28 | 170 | 25 | 174 | 175 | 171 | 24 | 177 | 21 | 180 | 19 | 18 | 9 | 1379 | |
| 7 | 191 | 10 | 2 | 8 | 4 | 15 | 194 | 181 | 192 | 183 | 12 | 196 | 184 | 1379 | |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | |

| | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 42 | mgc | 1337 | 1378 | 1242 | 1698 | 1395 | 1242 | 1219 | 1508 | 1529 | 1257 | 1395 | 1224 | 1503 | 1379 |
| 7 | 192 | 1 | 194 | 35 | 164 | 36 | 157 | 160 | 39 | 15 | 184 | 9 | 186 | 1379 | |
| 2 | 193 | 8 | 191 | 38 | 43 | 153 | 156 | 42 | 159 | 10 | 185 | 16 | 183 | 1379 | |
| 196 | 3 | 190 | 5 | 163 | 154 | 44 | 41 | 155 | 34 | 188 | 11 | 182 | 13 | 1379 | |
| 189 | 6 | 195 | 4 | 158 | 33 | 161 | 40 | 37 | 162 | 181 | 14 | 187 | 12 | 1379 | |
| 71 | 74 | 127 | 122 | 81 | 115 | 114 | 113 | 82 | 86 | 47 | 50 | 151 | 146 | 1379 | |
| 128 | 79 | 118 | 69 | 110 | 88 | 108 | 89 | 91 | 105 | 152 | 55 | 142 | 45 | 1379 | |
| 72 | 117 | 80 | 125 | 104 | 103 | 95 | 96 | 100 | 93 | 48 | 141 | 56 | 149 | 1379 | |
| 121 | 120 | 77 | 76 | 98 | 94 | 101 | 102 | 97 | 99 | 145 | 144 | 53 | 52 | 1379 | |
| 124 | 78 | 119 | 73 | 87 | 106 | 90 | 107 | 109 | 92 | 148 | 54 | 143 | 49 | 1379 | |
| 75 | 123 | 70 | 126 | 111 | 85 | 83 | 84 | 112 | 116 | 51 | 147 | 46 | 150 | 1379 | |
| 31 | 168 | 25 | 170 | 59 | 140 | 60 | 133 | 136 | 63 | 23 | 176 | 17 | 178 | 1379 | |
| 26 | 169 | 32 | 167 | 62 | 67 | 129 | 132 | 66 | 135 | 18 | 177 | 24 | 175 | 1379 | |
| 172 | 27 | 166 | 29 | 139 | 130 | 68 | 65 | 131 | 58 | 180 | 19 | 174 | 21 | 1379 | |
| 165 | 30 | 171 | 28 | 134 | 57 | 137 | 64 | 61 | 138 | 173 | 22 | 179 | 20 | 1379 | |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | |

| | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 43 | mgc | 1354 | 1421 | 1232 | 1696 | 1364 | 1242 | 1219 | 1508 | 1560 | 1224 | 1357 | 1202 | 1548 | 1379 |
| 7 | 192 | 1 | 194 | 35 | 164 | 36 | 157 | 160 | 39 | 15 | 184 | 9 | 186 | 1379 | |
| 2 | 193 | 8 | 191 | 38 | 43 | 153 | 156 | 42 | 159 | 10 | 185 | 16 | 183 | 1379 | |
| 196 | 3 | 190 | 5 | 163 | 154 | 44 | 41 | 155 | 34 | 188 | 11 | 182 | 13 | 1379 | |
| 189 | 6 | 195 | 4 | 158 | 33 | 161 | 40 | 37 | 162 | 181 | 14 | 187 | 12 | 1379 | |
| 71 | 74 | 127 | 122 | 112 | 110 | 83 | 116 | 84 | 86 | 47 | 50 | 151 | 146 | 1379 | |
| 128 | 79 | 118 | 69 | 82 | 97 | 102 | 91 | 104 | 115 | 152 | 55 | 142 | 45 | 1379 | |
| 72 | 117 | 80 | 125 | 88 | 92 | 103 | 98 | 101 | 109 | 48 | 141 | 56 | 149 | 1379 | |
| 121 | 120 | 77 | 76 | 90 | 106 | 93 | 100 | 95 | 107 | 145 | 144 | 53 | 52 | 1379 | |
| 124 | 78 | 119 | 73 | 108 | 99 | 96 | 105 | 94 | 89 | 148 | 54 | 143 | 49 | 1379 | |
| 75 | 123 | 70 | 126 | 111 | 87 | 114 | 81 | 113 | 85 | 51 | 147 | 46 | 150 | 1379 | |
| 31 | 168 | 25 | 170 | 59 | 140 | 60 | 133 | 136 | 63 | 23 | 176 | 17 | 178 | 1379 | |
| 26 | 169 | 32 | 167 | 62 | 67 | 129 | 132 | 66 | 135 | 18 | 177 | 24 | 175 | 1379 | |
| 172 | 27 | 166 | 29 | 139 | 130 | 68 | 65 | 131 | 58 | 180 | 19 | 174 | 21 | 1379 | |
| 165 | 30 | 171 | 28 | 134 | 57 | 137 | 64 | 61 | 138 | 173 | 22 | 179 | 20 | 1379 | |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | |

| | | | | | | | | | | | | | | | |
|---|-----|------|------|------|------|------|------|------|------|-------------------|------|------|------|------|------|
| 44 | mgc | 1214 | 1322 | 1461 | 1505 | 1456 | 1505 | 1042 | 1379 | 1268 | 1319 | 1593 | 1359 | 1504 | 1379 |
| | | | | | | | | | 58 | 57 | 142 | 61 | 138 | 135 | 1379 |
| 194 196 2 4 5 7 189 191 | | | | | | | | | 143 | 128 65 134 67 | | | | 54 | 1379 |
| 17 180 31 168 25 170 21 176 | | | | | | | | | 144 | 68 125 72 129 | | | | 53 | 1379 |
| 20 177 26 169 32 167 24 173 | | | | | | | | | 141 | 70 71 126 127 | | | | 56 | 1379 |
| 179 18 172 27 166 29 175 22 | | | | | | | | | 51 | 64 124 73 133 | | | | 146 | 1379 |
| 178 19 165 30 171 28 174 23 | | | | | | | | | 137 | 131 74 123 66 | | | | 60 | 1379 |
| 185 187 9 11 16 14 182 184 | | | | | | | | | 52 | 130 132 63 69 | | | | 145 | 1379 |
| 12 10 188 186 181 183 15 13 | | | | | | | | | 62 | 140 55 136 59 | | | | 139 | 1379 |
| 86 120 76 117 75 119 113 82 | | | | | | | | | 33 | 163 162 161 34 38 | | | | 1379 | |
| 116 106 92 94 107 88 104 81 | | | | | | | | | 158 | 40 156 41 43 153 | | | | 1379 | |
| 79 108 95 98 100 101 89 118 | | | | | | | | | 152 | 151 47 48 148 45 | | | | 1379 | |
| 112 87 102 99 97 96 110 85 | | | | | | | | | 50 | 46 149 150 49 147 | | | | 1379 | |
| 83 93 105 103 90 109 91 114 | | | | | | | | | 39 | 154 42 155 157 44 | | | | 1379 | |
| 115 77 121 80 122 78 84 111 | | | | | | | | | 159 | 37 35 36 160 164 | | | | 1379 | |
| 1379 1379 1379 1379 1379 1379 1379 1379 1379 1379 1379 1379 1379 1379 1379 1379 | | | | | | | | | | | | | | | |

2.1 Bordered Magic Squares of Orders 126 and 140

16

2.2 Equal Sums Distribution for 9×9

It has total 121 numbers. Let's consider following distribution of equal sums:

$$\begin{array}{ll}
 D_1 := \{1, 2, \dots, 98, 15779, 15780, \dots, 15876\}; & \text{Total Sum } D_1 := 1555946 \\
 D_2 := \{99, 100, \dots, 196, 15681, 15682, \dots, 15778\}; & \text{Total Sum } D_2 := 1555946 \\
 \dots & \dots \\
 \dots & \dots \\
 D_{80} := \{7743, 7743, \dots, 7840, 8037, 8038, \dots, 8134\}; & \text{Total Sum } D_{80} := 1555946 \\
 D_{81} := \{7841, 7842, \dots, 7938, 7939, 7940, \dots, 8036\}; & \text{Total Sum } D_{81} := 1555946
 \end{array}$$

In a Table of order 9×9 , total we have 81 numbers. Replacing numbers by magic squares of order 14 made from their respective distributions as given above. This given us magic 81 magic squares of order 14 of equal magic sums. Replacing them according to above Table of order 9×9 , we get magic square of order 126 multiples of magic squares of order 14. Since there are 46 magic squares of order 14, thus, we get 46 magic squares of order 126. See the attached **excel files** for details.

2.3 Equal Sums Distribution for 10×10

It has total 144 numbers. Let's consider following distribution of equal sums:

$$\begin{array}{ll}
 D_1 := \{1, 2, \dots, 98, 19503, 19504, \dots, 19600\}; & \text{Total Sum } D_1 := 1920898 \\
 D_2 := \{99, 100, \dots, 196, 19405, 19406, \dots, 19502\}; & \text{Total Sum } D_2 := 1920898 \\
 \dots & \dots \\
 \dots & \dots \\
 D_{99} := \{9605, 9606, \dots, 9702, 9899, 9900, \dots, 9996\}; & \text{Total Sum } D_{99} := 1920898 \\
 D_{100} := \{9703, 9704, \dots, 9800, 9801, 9802, \dots, 9898\}; & \text{Total Sum } D_{100} := 1920898
 \end{array}$$

In a Table of order 10×10 , total we have 100 numbers. Replacing numbers by magic squares of order 14 made from their respective distributions as given above. This given us magic 100 magic squares of order 14 of equal magic sums. Replacing them according to above Table of order 10×10 , we get magic square of order 140 multiples of magic squares of order 14.

Since there are 46 magic squares of order 14, thus, we get 46 magic squares of order 140. See the attached **excel files** for details.

In the magic squares orders 140 and 126, the distribution is considered in such a way that removing the external borders of order 14, still we are left with magic squares of lower orders. Based on this idea, we shall give below some examples of magic squares up to order 42 derived from the above two big magic squares. For complete work see the attached **excel files**.

2.4 Magic Squares of Order 42

Below are three examples of magic squares of order 42 obtained from the magic squares of order 126. It is obtained by the application of the formula $\frac{a^2 - b^2}{2}$, $a > b$, i.e., subtract $\frac{126^2 - 42^2}{2} := 7056$ from each entry, we get the following three magic squares of order 42:

| 10 | mgc | 36242 | 40855 | 32815 | 44156 | 30671 | 38762 | 35810 | 42384 | 25814 | 45850 | 36158 | 40528 | 31016 | 37065 | 37418 | 43991 | 26935 | 46508 | 31063 | 36410 | 36986 | 43168 | 25422 | 45850 | 37334 | 39744 | 31408 | 37065 | 37418 | 42423 | 29287 | 44156 | 32631 | 36410 | 36986 | 41600 | 28558 | 43498 | 37334 | 38960 | 32976 | 37065 |
|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 3 | 1763 | 1761 | 1760 | 1759 | 7 | 8 | 9 | 1755 | 11 | 1753 | 13 | 1752 | 99 | 101 | 1665 | 1663 | 1662 | 1661 | 105 | 106 | 107 | 1657 | 109 | 1655 | 111 | 1654 | 197 | 199 | 1567 | 1565 | 1564 | 1563 | 203 | 204 | 205 | 1559 | 207 | 1557 | 209 | 1556 | 37065 | |
| 1764 | 1762 | 2 | 4 | 5 | 6 | 1758 | 1757 | 1756 | 10 | 1754 | 12 | 15 | 1750 | 1666 | 1664 | 100 | 102 | 103 | 104 | 1660 | 1659 | 1658 | 108 | 1656 | 110 | 113 | 1652 | 1568 | 1566 | 198 | 200 | 201 | 202 | 1562 | 1561 | 1560 | 206 | 1558 | 208 | 211 | 1554 | 37065 | |
| 37 | 1728 | 51 | 49 | 1715 | 1713 | 1712 | 54 | 1710 | 56 | 57 | 1708 | 1751 | 14 | 135 | 1630 | 149 | 147 | 1617 | 1615 | 1614 | 152 | 1612 | 154 | 155 | 1610 | 1653 | 112 | 233 | 1532 | 247 | 245 | 1519 | 1517 | 1516 | 250 | 1514 | 252 | 253 | 1512 | 1555 | 210 | 37065 | |
| 1727 | 38 | 1714 | 1716 | 50 | 52 | 53 | 1711 | 55 | 1709 | 59 | 1706 | 1749 | 16 | 1629 | 136 | 1616 | 1618 | 148 | 150 | 151 | 1613 | 153 | 1611 | 157 | 1608 | 1651 | 114 | 1531 | 234 | 1518 | 1520 | 246 | 248 | 249 | 1515 | 251 | 1513 | 255 | 1510 | 1553 | 212 | 37065 | |
| 39 | 1726 | 73 | 1692 | 86 | 1678 | 83 | 1684 | 84 | 1680 | 1707 | 58 | 1748 | 17 | 137 | 1628 | 171 | 1594 | 184 | 1580 | 181 | 1586 | 182 | 1582 | 1609 | 156 | 1650 | 115 | 235 | 1530 | 269 | 1496 | 282 | 1482 | 279 | 1488 | 280 | 1484 | 1511 | 254 | 1552 | 213 | 37065 | |
| 1725 | 40 | 1691 | 74 | 1683 | 97 | 1670 | 91 | 1672 | 82 | 1705 | 60 | 1747 | 18 | 1627 | 138 | 1593 | 172 | 1585 | 195 | 1572 | 189 | 1574 | 180 | 1607 | 158 | 1649 | 116 | 1529 | 236 | 1495 | 270 | 1487 | 293 | 1474 | 287 | 1476 | 278 | 1509 | 256 | 1551 | 214 | 37065 | |
| 1724 | 41 | 75 | 1690 | 1677 | 92 | 1671 | 98 | 1669 | 88 | 1704 | 61 | 19 | 1746 | 1626 | 139 | 173 | 1592 | 1579 | 190 | 1573 | 196 | 1571 | 186 | 1606 | 159 | 117 | 1648 | 1528 | 237 | 271 | 1494 | 1481 | 288 | 1475 | 294 | 1473 | 284 | 1508 | 257 | 215 | 1550 | 37065 | |
| 1723 | 42 | 1689 | 76 | 1675 | 1674 | 93 | 1668 | 95 | 90 | 62 | 1703 | 20 | 1745 | 1625 | 140 | 1591 | 174 | 1577 | 1576 | 191 | 1570 | 193 | 188 | 160 | 1605 | 118 | 1647 | 1527 | 238 | 1493 | 272 | 1479 | 1478 | 289 | 1472 | 291 | 286 | 258 | 1507 | 216 | 1549 | 37065 | |
| 43 | 1722 | 1688 | 77 | 89 | 1667 | 96 | 1673 | 94 | 1676 | 1702 | 63 | 21 | 1744 | 141 | 1624 | 1590 | 175 | 187 | 1569 | 194 | 1575 | 192 | 1578 | 1604 | 161 | 119 | 1646 | 239 | 1526 | 1492 | 273 | 285 | 1471 | 292 | 1477 | 290 | 1480 | 1506 | 259 | 217 | 1548 | 37065 | |
| 44 | 1721 | 1686 | 79 | 85 | 87 | 1682 | 81 | 1681 | 1679 | 64 | 1701 | 1743 | 22 | 142 | 1623 | 1588 | 177 | 183 | 185 | 1584 | 179 | 1583 | 1581 | 162 | 1603 | 1645 | 120 | 240 | 1525 | 1490 | 275 | 281 | 283 | 1486 | 277 | 1485 | 1483 | 260 | 1505 | 1547 | 218 | 37065 | |
| 45 | 1720 | 80 | 1685 | 65 | 1699 | 67 | 1697 | 72 | 70 | 1694 | 1696 | 23 | 1742 | 143 | 1622 | 178 | 1587 | 163 | 1601 | 165 | 1599 | 170 | 168 | 1596 | 1598 | 121 | 1644 | 241 | 1524 | 276 | 1489 | 261 | 1503 | 263 | 1501 | 268 | 266 | 1498 | 1500 | 219 | 1546 | 37065 | |
| 47 | 1718 | 78 | 1687 | 1700 | 66 | 1698 | 68 | 1693 | 1695 | 71 | 69 | 1741 | 24 | 145 | 1620 | 176 | 1589 | 1602 | 164 | 1600 | 166 | 1595 | 1597 | 169 | 167 | 1643 | 122 | 243 | 1522 | 274 | 1491 | 1504 | 262 | 1502 | 264 | 1497 | 1499 | 267 | 265 | 1545 | 220 | 37065 | |
| 1719 | 46 | 25 | 1739 | 27 | 1737 | 1736 | 1735 | 31 | 32 | 33 | 35 | 1731 | 1729 | 1621 | 144 | 123 | 1641 | 125 | 1639 | 1638 | 1637 | 129 | 130 | 131 | 133 | 1633 | 1631 | 1523 | 242 | 221 | 1543 | 223 | 1541 | 1540 | 1539 | 227 | 228 | 229 | 231 | 1535 | 1533 | 37065 | |
| 1717 | 48 | 1740 | 26 | 1738 | 28 | 29 | 30 | 1734 | 1733 | 1732 | 1730 | 34 | 36 | 1619 | 146 | 1642 | 124 | 1640 | 126 | 127 | 128 | 1636 | 1635 | 1634 | 1632 | 132 | 134 | 1521 | 244 | 1544 | 222 | 1542 | 224 | 225 | 226 | 1538 | 1537 | 1536 | 1534 | 230 | 232 | 37065 | |
| 687 | 689 | 1077 | 1075 | 1074 | 1073 | 693 | 694 | 695 | 1069 | 697 | 1067 | 699 | 1066 | 785 | 787 | 979 | 977 | 976 | 975 | 791 | 792 | 793 | 971 | 795 | 969 | 797 | 968 | 295 | 297 | 1469 | 1467 | 1466 | 1465 | 301 | 302 | 303 | 1461 | 305 | 1459 | 307 | 1458 | 37065 | |
| 1078 | 1076 | 688 | 690 | 691 | 692 | 1072 | 1071 | 1070 | 696 | 1068 | 698 | 701 | 1064 | 980 | 978 | 786 | 788 | 789 | 790 | 974 | 973 | 972 | 794 | 970 | 796 | 799 | 966 | 1470 | 1468 | 296 | 298 | 299 | 300 | 1464 | 1463 | 1462 | 304 | 1460 | 306 | 309 | 1456 | 37065 | |
| 723 | 1042 | 737 | 735 | 1029 | 1027 | 1026 | 740 | 1024 | 742 | 743 | 1022 | 1065 | 700 | 821 | 944 | 835 | 833 | 931 | 929 | 928 | 838 | 926 | 840 | 841 | 924 | 967 | 798 | 331 | 1434 | 345 | 343 | 1421 | 1419 | 1418 | 348 | 1416 | 350 | 351 | 1414 | 1457 | 308 | 37065 | |
| 1041 | 724 | 1028 | 1030 | 736 | 738 | 739 | 1025 | 741 | 1023 | 745 | 1020 | 1063 | 702 | 943 | 822 | 930 | 932 | 834 | 836 | 837 | 927 | 839 | 925 | 843 | 922 | 965 | 800 | 1433 | 332 | 1420 | 1422 | 344 | 346 | 347 | 1417 | 349 | 1415 | 353 | 1412 | 1455 | 310 | 37065 | |
| 725 | 1040 | 759 | 1006 | 772 | 992 | 769 | 998 | 770 | 994 | 1021 | 744 | 1062 | 703 | 823 | 942 | 857 | 908 | 870 | 894 | 867 | 900 | 868 | 896 | 923 | 842 | 964 | 801 | 333 | 1432 | 367 | 1398 | 380 | 1384 | 377 | 1390 | 378 | 1386 | 1413 | 352 | 1454 | 311 | 37065 | |
| 1039 | 726 | 1005 | 760 | 997 | 783 | 984 | 777 | 986 | 768 | 1019 | 746 | 1061 | 704 | 941 | 824 | 907 | 858 | 899 | 881 | 886 | 875 | 888 | 866 | 921 | 844 | 963 | 802 | 1431 | 334 | 1397 | 368 | 1389 | 391 | 1376 | 385 | 1378 | 376 | 1411 | 354 | 1453 | 312 | 37065 | |
| 1038 | 727 | 761 | 1004 | 991 | 778 | 985 | 784 | 983 | 774 | 1018 | 747 | 705 | 1060 | 940 | 825 | 859 | 906 | 893 | 876 | 887 | 882 | 885 | 872 | 920 | 845 | 803 | 962 | 1430 | 335 | 369 | 1396 | 1383 | 386 | 1377 | 392 | 1375 | 382 | 1410 | 355 | 313 | 1452 | 37065 | |
| 1037 | 728 | 1003 | 762 | 989 | 988 | 779 | 982 | 781 | 776 | 748 | 1017 | 706 | 1059 | 939 | 826 | 905 | 860 | 891 | 890 | 877 | 884 | 879 | 874 | 846 | 919 | 804 | 961 | 1429 | 336 | 1395 | 370 | 1381 | 1380 | 387 | 1374 | 389 | 384 | 356 | 1409 | 314 | 1451 | 37065 | |
| 729 | 1036 | 1002 | 763 | 775 | 981 | 782 | 987 | 780 | 990 | 1016 | 749 | 707 | 1058 | 827 | 938 | 904 | 861 | 873 | 883 | 880 | 889 | 878 | 892 | 918 | 847 | 805 | 960 | 337 | 1428 | 1394 | 371 | 383 | 1373 | 390 | 1379 | 388 | 1382 | 1408 | 357 | 315 | 1450 | 37065 | |
| 730 | 1035 | 1000 | 765 | 771 | 773 | 996 | 767 | 995 | 993 | 750 | 1015 | 1057 | 708 | 828 | 937 | 902 | 863 | 869 | 871 | 898 | 865 | 897 | 895 | 848 | 917 | 959 | 806 | 338 | 1427 | 1392 | 373 | 379 | 381 | 1388 | 375 | 1387 | 1385 | 358 | 1407 | 1449 | 316 | 37065 | |
| 731 | 1034 | 766 | 999 | 751 | 1013 | 753 | 1011 | 758 | 756 | 1008 | 1010 | 709 | 1056 | 829 | 936 | 864 | 901 | 849 | 915 | 851 | 913 | 856 | 854 | 910 | 912 | 807 | 958 | 339 | 1426 | 374 | 1391 | 359 | 1405 | 361 | 1403 | 366 | 364 | 1400 | 1402 | 317 | 1448 | 37065 | |
| 733 | 1032 | 764 | 1001 | 1014 | 752 | 1012 | 754 | 1007 | 1009 | 757 | 755 | 1055 | 710 | 831 | 934 | 862 | 903 | 916 | 850 | 914 | 852 | 909 | 911 | 855 | 853 | 957 | 808 | 341 | 1424 | 372 | 1393 | 1406 | 360 | 1404 | 362 | 1399 | 1401 | 365 | 363 | 1447 | 318 | 37065 | |
| 1033 | 732 | 711 | 1053 | 713 | 1051 | 1050 | 1049 | 717 | 718 | 719 | 721 | 1045 | 1043 | 935 | 830 | 809 | 955 | 811 | 953 | 952 | 951 | 815 | 816 | 817 | 819 | 947 | 945 | 1425 | 340 | 319 | 1445 | 321 | 1443 | 1442 | 1441 | 325 | 326 | 327 | 329 | 1437 | 1435 | 37065 | |
| 1031 | 734 | 1054 | 712 | 1052 | 714 | 715 | 716 | 1048 | 1047 | 1046 | 1044 | 720 | 722 | 933 | 832 | 956 | 810 | 954 | 812 | 813 | 814 | 950 | 949 | 948 | 946 | 818 | 820 | 1423 | 342 | 1446 | 320 | 1444 | 322 | 323 | 324 | 1440 | 1439 | 1438 | 1436 | 328 | 330 | 37065 | |
| 589 | 591 | 1175 | 1173 | 1172 | 1171 | 595 | 596 | 597 | 1167 | 599 | 1165 | 601 | 1164 | 491 | 493 | 1273 | 1271 | 1270 | 1269 | 497 | 498 | 499 | 1265 | 501 | 1263 | 503 | 1262 | 393 | 395 | 1371 | 1369 | 1368 | 1367 | 399 | 400 | 401 | 1363 | 403 | 1361 | 405 | 1360 | 37065 | |
| 1176 | 1174 | 590 | 592 | 593 | 594 | 1170 | 1169 | 1168 | 598 | 1166 | 600 | 603 | 1162 | 1274 | 1272 | 492 | 494 | 495 | 496 | 1268 | 1267 | 1266 | 500 | 1264 | 502 | 505 | 1260 | 1372 | 1370 | 394 | 396 | 397 | 398 | 1366 | 1365 | 1364 | 402 | 1362 | 404 | 407 | 1358 | 37065 | |
| 625 | 1140 | 639 | 637 | 1127 | 1125 | 1124 | 642 | 1122 | 644 | 645 | 1120 | 1163 | 602 | 527 | 1238 | 541 | 539 | 1225 | 1223 | 1222 | 544 | 1220 | 546 | 547 | 1218 | 1261 | 504 | 429 | 1336 | 443 | 441 | 1323 | 1321 | 1320 | 446 | 1318 | 448 | 449 | 1316 | 1359 | 406 | 37065 | |
| 1139 | 626 | 1126 | 1128 | 638 | 640 | 641 | 1123 | 643 | 1121 | 647 | 1118 | 1161 | 604 | 1237 | 528 | 1224 | 1226 | 540 | 542 | 543 | 1221 | 545 | 1219 | 549 | 1216 | 1259 | 506 | 1335 | 430 | 1322 | 1324 | 442 | 444 | 445 | 1319 | 447 | 1317 | 451 | 1314 | 1357 | 408 | 37065 | |
| 627 | 1138 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 15 | mgc | 41597 | 38687 | 32671 | 38771 | 36290 | 39161 | 35987 | 37065 | 39834 | 33575 | 34395 | 33626 | 37834 | 37065 | 43557 | 40255 | 30711 | 40339 | 33546 | 40729 | 37163 | 37065 | 40226 | 34359 | 34003 | 34410 | 36658 | 37065 | 41989 | 39471 | 32279 | 39555 | 34330 | 39945 | 37163 | 37065 | 39442 | 35143 | 34787 | 35194 | 36658 | 37065 |
| 1751 | 1740 | 1742 | 1744 | 1760 | 1762 | 26 | 24 | 22 | 20 | 6 | 4 | 2 | 1752 | 1653 | 1642 | 1644 | 1646 | 1662 | 1664 | 124 | 122 | 120 | 118 | 104 | 102 | 100 | 1654 | 1555 | 1544 | 1546 | 1548 | 1564 | 1566 | 222 | 220 | 218 | 216 | 202 | 200 | 198 | 1556 | 37065 | |
| 19 | 43 | 1724 | 37 | 1726 | 1731 | 34 | 1713 | 52 | 61 | 1706 | 55 | 1708 | 1746 | 117 | 141 | 1626 | 135 | 1628 | 1633 | 132 | 1615 | 150 | 159 | 1608 | 153 | 1610 | 1648 | 215 | 239 | 1528 | 233 | 1530 | 1535 | 230 | 1517 | 248 | 257 | 1510 | 251 | 1512 | 1550 | 37065 | |
| 17 | 38 | 1725 | 44 | 1723 | 1729 | 36 | 1719 | 46 | 56 | 1707 | 62 | 1705 | 1748 | 115 | 136 | 1627 | 142 | 1625 | 1631 | 134 | 1621 | 144 | 154 | 1609 | 160 | 1607 | 1650 | 213 | 234 | 1529 | 240 | 1527 | 1533 | 232 | 1523 | 242 | 252 | 1511 | 258 | 1509 | 1552 | 37065 | |
| 15 | 1728 | 39 | 1722 | 41 | 1737 | 28 | 1711 | 54 | 1710 | 57 | 1704 | 59 | 1750 | 113 | 1630 | 137 | 1624 | 139 | 1639 | 126 | 1613 | 152 | 1612 | 155 | 1606 | 157 | 1652 | 211 | 1532 | 235 | 1526 | 237 | 1541 | 224 | 1515 | 250 | 1514 | 253 | 1508 | 255 | 1554 | 37065 | |
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| 13 | 25 | 23 | 21 | 5 | 3 | 1739 | 1741 | 1743 | 1745 | 1759 | 1761 | 1763 | 14 | 111 | 123 | 121 | 119 | 103 | 101 | 1641 | 1643 | 1645 | 1647 | 1661 | 1663 | 1665 | 112 | 209 | 221 | 219 | 217 | 201 | 199 | 1543 | 1545 | 1547 | 1549 | 1563 | 1565 | 1567 | 210 | 37065 | |
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|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
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| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
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| | 747 | 38 | 61 | 74 | 68 | 716 | 718 | 705 | 79 | 707 | 73 | 724 | 769 | 16 | 649 | 136 | 159 | 172 | 166 | 618 | 620 | 607 | 177 | 609 | 171 | 626 | 671 | 114 | 10990 |
| | 39 | 746 | 59 | 71 | 700 | 698 | 83 | 704 | 84 | 86 | 714 | 726 | 768 | 17 | 137 | 648 | 157 | 169 | 602 | 600 | 181 | 606 | 182 | 184 | 616 | 628 | 670 | 115 | 10990 |
| | 745 | 40 | 55 | 72 | 82 | 97 | 690 | 91 | 692 | 703 | 713 | 730 | 767 | 18 | 647 | 138 | 153 | 170 | 180 | 195 | 592 | 189 | 594 | 605 | 615 | 632 | 669 | 116 | 10990 |
| | 744 | 41 | 49 | 77 | 88 | 92 | 691 | 98 | 689 | 697 | 708 | 736 | 19 | 766 | 646 | 139 | 147 | 175 | 186 | 190 | 593 | 196 | 591 | 599 | 610 | 638 | 117 | 668 | 10990 |
| | 743 | 42 | 725 | 715 | 90 | 694 | 93 | 688 | 95 | 695 | 70 | 60 | 20 | 765 | 645 | 140 | 627 | 617 | 188 | 596 | 191 | 590 | 193 | 597 | 168 | 158 | 118 | 667 | 10990 |
| | 43 | 742 | 729 | 710 | 696 | 687 | 96 | 693 | 94 | 89 | 75 | 56 | 21 | 764 | 141 | 644 | 631 | 612 | 598 | 589 | 194 | 595 | 192 | 187 | 173 | 154 | 119 | 666 | 10990 |
| | 44 | 741 | 731 | 709 | 699 | 87 | 702 | 81 | 701 | 85 | 76 | 54 | 763 | 22 | 142 | 643 | 633 | 611 | 601 | 185 | 604 | 179 | 603 | 183 | 174 | 152 | 665 | 120 | 10990 |
| | 45 | 740 | 732 | 712 | 717 | 69 | 67 | 80 | 706 | 78 | 711 | 53 | 23 | 762 | 143 | 642 | 634 | 614 | 619 | 167 | 165 | 178 | 608 | 176 | 613 | 151 | 121 | 664 | 10990 |
| | 47 | 738 | 57 | 65 | 63 | 51 | 719 | 721 | 723 | 733 | 735 | 58 | 761 | 24 | 145 | 640 | 155 | 163 | 161 | 149 | 621 | 623 | 625 | 635 | 637 | 156 | 663 | 122 | 10990 |
| | 739 | 46 | 25 | 759 | 27 | 757 | 756 | 755 | 31 | 32 | 33 | 35 | 751 | 749 | 641 | 144 | 123 | 661 | 125 | 659 | 658 | 657 | 129 | 130 | 131 | 133 | 653 | 651 | 10990 |
| | 737 | 48 | 760 | 26 | 758 | 28 | 29 | 30 | 754 | 753 | 752 | 750 | 34 | 36 | 639 | 146 | 662 | 124 | 660 | 126 | 127 | 128 | 656 | 655 | 654 | 652 | 132 | 134 | 10990 |
| | 295 | 297 | 489 | 487 | 486 | 485 | 301 | 302 | 303 | 481 | 305 | 479 | 307 | 478 | 197 | 199 | 587 | 585 | 584 | 583 | 203 | 204 | 205 | 579 | 207 | 577 | 209 | 576 | 10990 |
| | 490 | 488 | 296 | 298 | 299 | 300 | 484 | 483 | 482 | 304 | 480 | 306 | 309 | 476 | 588 | 586 | 198 | 200 | 201 | 202 | 582 | 581 | 580 | 206 | 578 | 208 | 211 | 574 | 10990 |
| | 331 | 454 | 433 | 426 | 428 | 440 | 360 | 358 | 356 | 346 | 344 | 434 | 477 | 308 | 233 | 552 | 531 | 524 | 526 | 538 | 262 | 260 | 258 | 248 | 246 | 532 | 575 | 210 | 10990 |
| | 453 | 332 | 355 | 368 | 362 | 422 | 424 | 411 | 373 | 413 | 367 | 430 | 475 | 310 | 551 | 234 | 257 | 270 | 264 | 520 | 522 | 509 | 275 | 511 | 269 | 528 | 573 | 212 | 10990 |
| | 333 | 452 | 353 | 365 | 406 | 404 | 377 | 410 | 378 | 380 | 420 | 432 | 474 | 311 | 235 | 550 | 255 | 267 | 504 | 502 | 279 | 508 | 280 | 282 | 518 | 530 | 572 | 213 | 10990 |
| 451 | 334 | 349 | 366 | 376 | 391 | 396 | 385 | 398 | 409 | 419 | 436 | 473 | 312 | 549 | 236 | 251 | 268 | 278 | 293 | 494 | 287 | 496 | 507 | 517 | 534 | 571 | 214 | 10990 | |
| 450 | 335 | 343 | 371 | 382 | 386 | 397 | 392 | 395 | 403 | 414 | 442 | 313 | 472 | 548 | 237 | 245 | 273 | 284 | 288 | 495 | 294 | 493 | 501 | 512 | 540 | 215 | 570 | 10990 | |
| 449 | 336 | 431 | 421 | 384 | 400 | 387 | 394 | 389 | 401 | 364 | 354 | 314 | 471 | 547 | 238 | 529 | 519 | 286 | 498 | 289 | 492 | 291 | 499 | 266 | 256 | 216 | 569 | 10990 | |
| 337 | 448 | 435 | 416 | 402 | 393 | 390 | 399 | 388 | 383 | 369 | 350 | 315 | 470 | 239 | 546 | 533 | 514 | 500 | 491 | 292 | 497 | 290 | 285 | 271 | 252 | 217 | 568 | 10990 | |
| 338 | 447 | 437 | 415 | 405 | 381 | 408 | 375 | 407 | 379 | 370 | 348 | 469 | 316 | 240 | 545 | 535 | 513 | 503 | 283 | 506 | 277 | 505 | 281 | 272 | 250 | 567 | 218 | 10990 | |
| 339 | 446 | 438 | 418 | 423 | 363 | 361 | 374 | 412 | 372 | 417 | 347 | 317 | 468 | 241 | 544 | 536 | 516 | 521 | 265 | 263 | 276 | 510 | 274 | 515 | 249 | 219 | 566 | 10990 | |
| 341 | 444 | 351 | 359 | 357 | 345 | 425 | 427 | 429 | 439 | 441 | 352 | 467 | 318 | 243 | 542 | 253 | 261 | 259 | 247 | 523 | 525 | 527 | 537 | 539 | 254 | 565 | 220 | 10990 | |
| 445 | 340 | 319 | 465 | 321 | 463 | 462 | 461 | 325 | 326 | 327 | 329 | 457 | 455 | 543 | 242 | 221 | 563 | 223 | 561 | 560 | 559 | 227 | 228 | 229 | 231 | 555 | 553 | 10990 | |
| 443 | 342 | 466 | 320 | 464 | 322 | 323 | 324 | 460 | 459 | 458 | 456 | 328 | 330 | 541 | 244 | 564 | 222 | 562 | 224 | 225 | 226 | 558 | 557 | 556 | 554 | 230 | 232 | 10990 | |
| 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 |

| 26 | mgc | 9916 | 11622 | 12564 | 9908 | 9288 | 11136 | 12694 | 10830 | 9136 | 11704 | 11960 | 10078 | 12230 | 10990 | 9916 | 12014 | 12956 | 8340 | 9680 | 10352 | 12302 | 10830 | 11096 | 12096 | 11176 | 10470 | 11446 | 10990 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 51 | 49 | 735 | 733 | 732 | 54 | 730 | 56 | 57 | 728 | 757 | 28 | 777 | 8 | 149 | 147 | 637 | 635 | 634 | 152 | 632 | 154 | 155 | 630 | 659 | 126 | 679 | 106 | 10990 |
| | 734 | 736 | 50 | 52 | 53 | 731 | 55 | 729 | 59 | 726 | 737 | 48 | 771 | 14 | 636 | 638 | 148 | 150 | 151 | 633 | 153 | 631 | 157 | 628 | 639 | 146 | 673 | 112 | 10990 |
| | 73 | 712 | 81 | 703 | 702 | 701 | 82 | 86 | 727 | 58 | 747 | 38 | 13 | 772 | 171 | 614 | 179 | 605 | 604 | 603 | 180 | 184 | 629 | 156 | 649 | 136 | 111 | 674 | 10990 |
| | 711 | 74 | 698 | 88 | 696 | 89 | 91 | 693 | 62 | 723 | 42 | 743 | 759 | 26 | 613 | 172 | 600 | 186 | 598 | 187 | 189 | 595 | 160 | 625 | 140 | 645 | 661 | 124 | 10990 |
| | 75 | 710 | 692 | 691 | 95 | 96 | 688 | 93 | 724 | 61 | 746 | 39 | 766 | 19 | 173 | 612 | 594 | 593 | 193 | 194 | 590 | 191 | 626 | 159 | 648 | 137 | 668 | 117 | 10990 |
| | 709 | 76 | 98 | 94 | 689 | 690 | 97 | 687 | 64 | 721 | 738 | 47 | 11 | 774 | 611 | 174 | 196 | 192 | 591 | 592 | 195 | 589 | 162 | 623 | 640 | 145 | 109 | 676 | 10990 |
| | 708 | 77 | 87 | 694 | 90 | 695 | 697 | 92 | 722 | 63 | 752 | 33 | 7 | 778 | 610 | 175 | 185 | 596 | 188 | 597 | 599 | 190 | 624 | 161 | 654 | 131 | 105 | 680 | 10990 |
| | 706 | 79 | 699 | 85 | 83 | 84 | 700 | 704 | 725 | 60 | 40 | 745 | 23 | 762 | 608 | 177 | 601 | 183 | 181 | 182 | 602 | 606 | 627 | 158 | 138 | 647 | 121 | 664 | 10990 |
| | 80 | 705 | 65 | 719 | 67 | 717 | 72 | 70 | 714 | 716 | 45 | 740 | 25 | 760 | 178 | 607 | 163 | 621 | 165 | 619 | 170 | 168 | 616 | 618 | 143 | 642 | 123 | 662 | 10990 |
| | 78 | 707 | 720 | 66 | 718 | 68 | 713 | 715 | 71 | 69 | 31 | 754 | 17 | 768 | 176 | 609 | 622 | 164 | 620 | 166 | 615 | 617 | 169 | 167 | 129 | 656 | 115 | 670 | 10990 |
| 46 | 27 | 35 | 756 | 755 | 741 | 751 | 41 | 748 | 36 | 32 | 742 | 780 | 5 | 144 | 125 | 133 | 658 | 657 | 643 | 653 | 139 | 650 | 134 | 130 | 644 | 682 | 103 | 10990 | |
| 739 | 758 | 750 | 29 | 30 | 44 | 34 | 744 | 37 | 749 | 43 | 753 | 770 | 15 | 641 | 660 | 652 | 127 | 128 | 142 | 132 | 646 | 135 | 651 | 141 | 655 | 672 | 113 | 10990 | |
| 782 | 775 | 16 | 1 | 765 | 783 | 6 | 21 | 24 | 12 | 4 | 763 | 767 | 776 | 684 | 677 | 114 | 99 | 667 | 685 | 104 | 119 | 122 | 110 | 102 | 665 | 669 | 678 | 10990 | |
| 3 | 10 | 769 | 784 | 20 | 2 | 779 | 764 | 761 | 773 | 781 | 22 | 9 | 18 | 101 | 108 | 671 | 686 | 118 | 100 | 681 | 666 | 663 | 675 | 683 | 120 | 107 | 116 | 10990 | |
| 345 | 343 | 441 | 439 | 438 | 348 | 436 | 350 | 351 | 434 | 463 | 322 | 483 | 302 | 247 | 245 | 539 | 537 | 536 | 250 | 534 | 252 | 253 | 532 | 561 | 224 | 581 | 204 | 10990 | |
| 440 | 442 | 344 | 346 | 347 | 437 | 349 | 435 | 353 | 432 | 443 | 342 | 477 | 308 | 538 | 540 | 246 | 248 | 249 | 535 | 251 | 533 | 255 | 530 | 541 | 244 | 575 | 210 | 10990 | |
| 367 | 418 | 375 | 409 | 408 | 407 | 376 | 380 | 433 | 352 | 453 | 332 | 307 | 478 | 269 | 516 | 277 | 507 | 506 | 505 | 278 | 282 | 531 | 254 | 551 | 234 | 209 | 576 | 10990 | |
| 417 | 368 | 404 | 382 | 402 | 383 | 385 | 399 | 356 | 429 | 336 | 449 | 465 | 320 | 515 | 270 | 502 | 284 | 500 | 285 | 287 | 497 | 258 | 527 | 238 | 547 | 563 | 222 | 10990 | |
| 369 | 416 | 398 | 397 | 389 | 390 | 394 | 387 | 430 | 355 | 452 | 333 | 472 | 313 | 271 | 514 | 496 | 495 | 291 | 292 | 492 | 289 | 528 | 257 | 550 | 235 | 570 | 215 | 10990 | |
| 415 | 370 | 392 | 388 | 395 | 396 | 391 | 393 | 358 | 427 | 444 | 341 | 305 | 480 | 513 | 272 | 294 | 290 | 493 | 494 | 293 | 491 | 260 | 525 | 542 | 243 | 207 | 578 | 10990 | |
| 414 | 371 | 381 | 400 | 384 | 401 | 403 | 386 | 428 | 357 | 458 | 327 | 301 | 484 | 512 | 273 | 283 | 498 | 286 | 499 | 501 | 288 | 526 | 259 | 556 | 229 | 203 | 582 | 10990 | |
| 412 | 373 | 405 | 379 | 377 | 378 | 406 | 410 | 431 | 354 | 334 | 451 | 317 | 468 | 510 | 275 | 503 | 281 | 279 | 280 | 504 | 508 | 529 | 256 | 236 | 549 | 219 | 566 | 10990 | |
| 374 | 411 | 359 | 425 | 361 | 423 | 366 | 364 | 420 | 422 | 339 | 446 | 319 | 466 | 276 | 509 | 261 | 523 | 263 | 521 | 268 | 266 | 518 | 520 | 241 | 544 | 221 | 564 | 10990 | |
| 372 | 413 | 426 | 360 | 424 | 362 | 419 | 421 | 365 | 363 | 325 | 460 | 311 | 474 | 274 | 511 | 524 | 262 | 522 | 264 | 517 | 519 | 267 | 265 | 227 | 558 | 213 | 572 | 10990 | |
| 340 | 321 | 329 | 462 | 461 | 447 | 457 | 335 | 454 | 330 | 326 | 448 | 486 | 299 | 242 | 223 | 231 | 560 | 559 | 545 | 555 | 237 | 552 | 232 | 228 | 546 | 584 | 201 | 10990 | |
| 445 | 464 | 456 | 323 | 324 | 338 | 328 | 450 | 331 | 455 | 337 | 459 | 476 | 309 | 543 | 562 | 554 | 225 | 226 | 240 | 230 | 548 | 233 | 553 | 239 | 557 | 574 | 211 | 10990 | |
| 488 | 481 | 310 | 295 | 471 | 489 | 300 | 315 | 318 | 306 | 298 | 469 | 473 | 482 | 586 | 579 | 212 | 197 | 569 | 587 | 202 | 217 | 220 | 208 | 200 | 567 | 571 | 580 | 10990 | |
| 297 | 304 | 475 | 490 | 314 | 296 | 485 | 470 | 467 | 479 | 487 | 316 | 303 | 312 | 199 | 206 | 573 | 588 | 216 | 198 | 583 | 568 | 565 | 577 | 585 | 218 | 205 | 214 | 10990 | |
| 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 44 | mgc | 10856 | 10876 | 10958 | 12026 | 10948 | 11634 | 9336 | 10990 | 9788 | 11262 | 12790 | 10950 | 10260 | 10990 | 11640 | 10876 | 10174 | 12810 | 10164 | 12026 | 8944 | 10990 | 10572 | 10478 | 12398 | 10950 | 11044 | 10990 |
| | 3 | 1 | 783 | 781 | 780 | 778 | 8 | 6 | 58 | 57 | 730 | 61 | 726 | 723 | 101 | 99 | 685 | 683 | 682 | 680 | 106 | 104 | 156 | 155 | 632 | 159 | 628 | 625 | 10990 |
| | 782 | 784 | 2 | 4 | 5 | 7 | 777 | 779 | 731 | 716 | 65 | 722 | 67 | 54 | 684 | 686 | 100 | 102 | 103 | 105 | 679 | 681 | 633 | 618 | 163 | 624 | 165 | 152 | 10990 |
| | 17 | 768 | 31 | 756 | 25 | 758 | 21 | 764 | 732 | 68 | 713 | 72 | 717 | 53 | 115 | 670 | 129 | 658 | 123 | 660 | 119 | 666 | 634 | 166 | 615 | 170 | 619 | 151 | 10990 |
| | 20 | 765 | 26 | 757 | 32 | 755 | 24 | 761 | 729 | 70 | 71 | 714 | 715 | 56 | 118 | 667 | 124 | 659 | 130 | 657 | 122 | 663 | 631 | 168 | 169 | 616 | 617 | 154 | 10990 |
| | 767 | 18 | 760 | 27 | 754 | 29 | 763 | 22 | 51 | 64 | 712 | 73 | 721 | 734 | 669 | 116 | 662 | 125 | 656 | 127 | 665 | 120 | 149 | 162 | 614 | 171 | 623 | 636 | 10990 |
| | 766 | 19 | 753 | 30 | 759 | 28 | 762 | 23 | 725 | 719 | 74 | 711 | 66 | 60 | 668 | 117 | 655 | 128 | 661 | 126 | 664 | 121 | 627 | 621 | 172 | 613 | 164 | 158 | 10990 |
| | 773 | 775 | 9 | 11 | 16 | 14 | 770 | 772 | 52 | 718 | 720 | 63 | 69 | 733 | 675 | 677 | 107 | 109 | 114 | 112 | 672 | 674 | 150 | 620 | 622 | 161 | 167 | 635 | 10990 |
| | 12 | 10 | 776 | 774 | 769 | 771 | 15 | 13 | 62 | 728 | 55 | 724 | 59 | 727 | 110 | 108 | 678 | 676 | 671 | 673 | 113 | 111 | 160 | 630 | 153 | 626 | 157 | 629 | 10990 |
| | 86 | 708 | 76 | 705 | 75 | 707 | 701 | 82 | 33 | 751 | 750 | 749 | 34 | 38 | 184 | 610 | 174 | 607 | 173 | 609 | 603 | 180 | 131 | 653 | 652 | 651 | 132 | 136 | 10990 |
| | 704 | 694 | 92 | 94 | 695 | 88 | 692 | 81 | 746 | 40 | 744 | 41 | 43 | 741 | 606 | 596 | 190 | 192 | 597 | 186 | 594 | 179 | 648 | 138 | 646 | 139 | 141 | 643 | 10990 |
| | 79 | 696 | 95 | 98 | 688 | 689 | 89 | 706 | 740 | 739 | 47 | 48 | 736 | 45 | 177 | 598 | 193 | 196 | 590 | 591 | 187 | 608 | 642 | 641 | 145 | 146 | 638 | 143 | 10990 |
| | 700 | 87 | 690 | 687 | 97 | 96 | 698 | 85 | 50 | 46 | 737 | 738 | 49 | 735 | 602 | 185 | 592 | 589 | 195 | 194 | 600 | 183 | 148 | 144 | 639 | 640 | 147 | 637 | 10990 |
| | 83 | 93 | 693 | 691 | 90 | 697 | 91 | 702 | 39 | 742 | 42 | 743 | 745 | 44 | 181 | 191 | 595 | 593 | 188 | 599 | 189 | 604 | 137 | 644 | 140 | 645 | 647 | 142 | 10990 |
| | 703 | 77 | 709 | 80 | 710 | 78 | 84 | 699 | 747 | 37 | 35 | 36 | 748 | 752 | 605 | 175 | 611 | 178 | 612 | 176 | 182 | 601 | 649 | 135 | 133 | 134 | 650 | 654 | 10990 |
| | 297 | 295 | 489 | 487 | 486 | 484 | 302 | 300 | 352 | 351 | 436 | 355 | 432 | 429 | 199 | 197 | 587 | 585 | 584 | 582 | 204 | 202 | 254 | 253 | 534 | 257 | 530 | 527 | 10990 |
| | 488 | 490 | 296 | 298 | 299 | 301 | 483 | 485 | 437 | 422 | 359 | 428 | 361 | 348 | 586 | 588 | 198 | 200 | 201 | 203 | 581 | 583 | 535 | 520 | 261 | 526 | 263 | 250 | 10990 |
| | 311 | 474 | 325 | 462 | 319 | 464 | 315 | 470 | 438 | 362 | 419 | 366 | 423 | 347 | 213 | 572 | 227 | 560 | 221 | 562 | 217 | 568 | 536 | 264 | 517 | 268 | 521 | 249 | 10990 |
| | 314 | 471 | 320 | 463 | 326 | 461 | 318 | 467 | 435 | 364 | 365 | 420 | 421 | 350 | 216 | 569 | 222 | 561 | 228 | 559 | 220 | 565 | 533 | 266 | 267 | 518 | 519 | 252 | 10990 |
| | 473 | 312 | 466 | 321 | 460 | 323 | 469 | 316 | 345 | 358 | 418 | 367 | 427 | 440 | 571 | 214 | 564 | 223 | 558 | 225 | 567 | 218 | 247 | 260 | 516 | 269 | 525 | 538 | 10990 |
| | 472 | 313 | 459 | 324 | 465 | 322 | 468 | 317 | 431 | 425 | 368 | 417 | 360 | 354 | 570 | 215 | 557 | 226 | 563 | 224 | 566 | 219 | 529 | 523 | 270 | 515 | 262 | 256 | 10990 |
| | 479 | 481 | 303 | 305 | 310 | 308 | 476 | 478 | 346 | 424 | 426 | 357 | 363 | 439 | 577 | 579 | 205 | 207 | 212 | 210 | 574 | 576 | 248 | 522 | 524 | 259 | 265 | 537 | 10990 |
| | 306 | 304 | 482 | 480 | 475 | 477 | 309 | 307 | 356 | 434 | 349 | 430 | 353 | 433 | 208 | 206 | 580 | 578 | 573 | 575 | 211 | 209 | 258 | 532 | 251 | 528 | 255 | 531 | 10990 |
| | 380 | 414 | 370 | 411 | 369 | 413 | 407 | 376 | 327 | 457 | 456 | 455 | 328 | 332 | 282 | 512 | 272 | 509 | 271 | 511 | 505 | 278 | 229 | 555 | 554 | 553 | 230 | 234 | 10990 |
| | 410 | 400 | 386 | 388 | 401 | 382 | 398 | 375 | 452 | 334 | 450 | 335 | 337 | 447 | 508 | 498 | 288 | 290 | 499 | 284 | 496 | 277 | 550 | 236 | 548 | 237 | 239 | 545 | 10990 |
| | 373 | 402 | 389 | 392 | 394 | 395 | 383 | 412 | 446 | 445 | 341 | 342 | 442 | 339 | 275 | 500 | 291 | 294 | 492 | 493 | 285 | 510 | 544 | 543 | 243 | 244 | 540 | 241 | 10990 |
| | 406 | 381 | 396 | 393 | 391 | 390 | 404 | 379 | 344 | 340 | 443 | 444 | 343 | 441 | 504 | 283 | 494 | 491 | 293 | 292 | 502 | 281 | 246 | 242 | 541 | 542 | 245 | 539 | 10990 |
| | 377 | 387 | 399 | 397 | 384 | 403 | 385 | 408 | 333 | 448 | 336 | 449 | 451 | 338 | 279 | 289 | 497 | 495 | 286 | 501 | 287 | 506 | 235 | 546 | 238 | 547 | 549 | 240 | 10990 |
| | 409 | 371 | 415 | 374 | 416 | 372 | 378 | 405 | 453 | 331 | 329 | 330 | 454 | 458 | 507 | 273 | 513 | 276 | 514 | 274 | 280 | 503 | 551 | 233 | 231 | 232 | 552 | 556 | 10990 |
| | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 | 10990 |

There are total 46 magic squares of order 28. The other can be seen in **excel files** attached with the work.

3 Author's Contribution to Magic Squares and Recreation Numbers

For author's contribution to **magic squares** and **recreation numbers** please see the links below:

- **Inder J. Taneja**, Magic Squares, <https://inderjtaneja.com/2019/06/27/publications-magic-squares/>

- **Inder J. Taneja**, Recreation of Numbers, <https://inderjtaneja.com/2019/06/27/publications-recreation-of-numbers/>

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- **Block-Wise Magic Squares**
- [3] **Inder J. Taneja**, Block-Wise Constructions of Magic and Bimagic Squares of Orders 8 to 108, May 15, 2019, pp. 1-43, **Zenodo**, <http://doi.org/10.5281/zenodo.2843326>.
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