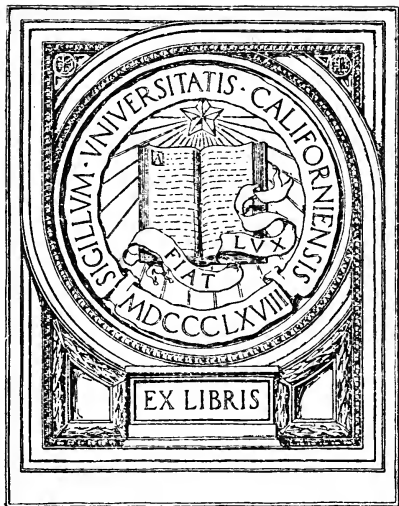


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MATHEMATICAL ROOTS UPROOTED,

INCLUDING SQUARE ROOT, CUBE ROOT, AND OTHER ROOTS.

A HIGHLY PRACTICAL, BRIEF AND UNIQUE METHOD
FOR THE EXTRACTION OF ALL
ARITHMETICAL ROOTS.

A SCIENTIFIC PROCESS
NOT HERETOFORE PRESENTED IN ANY PUBLISHED WORK
ON ARITHMETIC, AND

SAVING NINE-TENTHS OF THE LABOR

USUALLY NECESSARY FOR THE
EXTRACTION OF ROOTS, AND ESPECIALLY OF CUBE ROOT,
UNDER THE RULES NOW EMPLOYED.

FOR THE USE OF ALL GRADES AND ALL SCHOOLS
ABOVE THE PRIMARY, AND FOR TEACHERS
IN PARTICULAR.

—BY—

G. D. HINES, A. M.




CLEVELAND, O.:

J. R. HOLCOMB & CO., PUBLISHERS,

1886.

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DEDICATION.

TO MY WIFE,

THE SYMPATHETIC SHARER WITH ME OF THE MIXED
CUP OF FORTUNE INCIDENT TO
A LONG SCHOOL LIFE, THIS LITTLE VOLUME
IS AFFECTIONATELY INSCRIBED.

G. D. HINES.

PREFACE.

THIS little work needs but a short introduction. It is brevity itself, and whatever of merit it may possess, is largely due to its brevity and practicability. The methods of treating difficult roots, herein contained, and especially of cube root, were first suggested to the Author in the winter of '81 and '82, while teaching the Lincoln School, Plumas County, California. The pupils of that school, as is usual with most pupils, on first meeting the subject, were having trouble with cube root. This caused the teacher to put his wits to work in the almost hopeless effort to devise, if possible, some easier and shorter way of solution than the prolix processes extant in the arithmetics; and, after some days of close scrutiny of the meaning and relation of roots and powers, the Author detected, for the first time, a new method of teaching cube root. The treatment of other roots, and of surds, naturally followed; and the result has been what my fellow-teachers and others will find in the following pages of this work.

It is believed that the addenda of Interest, with its unique, brief, and simple treatment, will prove an attractive feature of the book.

This work is distinctly original. It details our own discoveries and is the product of our own thought respecting the treatment of that difficult subject, cube root. We send it forth on its mission, conscious that it must stand or fall on its own merits. We are fully persuaded, at the same time, that it needs only to be seen and understood to be appreciated; and that, if generally introduced, it must supplant the perplexing and unsatisfactory rules in the text-books on cube root and the higher roots, and on surds. We ask an impartial examination by our fellow-teachers everywhere, and believe they will find the little book helpful, if not indispensable, to them.

SELMA, CAL., MAY 28, 1886.



CUBE ROOT

AND OTHER ROOTS UPROOTED.

DEF.—A root is one of the equal factors that has been repeated *in multiplication* a given number of times, to produce a given power. *Ex.*—3 is the cube root of 27, having been twice repeated in multiplication, or thrice used as a factor, to produce the power. 27 is the cube root of 19683, having been twice repeated in multiplication, or thrice used as a factor, to produce the power. 15 is the fourth root of 50625, having been three times repeated in multiplication, or four times used as a factor, to produce the power. And so on for any other roots, integral or fractional, positive or negative. To find the roots of all powers that legitimately belong to arithmetic, is the chief object of this work.

Obs.—As this treatise deals chiefly with *cube* root and other *higher* roots, no extended notice of *square* root will be taken. Only an incidental usage will be made of it.

THE BASIS.

It is a well-known fact that the principles underlying Arithmetical evolution are derived from the mother science of Algebra, and that the arithmetical *rules* have been formulated out of the algebraic formulæ. No other rules for the extraction of roots have been presented in the arithmetics, and perhaps, substantially, no others can be framed than those which depend on algebraic principles. But certain rules can, nevertheless, be formulated, which, while they have reference to algebraic principles, completely revolutionize the old mammoth rules, and, in brevity, almost annul them.

THE NEW TREATMENT.

The methods about to be illustrated need have no reference to algebra, nor do they require any knowledge of that science. They annihilate the "cubic block" system, which clearly presents the principles of evolution to only the maturer scholars; and then only in *cube* root, and are of no real advantage in the actual work of even the *cube* root, in very large numbers, and certainly of no advantage in extracting any other than the *cube* root.

CUBE ROOT.

We will now present our method for the extraction of the *cube* root. Powers are either perfect or imperfect. 15625 is a perfect cube, while 18740 is an imperfect cube, or third power, and is called a surd.

We will present a rule for the extraction of the cube root of perfect third powers, and one also for that of surds.

Obs.—It may be remarked that a surd may be considered an imperfect power of any degree whatever. Thus, 18740 may be considered an imperfect square, cube, fourth power, or any other power; for we may require the approximate square root, cube root, fourth root, or any other root, of 18740. But it sometimes happens that a perfect power of one degree is a surd of another degree, and *vice versa*.

Ex.—25 is a perfect square, but an imperfect cube; while 27 is an imperfect square, but a perfect cube.

EXACT CUBES OF TWO PERIODS.

Let us extract the cube root of the following numbers, viz.:

| | | |
|--------|--------|--|
| 13824 | 185193 | A little observation and practice enable us to determine by inspection the root figure of the first period of the power. Thus, the root figure of 13, in the first of the preceding numbers, is 2. And by the new method, the root figure of the last period is 4, when the period ends in 4. Hence, the cube root of 13824 is 24. The root figure of the first period of 74088 is 4, and the root figure of the last period is 2, when the period ends in 8. (It is 8 when the period ends in 2.) So the cube root of the last number is 42. The cube root of 262144 is obtained in the same way. The root figure of 262 is 6, and of 144 it is 4. So the $\sqrt[3]{262144}$ is 64. Again, the root figure of the first period of 166375 is 5; and the root figure of the last period is 5, when the period ends in 5. So the $\sqrt[3]{166375}$ is 55. 704969 gives, for the first root figure, 8; and the last is 9, when the period ends in 9. So, the $\sqrt[3]{704969}$ is 89. In like manner, 185193 gives, for the first root figure, 5; and last figure is 7, when the period ends in 3. (It is 3, when the period ends in 7.) Thus, the $\sqrt[3]{185193}$ is 57. The cube root of 250047, for reasons already |
| 74088 | 250047 | |
| 262144 | 91125 | |
| 166375 | 97336 | |
| 704969 | 226981 | |

stated, is 63. The cube root of 91125, for similar reasons, is 45. The $\sqrt[3]{97336}$ is to be written out *impromptu*, just as the previous roots have been; making the last root figure 6, when the final period ends in 6. Also, the $\sqrt[3]{226981}$ is 61, the last root figure being 1, when the concluding period ends in 1. Observe that, in all perfect cubes, the final root figure is simply *chosen*, according to the character of the terminating figure of the power. This is a great saving of time and work, as will be shown hereafter.

EXPLANATION.

The reasons for the foregoing *selection* of the final root figure, depend on a very plain principle. In all perfect third powers, it is evident that the final figure of the *power* arises from the multiplication of the final figure of the *root* twice into itself. Now, if we multiply the nine digits, respectively, twice into themselves, we shall have this result, viz.:

| | |
|---|---|
| $1 \times 1 \times 1 = 1$ $2 \times 2 \times 2 = 8$ $3 \times 3 \times 3 = 27$ $4 \times 4 \times 4 = 64$ $5 \times 5 \times 5 = 125$ $6 \times 6 \times 6 = 216$ $7 \times 7 \times 7 = 343$ $8 \times 8 \times 8 = 512$ $9 \times 9 \times 9 = 729$ | <p>Observing the final figures of these powers, we see that the final <i>root</i> figure 1 produces a 1, on being twice multiplied into itself. We see that the final root figure 2 produces an 8, and an 8 a 2; that 3 produces a 7, and a 7 a 3; that a 4 produces a 4; that a 5 produces a 5; that a 6 produces a 6, and that a 9 produces a 9.</p> <p><i>Obs.</i>—The cubes of the several digits, viz.: 1, 8, 27, 64, 125, 216, 343, 512, 729, must be so thoroughly familiar to the student that he can select the root figure of the first period <i>impromptu</i>.</p> <p>If the first period is, in magnitude, between 1 and 8, the root figure is 1; if the first period is, in magnitude, between 8 and 27, the root figure is 2; if the first period is embraced between 27 and 64, the root figure is 3; if it is between 64 and 125, the root figure is 4; and so on.</p> |
|---|---|

1. What is the root figure of the first period, if the period is comprised between 512 and 729?
2. What is the root figure of the first period, if the period is larger than 729?

EXAMPLES.

Let it be required to extract the cube root of the following, by the foregoing principles, viz.:

$\sqrt[3]{970299} = 99$ Thus, we may write out, *impromptu*, according to the foregoing principles, the roots of these, and of *all* perfect cubes involving only two periods.

$\sqrt[3]{681472} = 88$
 $\sqrt[3]{456533} = 77$
 $\sqrt[3]{287496} = 66$
 $\sqrt[3]{6859} = 19$
 $\sqrt[3]{59319} = 39$

Let the student find the roots of the following, writing out the answers, off-hand, without any figuring or formal extraction, and choosing, at sight, the final root figure, according to the character of the terminal figure of the power, viz.:

- | | |
|------------------------|----------------------------|
| 1. $\sqrt[3]{39304}$ | 7. $\sqrt[3]{.00002744}$ |
| 2. $\sqrt[3]{.091125}$ | 8. $\sqrt[3]{.000024389}$ |
| 3. $\sqrt[3]{46656}$ | 9. $\sqrt[3]{.000079507}$ |
| 4. $\sqrt[3]{405224}$ | 10. $\sqrt[3]{.000614125}$ |
| 5. $\sqrt[3]{389017}$ | 11. $\sqrt[3]{2.197000}$ |
| 6. $\sqrt[3]{474582}$ | 12. $\sqrt[3]{941.192000}$ |

Obs.—The last six preceding numbers consist of three periods, but may be solved without premeditation by the same rules, respecting the terminal figure, as are given for powers of two periods.

EXACT CUBES OF THREE PERIODS.

Let us extract the cube root of the following numbers:

- | | | |
|--------------|--------------|---------------|
| 1. 44361864 | 4. 12.812904 | 7. 153990656 |
| 2. 134217728 | 5. 5545233 | 8. 387420489 |
| 3. 12812904 | 6. 200376 | 9. 10077.696 |
| | | 10. 36.926037 |

Taking the first of the preceding numbers, and selecting the first root figure, 3, we take its cube from the period, and to the remainder attach the next period. Find the second root figure by dividing the partial dividend, save the two right-hand figures, by triple the square of the first root figure. Choose the last figure according to the character of the terminal figure of the power.

In the same manner, the cube root of

134217728 is 512.

125
 92.17

So, the cube root of

For a partial divisor we take three times the square of the first root figure, and again choose the last figure.

12812904 | 234, found
 8

thus: Partial divisor 12 | 48.12 The last figure is simply chosen.
 The cube root of 12.812904 is 2.34, the same in form but different in value.

$$\text{The } \sqrt[3]{5545233} = 177$$

3 | 45.45 Dividing and allowing for a completed divisor, we get 7 for the second root figure, and choose the last, which must be 7. Why?

$$\text{The } \sqrt[3]{2000376} = 126. \text{ Ans.}$$

$$\text{Partial divisor } 3 \begin{array}{r} 1 \\ \hline \end{array}$$

10.00 Why is the last root figure 6?

No other figuring than the above is necessary.

$$\text{The } \sqrt[3]{153990656} = 536.$$

Divisor $5^2 \times 3 = 75$ | 289.90 Always triple the square of first root figure for a partial divisor of all but the two right-hand figures of the partial dividend.

$$\text{The } \sqrt[3]{387420489} = 729.$$

Divisor 147 | 444.20 Having obtained the second root figure, we choose the last unerringly. Why is it 9? How is 147 obtained?

$$\text{The } \sqrt[3]{10077.696} = 21.6.$$

Divisor 12 | 20.77 On the same principles the cube root of $36.926037 = 3.33.$

and is found thus: $27 \begin{array}{r} 27 \\ \hline 99.26 \end{array}$

On the law of the terminal figure of the power depends the secret of this new method with cube root. It is worth much to the student. Let him verify all of the above answers, by going through the actual work in every case, and thus acquire the needed familiarity.

THIRD POWERS,

Involving periods of noughts at the left or right of the significant figures, and extracted by the foregoing rule.

$$\text{The } \sqrt[3]{.000520476129} = .0809.$$

Partial divisor 192 | 174.75 The partial divisor is not contained in the brought-down dividend shorn of its two right-hand figures, and we place a nought for the third figure of the root, and arbitrarily choose the last figure which is 9.

$$\text{The } \sqrt[3]{.048228544000} = .3640.$$

Divisor $27 \begin{array}{r} 27 \\ \hline 212.28 \end{array}$ Dividing, we find the partial divisor is contained in 212 only 6 times, allowing for the effect of a finished divisor. We choose the remainder of the root figures.

$$\text{The } \sqrt[3]{.000,007,077,888} = .0192.$$

Divisor 3 | 60.77 Dividing by the partial divisor, we find it will go into the partial dividend the largest possible number of times. (No divisor can go more than 9 times.) The last figure of the root is 2. Why?

$$\text{The } \sqrt[3]{.000618470208} = .0852. \text{ Ans.}$$

$$\text{Divisor } 192 \begin{array}{r} 192 \\ \hline 1064.70 \end{array}$$

1. How is the partial divisor, 192, obtained?
We select, *unerringly*, the last root figure.

ADDITIONAL EXAMPLES FOR THE STUDENT.

Find the cube root of the following, viz.:

1. 84604519.
2. 2803221.
3. 3176523.
4. 382657176.
5. 40.353607.
6. 1520875.

Find the value, also, of these:

7. $\sqrt[3]{13481272}$
8. $\sqrt[3]{8615.125000}$
9. $\sqrt[3]{738.763264}$
10. $\sqrt[3]{561.515625}$
11. $\sqrt[3]{21024576}$
12. $\sqrt[3]{67917312}$

In solving these examples, let it be understood that our only rule for cubes of three periods is, to take out by inspection the root figure of the first period, and, having taken its cube from that period and attached the next period to the remainder for a new dividend, to find the next root figure by dividing the partial dividend by triple the square of the first root figure, and arbitrarily *choose* the last figure of the root, according to principles already explained.

Perfect Cubes of More Than Three Periods.

We will now extract the cube root of some numbers of more than three periods, and show that the new method applies to them, with a very slight amount of additional work.

Let it be required to extract the cube root of the following numbers, viz.: 8024024008, 10460353203, 98867482624, 122615327232, 1544804416. Taking the first of the above numbers, we proceed as with powers of three periods, thus:

$$\begin{array}{r} 8,024,024,008 \mid 2002. \text{ Ans.} \\ 8 \end{array}$$

Divisor 12.00 | 24.024 *Explanation.*—Finding the first root figure, deducting its cube, and attaching the next figure for a dividend, we find that the partial divisor, 12, is not contained in the partial dividend, 24, of the second period, and we attach the next period. The root thus far found is 20, and triple its square is 1200, the next partial divisor, which is again not contained in the brought-down dividend shorn of the two right-hand figures, and the root now found is 200, and we choose the last figure.

$$\text{The } \sqrt[3]{10460353203} = 2187. \text{ Ans.}$$

$$\begin{array}{r} 12.6.1 \mid 24.60 \\ 1261 \end{array}$$

$21^2 \times 3 = 1323$ 11993.53 *Explanation.*—We divide, as usual, the first partial dividend by the triple square of the first root figure, which is 12, and obtain 1 for the second root figure. We finish the divisor, 12, by adding to it, successively, advanced one place to the right for each addition, the triple product of the two root figures, and the square of the last one. This finished divisor we multiply by the last root figure, and take the product from the brought-down dividend. We need only a second partial divisor, the triple square of 21, to find the third root figure, and we choose the last figure of the root, according to the character of the terminal figure of the power.

$$\text{The } \sqrt[3]{98867482624} = 4624. \text{ Ans.}$$

$$\begin{array}{r} \text{Divisor} \mid 48.36 \mid 348.67 \\ 72 \mid 33336 \end{array}$$

Fin. div. 5556 | 15314.82 Using the same finished divisor as an approximate divisor, we find the next root figure to be 2, and then we select the last. Observe that 36 is put in the niche of the other two parts of the divisor, to save space.

Obs.—To insure accuracy in finding the third root figure, it is generally best to take for a divisor the triple square of the first two root figures. Even then there is an immense saving of work, time and space over the old methods. By the modes of solution practiced heretofore, as treated in the books, the work of the above example is absolutely overwhelming, covering, with the rule and the explanation, from three to five pages. Let the pupil, for the present, accept on *trust* such parts or features of the rule as he may not thoroughly understand. Further elucidation will be given in due time.

$$\sqrt[3]{122615327232} = 4968.$$

| | | |
|-------------|------------------------|----------|
| 1st Divisor | 48.81 | 586.15 |
| | 108 | 53649 |
| | 5961 | 49663.27 |
| | === | 43218 |
| 2nd Divisor | $49^2 \times 3 = 7203$ | 6445 |

to obtain the third root figure, and then we arbitrarily choose the last figure of the root. What have we saved by this abbreviated method?

We have saved the completion of the second divisor, the formation of the third, the completion of the third divisor, and all the multiplications and subtractions connected with these last periods, the prolixity and difficulty of which rapidly increase, under old methods, as we approach the end.

The $\sqrt[3]{1544804416} = 1156.$ *Ans.*

| | | |
|------------------|-----|---------|
| 1st divisor | 3 | 1 |
| Finished divisor | 331 | 544 |
| | === | 331 |
| 2d divisor | 363 | 2138.04 |
| | | 1815 |

by the third root figure, 5. We do so here, to show that the remainder of the dividend divided, is less than the divisor.

The $\sqrt[3]{12,521,107,822,861} = 23221.$ *Ans.*

| | | |
|--------------|-------|---------|
| 1st divisor | 12 | 8 |
| | 18.9 | — |
| Fin. divisor | 1389 | 45.21 |
| | === | 4167 |
| 2nd divisor | 158.7 | 3541.07 |
| | | 3174 |

Explanation.—We complete the first partial divisor, and take its product, with the corresponding root figure, from the brought-down dividend. The triple of the square of the root now found is a partial divisor by which all the other root figures may be found, except the last, and that is simply chosen. Having framed the partial divisor, 1587, we ascertain how often it is contained in the corresponding partial dividend (always excepting the two right-hand figures), and multiply the divisor by the quotient figure, and subtract the result from the portion of the dividend divided, as in ordinary division. Having found the third figure of the root, we use for a dividend the remainder of the last partial dividend, and for a divisor we use the previous divisor shorn of its right-hand figure. And, in multiplying this divisor by the quotient figure, we reckon in the number of units that would be to carry from the figure cut off. If there were more periods than five, the process might be continued, by dropping figures, successively, from the right of the divisor. But the last figure of the root is always *chosen*. And, now, in what is said above, respecting the finding of some of the root figures by ordinary division, lies the germ of the method herein treated, for the approximate extraction of the cube root of surds, to be explained in due time.

Take one more example involving five periods. Let it be required to extract the cube root of the number

599,183,710,672,625 | 84305. *Ans.*

| | | |
|-------------|--------------------------|----------|
| 1st divisor | 192.16 | 512 |
| | 96 | — |
| | 20176 | 871.83 |
| | === | 80704 |
| 2d divisor | $84^2 \times 3 = 2116.8$ | 64797.10 |
| | | 63504 |
| | | 1293 |

last root figure, which, from the character of the terminal figure of the power, must be 5.

Obs.—In the above solution, there is an immense saving of labor, time, and space. The student cannot realize the wide difference, if he has not gone through the labyrinths of the old methods, and the mazes of the old rule, in solving such problems. The rule and the explanation, under the old system, would cover several pages of this work. By the new method here taught, we save the completion of the second partial divisor, and the formation and completion of two other divisors, which it is the most desirable to obviate, because they become very large toward the end of the extraction, requiring much time and care in the work. But, for the encouragement of the student, it may be stated that few authors give numbers involving more than four periods; and it is also a rare thing in applied mathe-

matics to find questions involving the roots beyond the fourth or fifth decimal, which are exceedingly easy by the method here taught, but long and tedious by the old method.

ADDITIONAL EXAMPLES FOR THE STUDENT.

Find the cube root of these numbers, viz.:

1. 2176782336.
2. 87824421125.
3. 43132764843.

4. 132963364864.
5. 225199.600704.
6. 754863.574332608.

Solve, also, the following :

7. $\sqrt[3]{\frac{18818892}{18}}$
8. $\sqrt[3]{173274\frac{3}{4}}$
9. $\sqrt[3]{2\frac{187}{1000}}$

10. $\sqrt[3]{1\frac{81}{12}}$
11. $\sqrt[3]{\frac{48828}{8}}$
12. $\sqrt[3]{\frac{3375}{8}} \times \sqrt[3]{\frac{125}{2}}$

NOTE.—All perfect cubes of only two periods are to be solved at sight. Mixed numbers should be reduced to improper fractions, or to mixed decimals.

Find the value of this expression, viz.:

$$\sqrt[3]{16^6} \div \sqrt[3]{64} - (4 \times \sqrt[3]{.512}) =$$

Solution: $16^2 \div 4 - (4 \times .8) =$

$$256 \div 4 - (3.2) =$$

$$64 - (3.2) = 60.8. \text{ Ans.}$$

Find the value of these, viz.:

1. $\sqrt[3]{54.872}$
2. $\sqrt[3]{21.952}$
3. $\sqrt[3]{2357947\frac{68}{1000}}$

4. $\sqrt[3]{2326.203125}$
5. $\sqrt[3]{\frac{21952}{27}}$
6. $\sqrt[3]{64.964808}$
7. $\sqrt[3]{\frac{27000}{32768}} \times \sqrt[3]{\frac{1331}{3125}}$

Answer to last: $\frac{1}{2}\frac{1}{2}$. Let the student find it.

NOTE.—If the terms of a fraction are not perfect powers of the indicated root, let them be reduced to such powers, where possible, before the extraction begins.

The foregoing examples must suffice for illustration of the best method of extracting the root of exact cubes. The roots of higher powers will be discussed in connection with logarithms.

CUBIC SURDS.

We will now present a brief, easy, and practical method of treating *imperfect* powers of the third degree. In advance, we state that *that* method is, of course, one of approximation. Here it is impossible to choose the final figure, since there is no definite final root figure in surds.

Let it be required to find the cube root, correct to four decimals, of the fraction

$$\frac{1}{2} = .50000000 \mid .7937-$$

| | | |
|-------------|---------------|----------|
| 1st divisor | 147.81 189 | 343 |
| | 16671 | 1570.00 |
| | 1872.3 | 150039 |
| 2d divisor | | 69610.00 |
| | | 56169 |
| | | 13441 |
| | | 13106 |
| | | 335 |

This answer is true to the fourth place, inclusive, as verified by logarithms. We extract in the usual way until we obtain half the number of root figures desired. We then form the second partial divisor, and with it obtain the other two root figures by a mode of contracted division, thus: Having found the third figure of the root and taken its product with the divisor from the partial dividend, use, instead of attaching other periods, the same partial dividend, and drop one figure from the right of the divisor last found, and ascertain how often it will go into the remainder of dividend accruing from the previous division, reckoning in the number that would be to carry from the figure dropped.

Find the $\sqrt[3]{.27}$ correct to four places.

| | | | |
|-------------|--------|-----------|--------|
| 1st divisor | 108.16 | .27000000 | .6463+ |
| | 72 | 216 | |
| | 1153 | 540.00 | |
| | 1228 | 4644 | |
| 2d divisor | | 78560.00 | |
| | | 73728 | |
| | | 4832 | |
| | | 3686 | |
| | | 1146 | |

Observe that 16 is written in the niche of the other two parts of the divisor, to save space.

Explanation.—108 is the partial divisor. (How obtained?) This divisor gives the next root figure. 11536 is the finished divisor. (How obtained?) Observe that the two added parts, 72 and 16, are each advanced one place to the right. 12288 is the second partial, or approximate, divisor.

1. How is it obtained?
2. In the product of the root figure, 3, with the approximate divisor, 1228, account for the figure 6 in the result.

Obs.—Outside of mathematical astronomy, where, in a few instances, great precision is required, it is scarcely necessary to approximate a root beyond four decimal figures.

The $\sqrt[3]{.640000000}$ &c. = .8617+

| | | |
|-------------|--------|----------|
| 1st divisor | 192.36 | 512 |
| | 144 | 1280.00 |
| | 20676 | 124056 |
| 2d divisor | 2218.8 | 39440.00 |
| | | 22188 |
| | | 17252 |
| | | 15532 |
| | | 1720 |

Observe that 36 is written in the niche of the other two parts of the divisor, to save space. 20676 is the only finished divisor it is necessary to make.

After finding the third root figure, we add no other periods to the partial dividend, but use the same dividend, and use, as a divisor, the previous one shorn of its final figure. If we wish to find other root figures, we drop other figures from the divisor, one by one, and continue to divide as in common division. But it is well to bear in mind that if we wish to obtain accurately a definite number of decimals in the root, we must extract in the ordinary way, until we have obtained one-half of them, and then make a partial divisor from the root thus far found, and use that as an approximate divisor, to find the other root figures. But this is a very great saving, as it is the final periods that are to be dreaded in extraction. Do not fail to be familiar with the cubes 1, 8, 27, 64, 125, 216, 343, 512, 729. Otherwise you cannot select at sight the first root figure.

The $\sqrt[3]{\frac{2}{3}}$ = .666,666,666, &c. = .8735+

| | | |
|-------------|--------|----------|
| 1st divisor | 192.49 | 512 |
| | 168 | 1546.66 |
| | 20929 | 146503 |
| 2d divisor | 2270.7 | 81636.66 |
| | | 68121 |
| | | 13515 |
| | | 11353 |
| | | 2162 |

See that 49 is written in the niche again, instead of being written thus: 192 168 which would occupy 49, too much space.

Obs.—In completing any divisor, we must advance each part one place to the right.

The $\sqrt[3]{.097672831790877}$ = .46053+

| | | |
|-------------|---------|-------------|
| 1st divisor | 48.36 | 64 |
| | 72 | 336.72 |
| | 5556 | 33336 |
| 2d divisor | 63480.0 | 3368.317.90 |
| | | 3174000 |
| | | 194317 |
| | | 190440 |
| | | 3877 |

This is accurate as far as extracted; and, ye, there is a necessity to frame only a second approximate divisor. Referring to the third root figure, we see that the divisor is not contained in the partial divi-

dend shorn of the last two figures, and we put a nought in the quotient, and two noughts to the right of the divisor, because the squaring of the root thus far found, namely 460, would give two noughts in the resulting partial divisor, 634800. Attaching another period, we use this divisor to find the remaining root figures.

Required the indicated roots of the following surds, accurate to four decimals, viz.:

1. $\sqrt[3]{.171467}$
2. $\sqrt[3]{2.42999}$
3. $\sqrt[3]{19.44}$
4. $\sqrt[3]{.571428}$
5. $\sqrt[3]{5}$
6. $\sqrt[3]{4\frac{1}{2}}$
7. $\sqrt[3]{42\frac{3}{4}}$
8. $\sqrt[3]{22.4}$
9. $\sqrt[3]{2}$
10. $\sqrt[3]{3}$

11. $\sqrt[3]{41.502}$
12. $\sqrt[3]{4}$
13. $\sqrt[3]{11}$
14. $\sqrt[3]{9\frac{1}{2}}$
15. $\sqrt[3]{9}$
16. $\sqrt[3]{7}$
17. $\sqrt[3]{48 \times 4^2 - 18^2}$
18. $\sqrt[3]{300484}$
19. $\sqrt[3]{129.009}$
20. $\sqrt[3]{.6748 - .2482}$
21. $\sqrt[3]{6}$

These examples must suffice for illustration of the brevity secured by this mode of approximating the cube root of surds, by which at least three-fourths of the work necessary under other methods is saved; while, in perfect cubes, nine-tenths of the usual work is obviated.

HIGHER ROOTS.

To "roots of all powers," so called, but a small space can be allotted in this brief work. Some authors, with what seems to be a strange love of novelty, rather than a desire for utility, have made quite an array of numbers requiring the 5th, 6th, 7th, 8th, 9th, 10th, 12th, 15th, 18th, 20th; and the 25th root, to be extracted. Now, it is needless to say that no such roots occur in nature, or in the course of applied mathematics. It is rare, indeed, in applied mathematics, that a number or quantity occurs requiring a root beyond the *third* or *fourth*. Then why should such numbers encumber that most practical of all the mathematical branches—arithmetic? One of the many authors on arithmetical science, whose works are in extensive use in this country, requires the 20th root of 617, the 15th root of 15, and the 25th root of 100. Wherefore? we ask; what the need? When will the necessity for their use arise? Such novelties are incubuses on the science of numbers, and ought to be relegated to the closets of defunct mathematics. But, if mathematicians must put such impractical problems in their books and have them solved, let them be solved by shorter and better methods than those presented in their works. That briefer and better method is by means of logarithms. Especially is this true for roots whose indices are not factorable into the square and cube roots. Indeed, even in this case, the logarithmic method would be far preferable, and, if once adopted, would supersede all other methods for the higher roots. For, although the 8th root can be taken by three successive extractions of the square root, the 9th root by two successive extractions of the cube root, and the 6th root by the cube root of the square root, or the square root of the cube root, still these roots can be much more easily and quickly taken by logarithms. We simply take, from a table of logarithms, the log. of the number whose root is sought; divide this log. by the index of the root, and find, in the same table, the number corresponding to the quotient, and it will be the required root.

Ex.—Find the cube root of 1.577635—

The log. of this number is .19800+; divide it by 9, the index, and the result is .02200+, and the number in the table corresponding to these figures is 1.0519, the required root. The same result is also easily obtained by the abbreviated method for cube root, thus:

| | | | | | |
|---------|---------------|-------------------|-----------|----------|------|
| | 1.577635 = | | 1st root. | 2d root. | |
| Divisor | 3.3.1 | 1. | 1.1641 + | 1.05 + | Ans. |
| | | - | | | |
| Divisor | 363.36 198 | 5.77 331 | 3.00 | 1.641.00 | |
| | | - | | 1500 | |
| | | 38316 | | 141 | |
| | | - | | | |
| Divisor | 403.6.8 | 2466.35 229896 | | | |
| | | - | | | |
| | | 16739 | | | |
| | | 16147 | | | |
| | | - | | | |
| | | 592 | | | |
| | | 404 | | | |
| | | - | | | |
| | | 188 | | | |

This is the answer to the example in the work from which it has been drawn; but it will be seen that the logarithmic method gives the answer more accurately. We have simply taken the cube root of the cube root by our method.

Find the 7th root of 308. The log. of 308, page 6 of the logarithmic table, is 2.48855; divide by the index of the root, $2.48855 \div 7 = .35550+$; and the number corresponding to this logarithmic quotient is $2.26729+$, the 7th root of 308. All that is necessary in order to extract, by logarithms, any root, is to look in a table of logarithms for the log. of the number to be extracted; divide this by the index of the root, and find, in the same table, the number corresponding to the quotient, and it will be the root sought. This method is vastly shorter, and only requires a little knowledge of logarithms, and a little facility in their use, to enable one to evolve, with despatch, all roots. But such roots belong rather to higher mathematics. We would advise that, by all means, all roots above the third be taken by means of logarithms. It is but an hour's work to teach, to anyone that can multiply and divide, the use of the table. The after work is simply routine, and much valuable time is saved.

As a matter of curiosity, we give below the 7th root of the same number, as presented by its author in one of the books of the day. That is, the 7th root of 308.

OPERATION.

$$\begin{aligned} \sqrt[7]{308} &= 2.59 + \\ \sqrt[8]{308} &= 2.04 + \\ 2.59 + 2.04 &= 4.63 \\ 4.63 \div 2 &= 2.31 + \text{ assumed root.} \\ 2.31^6 &= 151.93 \\ 308 \div 151.93 &= 2.0272 + \\ 2.31 \times 6 + 2.0272 &= 15.8872 \\ 15.8872 \div 7 &= 2.2696 \text{ 1st approximation.} \\ 2.2696^6 &= 136.6748 \\ 308 \div 136.6748 &= 2.253452 + \\ 2.2696 \times 6 + 2.253452 &= 15.871052 \\ 15.871052 \div 7 &= 2.267293 \text{ 2d approx.} \end{aligned}$$

We have reached the second approximation. Consoling thought! And these are only indicated results, none of the multiplications, divisions, etc., being carried out. Now, if this belongs anywhere, and there is doubt of its having a place in applied mathematics, it belongs to higher mathematics. Such skirmishing in figures is calculated to keep one humble, by giving him a modest estimate of his attainments in evolution.

EVOLUTION BY LOGARITHMS.

Required the 25th root of 100. The log. of 100 = 2.000000. $2.000000 \div 25 = .080000$, and the number corresponding is 1.202266+, which is the root sought. The solution of the same example, as given by a standard author, is as follows:

| | |
|--|--|
| Now, as the 25th root must be less than the 24th root, let us take | $\begin{aligned} & \text{The } \sqrt[25]{100} = 10 \\ & \sqrt[4]{100} = \sqrt[4]{10} = 3.1622 \\ & \sqrt[8]{100} = \sqrt[8]{3.1622} = 1.7782 \\ & \sqrt[24]{100} = \sqrt[24]{1.7782} = 1.2115 \\ & 1.2 = \text{the assumed root.} \\ & 1.2^{24} = 79.49684 + \\ & 100 \div 79.49684 = 1.25792 + \\ & 1.2 \times 24 + 1.25792 = 30.05792 \\ & 30.05792 \div 25 = 1.2023168 \text{ 1st approx.} \\ & 1.2023168^{24} = 83.2677184 \\ & 100 \div 83.2677184 = 1.2009492 + \\ & 1.2023168 \times 24 + 1.2009492 = 30.0565524 \\ & 30.0565524 \div 25 = 1.202262 + \text{ 2d approx.} \end{aligned}$ |
|--|--|

We breathe a sigh of relief. Of course, not much space can be devoted, in this small work, to such solutions. It is only to show the difficulty of the subject under the old methods, in contrast with the brevity and facility of the new, that we allow a little space for some solutions under existing methods.

Find, by the logarithmic method, the 6th root of 25632972850442049. The log. of this large number is 16.408800. Dividing by 6, we get 2.734800. The number found in the table, corresponding to this quotient, is 543, the sixth root of the above number. The foregoing number, treated by the new method, gives, for the square root, 160103007, and the

$$\begin{array}{r} \sqrt[6]{160103007} = 543 \\ \underline{125} \\ 75 \quad 351.03 \end{array}$$

Explanation.—With the approximate divisor, 75, find the second figure of the root, 4, and choose the last. Why is it 3? Thus, the work of the heretofore difficult cube root is almost annihilated.

What is the 20th root of 617? The log. of 617 is 2.790285. Dividing by 20, we have .139514, and the number corresponding is 1.378841, the ans.

Find the 5th root of 5. The log. of 5 is .69897. Divide by 5, and get .13979, and the number corresponding is 1.37973, the 5th root of 5.

The 5th root of 120 is: Log. 120 = 2.07918 = .41583 +; and the number corresponding is 2.60517 $\frac{1}{2}$, the root wanted.

Let the student find, by logarithms (see explanation of use of the table, pp. 72 and 63 , etc.,) the roots of the following numbers, viz.:

- | | |
|-----------------------------------|-----------------------------|
| 1. The 8th root of 1099511627776. | 4. The 7th root of 1.95678. |
| 2. The 12th root of 16.3939. | 5. The 10th root of 743044. |
| 3. The 18th root of 104.9617. | 6. The 3rd root of 4330747. |

Find, also, by logarithms, or by the abbreviated method, at your option, the cube root of the following numbers, viz.:

- | | |
|---------------------|--------------------|
| 7. 702310891843072. | 9. 10964743589696. |
| 8. 744935304423023. | 10. 1881365963625. |

Required the solution of these examples:

1. If a ball 10 inches in diameter weighs 125 lbs., what is the diameter of a ball that weighs 216 lbs.?

Solution.— $\sqrt[3]{125} : \sqrt[3]{216} :: 10 : \text{ans} = \sqrt[3]{\frac{216}{125}} \times 10 = 12$.
5 : 6 :: 10 : ans. *Ans.* 12 inches.

2. How many balls $\frac{1}{4}$ inch in diameter will be required to make a ball 1 inch in diameter? *Ans.* 64 balls.

3. Suppose the diameter of the earth to be 7912 miles, and that it takes 1404928 bodies of the size of the earth to make one as large as the sun, what is the diameter of the sun?

$$\sqrt[3]{1404928} \times 7912 = 112 \times 7912 = 886144 \text{ miles. } \textit{Ans.}$$

4. A bin is 8 feet long, 4 feet wide, and 2 feet deep; what is the linear edge of a cubical box that will hold the same quantity of grain?

$$\sqrt[3]{8 \times 4 \times 2} = \sqrt[3]{8 \times 8} = 2 \times 2 = 4 \text{ feet. } \textit{Ans.}$$

Let the curt processes be used. Extract the factors of products in preference to taking the roots of the products.

5. If a stack of hay 24 feet high weighs 27 tons, what is the height of a stack weighing 8 tons?

$$\sqrt[3]{\frac{8}{27}} \times 24 = \frac{2}{3} \times 24 = 16 \text{ feet. } \textit{Ans.}$$

6. If a bell 4 inches high, 3 inches in diameter, and $\frac{1}{4}$ of an inch thick, weighs 1 pound, what are the dimensions of a similar bell weighing 27 pounds?

Ans. 12 inches high, 9 inches diameter, and $\frac{3}{4}$ of an inch thick.

7. If a loaf of sugar 10 inches high weighs 8 pounds, what is the height of a similar loaf weighing 1 pound?

$$\sqrt[3]{\frac{1}{8}} \times 10 = \frac{1}{2} \times 10 = 5 \text{ inches. } \textit{Ans.}$$

8. There is a bin 32 ft. long, 16 ft. wide, and 8 ft. deep; what must the side of a cubic bin be that shall contain the same quantity?

$$\sqrt[3]{32 \times 16 \times 8} = \sqrt[3]{64 \times 64} = 4 \times 4 = 16 \text{ ft. } \textit{Ans.}$$

9. What must be the side of a cubic bin that shall hold 350 bushels of grain?

SOLUTION.

$$2150.4 \times 350 = 752640 \mid 90.96 \div = 7 \text{ ft. } 6.96 \text{ in.}$$

| | | | |
|-----------|----------|------------|-------------|
| Divisor | 24300.81 | 729 | <i>Ans.</i> |
| | 2430 | | |
| Fin. div. | 245438.1 | 236.400.00 | |
| | | 22089429 | |

$$1550571$$

$$1472629$$

$$77942$$

We use the finished divisor, shorn of the final figure, as an approximate divisor to obtain the fourth figure of the root. For practical purposes, the above is a close approximation.

10. If a sphere of gold 1 inch in diameter is worth \$100, what is the diameter of a sphere that is worth \$6400?

$$\sqrt[3]{\frac{6400}{100}} = \sqrt[3]{64} \times 1 = 4 \text{ inches. } \textit{Ans.}$$

11. The cubic metre is 61026.048 cubic inches; what is the linear metre?

Ans. 39.37 inches. Find it by approximation.

We give one more illustration, each, of the new method of taking the cube root of perfect and imperfect third powers:

| | | |
|-------------|---|----------|
| | The $\sqrt[3]{146113369163} = 5267$. <i>Ans.</i> | |
| 1st divisor | 75 | 125 |
| | 30.4 | — |
| | 7804 | 211.13 |
| | 8112 | 15608 |
| 2d divisor | 8112 | 55053.69 |
| | | 48672 |
| | | 6381 |

There is no necessity of the last multiplication, 6 times the second divisor. Satisfy yourself that the remainder will be less than the divisor, and then *choose* the last root figure, thus saving a vast amount of work. Why is the final root figure 7?

What is the value of $1.05\frac{2}{3}$ to 6 decimals?

The log of 1.05 is .021189. Divide this by 3, and multiply the result by 5, and we get .035315; the number corresponding is 1.084715 \pm , the answer. To solve the above example in the old way, will require about 30 minutes; by the logarithmic method, 2 or 3 minutes.

The $\sqrt[3]{1.1810108914205625}$, by the approximate method, accurate to 6 decimals, is 1.057023 \pm . Find it. *A MORE EXACT VALUE IS: 1.057,023,479,222,480*

We have presented an unusually large number of solutions, in order that the cube root method herein set forth may be clearly apprehended by all. For, knowing its advantage in brevity and simplicity, and, consequently, its economy of time and space, we are thoroughly convinced that, if once adopted, it will be abandoned for no other. Let it be remembered, that if, in approximating the cube root of a number, it is desirable to extend the answer to a given number of decimal figures, one-half of *all* the root figures must be obtained by extraction in the usual way. The other half may be obtained by contracted division. For instance, in example 9 of the 12th page, 90.9 is obtained by extraction, and 625 is obtained by contracted division. If it be asked how we determine when a number is a perfect cube, and when it is a cubic surd, we answer that, in actual business, in applied mathematics, this fact is always known when the problem occurs in the course of our work. Perfect cubes are in the minority in the course of mathematics. The small number of problems given under the head of evolution by *logarithms*, will be sufficient to illustrate the subject. The student may work any, or all, of the others by logarithms, if he chooses. For this purpose, a table of logarithms is appended, calculated as accurately as possible to five decimal places. The table is extensive enough to enable us to find the roots of *all* numbers correct to five decimals. An explanation of the use of the table is also appended. Should anyone desire further aid in the matter of a knowledge and ready application of logarithms in the extraction of roots, the author will take pleasure in rendering all the assistance in his power. In conclusion, if any have their pet theories, methods, or processes, in cube root, to which they cleave with such a blind adherence that they cannot, or will not, see merit in anything else, this book is not made for them. If any are moved by prejudice, or jealousy, or envy at my good fortune, or by a spirit of criticism, or are unduly inflated with the importance of their own knowledge of the subject, through the belief that nothing new can be presented in evolution, the book is not written for any of these classes.

All true science consists, not in the discovery of any new truth, but in the right application of existing truth, so as to render it subservient, in the highest degree, to the interests and to the pleasure of mankind. If "brevity is the soul of wit," it is no less the key to successful business. The large curtailment of the amount of work done in book-keeping in the last few years, is only in harmony with the spirit of the age, and, reinforces the sentiment of "short profits and quick sales." So must our methods and processes in education be constantly improved and refined, so as to be the most highly contributory to the important interests of business and of society.

SIMPLE INTEREST.

Owing to the universal application and great practicality of this subject, we have thought proper to give it a place in this work, and a treatment that, for brevity, utility, and simplicity, is in keeping with the constant drafts made upon it by all classes of men—those of inferior, as well as those of superior, attainments. The subject is what the name signifies, but is made rather complex by some authors and teachers, owing to the multiplicity of rules and tedious methods of treatment used by them. In simple interest, there is scarcely a necessity for more than one uniform rule, whatever be the rate or the time.

Let us take some examples, by way of illustration:

What is the interest of \$450.87 for 1 yr. 7 m. and 9 da., at 6 per cent.?

Operation.—

$$\frac{450.87}{1} \times \frac{19.3}{12} \times \frac{.005}{1} =$$

$$\begin{array}{r} 450.87 \\ .0965 \\ \hline 225435 \\ 270522 \\ \hline 405783 \end{array}$$

Ans. 43.508,955

9 days is .3 of a month, and the process is simply one of cancellation.

Find the interest of \$125.16 for 1 yr. 11 m. 25 da., at 6 per cent.?

Process.—

$$\frac{125.16}{1} \times \frac{23.83+.06}{12} \times \frac{.06}{1} =$$

$$\begin{array}{r} 1.4298 \\ 10.43 \\ \hline 42894 \\ 57192 \\ \hline 14298 \end{array}$$

Ans. 14.91

One year and 11 months are 23 months, and 25 d. are .83+ of a mo. So that the *time* is

23.83+ mos., or 12ths of years, at the given rate per year. Let the cancellations, and all the multiplications possible, be done mentally.

Find the interest of \$1500.60 for 2 yr. 4 mo., at 6¼ per cent.?

$$\frac{1500.60}{1} \times \frac{28}{12} \times \frac{.06\frac{1}{4}}{1} =$$

$$\begin{array}{r} 125.05 \\ 1.75 \\ \hline 62525 \\ 87535 \\ \hline 12505 \end{array}$$

Ans. \$218.8375

We take 6 times 28, plus the ¼ of 28, mentally, which gives 1.75.

Find the amount of \$3050 for 4 yr. 8 m., at 5¼ per cent.?

$$\frac{3050}{1} \times \frac{14}{36} \times \frac{.0175}{1} =$$

$$\begin{array}{r} 1.2450 \\ 3050 \\ \hline 62250 \\ 3735 \end{array}$$

Ans. \$3797.250

In making multiplications mentally, after the cancellations have been made, let the smallest numbers be so multiplied. Thus 14 times .0175, and then add 1 to the result, to get the amount of \$1 for the time, at the given rate. This result is then multiplied by the principal.

Required the interest of \$250 for 1 yr. 10 m. 15 da., 6 per cent.

$$\begin{array}{r} 125 \quad .01 \\ \hline 250 \quad 22.5 \quad .06 \\ \hline 1 \quad 12 \quad 1 \\ \hline \end{array} \times \frac{\quad}{1} = \begin{array}{r} .225 \\ 125 \\ \hline 1125 \\ 2700 \end{array}$$

Ans. \$28.125

If the amount had been required, we should have proceeded thus:

$$\begin{array}{r} .005 \\ \hline 250 \quad 22.5 \quad .06 \\ \hline 1 \quad 12 \quad 1 \\ \hline \end{array} \times \frac{\quad}{1} = \begin{array}{r} 1.1125 \\ 250 \\ \hline 556250 \\ 22250 \end{array}$$

Ans. \$278.1250

After the mental multiplication of the time and rate, add one to the result, before the final multiplication by the principle.

Find the interest of \$51.10 for 10 m. and 3 da., 4 per cent.

$$\begin{array}{r} .01 \\ \hline 51.10 \quad 10.1 \quad .04 \\ \hline 1 \quad 12 \quad 1 \\ \hline \end{array} \times \frac{\quad}{1} = \begin{array}{r} 51.10 \\ .101 \\ \hline 511 \\ 511 \\ \hline 3 \mid 5.1611 \end{array}$$

Ans. 1.72

It may also be done thus:

$$\begin{array}{r} 17.033+ \\ \hline 51.10 \quad 10.1 \quad .04 \\ \hline 1 \quad 12 \quad 1 \\ \hline \end{array} \times \frac{\quad}{1} = \begin{array}{r} 17.033 \\ .101 \\ \hline 17033 \\ 17033 \end{array}$$

As before \$1.720333

What is the interest of \$175.40 for 15 m. 8 da., 10 per cent.?

$$\begin{array}{r} 1.272+ \\ \hline 175.40 \quad 17.566+ \quad .10 \\ \hline 1 \quad 12 \quad 1 \\ \hline \end{array} \times \frac{\quad}{1} = \begin{array}{r} 175.40 \\ .1272 \\ \hline 3508 \\ 12278 \\ 21048 \end{array}$$

Ans. \$22.31088

The multiplications are made mentally, except one.

Required the amount of \$1500 for 6 m. 24 da., 7½ per cent.

$$\begin{array}{r} 1.7 \quad .025 \\ \hline 1500 \quad 6.3 \quad .075 \\ \hline 1 \quad 12 \quad 1 \\ \hline \end{array} \times \frac{\quad}{1} = \begin{array}{r} 1.0425 = \text{amt. of } \$1. \\ 1500 \\ \hline \$1563.7500 \end{array} \text{ Ans.}$$

Required the amount of \$84.25 for 1 yr. 5 m. 10 da., 6¼ per cent.

$$\begin{array}{r} 1.444+ \\ \hline 84.25 \quad 17.333+ \quad .06\frac{1}{4} \\ \hline 1 \quad 12 \quad 1 \\ \hline \end{array} \times \frac{\quad}{1} = \begin{array}{r} 8664 \\ 361 \\ \hline 1.09025 \\ 84.25 \\ \hline 545125 \\ 218050 \\ 436100 \\ 872200 \end{array}$$

Ans. \$91.85

Required the interest of \$4684.68 for 11 da., 12½ per cent.

$$\begin{array}{r} 390.39 \quad .183+ \\ \hline 4684.68 \quad .566+ \\ \hline 1 \quad \times \quad \frac{12}{12} \quad \times \quad \frac{25}{2} = \\ \hline 78078 \\ 312312 \\ 195195 \\ \hline 156156 \end{array}$$

\$17.8876 = \$17.89. *Ans.*

In making the mental multiplication by 25, allow for the number that would be to carry, had the decimal .183+ been extended one figure further.

Find the interest of \$127.36 for 1 yr. 6 m. 21 da., 4½ per cent.

$$\begin{array}{r} 5.306+ \\ \hline 127.36 \quad 18.7 \quad .09 \\ \hline 1 \quad \times \quad \frac{12}{12} \quad \times \quad \frac{9}{2} = \\ \hline 15918 \\ 42448 \\ 31836 \\ \hline 5306 \end{array}$$

Ans. \$8.93.

\$8.929998

Find the amount of \$723.60 for 2 yr. 3 m. 18 da., 5¼ per cent.

$$\begin{array}{r} 2.3 \\ 723.60 \quad 27.4 \quad .23 \quad .529 \\ \hline 1 \quad \times \quad \frac{12}{12} \quad \times \quad \frac{3}{4} \quad \times \quad \frac{23}{4} = .13225 \\ \hline \text{Add 1} \end{array}$$

1.13225
723.6

679350
339675
226450
792575

\$819.296 *Ans.*

After cancelling and multiplying the expressions of time and rate, we add 1 to the product, to get the amt. of \$1. This saves time and one

operation in the work. Now, if the work is short with these peculiar and mixed rates, it is much more so with all ordinary rates. We will take only two or three illustrations:

Find the interest of \$780.26 for 90 da., without grace, at 1¼ per cent. per month.

Operation.—

$$\begin{array}{r} 195.065 \\ \hline 780.26 \quad 3 \quad .15 \\ \hline 1 \quad \times \quad \frac{12}{12} \quad \times \quad \frac{1}{4} = \\ \hline 975325 \\ 195065 \\ \hline \text{Ans. } \$29.26975 \end{array}$$

What is the interest of \$845 for 1 yr. 10 m. 6 da., at 1 per cent a month?

$$\begin{array}{r} 845 \\ \hline 845 \quad 22.2 \quad .01 \\ \hline 1 \quad \times \quad \frac{12}{12} \quad \times \quad \frac{1}{100} = \\ \hline 1690 \\ 1690 \\ \hline 1690 \end{array}$$

Ans. \$187.590

Multiplying by .01 simply throws the point two places further to the left on the multiplicand.

Find the interest of 1040 for 1 yr. 9 m. 9 da. at 8 per cent.

$$\begin{array}{r} 1040 \\ \hline 1040 \quad 7.1 \quad .02 \\ \hline 1 \quad \times \quad \frac{12}{12} \quad \times \quad \frac{2}{100} = \\ \hline 5680 \\ 142 \\ \hline 142 \end{array}$$

Ans. \$147.680

This method is equally expeditious in reckoning up notes whereon partial payments have been made. Indeed, there is no department of interest

where it may not be used with greater facility, and with much less work, than any other process. We have chosen to call it the Cancellation Method. The advantage lies in its simplicity, brevity, and uniformity of treatment, there being but one process for all problems, whatever the rate, time or other conditions. And surely this, of itself, is a great saving, to both teacher and pupil, of much labor and taxing of memory, under the numerous methods and rules of interest laid down in the books. The plan here presented is strictly mathematical, depending on the principle, that the annual rate on a dollar, multiplied by the number of dollars in the principal, is equal to the interest. The time is reduced to months and decimals of a month; and, then, the expression for months is divided by 12, thus expressing the time in years. Each example given in the foregoing pages, is simply a grouping of the sum at interest, the years, and the rate. Cancellation naturally follows. We might have reduced the time to days, dividing the number of days by 360, thus making it express years. For instance, 2 yr. 4 m. 20 da. is 720 da. + 120 da. + 20 da. = 860 da., or $\frac{860}{360}$ years. But this is considerably longer, requiring more work every way. The briefer the method of reckoning interest, the less liability to mistakes. The one herein set forth, takes the happy mean in all particulars.

EXAMPLES FOR THE STUDENT.

Let it be required to find the interest on the following, viz.:

1. \$300 for 2 yr. 7 m. 24 da., at 6 per cent.
2. \$700 for 1 yr. 9 m. 12 da., at 6 per cent.
3. \$400 for 2 yr. 6 m. 15 da., at 6 per cent.
4. \$350 for 3 yr. 8 m. 24 da., at 6 per cent.
5. \$450.87 for 1 yr. 7 m. 9 da., at 7 per cent.
6. \$375.50 for 2 yr. 1 m. 8 da., at 7 per cent.
7. \$125.16 for 1 yr. 11 m. 25 da., at 7 per cent.
8. \$658.25 for 1 yr. 2 m. 13 da., at 7 per cent.
9. \$187.44 for 1 yr. 10 m. 24 da., at $7\frac{1}{2}$ per cent. } Find the amount.
10. \$444.84 for 1 yr. 1 m. 16 da., at 5 per cent. }

Also, reckon up the following promissory notes, on which indorsements have been made, viz.:

\$167.42.

SELMA, Apr. 15, 1882.

1. For value received, I promise to pay Judge Fowler, or order, one hundred sixty-seven and $\frac{42}{100}$ dollars, in 6 months from date with interest.

TOM SCROGGINS.

INDORSEMENTS:

May 21, 1883, \$42.18; July 17, 1884, \$6.25; Sept. 9, 1884, \$48.16; Jan. 27, 1885, \$27.47. What was due Apr. 15, 1886? Ans. \$72.277.

\$472.76.

SELMA, June 4, 1884.

2. For value received of Arrents & Longacre, I promise to pay them, or their order, four hundred seventy-two and $\frac{76}{100}$ dollars, in 6 months from date, with interest at 7 per cent. afterward.

JNO. GRUBS.

INDORSEMENTS:

Apr. 10, 1885, \$125.843; Nov. 28, 1885, \$133.724; Apr. 15, 1886, \$223.081. What will due Nov. 13, 1886? Ans. \$24.95.

Let these be done strictly by the abbreviated process—it saves half the usual work. These examples must suffice for our book. The student will find abundant material for practice from other sources.

We will present the solution of the last promissory note, to show the plan by the cancellation process.

We first write the dates in succession, thus:

1886, 11, 13 = 6 m. 28 da.

1886, 4, 15 = 4 m. 17 da.

1885, 11, 28 = 7 m. 18 da.

1885, 4, 10 = 4 m. 6 da.

1884, 12, 4 =

N. B.—The four cancellations and multiplications^a following, present the entire work, and not simply the indicated work:

| | | |
|---|--|--|
| | $\begin{array}{r} 472.76 \\ 1.0245 \\ \hline 236380 \\ 189104 \\ 94552 \\ \hline 47276 \end{array}$ | $\begin{array}{r} 358.50 \\ 1.0443 \\ \hline 10755 \\ 14340 \\ 14340 \\ \hline 3585 \end{array}$ |
| $\begin{array}{r} 472.76 \\ \times \quad .35 \\ \times \quad .07 \\ \hline I \quad -12 \quad I \end{array}$ | $\begin{array}{r} 358.50 \\ \times \quad .63+ \\ \times \quad .07 \\ \hline I \quad -12 \quad I \end{array}$ | $\begin{array}{r} 374.381 \\ 133.724 \\ \hline 240.657 \end{array}$ |
| $\begin{array}{r} \$484.342 \\ \text{Payment} - 125.843 \\ \hline \$358.499 \end{array}$ | | $\begin{array}{r} \$374.381 \\ \text{Payment} - 133.724 \\ \hline \$240.657 \end{array}$ |

| | | |
|---|---|--|
| $\begin{array}{r} 240.657 \quad \begin{array}{l} .3805 \\ -4.566+ \\ \hline \end{array} \quad .07 \\ \times \quad \times \\ \hline \text{I} \quad -12 \quad \text{I} \end{array}$ | $\begin{array}{r} 1.026635 \\ 240.657 \\ \hline 7186445 \\ 5133175 \\ 6159810 \\ \hline 4106540 \\ 2053270 \\ \hline \$247.06689 \\ \text{Payment} - 223.081 \\ \hline \$23.99 \end{array}$ | $\begin{array}{r} 23.99 \\ 1.0399 \\ \hline 21591 \\ 21591 \\ 7197 \\ \hline 2399 \\ \$24.947 = \$24.95. \\ \text{Ans.} \end{array}$ |
|---|---|--|

$.57 \times .07 + 1 = 1.0399 = \text{amt. of } \$1.$

In partial payments, most authors, in illustrating their methods, give simply a brief of *results*, as if they would make the work *appear* short. After cancellation and multiplication of the expressions for time and rate, let 1 be added to the result, for the amt. of \$1, before the mechanical multiplication is made. See above. Observe the manner of writing the dates, all at once, and all in one group, from the latest to the earliest, and then the consecutive subtraction of them, thus giving the several periods of time at once, before the cancellation processes are commenced. This is a great saving of time, and promotes simplicity. And here it may be stated that, with respect to the subject of interest, the author does not so much claim to have discovered *new* truth, as he does a new and *right application* of it. Much of scientific truth is as good as lost, through the circuitous, obscure processes under which it is presented.

Required the interest on the following, viz.:

1. \$1284.60 for 5 m. 12 da., at $\frac{3}{4}$ per cent. a month.
2. \$621.09 for 7 m. 16 da., at $\frac{3}{4}$ per cent. a month.
3. \$818.26 for 9 m. 3 da., at $\frac{5}{8}$ per cent. a month.
4. \$220.38 for 2 m. 21 da., at $10\frac{1}{2}$ per cent. per annum.
5. \$62.96 for 1 yr. 8 m. 23 da., at 11 per cent per annum.

$$\begin{array}{r} 62.96 \quad \begin{array}{l} 1.73 \\ -20.76+ \\ \hline \end{array} \quad .11 \\ \times \quad \times \\ \hline \text{I} \quad -12 \quad \text{I} \end{array}$$

$$\begin{array}{r} 62.96 \\ .1903 \\ \hline 18888 \\ 56664 \\ 6296 \\ \hline \end{array}$$

\$11.9812 \$11.98. *Ans. to last.*

\$614.42.

SELMA, CAL., May 1, 1886.

For value received, I promise to pay Dr. Wagner, or order, six hundred, fourteen and $\frac{4}{100}$ dollars, on demand, with interest at $6\frac{3}{4}$ per cent.

JOHN DAVIS.

INDORSEMENTS:

May 15, 1886, \$169.30; June 10, 1886, \$88.40; Sept. 18, 1886, \$325.80. How much will be due on this note Nov. 20, 1886?

| | |
|---------------------------|-----------|
| 1886, 11, 20 = 2 m. 2 da. | PAYMENTS. |
| 1886, 9, 18 = 3 m. 8 da. | |
| 1886, 6, 10 = 0 m. 25 da. | \$325.80. |
| 1886, 5, 15 = 0 m. 14 da. | 88.40. |
| 1886, 5, 1 | 169.30. |

Write the dates in a group, as above; begin with the date of giving the note, and subtract each from the next succeeding, as 5 m. 1 da. from 5 m. 15 da., always making the subtractions mentally, and writing the payments opposite the intervening times. Find the amount of the original principal for the first term of time, and of each succeeding principal for its term of time, subtracting each payment, in order, from the corresponding amount, till you come to the maturity of the note. Then find the amount of the last principal for the corresponding term of time, and it will be the balance.

Solution of the last example:

| | | |
|--|--|--|
| $\begin{array}{r} 614.42 \quad \begin{array}{l} .0291 \\ -1.165- \\ \hline \end{array} \quad .09 \\ \times \quad \times \\ \hline \text{I} \quad -12 \quad -4 \end{array}$ | $\begin{array}{r} 614.42 \\ 1.00262 \text{ amt. of } \$1. \\ \hline 122884 \\ 368652 \\ 122884 \\ \hline 61442 \\ \hline \$616.03 \\ 169.30 \\ \hline \$446.73 \text{ 2d prin.} \end{array}$ | |
|--|--|--|

$$\begin{array}{r}
 1.00468 \text{ amt. of } \$1. \\
 \hline
 44673 \\
 \hline
 357384 \\
 268038 \\
 \hline
 178692 \\
 \hline
 44673 \\
 \hline
 \$448.82 \\
 88.40 \\
 \hline
 \end{array}$$

\$360.42 3d prin.

$$\begin{array}{r}
 1.01836 \text{ amt. of } \$1. \\
 \hline
 360.42 \\
 \hline
 203672 \\
 407344 \\
 \hline
 611016 \\
 \hline
 305508 \\
 \hline
 \$367.037 \\
 325.80 \\
 \hline
 \end{array}$$

After multiplying .204 by .09, prefix 1 to the result. \$41.24 4th prin.

$$\begin{array}{r}
 1.01162 \text{ amt. of } \$1. \\
 \hline
 41.24 \\
 \hline
 404648 \\
 202324 \\
 \hline
 101162 \\
 \hline
 404648 \\
 \hline
 \end{array}$$

\$41.719. Ans. \$41.72 Bal.

The above is the entire work. It is comparatively short, and is quickly done. Let the student use the stereotyped methods in use, and he will at once see a vast difference in favor of this curt cancellation process, uniform for *all* rates, times, and conditions, and equally easy for all questions in interest. For these and other reasons, this method, once adopted, will be used in preference to any other.

In reckoning up the balance due on promissory notes whereon partial payments have been made, let the cancellations be so managed that the uncanceled factors may, as far as possible, be multiplied together *mentally*; or, at least, may be reduced to one formal multiplication. The advantage of the cancellation process may be seen in the following problem:

Find the amount of \$235.18 for 2 yr. 8 m. and 12 da., at $5\frac{1}{2}$ per cent.

$$\begin{array}{r}
 \$235.18 \\
 \hline
 1.144 \\
 \hline
 94072 \\
 94072 \\
 \hline
 258698 \\
 \hline
 \end{array}$$

\$269.04592 = \$269.046. Ans.

Observe that, after multiplying together the expressions of time and rate, .9 and .16, we add 1 to the result, which makes the amt. of \$1. This multiplied into the principal gives the amt. of the debt. Hence, in the cancellations, it is not proper to cut down the principal, when the amount is to be found. If only the interest is required, factors may be stricken from any of the three parts.

Those who have not tried this method cannot realize how easily these factors (principal, time in years, and rate) can be thrown together, and cut down to the answer, with a very small amount of figuring, whatever be the nature of the parts. The years and months are reduced to months, simply by inspection, without a mental effort; the days are reduced to the decimal of a month, by dividing them by 3; and under this mixed expression we place 12, thus expressing the whole time in years.

We have little patience with sticklers for analysis in *everything*. It is very essential in some departments of arithmetical science, but is utterly useless in many of its most practical subjects. As an incidental feature, and as conducing to thoroughness in the fundamental principles of a mathematical education, analysis, in a few subjects in arithmetic, should be thoroughly taught to the young, but beyond this it is useless. In interest it is of no value. The banker, the lawyer, the real estate man, and all other practical people, have no use for analysis in any of the several departments of interest, but must have the most direct, curt processes for all problems arising under this broad department in the science

of numbers. Teachers should not lose sight of the fact that, in our practical civilization, we are, in many things, reducing more and more to practicality. Hence, as business increases and ramifies into various new departments, thus multiplying our cares and duties, we must seek to do our work with the utmost despatch consistent with accuracy. The cancellation process in interest meets the demands of business, on the subject to which it belongs. It supersedes the necessity and the utility of any 6 per cent. method, or 12 per cent. method, or 1 per cent. method, or 10 per cent method, or any other specific method. It secures uniformity, simplicity, brevity, accuracy,

FINIS.

LOGARITHMS.

A *Logarithm* is simply an exponent of a power. The logarithm of a *number* is the exponent of the power to which the *base* of the number must be raised, to produce the number. Thus, in the following equations:

$$\begin{array}{l} 5^0 = 1 \quad \text{and} \quad 10^0 = 1 \\ 5^1 = 5 \quad \quad 10^1 = 10 \\ 5^2 = 25 \quad \quad 10^2 = 100 \\ 5^3 = 125 \quad \quad 10^3 = 1000, \end{array}$$

0, 1, 2, 3 are the logarithms of the respective numbers to which they stand opposite in the several equations. 5 is the *base* in the one set, and ten in the other. In any one of the above quotations, the value of the second member depends on the numerical value of the *base* and the *exponent* attached. In a *system* of logarithms, any number above 1 may be taken as a *base*, and, by suitably varying the exponent, the base being unaltered, all possible numbers may be represented. For example, $10^{3.82000}$ represents the number 6607, and 3.82000 is the log. of this number. $10^{3.74225}$ represents the number 5524, and 3.74225 is the log. of this number. It means that 10 must be raised to the power denoted by 3.74225 to produce 5524. In all practical mathematics, 10 is the *base*. The system is called the Common, or Brigg's system, and, in it, *all numbers, integral or fractional*, are regarded as some power of 10. 10^0 is *no* power of 10, and is equal to 10 divided by 10, or to 1. That is, the log. of 1 is 0. All numbers between 1 and 10 have, for their logarithm, a decimal fraction; all numbers between 10 and 100 have, for their logarithm, 1 + a decimal; and all numbers between 100 and 1000 have, for their logarithm, 2 + a decimal; and so on. See, page 1 of the table of logarithms, in column headed *N*, that numbers between 1 and 10, 10 and 100, and 100 and 1000, respectively, fulfill the above conditions. The log. of 7, for example, is .84510, and that of 25 is 1.39794, and these logs. are simply exponents. $10^{0.84510} = 7$, and $10^{1.39794} = 25$, signifying that 10 must be raised to these powers, respectively, to produce 7 and 25.

To find the logarithms of numbers over 100, and under 1000.—Look opposite the number, in column headed *O*, and find the logarithm. The log. of 398, page 7 of the table, is 2.59988.

To find the logarithms of numbers of four figures.—Look under caption *N* for the first three figures of the number, and at the top of the page for the fourth figure; and *opposite the one* part of the number and *under the other*, find the logarithm. Thus, the log. of 6982 is 3.84398. The decimal part of any logarithm is called the *mantissa*, and the integral part, the *characteristic*. In the log. of 1840, which is 3.26482, 3 is the *characteristic*, and .26482 is the *mantissa*. The characteristic of all numbers between 1 and 10 is 0.

To find the logarithms of numbers of more than four figures.—Find, for example, the logarithm of 248963. On page 4 we find, as previously directed, the *mantissa* corresponding to the first four figures, 2489, to be .39602; and, to this partial mantissa, there must be an addition for the remaining part of the number, 63. And since this addition affects only the decimal part, or mantissa, and not the characteristic, 63, the remaining part of the number must be regarded as a decimal. This decimal, .63, we multiply by the tabular difference, opposite the mantissa, in column *D*, which is 17+, or 17.5, and get $.63 \times 17.5 = 11.025$, giving 11 to be added to the final figures of the partial mantissa, .39602, already taken out, making .39613; and the characteristic is 5, being always one less than the number of figures in the integral part of the number whose logarithm is sought. Thus, the log. 248963 = 5.39613.

Required the logarithm of 142967542. The mantissa of the first four figures, 1429, page 2 of the table, is .15503, and the tabular difference is 30+, or 30.5. This multiplied into .67542, the remainder of the number treated as a decimal, gives 20.6, or 21, to be added to the terminal figures of the partial mantissa already taken out, making .15524, and the characteristic is 8. Thus, the log. 142967542 = 8.15524. In making additions to the mantissa, more than 5 decimal units should be reckoned 1; less than 5 should be disregarded.

For the *same figures*, in the *same order*, the mantissa is the same, whatever the *local value* or the figures. Thus, the mantissa of the logs. of these numbers, viz.: 8328, 832.8, 83.28, 8.328, .8328, .08328, .008328, etc., is .92054, the same for each of the numbers. The characteristic of the first is 3; of the second, 2; of the third, 1; of the fourth, 0; of the fifth, -1; of the sixth, -2; of the seventh, -3. The

characteristic of a decimal is always negative, and numerically one more than the number of noughts prefixed to the decimal. The negative *sign* is usually written over the characteristic, thus $\bar{2}.69897$, in the log. of .05.

Find the logarithm of .6423. On page 12 we find the mantissa to be .80774, and the characteristic is $\bar{1}$, making $\bar{1}.80774$, for the log. of .6423.

To find the number corresponding to a given logarithm.—What is the number whose log. is $\bar{1}.68124$? Looking on page 1, we find this log. opposite 48. Hence, 48 is the number whose log. is $\bar{1}.68124$.

Find the number having for its logarithm $2.3630\bar{5}$. Looking on page 4, we find opposite 230 and under 7, the number 230.7, the answer required.

Find the number having for its logarithm $\bar{2}.64367$. Looking for the nearest mantissa to the given one, we find it, page 8, opposite 440 and under 2, to be .64365. This mantissa we subtract from the given one, and divide the difference, 2, by the tabular difference, 10, and get .2. Appending this to the 4402, already taken out, we get 44022. And now, as the characteristic is $\bar{2}$, we prefix one 0 to the last result, and get .044022 for the required number.

What is the number having for its logarithm .29824? The nearest mantissa is .29820, page 3, opposite 198 and under 7; $.29824 - .29820 = 4$; $4 \div 22$, the tab. diff., gives 1.8, or 2 nearly. Appending 2 to 1987, we have 19872—. And, since there is no characteristic, the integral part is 1. Hence, $.29824 = \log. 1.19872$.

Find the cube root of .4986. The log. of .4986 (p. 9) is $\bar{1}.69775$. This we divide by 3, the index of the required root. But since the characteristic is negative, while the mantissa is always positive, we cannot directly divide the logarithm by the index 3. But $\bar{1}.69775 = \bar{3} + 2.69775$, in which the characteristic is exactly divisible by the index 3. Dividing, we get $\bar{1}.89925$. We now find the number corresponding to this logarithm. The nearest mantissa is .89922. Subtracting it from the given .89925, we get 3, which, divided by the corresponding tabular difference, 54, gives 5. The number corresponding to the mantissa .89925 is 79295. To this prefix ~~one~~ 0, to correspond to the negative characteristic, and the cube root of .4986 is .79295. *0.79295*

When the characteristic is negative, and not divisible by the index of any root, add to it the smallest negative number that will render it divisible, and then prefix the same number, with a plus sign, to the mantissa.

What is the 5th root of 512.8? The log. of 512.8 = 2.70995; $2.70995 \div 5 = .54199$; the nearest mantissa, opposite 348 and 3, is .54195; $.54199 - .54195 = 4$; and $4 \div 12$, the tab. diff., gives 3 to be appended to 3.483, making 3.4833, for the 5th root of 512.8.

2
always divisible

TABLE.

THE COMMON OR BRIGGS LOGARITHMS

—OF THE—

NATURAL NUMBERS

FROM 1 TO 10000.

1—100.

| N | log | N | log | N | log | N | log | N | log |
|----|-----------|----|-----------|----|-----------|----|-----------|-----|-----------|
| 1 | 0. 00 000 | 21 | 1. 32 222 | 41 | 1. 61 278 | 61 | 1. 78 533 | 81 | 1. 90 849 |
| 2 | 0. 30 103 | 22 | 1. 34 242 | 42 | 1. 62 322 | 62 | 1. 79 239 | 82 | 1. 91 381 |
| 3 | 0. 47 712 | 23 | 1. 36 173 | 43 | 1. 63 347 | 63 | 1. 79 934 | 83 | 1. 91 908 |
| 4 | 0. 60 206 | 24 | 1. 38 021 | 44 | 1. 64 345 | 64 | 1. 80 618 | 84 | 1. 92 428 |
| 5 | 0. 69 897 | 25 | 1. 39 794 | 45 | 1. 65 321 | 65 | 1. 81 291 | 85 | 1. 92 942 |
| 6 | 0. 77 815 | 26 | 1. 41 497 | 46 | 1. 66 276 | 66 | 1. 81 954 | 86 | 1. 93 450 |
| 7 | 0. 84 510 | 27 | 1. 43 136 | 47 | 1. 67 210 | 67 | 1. 82 607 | 87 | 1. 93 952 |
| 8 | 0. 90 309 | 28 | 1. 44 716 | 48 | 1. 68 124 | 68 | 1. 83 251 | 88 | 1. 94 448 |
| 9 | 0. 95 424 | 29 | 1. 46 240 | 49 | 1. 69 020 | 69 | 1. 83 885 | 89 | 1. 94 939 |
| 10 | 1. 00 000 | 30 | 1. 47 712 | 50 | 1. 69 897 | 70 | 1. 84 510 | 90 | 1. 95 424 |
| 11 | 1. 04 139 | 31 | 1. 49 136 | 51 | 1. 70 757 | 71 | 1. 85 126 | 91 | 1. 95 904 |
| 12 | 1. 07 918 | 32 | 1. 50 515 | 52 | 1. 71 600 | 72 | 1. 85 733 | 92 | 1. 96 379 |
| 13 | 1. 11 394 | 33 | 1. 51 851 | 53 | 1. 72 428 | 73 | 1. 86 332 | 93 | 1. 96 848 |
| 14 | 1. 14 613 | 34 | 1. 53 148 | 54 | 1. 73 239 | 74 | 1. 86 923 | 94 | 1. 97 313 |
| 15 | 1. 17 609 | 35 | 1. 54 407 | 55 | 1. 74 036 | 75 | 1. 87 506 | 95 | 1. 97 772 |
| 16 | 1. 20 412 | 36 | 1. 55 630 | 56 | 1. 74 819 | 76 | 1. 88 081 | 96 | 1. 98 227 |
| 17 | 1. 23 045 | 37 | 1. 56 820 | 57 | 1. 75 587 | 77 | 1. 88 649 | 97 | 1. 98 677 |
| 18 | 1. 25 527 | 38 | 1. 57 978 | 58 | 1. 76 343 | 78 | 1. 89 209 | 98 | 1. 99 123 |
| 19 | 1. 27 875 | 39 | 1. 59 106 | 59 | 1. 77 085 | 79 | 1. 89 763 | 99 | 1. 99 564 |
| 20 | 1. 30 103 | 40 | 1. 60 206 | 60 | 1. 77 815 | 80 | 1. 90 309 | 100 | 2. 00 000 |
| N | log | N | log | N | log | N | log | N | log |

| N | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | D |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|
| 100 | 00 000 | 00 043 | 00 087 | 00 130 | 00 173 | 00 217 | 00 260 | 00 303 | 00 346 | 00 389 | 43 |
| 101 | 00 432 | 00 475 | 00 518 | 00 561 | 00 604 | 00 647 | 00 689 | 00 732 | 00 775 | 00 817 | 43 |
| 102 | 00 860 | 00 903 | 00 945 | 00 988 | 01 030 | 01 072 | 01 115 | 01 157 | 01 199 | 01 242 | 42 |
| 103 | 01 284 | 01 326 | 01 368 | 01 410 | 01 452 | 01 494 | 01 536 | 01 578 | 01 620 | 01 662 | 42 |
| 104 | 01 703 | 01 745 | 01 787 | 01 828 | 01 870 | 01 912 | 01 953 | 01 995 | 02 036 | 02 078 | 42 |
| 105 | 02 119 | 02 160 | 02 202 | 02 243 | 02 284 | 02 325 | 02 366 | 02 407 | 02 449 | 02 490 | 41 |
| 106 | 02 531 | 02 572 | 02 612 | 02 653 | 02 694 | 02 735 | 02 776 | 02 816 | 02 857 | 02 898 | 41 |
| 107 | 02 938 | 02 979 | 03 019 | 03 060 | 03 100 | 03 141 | 03 181 | 03 222 | 03 262 | 03 302 | 40 |
| 108 | 03 342 | 03 383 | 03 423 | 03 463 | 03 503 | 03 543 | 03 583 | 03 623 | 03 663 | 03 703 | 40 |
| 109 | 03 743 | 03 782 | 03 822 | 03 862 | 03 902 | 03 941 | 03 981 | 04 021 | 04 060 | 04 100 | 40 |
| 110 | 04 139 | 04 179 | 04 218 | 04 258 | 04 297 | 04 336 | 04 376 | 04 415 | 04 454 | 04 493 | 39 |
| 111 | 04 532 | 04 571 | 04 610 | 04 650 | 04 689 | 04 727 | 04 766 | 04 805 | 04 844 | 04 883 | 39 |
| 112 | 04 922 | 04 961 | 04 999 | 05 038 | 05 077 | 05 115 | 05 154 | 05 192 | 05 231 | 05 269 | 39 |
| 113 | 05 308 | 05 346 | 05 385 | 05 423 | 05 461 | 05 500 | 05 538 | 05 576 | 05 614 | 05 652 | 38 |
| 114 | 05 690 | 05 729 | 05 767 | 05 805 | 05 843 | 05 881 | 05 918 | 05 956 | 05 994 | 06 032 | 38 |
| 115 | 06 070 | 06 108 | 06 145 | 06 183 | 06 221 | 06 258 | 06 296 | 06 333 | 06 371 | 06 408 | 38 |
| 116 | 06 446 | 06 483 | 06 521 | 06 558 | 06 595 | 06 633 | 06 670 | 06 707 | 06 744 | 06 781 | 37 |
| 117 | 06 819 | 06 856 | 06 893 | 06 930 | 06 967 | 07 004 | 07 041 | 07 078 | 07 115 | 07 151 | 37 |
| 118 | 07 188 | 07 225 | 07 262 | 07 298 | 07 335 | 07 372 | 07 408 | 07 445 | 07 482 | 07 518 | 37 |
| 119 | 07 555 | 07 591 | 07 628 | 07 664 | 07 700 | 07 737 | 07 773 | 07 809 | 07 846 | 07 882 | 36 |
| 120 | 07 918 | 07 954 | 07 990 | 08 027 | 08 063 | 08 099 | 08 135 | 08 171 | 08 207 | 08 243 | 36 |
| 121 | 08 279 | 08 314 | 08 350 | 08 386 | 08 422 | 08 458 | 08 493 | 08 529 | 08 565 | 08 600 | 36 |
| 122 | 08 636 | 08 672 | 08 707 | 08 743 | 08 778 | 08 814 | 08 849 | 08 884 | 08 920 | 08 955 | 35+ |
| 123 | 08 991 | 09 026 | 09 061 | 09 096 | 09 132 | 09 167 | 09 202 | 09 237 | 09 272 | 09 307 | 35 |
| 124 | 09 342 | 09 377 | 09 412 | 09 447 | 09 482 | 09 517 | 09 552 | 09 587 | 09 621 | 09 656 | 35 |
| 125 | 09 691 | 09 726 | 09 760 | 09 795 | 09 830 | 09 864 | 09 899 | 09 934 | 09 968 | 10 003 | 35 |
| 126 | 10 037 | 10 072 | 10 106 | 10 140 | 10 175 | 10 209 | 10 243 | 10 278 | 10 312 | 10 346 | 34 |
| 127 | 10 380 | 10 415 | 10 449 | 10 483 | 10 517 | 10 551 | 10 585 | 10 619 | 10 653 | 10 687 | 34 |
| 128 | 10 721 | 10 755 | 10 789 | 10 823 | 10 857 | 10 890 | 10 924 | 10 958 | 10 992 | 11 025 | 34 |
| 129 | 11 059 | 11 093 | 11 126 | 11 160 | 11 193 | 11 227 | 11 261 | 11 294 | 11 327 | 11 361 | 33+ |
| 130 | 11 394 | 11 428 | 11 461 | 11 494 | 11 528 | 11 561 | 11 594 | 11 628 | 11 661 | 11 694 | 33 |
| 131 | 11 727 | 11 760 | 11 793 | 11 826 | 11 860 | 11 893 | 11 926 | 11 959 | 11 992 | 12 024 | 33 |
| 132 | 12 057 | 12 090 | 12 123 | 12 156 | 12 189 | 12 222 | 12 254 | 12 287 | 12 320 | 12 352 | 33 |
| 133 | 12 385 | 12 418 | 12 450 | 12 483 | 12 516 | 12 548 | 12 581 | 12 613 | 12 646 | 12 678 | 32+ |
| 134 | 12 710 | 12 743 | 12 775 | 12 808 | 12 840 | 12 872 | 12 905 | 12 937 | 12 969 | 13 001 | 32 |
| 135 | 13 033 | 13 066 | 13 098 | 13 130 | 13 162 | 13 194 | 13 226 | 13 258 | 13 290 | 13 322 | 32 |
| 136 | 13 354 | 13 386 | 13 418 | 13 450 | 13 481 | 13 513 | 13 545 | 13 577 | 13 609 | 13 640 | 32 |
| 137 | 13 672 | 13 704 | 13 735 | 13 767 | 13 799 | 13 830 | 13 862 | 13 893 | 13 925 | 13 956 | 31+ |
| 138 | 13 988 | 14 019 | 14 051 | 14 082 | 14 114 | 14 145 | 14 176 | 14 208 | 14 239 | 14 270 | 31 |
| 139 | 14 301 | 14 333 | 14 364 | 14 395 | 14 426 | 14 457 | 14 489 | 14 520 | 14 551 | 14 582 | 31 |
| 140 | 14 613 | 14 644 | 14 675 | 14 706 | 14 737 | 14 768 | 14 799 | 14 829 | 14 860 | 14 891 | 31 |
| 141 | 14 922 | 14 953 | 14 983 | 15 014 | 15 045 | 15 076 | 15 106 | 15 137 | 15 168 | 15 198 | 31 |
| 142 | 15 229 | 15 259 | 15 290 | 15 320 | 15 351 | 15 381 | 15 412 | 15 442 | 15 473 | 15 503 | 30+ |
| 143 | 15 534 | 15 564 | 15 594 | 15 625 | 15 655 | 15 685 | 15 715 | 15 746 | 15 776 | 15 806 | 30 |
| 144 | 15 836 | 15 866 | 15 897 | 15 927 | 15 957 | 15 987 | 16 017 | 16 047 | 16 077 | 16 107 | 30 |
| 145 | 16 137 | 16 167 | 16 197 | 16 227 | 16 256 | 16 286 | 16 316 | 16 346 | 16 376 | 16 406 | 30 |
| 146 | 16 435 | 16 465 | 16 495 | 16 524 | 16 554 | 16 584 | 16 613 | 16 643 | 16 673 | 16 702 | 30 |
| 147 | 16 732 | 16 761 | 16 791 | 16 820 | 16 850 | 16 879 | 16 909 | 16 938 | 16 967 | 16 997 | 29+ |
| 148 | 17 026 | 17 056 | 17 085 | 17 114 | 17 143 | 17 173 | 17 202 | 17 231 | 17 260 | 17 289 | 29 |
| 149 | 17 319 | 17 348 | 17 377 | 17 406 | 17 435 | 17 464 | 17 493 | 17 522 | 17 551 | 17 580 | 29 |
| 150 | 17 609 | 17 638 | 17 667 | 17 696 | 17 725 | 17 754 | 17 782 | 17 811 | 17 840 | 17 869 | 29 |

| N | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | D |
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| N | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | D |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|
| 150 | 17 609 | 17 638 | 17 667 | 17 696 | 17 725 | 17 754 | 17 782 | 17 811 | 17 840 | 17 869 | 29 |
| 151 | 17 898 | 17 926 | 17 955 | 17 984 | 18 013 | 18 041 | 18 070 | 18 099 | 18 127 | 18 156 | 29 |
| 152 | 18 184 | 18 213 | 18 241 | 18 270 | 18 298 | 18 327 | 18 355 | 18 384 | 18 412 | 18 441 | 28+ |
| 153 | 18 469 | 18 498 | 18 526 | 18 554 | 18 583 | 18 611 | 18 639 | 18 667 | 18 696 | 18 724 | 28 |
| 154 | 18 752 | 18 780 | 18 808 | 18 837 | 18 865 | 18 893 | 18 921 | 18 949 | 18 977 | 19 005 | 28 |
| 155 | 19 033 | 19 061 | 19 089 | 19 117 | 19 145 | 19 173 | 19 201 | 19 229 | 19 257 | 19 285 | 28 |
| 156 | 19 312 | 19 340 | 19 368 | 19 396 | 19 424 | 19 451 | 19 479 | 19 507 | 19 535 | 19 562 | 27 |
| 157 | 19 590 | 19 618 | 19 645 | 19 673 | 19 700 | 19 728 | 19 756 | 19 783 | 19 811 | 19 838 | 28 |
| 158 | 19 866 | 19 893 | 19 921 | 19 948 | 19 976 | 20 003 | 20 030 | 20 058 | 20 085 | 20 112 | 27 |
| 159 | 20 140 | 20 167 | 20 194 | 20 222 | 20 249 | 20 276 | 20 303 | 20 330 | 20 358 | 20 385 | 27 |
| 160 | 20 412 | 20 439 | 20 466 | 20 493 | 20 520 | 20 548 | 20 575 | 20 602 | 20 629 | 20 656 | 27 |
| 161 | 20 683 | 20 710 | 20 737 | 20 763 | 20 790 | 20 817 | 20 844 | 20 871 | 20 898 | 20 925 | 27 |
| 162 | 20 952 | 20 978 | 21 005 | 21 032 | 21 059 | 21 085 | 21 112 | 21 139 | 21 165 | 21 192 | 27 |
| 163 | 21 219 | 21 245 | 21 272 | 21 299 | 21 325 | 21 352 | 21 378 | 21 405 | 21 431 | 21 458 | 27 |
| 164 | 21 484 | 21 511 | 21 537 | 21 564 | 21 590 | 21 617 | 21 643 | 21 669 | 21 696 | 21 722 | 26 |
| 165 | 21 748 | 21 775 | 21 801 | 21 827 | 21 854 | 21 880 | 21 906 | 21 932 | 21 958 | 21 985 | 26 |
| 166 | 22 011 | 22 037 | 22 063 | 22 089 | 22 115 | 22 141 | 22 167 | 22 194 | 22 220 | 22 246 | 26 |
| 167 | 22 272 | 22 298 | 22 324 | 22 350 | 22 376 | 22 401 | 22 427 | 22 453 | 22 479 | 22 505 | 26 |
| 168 | 22 531 | 22 557 | 22 583 | 22 608 | 22 634 | 22 660 | 22 686 | 22 712 | 22 737 | 22 763 | 26 |
| 169 | 22 789 | 22 814 | 22 840 | 22 866 | 22 891 | 22 917 | 22 943 | 22 968 | 22 994 | 23 019 | 26 |
| 170 | 23 045 | 23 070 | 23 096 | 23 121 | 23 147 | 23 172 | 23 198 | 23 223 | 23 249 | 23 274 | 25 |
| 171 | 23 300 | 23 325 | 23 350 | 23 376 | 23 401 | 23 426 | 23 452 | 23 477 | 23 502 | 23 528 | 25 |
| 172 | 23 553 | 23 578 | 23 603 | 23 629 | 23 654 | 23 679 | 23 704 | 23 729 | 23 754 | 23 779 | 25 |
| 173 | 23 805 | 23 830 | 23 855 | 23 880 | 23 905 | 23 930 | 23 955 | 23 980 | 24 005 | 24 030 | 25 |
| 174 | 24 055 | 24 080 | 24 105 | 24 130 | 24 155 | 24 180 | 24 204 | 24 229 | 24 254 | 24 279 | 25 |
| 175 | 24 304 | 24 329 | 24 353 | 24 378 | 24 403 | 24 428 | 24 452 | 24 477 | 24 502 | 24 527 | 25 |
| 176 | 24 551 | 24 576 | 24 601 | 24 625 | 24 650 | 24 674 | 24 699 | 24 724 | 24 748 | 24 773 | 25 |
| 177 | 24 797 | 24 822 | 24 846 | 24 871 | 24 895 | 24 920 | 24 944 | 24 969 | 24 993 | 25 018 | 24+ |
| 178 | 25 042 | 25 066 | 25 091 | 25 115 | 25 139 | 25 164 | 25 188 | 25 212 | 25 237 | 25 261 | 24 |
| 179 | 25 285 | 25 310 | 25 334 | 25 358 | 25 382 | 25 406 | 25 431 | 25 455 | 25 479 | 25 503 | 24 |
| 180 | 25 527 | 25 551 | 25 575 | 25 600 | 25 624 | 25 648 | 25 672 | 25 696 | 25 720 | 25 744 | 24 |
| 181 | 25 768 | 25 792 | 25 816 | 25 840 | 25 864 | 25 888 | 25 912 | 25 935 | 25 959 | 25 983 | 24 |
| 182 | 26 007 | 26 031 | 26 055 | 26 079 | 26 102 | 26 126 | 26 150 | 26 174 | 26 198 | 26 221 | 24 |
| 183 | 26 245 | 26 269 | 26 293 | 26 316 | 26 340 | 26 364 | 26 387 | 26 411 | 26 435 | 26 458 | 24 |
| 184 | 26 482 | 26 505 | 26 529 | 26 553 | 26 576 | 26 600 | 26 623 | 26 647 | 26 670 | 26 694 | 23+ |
| 185 | 26 717 | 26 741 | 26 764 | 26 788 | 26 811 | 26 834 | 26 858 | 26 881 | 26 905 | 26 928 | 23 |
| 186 | 26 951 | 26 975 | 26 998 | 27 021 | 27 045 | 27 068 | 27 091 | 27 114 | 27 138 | 27 161 | 23 |
| 187 | 27 184 | 27 207 | 27 231 | 27 254 | 27 277 | 27 300 | 27 323 | 27 346 | 27 370 | 27 393 | 23 |
| 188 | 27 416 | 27 439 | 27 462 | 27 485 | 27 508 | 27 531 | 27 554 | 27 577 | 27 600 | 27 623 | 23 |
| 189 | 27 646 | 27 669 | 27 692 | 27 715 | 27 738 | 27 761 | 27 784 | 27 807 | 27 830 | 27 852 | 23 |
| 190 | 27 875 | 27 898 | 27 921 | 27 944 | 27 967 | 27 989 | 28 012 | 28 035 | 28 058 | 28 081 | 23 |
| 191 | 28 103 | 28 126 | 28 149 | 28 171 | 28 194 | 28 217 | 28 240 | 28 262 | 28 285 | 28 307 | 23 |
| 192 | 28 330 | 28 353 | 28 375 | 28 398 | 28 421 | 28 443 | 28 466 | 28 488 | 28 511 | 28 533 | 23 |
| 193 | 28 556 | 28 578 | 28 601 | 28 623 | 28 646 | 28 668 | 28 691 | 28 713 | 28 735 | 28 758 | 22+ |
| 194 | 28 780 | 28 803 | 28 825 | 28 847 | 28 870 | 28 892 | 28 914 | 28 937 | 28 959 | 28 981 | 22 |
| 195 | 29 003 | 29 026 | 29 048 | 29 070 | 29 092 | 29 115 | 29 137 | 29 159 | 29 181 | 29 203 | 22 |
| 196 | 29 226 | 29 248 | 29 270 | 29 292 | 29 314 | 29 336 | 29 358 | 29 380 | 29 403 | 29 425 | 22 |
| 197 | 29 447 | 29 469 | 29 491 | 29 513 | 29 535 | 29 557 | 29 579 | 29 601 | 29 623 | 29 645 | 22 |
| 198 | 29 667 | 29 688 | 29 710 | 29 732 | 29 754 | 29 776 | 29 798 | 29 820 | 29 842 | 29 863 | 22 |
| 199 | 29 885 | 29 907 | 29 929 | 29 951 | 29 973 | 29 994 | 30 016 | 30 038 | 30 060 | 30 081 | 22 |
| 200 | 30 103 | 30 125 | 30 146 | 30 168 | 30 190 | 30 211 | 30 233 | 30 255 | 30 276 | 30 298 | 22 |

| N | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
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| N | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | D |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|
| 200 | 30 103 | 30 125 | 30 146 | 30 168 | 30 190 | 30 211 | 30 233 | 30 255 | 30 276 | 30 298 | 22 |
| 201 | 30 320 | 30 341 | 30 363 | 30 384 | 30 406 | 30 428 | 30 449 | 30 471 | 30 492 | 30 514 | 22 |
| 202 | 30 535 | 30 557 | 30 578 | 30 600 | 30 621 | 30 643 | 30 664 | 30 685 | 30 707 | 30 728 | 21+ |
| 203 | 30 750 | 30 771 | 30 792 | 30 814 | 30 835 | 30 856 | 30 878 | 30 899 | 30 920 | 30 942 | 21 |
| 204 | 30 963 | 30 984 | 31 006 | 31 027 | 31 048 | 31 069 | 31 091 | 31 112 | 31 133 | 31 154 | 21 |
| 205 | 31 175 | 31 197 | 31 218 | 31 239 | 31 260 | 31 281 | 31 302 | 31 323 | 31 345 | 31 366 | 21 |
| 206 | 31 387 | 31 408 | 31 429 | 31 450 | 31 471 | 31 492 | 31 513 | 31 534 | 31 555 | 31 576 | 21 |
| 207 | 31 597 | 31 618 | 31 639 | 31 660 | 31 681 | 31 702 | 31 723 | 31 744 | 31 765 | 31 785 | 21 |
| 208 | 31 806 | 31 827 | 31 848 | 31 869 | 31 890 | 31 911 | 31 931 | 31 952 | 31 973 | 31 994 | 21 |
| 209 | 32 015 | 32 035 | 32 056 | 32 077 | 32 098 | 32 118 | 32 139 | 32 160 | 32 181 | 32 201 | 21 |
| 210 | 32 222 | 32 243 | 32 263 | 32 284 | 32 305 | 32 325 | 32 346 | 32 366 | 32 387 | 32 408 | 21 |
| 211 | 32 428 | 32 449 | 32 469 | 32 490 | 32 510 | 32 531 | 32 552 | 32 572 | 32 593 | 32 613 | 20+ |
| 212 | 32 634 | 32 654 | 32 675 | 32 695 | 32 715 | 32 736 | 32 756 | 32 777 | 32 797 | 32 818 | 20 |
| 213 | 32 838 | 32 858 | 32 879 | 32 899 | 32 919 | 32 940 | 32 960 | 32 980 | 33 001 | 33 021 | 20 |
| 214 | 33 041 | 33 062 | 33 082 | 33 102 | 33 122 | 33 143 | 33 163 | 33 183 | 33 203 | 33 224 | 20 |
| 215 | 33 244 | 33 264 | 33 284 | 33 304 | 33 325 | 33 345 | 33 365 | 33 385 | 33 405 | 33 425 | 20 |
| 216 | 33 445 | 33 465 | 33 486 | 33 506 | 33 526 | 33 546 | 33 566 | 33 586 | 33 606 | 33 626 | 20 |
| 217 | 33 646 | 33 666 | 33 686 | 33 706 | 33 726 | 33 746 | 33 766 | 33 786 | 33 806 | 33 826 | 20 |
| 218 | 33 846 | 33 866 | 33 885 | 33 905 | 33 925 | 33 945 | 33 965 | 33 985 | 34 005 | 34 025 | 20 |
| 219 | 34 044 | 34 064 | 34 084 | 34 104 | 34 124 | 34 143 | 34 163 | 34 183 | 34 203 | 34 223 | 20 |
| 220 | 34 242 | 34 262 | 34 282 | 34 301 | 34 321 | 34 341 | 34 361 | 34 380 | 34 400 | 34 420 | 20 |
| 221 | 34 439 | 34 459 | 34 479 | 34 498 | 34 518 | 34 537 | 34 557 | 34 577 | 34 596 | 34 616 | 20 |
| 222 | 34 635 | 34 655 | 34 674 | 34 694 | 34 713 | 34 733 | 34 753 | 34 772 | 34 792 | 34 811 | 19+ |
| 223 | 34 830 | 34 850 | 34 869 | 34 889 | 34 908 | 34 928 | 34 947 | 34 967 | 34 986 | 35 005 | 19 |
| 224 | 35 025 | 35 044 | 35 064 | 35 083 | 35 102 | 35 122 | 35 141 | 35 160 | 35 180 | 35 199 | 19 |
| 225 | 35 218 | 35 238 | 35 257 | 35 276 | 35 295 | 35 315 | 35 334 | 35 353 | 35 372 | 35 392 | 19 |
| 226 | 35 411 | 35 430 | 35 449 | 35 468 | 35 488 | 35 507 | 35 526 | 35 545 | 35 564 | 35 583 | 19 |
| 227 | 35 603 | 35 622 | 35 641 | 35 660 | 35 679 | 35 698 | 35 717 | 35 736 | 35 755 | 35 774 | 19 |
| 228 | 35 793 | 35 813 | 35 832 | 35 851 | 35 870 | 35 889 | 35 908 | 35 927 | 35 946 | 35 965 | 19 |
| 229 | 35 984 | 36 003 | 36 021 | 36 040 | 36 059 | 36 078 | 36 097 | 36 116 | 36 135 | 36 154 | 19 |
| 230 | 36 173 | 36 192 | 36 211 | 36 229 | 36 248 | 36 267 | 36 286 | 36 305 | 36 324 | 36 342 | 19 |
| 231 | 36 361 | 36 380 | 36 399 | 36 418 | 36 436 | 36 455 | 36 474 | 36 493 | 36 511 | 36 530 | 19 |
| 232 | 36 549 | 36 568 | 36 586 | 36 605 | 36 624 | 36 642 | 36 661 | 36 680 | 36 698 | 36 717 | 19 |
| 233 | 36 736 | 36 754 | 36 773 | 36 791 | 36 810 | 36 829 | 36 847 | 36 866 | 36 884 | 36 903 | 19 |
| 234 | 36 922 | 36 940 | 36 959 | 36 977 | 36 996 | 37 014 | 37 033 | 37 051 | 37 070 | 37 088 | 18+ |
| 235 | 37 107 | 37 125 | 37 144 | 37 162 | 37 181 | 37 199 | 37 218 | 37 236 | 37 254 | 37 273 | 18 |
| 236 | 37 291 | 37 310 | 37 328 | 37 346 | 37 365 | 37 383 | 37 401 | 37 420 | 37 438 | 37 457 | 18 |
| 237 | 37 475 | 37 493 | 37 511 | 37 530 | 37 548 | 37 566 | 37 585 | 37 603 | 37 621 | 37 639 | 18 |
| 238 | 37 658 | 37 676 | 37 694 | 37 712 | 37 731 | 37 749 | 37 767 | 37 785 | 37 803 | 37 822 | 18 |
| 239 | 37 840 | 37 858 | 37 876 | 37 894 | 37 912 | 37 931 | 37 949 | 37 967 | 37 985 | 38 003 | 18 |
| 240 | 38 021 | 38 039 | 38 057 | 38 075 | 38 093 | 38 112 | 38 130 | 38 148 | 38 166 | 38 184 | 18 |
| 241 | 38 202 | 38 220 | 38 238 | 38 256 | 38 274 | 38 292 | 38 310 | 38 328 | 38 346 | 38 364 | 18 |
| 242 | 38 382 | 38 399 | 38 417 | 38 435 | 38 453 | 38 471 | 38 489 | 38 507 | 38 525 | 38 543 | 18 |
| 243 | 38 561 | 38 578 | 38 596 | 38 614 | 38 632 | 38 650 | 38 668 | 38 686 | 38 703 | 38 721 | 18 |
| 244 | 38 739 | 38 757 | 38 775 | 38 792 | 38 810 | 38 828 | 38 846 | 38 863 | 38 881 | 38 899 | 18 |
| 245 | 38 917 | 38 934 | 38 952 | 38 970 | 38 987 | 39 005 | 39 023 | 39 041 | 39 058 | 39 076 | 18 |
| 246 | 39 094 | 39 111 | 39 129 | 39 146 | 39 164 | 39 182 | 39 199 | 39 217 | 39 235 | 39 252 | 18 |
| 247 | 39 270 | 39 287 | 39 305 | 39 322 | 39 340 | 39 358 | 39 375 | 39 393 | 39 410 | 39 428 | 18 |
| 248 | 39 445 | 39 463 | 39 480 | 39 498 | 39 515 | 39 533 | 39 550 | 39 568 | 39 585 | 39 602 | 17+ |
| 249 | 39 620 | 39 637 | 39 655 | 39 672 | 39 690 | 39 707 | 39 724 | 39 742 | 39 759 | 39 777 | 17 |
| 250 | 39 794 | 39 811 | 39 829 | 39 846 | 39 863 | 39 881 | 39 898 | 39 915 | 39 933 | 39 950 | 17 |

| N | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | D |
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| N | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | D |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|
| 250 | 39 794 | 39 811 | 39 829 | 39 846 | 39 863 | 39 881 | 39 898 | 39 915 | 39 933 | 39 950 | 17 |
| 251 | 39 967 | 39 985 | 40 002 | 40 019 | 40 037 | 40 054 | 40 071 | 40 088 | 40 106 | 40 123 | 17 |
| 252 | 40 140 | 40 157 | 40 175 | 40 192 | 40 209 | 40 226 | 40 243 | 40 261 | 40 278 | 40 295 | 17 |
| 253 | 40 312 | 40 329 | 40 346 | 40 364 | 40 381 | 40 398 | 40 415 | 40 432 | 40 449 | 40 466 | 17 |
| 254 | 40 483 | 40 500 | 40 518 | 40 535 | 40 552 | 40 569 | 40 586 | 40 603 | 40 620 | 40 637 | 17 |
| 255 | 40 654 | 40 671 | 40 688 | 40 705 | 40 722 | 40 739 | 40 756 | 40 773 | 40 790 | 40 807 | 17 |
| 256 | 40 824 | 40 841 | 40 858 | 40 875 | 40 892 | 40 909 | 40 926 | 40 943 | 40 960 | 40 976 | 17 |
| 257 | 40 993 | 41 010 | 41 027 | 41 044 | 41 061 | 41 078 | 41 095 | 41 111 | 41 128 | 41 145 | 17 |
| 258 | 41 162 | 41 179 | 41 196 | 41 212 | 41 229 | 41 246 | 41 263 | 41 280 | 41 296 | 41 313 | 17 |
| 259 | 41 330 | 41 347 | 41 363 | 41 380 | 41 397 | 41 414 | 41 430 | 41 447 | 41 464 | 41 481 | 17 |
| 260 | 41 497 | 41 514 | 41 531 | 41 547 | 41 564 | 41 581 | 41 597 | 41 614 | 41 631 | 41 647 | 17 |
| 261 | 41 664 | 41 681 | 41 697 | 41 714 | 41 731 | 41 747 | 41 764 | 41 780 | 41 797 | 41 814 | 17 |
| 262 | 41 830 | 41 847 | 41 863 | 41 880 | 41 896 | 41 913 | 41 929 | 41 946 | 41 963 | 41 979 | 16+ |
| 263 | 41 996 | 42 012 | 42 029 | 42 045 | 42 062 | 42 078 | 42 095 | 42 111 | 42 127 | 42 144 | 16+ |
| 264 | 42 160 | 42 177 | 42 193 | 42 210 | 42 226 | 42 243 | 42 259 | 42 275 | 42 292 | 42 308 | 16 |
| 265 | 42 325 | 42 341 | 42 357 | 42 374 | 42 390 | 42 406 | 42 423 | 42 439 | 42 455 | 42 472 | 16 |
| 266 | 42 488 | 42 504 | 42 521 | 42 537 | 42 553 | 42 570 | 42 586 | 42 602 | 42 619 | 42 635 | 16 |
| 267 | 42 651 | 42 667 | 42 684 | 42 700 | 42 716 | 42 732 | 42 749 | 42 765 | 42 781 | 42 797 | 16 |
| 268 | 42 813 | 42 830 | 42 846 | 42 862 | 42 878 | 42 894 | 42 911 | 42 927 | 42 943 | 42 959 | 16 |
| 269 | 42 975 | 42 991 | 43 008 | 43 024 | 43 040 | 43 056 | 43 072 | 43 088 | 43 104 | 43 120 | 16 |
| 270 | 43 136 | 43 152 | 43 169 | 43 185 | 43 201 | 43 217 | 43 233 | 43 249 | 43 265 | 43 281 | 16 |
| 271 | 43 297 | 43 313 | 43 329 | 43 345 | 43 361 | 43 377 | 43 393 | 43 409 | 43 425 | 43 441 | 16 |
| 272 | 43 457 | 43 473 | 43 489 | 43 505 | 43 521 | 43 537 | 43 553 | 43 569 | 43 584 | 43 600 | 16 |
| 273 | 43 616 | 43 632 | 43 648 | 43 664 | 43 680 | 43 696 | 43 712 | 43 727 | 43 743 | 43 759 | 16 |
| 274 | 43 775 | 43 791 | 43 807 | 43 823 | 43 838 | 43 854 | 43 870 | 43 886 | 43 902 | 43 917 | 16 |
| 275 | 43 933 | 43 949 | 43 965 | 43 981 | 43 996 | 44 012 | 44 028 | 44 044 | 44 059 | 44 075 | 16 |
| 276 | 44 091 | 44 107 | 44 122 | 44 138 | 44 154 | 44 170 | 44 185 | 44 201 | 44 217 | 44 232 | 16 |
| 277 | 44 248 | 44 264 | 44 279 | 44 295 | 44 311 | 44 326 | 44 342 | 44 358 | 44 373 | 44 389 | 16 |
| 278 | 44 404 | 44 420 | 44 436 | 44 451 | 44 467 | 44 483 | 44 498 | 44 514 | 44 529 | 44 545 | 16 |
| 279 | 44 560 | 44 576 | 44 592 | 44 607 | 44 623 | 44 638 | 44 654 | 44 669 | 44 685 | 44 700 | 15+ |
| 280 | 44 716 | 44 731 | 44 747 | 44 762 | 44 778 | 44 793 | 44 809 | 44 824 | 44 840 | 44 855 | 15+ |
| 281 | 44 871 | 44 886 | 44 902 | 44 917 | 44 932 | 44 948 | 44 963 | 44 979 | 44 994 | 45 010 | 15 |
| 282 | 45 025 | 45 040 | 45 056 | 45 071 | 45 086 | 45 102 | 45 117 | 45 133 | 45 148 | 45 163 | 15 |
| 283 | 45 179 | 45 194 | 45 209 | 45 225 | 45 240 | 45 255 | 45 271 | 45 286 | 45 301 | 45 317 | 15 |
| 284 | 45 332 | 45 347 | 45 362 | 45 378 | 45 393 | 45 408 | 45 423 | 45 439 | 45 454 | 45 469 | 15 |
| 285 | 45 484 | 45 500 | 45 515 | 45 530 | 45 545 | 45 561 | 45 576 | 45 591 | 45 606 | 45 621 | 15 |
| 286 | 45 637 | 45 652 | 45 667 | 45 682 | 45 697 | 45 712 | 45 728 | 45 743 | 45 758 | 45 773 | 15 |
| 287 | 45 788 | 45 803 | 45 818 | 45 834 | 45 849 | 45 864 | 45 879 | 45 894 | 45 909 | 45 924 | 15 |
| 288 | 45 939 | 45 954 | 45 969 | 45 984 | 46 000 | 46 015 | 46 030 | 46 045 | 46 060 | 46 075 | 15 |
| 289 | 46 090 | 46 105 | 46 120 | 46 135 | 46 150 | 46 165 | 46 180 | 46 195 | 46 210 | 46 225 | 15 |
| 290 | 46 240 | 46 255 | 46 270 | 46 285 | 46 300 | 46 315 | 46 330 | 46 345 | 46 359 | 46 374 | 15 |
| 291 | 46 389 | 46 404 | 46 419 | 46 434 | 46 449 | 46 464 | 46 479 | 46 494 | 46 509 | 46 523 | 15 |
| 292 | 46 538 | 46 553 | 46 568 | 46 583 | 46 598 | 46 613 | 46 627 | 46 642 | 46 657 | 46 672 | 15 |
| 293 | 46 687 | 46 702 | 46 716 | 46 731 | 46 746 | 46 761 | 46 776 | 46 790 | 46 805 | 46 820 | 15 |
| 294 | 46 835 | 46 850 | 46 864 | 46 879 | 46 894 | 46 909 | 46 923 | 46 938 | 46 953 | 46 967 | 15 |
| 295 | 46 982 | 46 997 | 47 012 | 47 026 | 47 041 | 47 056 | 47 070 | 47 085 | 47 100 | 47 114 | 15 |
| 296 | 47 129 | 47 144 | 47 159 | 47 173 | 47 188 | 47 202 | 47 217 | 47 232 | 47 246 | 47 261 | 15 |
| 297 | 47 276 | 47 290 | 47 305 | 47 319 | 47 334 | 47 349 | 47 363 | 47 378 | 47 392 | 47 407 | 15 |
| 298 | 47 422 | 47 436 | 47 451 | 47 465 | 47 480 | 47 494 | 47 509 | 47 524 | 47 538 | 47 553 | 15 |
| 299 | 47 567 | 47 582 | 47 596 | 47 611 | 47 625 | 47 640 | 47 654 | 47 669 | 47 683 | 47 698 | 14+ |
| 300 | 47 712 | 47 727 | 47 741 | 47 756 | 47 770 | 47 784 | 47 799 | 47 813 | 47 828 | 47 842 | 14+ |
| N | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |

| N | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | D |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|
| 300 | 47 712 | 47 727 | 47 741 | 47 756 | 47 770 | 47 784 | 47 799 | 47 813 | 47 828 | 47 842 | 14+ |
| 301 | 47 857 | 47 871 | 47 885 | 47 900 | 47 914 | 47 929 | 47 943 | 47 958 | 47 972 | 47 986 | 14 |
| 302 | 48 001 | 48 015 | 48 029 | 48 044 | 48 058 | 48 073 | 48 087 | 48 101 | 48 116 | 48 130 | 14 |
| 303 | 48 144 | 48 159 | 48 173 | 48 187 | 48 202 | 48 216 | 48 230 | 48 244 | 48 259 | 48 273 | 14 |
| 304 | 48 287 | 48 302 | 48 316 | 48 330 | 48 344 | 48 359 | 48 373 | 48 387 | 48 401 | 48 416 | 14 |
| 305 | 48 430 | 48 444 | 48 458 | 48 473 | 48 487 | 48 501 | 48 515 | 48 530 | 48 544 | 48 558 | 14 |
| 306 | 48 572 | 48 586 | 48 601 | 48 615 | 48 629 | 48 643 | 48 657 | 48 671 | 48 686 | 48 700 | 14 |
| 307 | 48 714 | 48 728 | 48 742 | 48 756 | 48 770 | 48 785 | 48 799 | 48 813 | 48 827 | 48 841 | 14 |
| 308 | 48 855 | 48 869 | 48 883 | 48 897 | 48 911 | 48 926 | 48 940 | 48 954 | 48 968 | 48 982 | 14 |
| 309 | 48 996 | 49 010 | 49 024 | 49 038 | 49 052 | 49 066 | 49 080 | 49 094 | 49 108 | 49 122 | 14 |
| 310 | 49 136 | 49 150 | 49 164 | 49 178 | 49 192 | 49 206 | 49 220 | 49 234 | 49 248 | 49 262 | 14 |
| 311 | 49 276 | 49 290 | 49 304 | 49 318 | 49 332 | 49 346 | 49 360 | 49 374 | 49 388 | 49 402 | 14 |
| 312 | 49 415 | 49 429 | 49 443 | 49 457 | 49 471 | 49 485 | 49 499 | 49 513 | 49 527 | 49 541 | 14 |
| 313 | 49 554 | 49 568 | 49 582 | 49 596 | 49 610 | 49 624 | 49 638 | 49 651 | 49 665 | 49 679 | 14 |
| 314 | 49 693 | 49 707 | 49 721 | 49 734 | 49 748 | 49 762 | 49 776 | 49 790 | 49 803 | 49 817 | 14 |
| 315 | 49 831 | 49 845 | 49 859 | 49 872 | 49 886 | 49 900 | 49 914 | 49 927 | 49 941 | 49 955 | 14 |
| 316 | 49 969 | 49 982 | 49 996 | 50 010 | 50 024 | 50 037 | 50 051 | 50 065 | 50 079 | 50 092 | 14 |
| 317 | 50 106 | 50 120 | 50 133 | 50 147 | 50 161 | 50 174 | 50 188 | 50 202 | 50 215 | 50 229 | 14 |
| 318 | 50 243 | 50 256 | 50 270 | 50 284 | 50 297 | 50 311 | 50 325 | 50 338 | 50 352 | 50 365 | 14 |
| 319 | 50 379 | 50 393 | 50 406 | 50 420 | 50 433 | 50 447 | 50 461 | 50 474 | 50 488 | 50 501 | 14 |
| 320 | 50 515 | 50 529 | 50 542 | 50 556 | 50 569 | 50 583 | 50 596 | 50 610 | 50 623 | 50 637 | 14 |
| 321 | 50 651 | 50 664 | 50 678 | 50 691 | 50 705 | 50 718 | 50 732 | 50 745 | 50 759 | 50 772 | 13+ |
| 322 | 50 786 | 50 799 | 50 813 | 50 826 | 50 840 | 50 853 | 50 866 | 50 880 | 50 893 | 50 907 | 13+ |
| 323 | 50 920 | 50 934 | 50 947 | 50 961 | 50 974 | 50 987 | 51 001 | 51 014 | 51 028 | 51 041 | 13 |
| 324 | 51 055 | 51 068 | 51 081 | 51 095 | 51 108 | 51 121 | 51 135 | 51 148 | 51 162 | 51 175 | 13 |
| 325 | 51 188 | 51 202 | 51 215 | 51 228 | 51 242 | 51 255 | 51 268 | 51 282 | 51 295 | 51 308 | 13 |
| 326 | 51 322 | 51 335 | 51 348 | 51 362 | 51 375 | 51 388 | 51 402 | 51 415 | 51 428 | 51 441 | 13 |
| 327 | 51 455 | 51 468 | 51 481 | 51 495 | 51 508 | 51 521 | 51 534 | 51 548 | 51 561 | 51 574 | 13 |
| 328 | 51 587 | 51 601 | 51 614 | 51 627 | 51 640 | 51 654 | 51 667 | 51 680 | 51 693 | 51 706 | 13 |
| 329 | 51 720 | 51 733 | 51 746 | 51 759 | 51 772 | 51 786 | 51 799 | 51 812 | 51 825 | 51 838 | 13 |
| 330 | 51 851 | 51 865 | 51 878 | 51 891 | 51 904 | 51 917 | 51 930 | 51 943 | 51 957 | 51 970 | 13 |
| 331 | 51 983 | 51 996 | 52 009 | 52 022 | 52 035 | 52 048 | 52 061 | 52 075 | 52 088 | 52 101 | 13 |
| 332 | 52 114 | 52 127 | 52 140 | 52 153 | 52 166 | 52 179 | 52 192 | 52 205 | 52 218 | 52 231 | 13 |
| 333 | 52 244 | 52 257 | 52 270 | 52 284 | 52 297 | 52 310 | 52 323 | 52 336 | 52 349 | 52 362 | 13 |
| 334 | 52 375 | 52 388 | 52 401 | 52 414 | 52 427 | 52 440 | 52 453 | 52 466 | 52 479 | 52 492 | 13 |
| 335 | 52 504 | 52 517 | 52 530 | 52 543 | 52 556 | 52 569 | 52 582 | 52 595 | 52 608 | 52 621 | 13 |
| 336 | 52 634 | 52 647 | 52 660 | 52 673 | 52 686 | 52 699 | 52 711 | 52 724 | 52 737 | 52 750 | 13 |
| 337 | 52 763 | 52 776 | 52 789 | 52 802 | 52 815 | 52 827 | 52 840 | 52 853 | 52 866 | 52 879 | 13 |
| 338 | 52 892 | 52 905 | 52 917 | 52 930 | 52 943 | 52 956 | 52 969 | 52 982 | 52 994 | 53 007 | 13 |
| 339 | 53 020 | 53 033 | 53 046 | 53 058 | 53 071 | 53 084 | 53 097 | 53 110 | 53 122 | 53 135 | 13 |
| 340 | 53 148 | 53 161 | 53 173 | 53 186 | 53 199 | 53 212 | 53 224 | 53 237 | 53 250 | 53 263 | 13 |
| 341 | 53 275 | 53 288 | 53 301 | 53 314 | 53 326 | 53 339 | 53 352 | 53 364 | 53 377 | 53 390 | 13 |
| 342 | 53 403 | 53 415 | 53 428 | 53 441 | 53 453 | 53 466 | 53 479 | 53 491 | 53 504 | 53 517 | 13 |
| 343 | 53 529 | 53 542 | 53 555 | 53 567 | 53 580 | 53 593 | 53 605 | 53 618 | 53 631 | 53 643 | 13 |
| 344 | 53 656 | 53 668 | 53 681 | 53 694 | 53 706 | 53 719 | 53 732 | 53 744 | 53 757 | 53 769 | 13 |
| 345 | 53 782 | 53 794 | 53 807 | 53 820 | 53 832 | 53 845 | 53 857 | 53 870 | 53 882 | 53 895 | 13 |
| 346 | 53 908 | 53 920 | 53 933 | 53 945 | 53 958 | 53 970 | 53 983 | 53 995 | 54 008 | 54 020 | 12+ |
| 347 | 54 033 | 54 045 | 54 058 | 54 070 | 54 083 | 54 095 | 54 108 | 54 120 | 54 133 | 54 145 | 12+ |
| 348 | 54 158 | 54 170 | 54 183 | 54 195 | 54 208 | 54 220 | 54 233 | 54 245 | 54 258 | 54 270 | 12+ |
| 349 | 54 283 | 54 295 | 54 307 | 54 320 | 54 332 | 54 345 | 54 357 | 54 370 | 54 382 | 54 394 | 12 |
| 350 | 54 407 | 54 419 | 54 432 | 54 444 | 54 456 | 54 469 | 54 481 | 54 494 | 54 506 | 54 518 | 12 |
| N | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |

| N | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | D |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|
| 350 | 54 407 | 54 419 | 54 432 | 54 444 | 54 456 | 54 469 | 54 481 | 54 494 | 54 506 | 54 518 | 12 |
| 351 | 54 531 | 54 543 | 54 555 | 54 568 | 54 580 | 54 593 | 54 605 | 54 617 | 54 630 | 54 642 | 12 |
| 352 | 54 654 | 54 667 | 54 679 | 54 691 | 54 704 | 54 716 | 54 728 | 54 741 | 54 753 | 54 765 | 12 |
| 353 | 54 777 | 54 790 | 54 802 | 54 814 | 54 827 | 54 839 | 54 851 | 54 864 | 54 876 | 54 888 | 12 |
| 354 | 54 900 | 54 913 | 54 925 | 54 937 | 54 949 | 54 962 | 54 974 | 54 986 | 54 998 | 55 011 | 12 |
| 355 | 55 023 | 55 035 | 55 047 | 55 060 | 55 072 | 55 084 | 55 096 | 55 108 | 55 121 | 55 133 | 12 |
| 356 | 55 145 | 55 157 | 55 169 | 55 182 | 55 194 | 55 206 | 55 218 | 55 230 | 55 242 | 55 255 | 12 |
| 357 | 55 267 | 55 279 | 55 291 | 55 303 | 55 315 | 55 328 | 55 340 | 55 352 | 55 364 | 55 376 | 12 |
| 358 | 55 388 | 55 400 | 55 413 | 55 425 | 55 437 | 55 449 | 55 461 | 55 473 | 55 485 | 55 497 | 12 |
| 359 | 55 509 | 55 522 | 55 534 | 55 546 | 55 558 | 55 570 | 55 582 | 55 594 | 55 606 | 55 618 | 12 |
| 360 | 55 630 | 55 642 | 55 654 | 55 666 | 55 678 | 55 691 | 55 703 | 55 715 | 55 727 | 55 739 | 12 |
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| 364 | 56 110 | 56 122 | 56 134 | 56 146 | 56 158 | 56 170 | 56 182 | 56 194 | 56 205 | 56 217 | 12 |
| 365 | 56 229 | 56 241 | 56 253 | 56 265 | 56 277 | 56 289 | 56 301 | 56 312 | 56 324 | 56 336 | 12 |
| 366 | 56 348 | 56 360 | 56 372 | 56 384 | 56 396 | 56 407 | 56 419 | 56 431 | 56 443 | 56 455 | 12 |
| 367 | 56 467 | 56 478 | 56 490 | 56 502 | 56 514 | 56 526 | 56 538 | 56 549 | 56 561 | 56 573 | 12 |
| 368 | 56 585 | 56 597 | 56 608 | 56 620 | 56 632 | 56 644 | 56 656 | 56 667 | 56 679 | 56 691 | 12 |
| 369 | 56 703 | 56 714 | 56 726 | 56 738 | 56 750 | 56 761 | 56 773 | 56 785 | 56 797 | 56 808 | 12 |
| 370 | 56 820 | 56 832 | 56 844 | 56 855 | 56 867 | 56 879 | 56 891 | 56 902 | 56 914 | 56 926 | 12 |
| 371 | 56 937 | 56 949 | 56 961 | 56 972 | 56 984 | 56 996 | 57 008 | 57 019 | 57 031 | 57 043 | 12 |
| 372 | 57 054 | 57 066 | 57 078 | 57 089 | 57 101 | 57 113 | 57 124 | 57 136 | 57 148 | 57 159 | 12 |
| 373 | 57 171 | 57 183 | 57 194 | 57 206 | 57 217 | 57 229 | 57 241 | 57 252 | 57 264 | 57 276 | 12 |
| 374 | 57 287 | 57 299 | 57 310 | 57 322 | 57 334 | 57 345 | 57 357 | 57 368 | 57 380 | 57 392 | 12 |
| 375 | 57 403 | 57 415 | 57 426 | 57 438 | 57 449 | 57 461 | 57 473 | 57 484 | 57 496 | 57 507 | 12 |
| 376 | 57 519 | 57 530 | 57 542 | 57 553 | 57 565 | 57 576 | 57 588 | 57 600 | 57 611 | 57 623 | 11+ |
| 377 | 57 634 | 57 646 | 57 657 | 57 669 | 57 680 | 57 692 | 57 703 | 57 715 | 57 726 | 57 738 | 11+ |
| 378 | 57 749 | 57 761 | 57 772 | 57 784 | 57 795 | 57 807 | 57 818 | 57 830 | 57 841 | 57 852 | 11+ |
| 379 | 57 864 | 57 875 | 57 887 | 57 898 | 57 910 | 57 921 | 57 933 | 57 944 | 57 955 | 57 967 | 11 |
| 380 | 57 978 | 57 990 | 58 001 | 58 013 | 58 024 | 58 035 | 58 047 | 58 058 | 58 070 | 58 081 | 11 |
| 381 | 58 092 | 58 104 | 58 115 | 58 127 | 58 138 | 58 149 | 58 161 | 58 172 | 58 184 | 58 195 | 11 |
| 382 | 58 206 | 58 218 | 58 229 | 58 240 | 58 252 | 58 263 | 58 274 | 58 286 | 58 297 | 58 309 | 11 |
| 383 | 58 320 | 58 331 | 58 343 | 58 354 | 58 365 | 58 377 | 58 388 | 58 399 | 58 410 | 58 422 | 11 |
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| 389 | 58 995 | 59 006 | 59 017 | 59 028 | 59 040 | 59 051 | 59 062 | 59 073 | 59 084 | 59 095 | 11 |
| 390 | 59 106 | 59 118 | 59 129 | 59 140 | 59 151 | 59 162 | 59 173 | 59 184 | 59 195 | 59 207 | 11 |
| 391 | 59 218 | 59 229 | 59 240 | 59 251 | 59 262 | 59 273 | 59 284 | 59 295 | 59 306 | 59 318 | 11 |
| 392 | 59 329 | 59 340 | 59 351 | 59 362 | 59 373 | 59 384 | 59 395 | 59 406 | 59 417 | 59 428 | 11 |
| 393 | 59 439 | 59 450 | 59 461 | 59 472 | 59 483 | 59 494 | 59 506 | 59 517 | 59 528 | 59 539 | 11 |
| 394 | 59 550 | 59 561 | 59 572 | 59 583 | 59 594 | 59 605 | 59 616 | 59 627 | 59 638 | 59 649 | 11 |
| 395 | 59 660 | 59 671 | 59 682 | 59 693 | 59 704 | 59 715 | 59 726 | 59 737 | 59 748 | 59 759 | 11 |
| 396 | 59 770 | 59 780 | 59 791 | 59 802 | 59 813 | 59 824 | 59 835 | 59 846 | 59 857 | 59 868 | 11 |
| 397 | 59 879 | 59 890 | 59 901 | 59 912 | 59 923 | 59 934 | 59 945 | 59 956 | 59 966 | 59 977 | 11 |
| 398 | 59 988 | 59 999 | 60 010 | 60 021 | 60 032 | 60 043 | 60 054 | 60 065 | 60 076 | 60 086 | 11 |
| 399 | 60 097 | 60 108 | 60 119 | 60 130 | 60 141 | 60 152 | 60 163 | 60 173 | 60 184 | 60 195 | 11 |
| 400 | 60 206 | 60 217 | 60 228 | 60 239 | 60 249 | 60 260 | 60 271 | 60 282 | 60 293 | 60 304 | 11 |
| N | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |

| N | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | D |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|
| 400 | 60 206 | 60 217 | 60 228 | 60 239 | 60 249 | 60 260 | 60 271 | 60 282 | 60 293 | 60 304 | II |
| 401 | 60 314 | 60 325 | 60 336 | 60 347 | 60 358 | 60 369 | 60 379 | 60 390 | 60 401 | 60 412 | II |
| 402 | 60 423 | 60 433 | 60 444 | 60 455 | 60 466 | 60 477 | 60 487 | 60 498 | 60 509 | 60 520 | II |
| 403 | 60 531 | 60 541 | 60 552 | 60 563 | 60 574 | 60 584 | 60 595 | 60 606 | 60 617 | 60 627 | II |
| 404 | 60 638 | 60 649 | 60 660 | 60 670 | 60 681 | 60 692 | 60 703 | 60 713 | 60 724 | 60 735 | II |
| 405 | 60 746 | 60 756 | 60 767 | 60 778 | 60 788 | 60 799 | 60 810 | 60 821 | 60 831 | 60 842 | II |
| 406 | 60 853 | 60 863 | 60 874 | 60 885 | 60 895 | 60 906 | 60 917 | 60 927 | 60 938 | 60 949 | II |
| 407 | 60 959 | 60 970 | 60 981 | 60 991 | 61 002 | 61 013 | 61 023 | 61 034 | 61 045 | 61 055 | II |
| 408 | 61 066 | 61 077 | 61 087 | 61 098 | 61 109 | 61 119 | 61 130 | 61 140 | 61 151 | 61 162 | II |
| 409 | 61 172 | 61 183 | 61 194 | 61 204 | 61 215 | 61 225 | 61 236 | 61 247 | 61 257 | 61 268 | II |
| 410 | 61 278 | 61 289 | 61 300 | 61 310 | 61 321 | 61 331 | 61 342 | 61 352 | 61 363 | 61 374 | II |
| 411 | 61 384 | 61 395 | 61 405 | 61 416 | 61 426 | 61 437 | 61 448 | 61 458 | 61 469 | 61 479 | II |
| 412 | 61 490 | 61 500 | 61 511 | 61 521 | 61 532 | 61 542 | 61 553 | 61 563 | 61 574 | 61 584 | IO+ |
| 413 | 61 595 | 61 606 | 61 616 | 61 627 | 61 637 | 61 648 | 61 658 | 61 669 | 61 679 | 61 690 | IO+ |
| 414 | 61 700 | 61 711 | 61 721 | 61 731 | 61 742 | 61 752 | 61 763 | 61 773 | 61 784 | 61 794 | IO+ |
| 415 | 61 805 | 61 815 | 61 826 | 61 836 | 61 847 | 61 857 | 61 868 | 61 878 | 61 888 | 61 899 | IO+ |
| 416 | 61 909 | 61 920 | 61 930 | 61 941 | 61 951 | 61 962 | 61 972 | 61 982 | 61 993 | 62 003 | IO |
| 417 | 62 014 | 62 024 | 62 034 | 62 045 | 62 055 | 62 066 | 62 076 | 62 086 | 62 097 | 62 107 | IO |
| 418 | 62 118 | 62 128 | 62 138 | 62 149 | 62 159 | 62 170 | 62 180 | 62 190 | 62 201 | 62 211 | IO |
| 419 | 62 221 | 62 232 | 62 242 | 62 252 | 62 263 | 62 273 | 62 284 | 62 294 | 62 304 | 62 315 | IO |
| 420 | 62 325 | 62 335 | 62 346 | 62 356 | 62 366 | 62 377 | 62 387 | 62 397 | 62 408 | 62 418 | IO |
| 421 | 62 428 | 62 439 | 62 449 | 62 459 | 62 469 | 62 480 | 62 490 | 62 500 | 62 511 | 62 521 | IO |
| 422 | 62 531 | 62 542 | 62 552 | 62 562 | 62 572 | 62 583 | 62 593 | 62 603 | 62 613 | 62 624 | IO |
| 423 | 62 634 | 62 644 | 62 655 | 62 665 | 62 675 | 62 685 | 62 696 | 62 706 | 62 716 | 62 726 | IO |
| 424 | 62 737 | 62 747 | 62 757 | 62 767 | 62 778 | 62 788 | 62 798 | 62 808 | 62 818 | 62 829 | IO |
| 425 | 62 839 | 62 849 | 62 859 | 62 870 | 62 880 | 62 890 | 62 900 | 62 910 | 62 921 | 62 931 | IO |
| 426 | 62 941 | 62 951 | 62 961 | 62 972 | 62 982 | 62 992 | 63 002 | 63 012 | 63 022 | 63 033 | IO |
| 427 | 63 043 | 63 053 | 63 063 | 63 073 | 63 083 | 63 094 | 63 104 | 63 114 | 63 124 | 63 134 | IO |
| 428 | 63 144 | 63 155 | 63 165 | 63 175 | 63 185 | 63 195 | 63 205 | 63 215 | 63 225 | 63 236 | IO |
| 429 | 63 246 | 63 256 | 63 266 | 63 276 | 63 286 | 63 296 | 63 306 | 63 317 | 63 327 | 63 337 | IO |
| 430 | 63 347 | 63 357 | 63 367 | 63 377 | 63 387 | 63 397 | 63 407 | 63 417 | 63 428 | 63 438 | IO |
| 431 | 63 448 | 63 458 | 63 468 | 63 478 | 63 488 | 63 498 | 63 508 | 63 518 | 63 528 | 63 538 | IO |
| 432 | 63 548 | 63 558 | 63 568 | 63 579 | 63 589 | 63 599 | 63 609 | 63 619 | 63 629 | 63 639 | IO |
| 433 | 63 649 | 63 659 | 63 669 | 63 679 | 63 689 | 63 699 | 63 709 | 63 719 | 63 729 | 63 739 | IO |
| 434 | 63 749 | 63 759 | 63 769 | 63 779 | 63 789 | 63 799 | 63 809 | 63 819 | 63 829 | 63 839 | IO |
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| 436 | 63 949 | 63 959 | 63 969 | 63 979 | 63 988 | 63 998 | 64 008 | 64 018 | 64 028 | 64 038 | IO |
| 437 | 64 048 | 64 058 | 64 068 | 64 078 | 64 088 | 64 098 | 64 108 | 64 118 | 64 128 | 64 137 | IO |
| 438 | 64 147 | 64 157 | 64 167 | 64 177 | 64 187 | 64 197 | 64 207 | 64 217 | 64 227 | 64 237 | IO |
| 439 | 64 246 | 64 256 | 64 266 | 64 276 | 64 286 | 64 296 | 64 306 | 64 316 | 64 326 | 64 335 | IO |
| 440 | 64 345 | 64 355 | 64 365 | 64 375 | 64 385 | 64 395 | 64 404 | 64 414 | 64 424 | 64 434 | IO |
| 441 | 64 444 | 64 454 | 64 464 | 64 473 | 64 483 | 64 493 | 64 503 | 64 513 | 64 523 | 64 532 | IO |
| 442 | 64 542 | 64 552 | 64 562 | 64 572 | 64 582 | 64 591 | 64 601 | 64 611 | 64 621 | 64 631 | IO |
| 443 | 64 640 | 64 650 | 64 660 | 64 670 | 64 680 | 64 689 | 64 699 | 64 709 | 64 719 | 64 729 | IO |
| 444 | 64 738 | 64 748 | 64 758 | 64 768 | 64 777 | 64 787 | 64 797 | 64 807 | 64 816 | 64 826 | IO |
| 445 | 64 836 | 64 846 | 64 856 | 64 865 | 64 875 | 64 885 | 64 895 | 64 904 | 64 914 | 64 924 | IO |
| 446 | 64 933 | 64 943 | 64 953 | 64 963 | 64 972 | 64 982 | 64 992 | 65 002 | 65 011 | 65 021 | IO |
| 447 | 65 031 | 65 040 | 65 050 | 65 060 | 65 070 | 65 079 | 65 089 | 65 099 | 65 108 | 65 118 | IO |
| 448 | 65 128 | 65 137 | 65 147 | 65 157 | 65 167 | 65 176 | 65 186 | 65 196 | 65 205 | 65 215 | IO |
| 449 | 65 225 | 65 234 | 65 244 | 65 254 | 65 263 | 65 273 | 65 283 | 65 292 | 65 302 | 65 312 | IO |
| 450 | 65 321 | 65 331 | 65 341 | 65 350 | 65 360 | 65 369 | 65 379 | 65 389 | 65 398 | 65 408 | IO |

| N | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|
|---|---|---|---|---|---|---|---|---|---|---|

| N | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | D |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|
| 450 | 65 321 | 65 331 | 65 341 | 65 350 | 65 360 | 65 369 | 65 379 | 65 389 | 65 398 | 65 408 | 10 |
| 451 | 65 418 | 65 427 | 65 437 | 65 447 | 65 456 | 65 466 | 65 475 | 65 485 | 65 495 | 65 504 | 10 |
| 452 | 65 514 | 65 523 | 65 533 | 65 543 | 65 552 | 65 562 | 65 571 | 65 581 | 65 591 | 65 600 | 10 |
| 453 | 65 610 | 65 619 | 65 629 | 65 639 | 65 648 | 65 658 | 65 667 | 65 677 | 65 686 | 65 696 | 10 |
| 454 | 65 706 | 65 715 | 65 725 | 65 734 | 65 744 | 65 753 | 65 763 | 65 772 | 65 782 | 65 792 | 10 |
| 455 | 65 801 | 65 811 | 65 820 | 65 830 | 65 839 | 65 849 | 65 858 | 65 868 | 65 877 | 65 887 | 9+ |
| 456 | 65 896 | 65 906 | 65 916 | 65 925 | 65 935 | 65 944 | 65 954 | 65 963 | 65 973 | 65 982 | 9+ |
| 457 | 65 992 | 66 001 | 66 011 | 66 020 | 66 030 | 66 039 | 66 049 | 66 058 | 66 068 | 66 077 | 9+ |
| 458 | 66 087 | 66 096 | 66 106 | 66 115 | 66 124 | 66 134 | 66 143 | 66 153 | 66 162 | 66 172 | 9+ |
| 459 | 66 181 | 66 191 | 66 200 | 66 210 | 66 219 | 66 229 | 66 238 | 66 247 | 66 257 | 66 266 | 9+ |
| 460 | 66 276 | 66 285 | 66 295 | 66 304 | 66 314 | 66 323 | 66 332 | 66 342 | 66 351 | 66 361 | 9 |
| 461 | 66 370 | 66 380 | 66 389 | 66 398 | 66 408 | 66 417 | 66 427 | 66 436 | 66 445 | 66 455 | 9 |
| 462 | 66 464 | 66 474 | 66 483 | 66 492 | 66 502 | 66 511 | 66 521 | 66 530 | 66 539 | 66 549 | 9 |
| 463 | 66 558 | 66 567 | 66 577 | 66 586 | 66 596 | 66 605 | 66 614 | 66 624 | 66 633 | 66 642 | 9 |
| 464 | 66 652 | 66 661 | 66 671 | 66 680 | 66 689 | 66 699 | 66 708 | 66 717 | 66 727 | 66 736 | 9 |
| 465 | 66 745 | 66 755 | 66 764 | 66 773 | 66 783 | 66 792 | 66 801 | 66 811 | 66 820 | 66 829 | 9 |
| 466 | 66 839 | 66 848 | 66 857 | 66 867 | 66 876 | 66 885 | 66 894 | 66 904 | 66 913 | 66 922 | 9 |
| 467 | 66 932 | 66 941 | 66 950 | 66 960 | 66 969 | 66 978 | 66 987 | 66 997 | 67 006 | 67 015 | 9 |
| 468 | 67 025 | 67 034 | 67 043 | 67 052 | 67 062 | 67 071 | 67 080 | 66 089 | 67 099 | 67 108 | 9 |
| 469 | 67 117 | 67 127 | 67 136 | 67 145 | 67 154 | 67 164 | 67 173 | 67 182 | 67 191 | 67 201 | 9 |
| 470 | 67 210 | 67 219 | 67 228 | 67 237 | 67 247 | 67 256 | 67 265 | 67 274 | 67 284 | 67 293 | 9 |
| 471 | 67 302 | 67 311 | 67 321 | 67 330 | 67 339 | 67 348 | 67 357 | 67 367 | 67 376 | 67 385 | 9 |
| 472 | 67 394 | 67 403 | 67 413 | 67 422 | 67 431 | 67 440 | 67 449 | 67 459 | 67 468 | 67 477 | 9 |
| 473 | 67 486 | 67 495 | 67 504 | 67 514 | 67 523 | 67 532 | 67 541 | 67 550 | 67 560 | 67 569 | 9 |
| 474 | 67 578 | 67 587 | 67 596 | 67 605 | 67 614 | 67 624 | 67 633 | 67 642 | 67 651 | 67 660 | 9 |
| 475 | 67 669 | 67 679 | 67 688 | 67 697 | 67 706 | 67 715 | 67 724 | 67 733 | 67 742 | 67 752 | 9 |
| 476 | 67 761 | 67 770 | 67 779 | 67 788 | 67 797 | 67 806 | 67 815 | 67 825 | 67 834 | 67 843 | 9 |
| 477 | 67 852 | 67 861 | 67 870 | 67 879 | 67 888 | 67 897 | 67 906 | 67 916 | 67 925 | 67 934 | 9 |
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| 479 | 68 034 | 68 043 | 68 052 | 68 061 | 68 070 | 68 079 | 68 088 | 68 097 | 68 106 | 68 115 | 9 |
| 480 | 68 124 | 68 133 | 68 142 | 68 151 | 68 160 | 68 169 | 68 178 | 68 187 | 68 196 | 68 205 | 9 |
| 481 | 68 215 | 68 224 | 68 233 | 68 242 | 68 251 | 68 260 | 68 269 | 68 278 | 68 287 | 68 296 | 9 |
| 482 | 68 305 | 68 314 | 68 323 | 68 332 | 68 341 | 68 350 | 68 359 | 68 368 | 68 377 | 68 386 | 9 |
| 483 | 68 395 | 68 404 | 68 413 | 68 422 | 68 431 | 68 440 | 68 449 | 68 458 | 68 467 | 68 476 | 9 |
| 484 | 68 485 | 68 494 | 68 502 | 68 511 | 68 520 | 68 529 | 68 538 | 68 547 | 68 556 | 68 565 | 9 |
| 485 | 68 574 | 68 583 | 68 592 | 68 601 | 68 610 | 68 619 | 68 628 | 68 637 | 68 646 | 68 655 | 9 |
| 486 | 68 664 | 68 673 | 68 681 | 68 690 | 68 699 | 68 708 | 68 717 | 68 726 | 68 735 | 68 744 | 9 |
| 487 | 68 753 | 68 762 | 68 771 | 68 780 | 68 789 | 68 797 | 68 806 | 68 815 | 68 824 | 68 833 | 9 |
| 488 | 68 842 | 68 851 | 68 860 | 68 869 | 68 878 | 68 886 | 68 895 | 68 904 | 68 913 | 68 922 | 9 |
| 489 | 68 931 | 68 940 | 68 949 | 68 958 | 68 966 | 68 975 | 68 984 | 68 993 | 69 002 | 69 011 | 9 |
| 490 | 69 020 | 69 028 | 69 037 | 69 046 | 69 055 | 69 064 | 69 073 | 69 082 | 69 090 | 69 099 | 9 |
| 491 | 69 108 | 69 117 | 69 126 | 69 135 | 69 144 | 69 152 | 69 161 | 69 170 | 69 179 | 69 188 | 9 |
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| 493 | 69 285 | 69 294 | 69 302 | 69 311 | 69 320 | 69 329 | 69 338 | 69 346 | 69 355 | 69 364 | 9 |
| 494 | 69 373 | 69 381 | 69 390 | 69 399 | 69 408 | 69 417 | 69 425 | 69 434 | 69 443 | 69 452 | 9 |
| 495 | 69 461 | 69 469 | 69 478 | 69 487 | 69 496 | 69 504 | 69 513 | 69 522 | 69 531 | 69 539 | 9 |
| 496 | 69 548 | 69 557 | 69 566 | 69 574 | 69 583 | 69 592 | 69 601 | 69 609 | 69 618 | 69 627 | 9 |
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| 498 | 69 723 | 69 732 | 69 740 | 69 749 | 69 758 | 69 767 | 69 775 | 69 784 | 69 793 | 69 801 | 9 |
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| 500 | 69 897 | 69 906 | 69 914 | 69 923 | 69 932 | 69 940 | 69 949 | 69 958 | 69 966 | 69 975 | 9 |
| N | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |

| N | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | D |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|
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| 505 | 70 329 | 70 338 | 70 346 | 70 355 | 70 364 | 70 372 | 70 381 | 70 389 | 70 398 | 70 406 | 9 |
| 506 | 70 415 | 70 424 | 70 432 | 70 441 | 70 449 | 70 458 | 70 467 | 70 475 | 70 484 | 70 492 | 9 |
| 507 | 70 501 | 70 509 | 70 518 | 70 526 | 70 535 | 70 544 | 70 552 | 70 561 | 70 569 | 70 578 | 9 |
| 508 | 70 586 | 70 595 | 70 603 | 70 612 | 70 621 | 70 629 | 70 638 | 70 646 | 70 655 | 70 663 | 8+ |
| 509 | 70 672 | 70 680 | 70 689 | 70 697 | 70 706 | 70 714 | 70 723 | 70 731 | 70 740 | 70 749 | 8+ |
| 510 | 70 757 | 70 766 | 70 774 | 70 783 | 70 791 | 70 800 | 70 808 | 70 817 | 70 825 | 70 834 | 8+ |
| 511 | 70 842 | 70 851 | 70 859 | 70 868 | 70 876 | 70 885 | 70 893 | 70 902 | 70 910 | 70 919 | 8+ |
| 512 | 70 927 | 70 935 | 70 944 | 70 952 | 70 961 | 70 969 | 70 978 | 70 986 | 70 995 | 71 003 | 8+ |
| 513 | 71 012 | 71 020 | 71 029 | 71 037 | 71 046 | 71 054 | 71 063 | 71 071 | 71 079 | 71 088 | 8+ |
| 514 | 71 096 | 71 105 | 71 113 | 71 122 | 71 130 | 71 139 | 71 147 | 71 155 | 71 164 | 71 172 | 8 |
| 515 | 71 181 | 71 189 | 71 198 | 71 206 | 71 214 | 71 223 | 71 231 | 71 240 | 71 248 | 71 257 | 8 |
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| 517 | 71 349 | 71 357 | 71 366 | 71 374 | 71 383 | 71 391 | 71 399 | 71 408 | 71 416 | 71 425 | 8 |
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| 519 | 71 517 | 71 525 | 71 533 | 71 542 | 71 550 | 71 559 | 71 567 | 71 575 | 71 584 | 71 592 | 8 |
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| 521 | 71 684 | 71 692 | 71 700 | 71 709 | 71 717 | 71 725 | 71 734 | 71 742 | 71 750 | 71 759 | 8 |
| 522 | 71 767 | 71 775 | 71 784 | 71 792 | 71 800 | 71 809 | 71 817 | 71 825 | 71 834 | 71 842 | 8 |
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| 524 | 71 933 | 71 941 | 71 950 | 71 958 | 71 966 | 71 975 | 71 983 | 71 991 | 71 999 | 72 008 | 8 |
| 525 | 72 016 | 72 024 | 72 032 | 72 041 | 72 049 | 72 057 | 72 066 | 72 074 | 72 082 | 72 090 | 8 |
| 526 | 72 099 | 72 107 | 72 115 | 72 123 | 72 132 | 72 140 | 72 148 | 72 156 | 72 165 | 72 173 | 8 |
| 527 | 72 181 | 72 189 | 72 198 | 72 206 | 72 214 | 72 222 | 72 230 | 72 239 | 72 247 | 72 255 | 8 |
| 528 | 72 263 | 72 272 | 72 280 | 72 288 | 72 296 | 72 304 | 72 313 | 72 321 | 72 329 | 72 337 | 8 |
| 529 | 72 346 | 72 354 | 72 362 | 72 370 | 72 378 | 72 387 | 72 395 | 72 403 | 72 411 | 72 419 | 8 |
| 530 | 72 428 | 72 436 | 72 444 | 72 452 | 72 460 | 72 469 | 72 477 | 72 485 | 72 493 | 72 501 | 8 |
| 531 | 72 509 | 72 518 | 72 526 | 72 534 | 72 542 | 72 550 | 72 558 | 72 567 | 72 575 | 72 583 | 8 |
| 532 | 72 591 | 72 599 | 72 607 | 72 616 | 72 624 | 72 632 | 72 640 | 72 648 | 72 656 | 72 665 | 8 |
| 533 | 72 673 | 72 681 | 72 689 | 72 697 | 72 705 | 72 713 | 72 722 | 72 730 | 72 738 | 72 746 | 8 |
| 534 | 72 754 | 72 762 | 72 770 | 72 779 | 72 787 | 72 795 | 72 803 | 72 811 | 72 819 | 72 827 | 8 |
| 535 | 72 835 | 72 843 | 72 852 | 72 860 | 72 868 | 72 876 | 72 884 | 72 892 | 72 900 | 72 908 | 8 |
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| 537 | 72 997 | 73 006 | 73 014 | 73 022 | 73 030 | 73 038 | 73 046 | 73 054 | 73 062 | 73 070 | 8 |
| 538 | 73 078 | 73 086 | 73 094 | 73 102 | 73 111 | 73 119 | 73 127 | 73 135 | 73 143 | 73 151 | 8 |
| 539 | 73 159 | 73 167 | 73 175 | 73 183 | 73 191 | 73 199 | 73 207 | 73 215 | 73 223 | 73 231 | 8 |
| 540 | 73 239 | 73 247 | 73 255 | 73 263 | 73 272 | 73 280 | 73 288 | 73 296 | 73 304 | 73 312 | 8 |
| 541 | 73 320 | 73 328 | 73 336 | 73 344 | 73 352 | 73 360 | 73 368 | 73 376 | 73 384 | 73 392 | 8 |
| 542 | 73 400 | 73 408 | 73 416 | 73 424 | 73 432 | 73 440 | 73 448 | 73 456 | 73 464 | 73 472 | 8 |
| 543 | 73 480 | 73 488 | 73 496 | 73 504 | 73 512 | 73 520 | 73 528 | 73 536 | 73 544 | 73 552 | 8 |
| 544 | 73 560 | 73 568 | 73 576 | 73 584 | 73 592 | 73 600 | 73 608 | 73 616 | 73 624 | 73 632 | 8 |
| 545 | 73 640 | 73 648 | 73 656 | 73 664 | 73 672 | 73 679 | 73 687 | 73 695 | 73 703 | 73 711 | 8 |
| 546 | 73 719 | 73 727 | 73 735 | 73 743 | 73 751 | 73 759 | 73 767 | 73 775 | 73 783 | 73 791 | 8 |
| 547 | 73 799 | 73 807 | 73 815 | 73 823 | 73 830 | 73 838 | 73 846 | 73 854 | 73 862 | 73 870 | 8 |
| 548 | 73 878 | 73 886 | 73 894 | 73 902 | 73 910 | 73 918 | 73 926 | 73 933 | 73 941 | 73 949 | 8 |
| 549 | 73 957 | 73 965 | 73 973 | 73 981 | 73 989 | 73 997 | 74 005 | 74 013 | 74 020 | 74 028 | 8 |
| 550 | 74 036 | 74 044 | 74 052 | 74 060 | 74 068 | 74 076 | 74 084 | 74 092 | 74 099 | 74 107 | 8 |

| N | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | D |
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|---|---|---|---|---|---|---|---|---|---|---|---|

| N | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | D |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|
| 550 | 74 036 | 74 044 | 74 052 | 74 060 | 74 068 | 74 076 | 74 084 | 74 092 | 74 099 | 74 107 | 8 |
| 551 | 74 115 | 74 123 | 74 131 | 74 139 | 74 147 | 74 155 | 74 162 | 74 170 | 74 178 | 74 186 | 8 |
| 552 | 74 194 | 74 202 | 74 210 | 74 218 | 74 225 | 74 233 | 74 241 | 74 249 | 74 257 | 74 265 | 8 |
| 553 | 74 273 | 74 280 | 74 288 | 74 296 | 74 304 | 74 312 | 74 320 | 74 327 | 74 335 | 74 343 | 8 |
| 554 | 74 351 | 74 359 | 74 367 | 74 374 | 74 382 | 74 390 | 74 398 | 74 406 | 74 414 | 74 421 | 8 |
| 555 | 74 429 | 74 437 | 74 445 | 74 453 | 74 461 | 74 468 | 74 476 | 74 484 | 74 492 | 74 500 | 8 |
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| 557 | 74 586 | 74 593 | 74 601 | 74 609 | 74 617 | 74 624 | 74 632 | 74 640 | 74 648 | 74 656 | 8 |
| 558 | 74 663 | 74 671 | 74 679 | 74 687 | 74 695 | 74 702 | 74 710 | 74 718 | 74 726 | 74 733 | 8 |
| 559 | 74 741 | 74 749 | 74 757 | 74 764 | 74 772 | 74 780 | 74 788 | 74 796 | 74 803 | 74 811 | 8 |
| 560 | 74 819 | 74 827 | 74 834 | 74 842 | 74 850 | 74 858 | 74 865 | 74 873 | 74 881 | 74 889 | 8 |
| 561 | 74 896 | 74 904 | 74 912 | 74 920 | 74 927 | 74 935 | 74 943 | 74 950 | 74 958 | 74 966 | 8 |
| 562 | 74 974 | 74 981 | 74 989 | 74 997 | 75 005 | 75 012 | 75 020 | 75 028 | 75 035 | 75 043 | 8 |
| 563 | 75 051 | 75 059 | 75 066 | 75 074 | 75 082 | 75 089 | 75 097 | 75 105 | 75 113 | 75 120 | 8 |
| 564 | 75 128 | 75 136 | 75 143 | 75 151 | 75 159 | 75 166 | 75 174 | 75 182 | 75 189 | 75 197 | 8 |
| 565 | 75 205 | 75 213 | 75 220 | 75 228 | 75 236 | 75 243 | 75 251 | 75 259 | 75 266 | 75 274 | 8 |
| 566 | 75 282 | 75 289 | 75 297 | 75 305 | 75 312 | 75 320 | 75 328 | 75 335 | 75 343 | 75 351 | 8 |
| 567 | 75 358 | 75 366 | 75 374 | 75 381 | 75 389 | 75 397 | 75 404 | 75 412 | 75 420 | 75 427 | 8 |
| 568 | 75 435 | 75 442 | 75 450 | 75 458 | 75 465 | 75 473 | 75 481 | 75 488 | 75 496 | 75 504 | 8 |
| 569 | 75 511 | 75 519 | 75 526 | 75 534 | 75 542 | 75 549 | 75 557 | 75 565 | 75 572 | 75 580 | 8 |
| 570 | 75 587 | 75 595 | 75 603 | 75 610 | 75 618 | 75 626 | 75 633 | 75 641 | 75 648 | 75 656 | 8 |
| 571 | 75 664 | 75 671 | 75 679 | 75 686 | 75 694 | 75 702 | 75 709 | 75 717 | 75 724 | 75 732 | 8 |
| 572 | 75 740 | 75 747 | 75 755 | 75 762 | 75 770 | 75 778 | 75 785 | 75 793 | 75 800 | 75 808 | 8 |
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| 575 | 75 967 | 75 974 | 75 982 | 75 989 | 75 997 | 76 005 | 76 012 | 76 020 | 76 027 | 76 035 | 7+ |
| 576 | 76 042 | 76 050 | 76 057 | 76 065 | 76 072 | 76 080 | 76 087 | 76 095 | 76 103 | 76 110 | 7+ |
| 577 | 76 118 | 76 125 | 76 133 | 76 140 | 76 148 | 76 155 | 76 163 | 76 170 | 76 178 | 76 185 | 7+ |
| 578 | 76 193 | 76 200 | 76 208 | 76 215 | 76 223 | 76 230 | 76 238 | 76 245 | 76 253 | 76 260 | 7+ |
| 579 | 76 268 | 76 275 | 76 283 | 76 290 | 76 298 | 76 305 | 76 313 | 76 320 | 76 328 | 76 335 | 7+ |
| 580 | 76 343 | 76 350 | 76 358 | 76 365 | 76 373 | 76 380 | 76 388 | 76 395 | 76 403 | 76 410 | 7+ |
| 581 | 76 418 | 76 425 | 76 433 | 76 440 | 76 448 | 76 455 | 76 462 | 76 470 | 76 477 | 76 485 | 7+ |
| 582 | 76 492 | 76 500 | 76 507 | 76 515 | 76 522 | 76 530 | 76 537 | 76 545 | 76 552 | 76 559 | 7+ |
| 583 | 76 567 | 76 574 | 76 582 | 76 589 | 76 597 | 76 604 | 76 612 | 76 619 | 76 626 | 76 634 | 7 |
| 584 | 76 641 | 76 649 | 76 656 | 76 664 | 76 671 | 76 678 | 76 686 | 76 693 | 76 701 | 76 708 | 7 |
| 585 | 76 716 | 76 723 | 76 730 | 76 738 | 76 745 | 76 753 | 76 760 | 76 768 | 76 775 | 76 782 | 7 |
| 586 | 76 790 | 76 797 | 76 805 | 76 812 | 76 819 | 76 827 | 76 834 | 76 842 | 76 849 | 76 856 | 7 |
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| 589 | 77 012 | 77 019 | 77 026 | 77 034 | 77 041 | 77 048 | 77 056 | 77 063 | 77 070 | 77 078 | 7 |
| 590 | 77 085 | 77 093 | 77 100 | 77 107 | 77 115 | 77 122 | 77 129 | 77 137 | 77 144 | 77 151 | 7 |
| 591 | 77 159 | 77 166 | 77 173 | 77 181 | 77 188 | 77 195 | 77 203 | 77 210 | 77 217 | 77 225 | 7 |
| 592 | 77 232 | 77 240 | 77 247 | 77 254 | 77 262 | 77 269 | 77 276 | 77 283 | 77 291 | 77 298 | 7 |
| 593 | 77 305 | 77 313 | 77 320 | 77 327 | 77 335 | 77 342 | 77 349 | 77 357 | 77 364 | 77 371 | 7 |
| 594 | 77 379 | 77 386 | 77 393 | 77 401 | 77 408 | 77 415 | 77 422 | 77 430 | 77 337 | 77 444 | 7 |
| 595 | 77 452 | 77 459 | 77 466 | 77 474 | 77 481 | 77 488 | 77 495 | 77 503 | 77 510 | 77 517 | 7 |
| 596 | 77 525 | 77 532 | 77 539 | 77 546 | 77 554 | 77 561 | 77 568 | 77 576 | 77 583 | 77 590 | 7 |
| 597 | 77 597 | 77 605 | 77 612 | 77 619 | 77 627 | 77 634 | 77 641 | 77 648 | 77 656 | 77 663 | 7 |
| 598 | 77 670 | 77 677 | 77 685 | 77 692 | 77 699 | 77 706 | 77 714 | 77 721 | 77 728 | 77 735 | 7 |
| 599 | 77 743 | 77 750 | 77 757 | 77 764 | 77 772 | 77 779 | 77 786 | 77 793 | 77 801 | 77 808 | 7 |
| 600 | 77 815 | 77 822 | 77 830 | 77 837 | 77 844 | 77 851 | 77 859 | 77 866 | 77 873 | 77 880 | 7 |
| N | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |

| N | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | D |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|
| 600 | 77 815 | 77 822 | 77 830 | 77 837 | 77 844 | 77 851 | 77 859 | 77 866 | 77 873 | 77 880 | 7 |
| 601 | 77 887 | 77 895 | 77 902 | 77 909 | 77 916 | 77 924 | 77 931 | 77 938 | 77 945 | 77 952 | 7 |
| 602 | 77 960 | 77 967 | 77 974 | 77 981 | 77 988 | 77 996 | 78 003 | 78 010 | 78 017 | 78 025 | 7 |
| 603 | 78 032 | 78 039 | 78 046 | 78 053 | 78 061 | 78 068 | 78 075 | 78 082 | 78 089 | 78 097 | 7 |
| 604 | 78 104 | 78 111 | 78 118 | 78 125 | 78 132 | 78 140 | 78 147 | 78 154 | 78 161 | 78 168 | 7 |
| 605 | 78 176 | 78 183 | 78 190 | 78 197 | 78 204 | 78 211 | 78 219 | 78 226 | 78 233 | 78 240 | 7 |
| 606 | 78 247 | 78 254 | 78 262 | 78 269 | 78 276 | 78 283 | 78 290 | 78 297 | 78 305 | 78 312 | 7 |
| 607 | 78 319 | 78 326 | 78 333 | 78 340 | 78 347 | 78 355 | 78 362 | 78 369 | 78 376 | 78 383 | 7 |
| 608 | 78 390 | 78 398 | 78 405 | 78 412 | 78 419 | 78 426 | 78 433 | 78 440 | 78 447 | 78 455 | 7 |
| 609 | 78 462 | 78 469 | 78 476 | 78 483 | 78 490 | 78 497 | 78 504 | 78 512 | 78 519 | 78 526 | 7 |
| 610 | 78 533 | 78 540 | 78 547 | 78 554 | 78 561 | 78 569 | 78 576 | 78 583 | 78 590 | 78 597 | 7 |
| 611 | 78 604 | 78 611 | 78 618 | 78 625 | 78 633 | 78 640 | 78 647 | 78 654 | 78 661 | 78 668 | 7 |
| 612 | 78 675 | 78 682 | 78 689 | 78 696 | 78 704 | 78 711 | 78 718 | 78 725 | 78 732 | 78 739 | 7 |
| 613 | 78 746 | 78 753 | 78 760 | 78 767 | 78 774 | 78 781 | 78 789 | 78 796 | 78 803 | 78 810 | 7 |
| 614 | 78 817 | 78 824 | 78 831 | 78 838 | 78 845 | 78 852 | 78 859 | 78 866 | 78 873 | 78 880 | 7 |
| 615 | 78 888 | 78 895 | 78 902 | 78 909 | 78 916 | 78 923 | 78 930 | 78 937 | 78 944 | 78 951 | 7 |
| 616 | 78 958 | 78 965 | 78 972 | 78 979 | 78 986 | 78 993 | 79 000 | 79 007 | 79 014 | 79 021 | 7 |
| 617 | 79 029 | 79 036 | 79 043 | 79 050 | 79 057 | 79 064 | 79 071 | 79 078 | 79 085 | 79 092 | 7 |
| 618 | 79 099 | 79 106 | 79 113 | 79 120 | 79 127 | 79 134 | 79 141 | 79 148 | 79 155 | 79 162 | 7 |
| 619 | 79 169 | 79 176 | 79 183 | 79 190 | 79 197 | 79 204 | 79 211 | 79 218 | 79 225 | 79 232 | 7 |
| 620 | 79 239 | 79 246 | 79 253 | 79 260 | 79 267 | 79 274 | 79 281 | 79 288 | 79 295 | 79 302 | 7 |
| 621 | 79 309 | 79 316 | 79 323 | 79 330 | 79 337 | 79 344 | 79 351 | 79 358 | 79 365 | 79 372 | 7 |
| 622 | 79 379 | 79 386 | 79 393 | 79 400 | 79 407 | 79 414 | 79 421 | 79 428 | 79 435 | 79 442 | 7 |
| 623 | 79 449 | 79 456 | 79 463 | 79 470 | 79 477 | 79 484 | 79 491 | 79 498 | 79 505 | 79 511 | 7 |
| 624 | 79 518 | 79 525 | 79 532 | 79 539 | 79 546 | 79 553 | 79 560 | 79 567 | 79 574 | 79 581 | 7 |
| 625 | 79 588 | 79 595 | 79 602 | 79 609 | 79 616 | 79 623 | 79 630 | 79 637 | 79 644 | 79 650 | 7 |
| 626 | 79 657 | 79 664 | 79 671 | 79 678 | 79 685 | 79 692 | 79 699 | 79 706 | 79 713 | 79 720 | 7 |
| 627 | 79 727 | 79 734 | 79 741 | 79 748 | 79 754 | 79 761 | 79 768 | 79 775 | 79 782 | 79 789 | 7 |
| 628 | 79 796 | 79 803 | 79 810 | 79 817 | 79 824 | 79 831 | 79 837 | 79 844 | 79 851 | 79 858 | 7 |
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| 631 | 80 003 | 80 010 | 80 017 | 80 024 | 80 030 | 80 037 | 80 044 | 80 051 | 80 058 | 80 065 | 7 |
| 632 | 80 072 | 80 079 | 80 085 | 80 092 | 80 099 | 80 106 | 80 113 | 80 120 | 80 127 | 80 134 | 7 |
| 633 | 80 140 | 80 147 | 80 154 | 80 161 | 80 168 | 80 175 | 80 182 | 80 188 | 80 195 | 80 202 | 7 |
| 634 | 80 209 | 80 216 | 80 223 | 80 229 | 80 236 | 80 243 | 80 250 | 80 257 | 80 264 | 80 271 | 7 |
| 635 | 80 277 | 80 284 | 80 291 | 80 298 | 80 305 | 80 312 | 80 318 | 80 325 | 80 332 | 80 339 | 7 |
| 636 | 80 346 | 80 353 | 80 359 | 80 366 | 80 373 | 80 380 | 80 387 | 80 393 | 80 400 | 80 407 | 7 |
| 637 | 80 414 | 80 421 | 80 428 | 80 434 | 80 441 | 80 448 | 80 455 | 80 462 | 80 468 | 80 475 | 7 |
| 638 | 80 482 | 80 489 | 80 496 | 80 502 | 80 509 | 80 516 | 80 523 | 80 530 | 80 536 | 80 543 | 7 |
| 639 | 80 550 | 80 557 | 80 564 | 80 570 | 80 577 | 80 584 | 80 591 | 80 598 | 80 604 | 80 611 | 7 |
| 640 | 80 618 | 80 625 | 80 632 | 80 638 | 80 645 | 80 652 | 80 659 | 80 665 | 80 672 | 80 679 | 7 |
| 641 | 80 686 | 80 693 | 80 699 | 80 706 | 80 713 | 80 720 | 80 726 | 80 733 | 80 740 | 80 747 | 7 |
| 642 | 80 754 | 80 760 | 80 767 | 80 774 | 80 781 | 80 787 | 80 794 | 80 801 | 80 808 | 80 814 | 7 |
| 643 | 80 821 | 80 828 | 80 835 | 80 841 | 80 848 | 80 855 | 80 862 | 80 868 | 80 875 | 80 882 | 7 |
| 644 | 80 889 | 80 895 | 80 902 | 80 909 | 80 916 | 80 922 | 80 929 | 80 936 | 80 943 | 80 949 | 7 |
| 645 | 80 956 | 80 963 | 80 969 | 80 976 | 80 983 | 80 990 | 80 996 | 81 003 | 81 010 | 81 017 | 7 |
| 646 | 81 023 | 81 030 | 81 037 | 81 043 | 81 050 | 81 057 | 81 064 | 81 070 | 81 077 | 81 084 | 7 |
| 647 | 81 090 | 81 097 | 81 104 | 81 111 | 81 117 | 81 124 | 81 131 | 81 137 | 81 144 | 81 151 | 7 |
| 648 | 81 158 | 81 164 | 81 171 | 81 178 | 81 184 | 81 191 | 81 198 | 81 204 | 81 211 | 81 218 | 7 |
| 649 | 81 224 | 81 231 | 81 238 | 81 245 | 81 251 | 81 258 | 81 265 | 81 271 | 81 278 | 81 285 | 7 |
| 650 | 81 291 | 81 298 | 81 305 | 81 311 | 81 318 | 81 325 | 81 331 | 81 338 | 81 345 | 81 351 | 7 |
| N | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |

| N | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | D |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|
| 650 | 81 291 | 81 298 | 81 305 | 81 311 | 81 318 | 81 325 | 81 331 | 81 338 | 81 345 | 81 351 | 7 |
| 651 | 81 358 | 81 365 | 81 371 | 81 378 | 81 385 | 81 391 | 81 398 | 81 405 | 81 411 | 81 418 | 7 |
| 652 | 81 425 | 81 431 | 81 438 | 81 445 | 81 451 | 81 458 | 81 465 | 81 471 | 81 478 | 81 485 | 7 |
| 653 | 81 491 | 81 498 | 81 505 | 81 511 | 81 518 | 81 525 | 81 531 | 81 538 | 81 544 | 81 551 | 7 |
| 654 | 81 558 | 81 564 | 81 571 | 81 578 | 81 584 | 81 591 | 81 598 | 81 604 | 81 611 | 81 617 | 7 |
| 655 | 81 624 | 81 631 | 81 637 | 81 644 | 81 651 | 81 657 | 81 664 | 81 671 | 81 677 | 81 684 | 7 |
| 656 | 81 690 | 81 697 | 81 704 | 81 710 | 81 717 | 81 723 | 81 730 | 81 737 | 81 743 | 81 750 | 7 |
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| 659 | 81 889 | 81 895 | 81 902 | 81 908 | 81 915 | 81 921 | 81 928 | 81 935 | 81 941 | 81 948 | 7 |
| 660 | 81 954 | 81 961 | 81 968 | 81 974 | 81 981 | 81 987 | 81 994 | 82 000 | 82 007 | 82 014 | 7 |
| 661 | 82 020 | 82 027 | 82 033 | 82 040 | 82 046 | 82 053 | 82 060 | 82 066 | 82 073 | 82 079 | 7 |
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| 663 | 82 151 | 82 158 | 82 164 | 82 171 | 82 178 | 82 184 | 82 191 | 82 197 | 82 204 | 82 210 | 6 |
| 664 | 82 217 | 82 223 | 82 230 | 82 236 | 82 243 | 82 249 | 82 256 | 82 263 | 82 269 | 82 276 | 6+ |
| 665 | 82 282 | 82 289 | 82 295 | 82 302 | 82 308 | 82 315 | 82 321 | 82 328 | 82 334 | 82 341 | 6+ |
| 666 | 82 347 | 82 354 | 82 360 | 82 367 | 82 373 | 82 380 | 82 387 | 82 393 | 82 400 | 82 406 | 6+ |
| 667 | 82 413 | 82 419 | 82 426 | 82 432 | 82 439 | 82 445 | 82 452 | 82 458 | 82 465 | 82 471 | 6+ |
| 668 | 82 478 | 82 484 | 82 491 | 82 497 | 82 504 | 82 510 | 82 517 | 82 523 | 82 530 | 82 536 | 6+ |
| 669 | 82 543 | 82 549 | 82 556 | 82 562 | 82 569 | 82 575 | 82 582 | 82 588 | 82 595 | 82 601 | 6+ |
| 670 | 82 607 | 82 614 | 82 620 | 82 627 | 82 633 | 82 640 | 82 646 | 82 653 | 82 659 | 82 666 | 6+ |
| 671 | 82 672 | 82 679 | 82 685 | 82 692 | 82 698 | 82 705 | 82 711 | 82 718 | 82 724 | 82 730 | 6+ |
| 672 | 82 737 | 82 743 | 82 750 | 82 756 | 82 763 | 82 769 | 82 776 | 82 782 | 82 789 | 82 795 | 6+ |
| 673 | 82 802 | 82 808 | 82 814 | 82 821 | 82 827 | 82 834 | 82 840 | 82 847 | 82 853 | 82 860 | 6 |
| 674 | 82 866 | 82 872 | 82 879 | 82 885 | 82 892 | 82 898 | 82 905 | 82 911 | 82 918 | 82 924 | 6 |
| 675 | 82 930 | 82 937 | 82 943 | 82 950 | 82 956 | 82 963 | 82 969 | 82 975 | 82 982 | 82 988 | 6 |
| 676 | 82 995 | 83 001 | 83 008 | 83 014 | 83 020 | 83 027 | 83 033 | 83 040 | 83 046 | 83 052 | 6 |
| 677 | 83 059 | 83 065 | 83 072 | 83 078 | 83 085 | 83 091 | 83 097 | 83 104 | 83 110 | 83 117 | 6 |
| 678 | 83 123 | 83 129 | 83 136 | 83 142 | 83 149 | 83 155 | 83 161 | 83 168 | 83 174 | 83 181 | 6 |
| 679 | 83 187 | 83 193 | 83 200 | 83 206 | 83 213 | 83 219 | 83 225 | 83 232 | 83 238 | 83 245 | 6 |
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| 681 | 83 315 | 83 321 | 83 327 | 83 334 | 83 340 | 83 347 | 83 353 | 83 359 | 83 366 | 83 372 | 6 |
| 682 | 83 378 | 83 385 | 83 391 | 83 398 | 83 404 | 83 410 | 83 417 | 83 423 | 83 429 | 83 436 | 6 |
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| 685 | 83 569 | 83 575 | 83 582 | 83 588 | 83 594 | 83 601 | 83 607 | 83 613 | 83 620 | 83 626 | 6 |
| 686 | 83 632 | 83 639 | 83 645 | 83 651 | 83 658 | 83 664 | 83 670 | 83 677 | 83 683 | 83 689 | 6 |
| 687 | 83 696 | 83 702 | 83 708 | 83 715 | 83 721 | 83 727 | 83 734 | 83 740 | 83 746 | 83 753 | 6 |
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| 692 | 84 011 | 84 017 | 84 023 | 84 029 | 84 036 | 84 042 | 84 048 | 84 055 | 84 061 | 84 067 | 6 |
| 693 | 84 073 | 84 080 | 84 086 | 84 092 | 84 098 | 84 105 | 84 111 | 84 117 | 84 123 | 84 130 | 6 |
| 694 | 84 136 | 84 142 | 84 148 | 84 155 | 84 161 | 84 167 | 84 173 | 84 180 | 84 186 | 84 192 | 6 |
| 695 | 84 198 | 84 205 | 84 211 | 84 217 | 84 223 | 84 230 | 84 236 | 84 242 | 84 248 | 84 255 | 6 |
| 696 | 84 261 | 84 267 | 84 273 | 84 280 | 84 286 | 84 292 | 84 298 | 84 305 | 84 311 | 84 317 | 6 |
| 697 | 84 323 | 84 330 | 84 336 | 84 342 | 84 348 | 84 354 | 84 361 | 84 367 | 84 373 | 84 379 | 6 |
| 698 | 84 386 | 84 392 | 84 398 | 84 404 | 84 410 | 84 417 | 84 423 | 84 429 | 84 435 | 84 442 | 6 |
| 699 | 84 448 | 84 454 | 84 460 | 84 466 | 84 473 | 84 479 | 84 485 | 84 491 | 84 497 | 84 504 | 6 |
| 700 | 84 510 | 84 516 | 84 522 | 84 528 | 84 535 | 84 541 | 84 547 | 84 553 | 84 559 | 84 566 | 6 |

| N | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | D |
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| N | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | D |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|
| 700 | 84 510 | 84 516 | 84 522 | 84 528 | 84 535 | 84 541 | 84 547 | 84 553 | 84 559 | 84 566 | 6 |
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| 702 | 84 634 | 84 640 | 84 646 | 84 652 | 84 658 | 84 665 | 84 671 | 84 677 | 84 683 | 84 689 | 6 |
| 703 | 84 696 | 84 702 | 84 708 | 84 714 | 84 720 | 84 726 | 84 733 | 84 739 | 84 745 | 84 751 | 6 |
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| 706 | 84 880 | 84 887 | 84 893 | 84 899 | 84 905 | 84 911 | 84 917 | 84 924 | 84 930 | 84 936 | 6 |
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| 728 | 86 213 | 86 219 | 86 225 | 86 231 | 86 237 | 86 243 | 86 249 | 86 255 | 86 261 | 86 267 | 6 |
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| 743 | 87 099 | 87 105 | 87 111 | 87 116 | 87 122 | 87 128 | 87 134 | 87 140 | 87 146 | 87 151 | 6 |
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| 745 | 87 216 | 87 221 | 87 227 | 87 233 | 87 239 | 87 245 | 87 251 | 87 256 | 87 262 | 87 268 | 6 |
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| 748 | 87 390 | 87 396 | 87 402 | 87 408 | 87 413 | 87 419 | 87 425 | 87 431 | 87 437 | 87 442 | 6 |
| 749 | 87 448 | 87 454 | 87 460 | 87 466 | 87 471 | 87 477 | 87 483 | 87 489 | 87 495 | 87 500 | 6 |
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| N | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |

| N | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | D |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|
| 750 | 87 506 | 87 512 | 87 518 | 87 523 | 87 529 | 87 535 | 87 541 | 87 547 | 87 552 | 87 558 | 6 |
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| 755 | 87 795 | 87 800 | 87 806 | 87 812 | 87 818 | 87 823 | 87 829 | 87 835 | 87 841 | 87 846 | 6 |
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| 757 | 87 910 | 87 915 | 87 921 | 87 927 | 87 933 | 87 938 | 87 944 | 87 950 | 87 955 | 87 961 | 6 |
| 758 | 87 967 | 87 973 | 87 978 | 87 984 | 87 990 | 87 996 | 88 001 | 88 007 | 88 013 | 88 018 | 6 |
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| 760 | 88 081 | 88 087 | 88 093 | 88 098 | 88 104 | 88 110 | 88 116 | 88 121 | 88 127 | 88 133 | 6 |
| 761 | 88 138 | 88 144 | 88 150 | 88 156 | 88 161 | 88 167 | 88 173 | 88 178 | 88 184 | 88 190 | 6 |
| 762 | 88 195 | 88 201 | 88 207 | 88 213 | 88 218 | 88 224 | 88 230 | 88 235 | 88 241 | 88 247 | 6 |
| 763 | 88 252 | 88 258 | 88 264 | 88 270 | 88 275 | 88 281 | 88 287 | 88 292 | 88 298 | 88 304 | 6 |
| 764 | 88 309 | 88 315 | 88 321 | 88 326 | 88 332 | 88 338 | 88 343 | 88 349 | 88 355 | 88 360 | 6 |
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| 767 | 88 480 | 88 485 | 88 491 | 88 497 | 88 502 | 88 508 | 88 513 | 88 519 | 88 525 | 88 530 | 6 |
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| 769 | 88 593 | 88 598 | 88 604 | 88 610 | 88 615 | 88 621 | 88 627 | 88 632 | 88 638 | 88 643 | 6 |
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| 775 | 88 930 | 88 936 | 88 941 | 88 947 | 88 953 | 88 958 | 88 964 | 88 969 | 88 975 | 88 981 | 6 |
| 776 | 88 986 | 88 992 | 88 997 | 89 003 | 89 009 | 89 014 | 89 020 | 89 025 | 89 031 | 89 037 | 6 |
| 777 | 89 042 | 89 048 | 89 053 | 89 059 | 89 064 | 89 070 | 89 076 | 89 081 | 89 087 | 89 092 | 6 |
| 778 | 89 098 | 89 104 | 89 109 | 89 115 | 89 120 | 89 126 | 89 131 | 89 137 | 89 143 | 89 148 | 6 |
| 779 | 89 154 | 89 159 | 89 165 | 89 170 | 89 176 | 89 182 | 89 187 | 89 193 | 89 198 | 89 204 | 6 |
| 780 | 89 209 | 89 215 | 89 221 | 89 226 | 89 232 | 89 237 | 89 243 | 89 248 | 89 254 | 89 260 | 6 |
| 781 | 89 265 | 89 271 | 89 276 | 89 282 | 89 287 | 89 293 | 89 298 | 89 304 | 89 310 | 89 315 | 6 |
| 782 | 89 321 | 89 326 | 89 332 | 89 337 | 89 343 | 89 348 | 89 354 | 89 360 | 89 365 | 89 371 | 6 |
| 783 | 89 376 | 89 382 | 89 387 | 89 393 | 89 398 | 89 404 | 89 409 | 89 415 | 89 421 | 89 426 | 5+ |
| 784 | 89 432 | 89 437 | 89 443 | 89 448 | 89 454 | 89 459 | 89 465 | 89 470 | 89 476 | 89 481 | 5+ |
| 785 | 89 487 | 89 492 | 89 498 | 89 504 | 89 509 | 89 515 | 89 520 | 89 526 | 89 531 | 89 537 | 5+ |
| 786 | 89 542 | 89 548 | 89 553 | 89 559 | 89 564 | 89 570 | 89 575 | 89 581 | 89 586 | 89 592 | 5+ |
| 787 | 89 597 | 89 603 | 89 609 | 89 614 | 89 620 | 89 625 | 89 631 | 89 636 | 89 642 | 89 647 | 5+ |
| 788 | 89 653 | 89 658 | 89 664 | 89 669 | 89 675 | 89 680 | 89 686 | 89 691 | 89 697 | 89 702 | 5+ |
| 789 | 89 708 | 89 713 | 89 719 | 89 724 | 89 730 | 89 735 | 89 741 | 89 746 | 89 752 | 89 757 | 5+ |
| 790 | 89 763 | 89 768 | 89 774 | 89 779 | 89 785 | 89 790 | 89 796 | 89 801 | 89 807 | 89 812 | 5+ |
| 791 | 89 818 | 89 823 | 89 829 | 89 834 | 89 840 | 89 845 | 86 851 | 89 856 | 89 862 | 89 867 | 5+ |
| 792 | 89 873 | 89 878 | 89 883 | 89 889 | 89 894 | 89 900 | 89 905 | 89 911 | 89 916 | 89 922 | 5+ |
| 793 | 89 927 | 89 933 | 89 938 | 89 944 | 89 949 | 89 955 | 89 960 | 89 966 | 89 971 | 89 977 | 5+ |
| 794 | 89 982 | 89 988 | 89 993 | 89 998 | 90 004 | 90 009 | 90 015 | 90 020 | 90 026 | 90 031 | 5+ |
| 795 | 90 037 | 90 042 | 90 048 | 90 053 | 90 059 | 90 064 | 90 069 | 90 075 | 90 080 | 90 086 | 5+ |
| 796 | 90 091 | 90 097 | 90 102 | 90 108 | 90 113 | 90 119 | 90 124 | 90 129 | 90 135 | 90 140 | 5+ |
| 797 | 90 146 | 90 151 | 90 157 | 90 162 | 90 168 | 90 173 | 90 179 | 90 184 | 90 189 | 90 195 | 5 |
| 798 | 90 200 | 90 206 | 90 211 | 90 217 | 90 222 | 90 227 | 90 233 | 90 238 | 90 244 | 90 249 | 5 |
| 799 | 90 255 | 90 260 | 90 266 | 90 271 | 90 276 | 90 282 | 90 287 | 90 293 | 90 298 | 90 304 | 5 |
| 800 | 90 309 | 90 314 | 90 320 | 90 325 | 90 331 | 90 336 | 90 342 | 90 347 | 90 352 | 90 358 | 5 |
| N | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |

| N | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | D |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|
| 800 | 90 309 | 90 314 | 90 320 | 90 325 | 90 331 | 90 336 | 90 342 | 90 347 | 90 352 | 90 358 | 5 |
| 801 | 90 363 | 90 369 | 90 374 | 90 380 | 90 385 | 90 390 | 90 396 | 90 401 | 90 407 | 90 412 | 5 |
| 802 | 90 417 | 90 423 | 90 428 | 90 434 | 90 439 | 90 445 | 90 450 | 90 455 | 90 461 | 90 466 | 5 |
| 803 | 90 472 | 90 477 | 90 482 | 90 488 | 90 493 | 90 499 | 90 504 | 90 509 | 90 515 | 90 520 | 5 |
| 804 | 90 526 | 90 531 | 90 536 | 90 542 | 90 547 | 90 553 | 90 558 | 90 563 | 90 569 | 90 574 | 5 |
| 805 | 90 580 | 90 585 | 90 590 | 90 596 | 90 601 | 90 607 | 90 612 | 90 617 | 90 623 | 90 628 | 5 |
| 806 | 90 634 | 90 639 | 90 644 | 90 650 | 90 655 | 90 660 | 90 666 | 90 671 | 90 677 | 90 682 | 5 |
| 807 | 90 687 | 90 693 | 90 698 | 90 703 | 90 709 | 90 714 | 90 720 | 90 725 | 90 730 | 90 736 | 5 |
| 808 | 90 741 | 90 747 | 90 752 | 90 757 | 90 763 | 90 768 | 90 773 | 90 779 | 90 784 | 90 789 | 5 |
| 809 | 90 795 | 90 800 | 90 806 | 90 811 | 90 816 | 90 822 | 90 827 | 90 832 | 90 838 | 90 843 | 5 |
| 810 | 90 849 | 90 854 | 90 859 | 90 865 | 90 870 | 90 875 | 90 881 | 90 886 | 90 891 | 90 897 | 5 |
| 811 | 90 902 | 90 907 | 90 913 | 90 918 | 90 924 | 90 929 | 90 934 | 90 940 | 90 945 | 90 950 | 5 |
| 812 | 90 956 | 90 961 | 90 966 | 90 972 | 90 977 | 90 982 | 90 988 | 90 993 | 90 998 | 91 004 | 5 |
| 813 | 91 009 | 91 014 | 91 020 | 91 025 | 91 030 | 91 036 | 91 041 | 91 046 | 91 052 | 91 057 | 5 |
| 814 | 91 062 | 91 068 | 91 073 | 91 078 | 91 084 | 91 089 | 91 094 | 91 100 | 91 105 | 91 110 | 5 |
| 815 | 91 116 | 91 121 | 91 126 | 91 132 | 91 137 | 91 142 | 91 148 | 91 153 | 91 158 | 91 164 | 5 |
| 816 | 91 169 | 91 174 | 91 180 | 91 185 | 91 190 | 91 196 | 91 201 | 91 206 | 91 212 | 91 217 | 5 |
| 817 | 91 222 | 91 228 | 91 233 | 91 238 | 91 243 | 91 249 | 91 254 | 91 259 | 91 265 | 91 270 | 5 |
| 818 | 91 275 | 91 281 | 91 286 | 91 291 | 91 297 | 91 302 | 91 307 | 91 312 | 91 318 | 91 323 | 5 |
| 819 | 91 328 | 91 334 | 91 339 | 91 344 | 91 350 | 91 355 | 91 360 | 91 365 | 91 371 | 91 376 | 5 |
| 820 | 91 381 | 91 387 | 91 392 | 91 397 | 91 403 | 91 408 | 91 413 | 91 418 | 91 424 | 91 429 | 5 |
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| 822 | 91 487 | 91 492 | 91 498 | 91 503 | 91 508 | 91 514 | 91 519 | 91 524 | 91 529 | 91 535 | 5 |
| 823 | 91 540 | 91 545 | 91 551 | 91 556 | 91 561 | 91 566 | 91 572 | 91 577 | 91 582 | 91 587 | 5 |
| 824 | 91 593 | 91 598 | 91 603 | 91 609 | 91 614 | 91 619 | 91 624 | 91 630 | 91 635 | 91 640 | 5 |
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| 832 | 92 012 | 92 018 | 92 023 | 92 028 | 92 033 | 92 038 | 92 044 | 92 049 | 92 054 | 92 059 | 5 |
| 833 | 92 065 | 92 070 | 92 075 | 92 080 | 92 085 | 92 091 | 92 096 | 92 101 | 92 106 | 92 111 | 5 |
| 834 | 92 117 | 92 122 | 92 127 | 92 132 | 92 137 | 92 143 | 92 148 | 92 153 | 92 158 | 92 163 | 5 |
| 835 | 92 169 | 92 174 | 92 179 | 92 184 | 92 189 | 92 195 | 92 200 | 92 205 | 92 210 | 92 215 | 5 |
| 836 | 92 221 | 92 226 | 92 231 | 92 236 | 92 241 | 92 247 | 92 252 | 92 257 | 92 262 | 92 267 | 5 |
| 837 | 92 273 | 92 278 | 92 283 | 92 288 | 92 293 | 92 298 | 92 304 | 92 309 | 92 314 | 92 319 | 5 |
| 838 | 92 324 | 92 330 | 92 335 | 92 340 | 92 345 | 92 350 | 92 355 | 92 361 | 92 366 | 92 371 | 5 |
| 839 | 92 376 | 92 381 | 92 387 | 92 392 | 92 397 | 92 402 | 92 407 | 92 412 | 92 418 | 92 423 | 5 |
| 840 | 92 428 | 92 433 | 92 438 | 92 443 | 92 449 | 92 454 | 92 459 | 92 464 | 92 469 | 92 474 | 5 |
| 841 | 92 480 | 92 485 | 92 490 | 92 495 | 92 500 | 92 505 | 92 511 | 92 516 | 92 521 | 92 526 | 5 |
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| 843 | 92 583 | 92 588 | 92 593 | 92 598 | 92 603 | 92 609 | 92 614 | 92 619 | 92 624 | 92 629 | 5 |
| 844 | 92 634 | 92 639 | 92 645 | 92 650 | 92 655 | 92 660 | 92 665 | 92 670 | 92 675 | 92 681 | 5 |
| 845 | 92 686 | 92 691 | 92 696 | 92 701 | 92 706 | 92 711 | 92 716 | 92 722 | 92 727 | 92 732 | 5 |
| 846 | 92 737 | 92 742 | 92 747 | 92 752 | 92 758 | 92 763 | 92 768 | 92 773 | 92 778 | 92 783 | 5 |
| 847 | 92 788 | 92 793 | 92 799 | 92 804 | 92 809 | 92 814 | 92 819 | 92 824 | 92 829 | 92 834 | 5 |
| 848 | 92 840 | 92 845 | 92 850 | 92 855 | 92 860 | 92 865 | 92 870 | 92 875 | 92 881 | 92 886 | 5 |
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| 850 | 92 942 | 92 947 | 92 952 | 92 957 | 92 962 | 92 967 | 92 973 | 92 978 | 92 983 | 92 988 | 5 |

| N | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
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| N | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | D |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|
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| 852 | 93 044 | 93 049 | 93 054 | 93 059 | 93 064 | 93 069 | 93 075 | 93 080 | 93 085 | 93 090 | 5 |
| 853 | 93 095 | 93 100 | 93 105 | 93 110 | 93 115 | 93 120 | 93 125 | 93 131 | 93 136 | 93 141 | 5 |
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| 857 | 93 298 | 93 303 | 93 308 | 93 313 | 93 318 | 93 323 | 93 328 | 93 334 | 93 339 | 93 344 | 5 |
| 858 | 93 349 | 93 354 | 93 359 | 93 364 | 93 369 | 93 374 | 93 379 | 93 384 | 93 389 | 93 394 | 5 |
| 859 | 93 399 | 93 304 | 93 409 | 93 414 | 93 420 | 93 425 | 93 430 | 93 435 | 93 440 | 93 445 | 5 |
| 860 | 93 450 | 93 455 | 93 460 | 93 465 | 93 470 | 93 475 | 93 480 | 93 485 | 93 490 | 93 495 | 5 |
| 861 | 93 500 | 93 505 | 93 510 | 93 515 | 93 520 | 93 526 | 93 531 | 93 536 | 93 541 | 93 546 | 5 |
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| 863 | 93 601 | 93 606 | 93 611 | 93 616 | 93 621 | 93 626 | 93 631 | 93 636 | 93 641 | 93 646 | 5 |
| 864 | 93 651 | 93 656 | 93 661 | 93 666 | 93 671 | 93 676 | 93 682 | 93 687 | 93 692 | 93 697 | 5 |
| 865 | 93 702 | 93 707 | 93 712 | 93 717 | 93 722 | 93 727 | 93 732 | 93 737 | 93 742 | 93 747 | 5 |
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ANSWERS.

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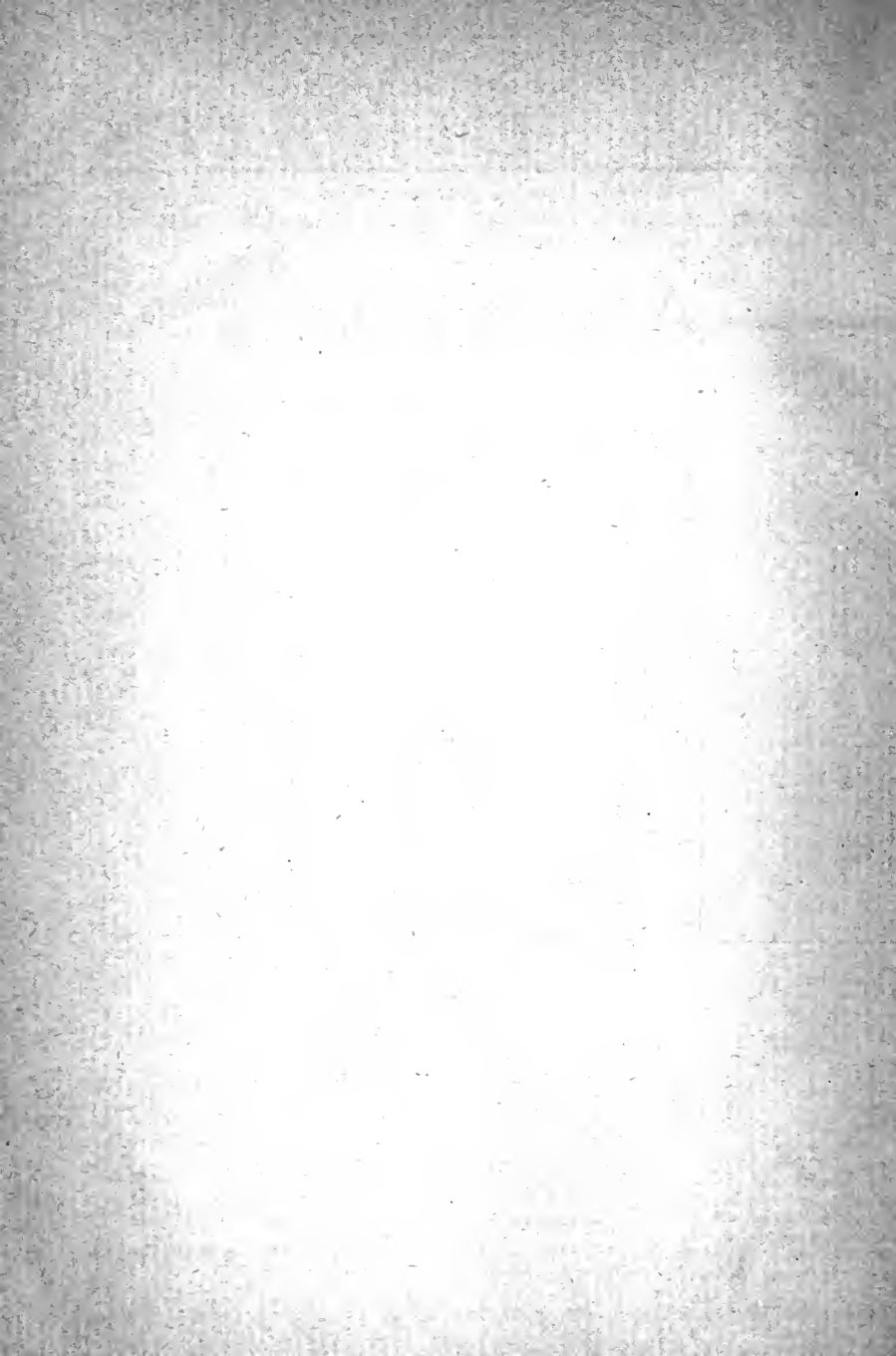
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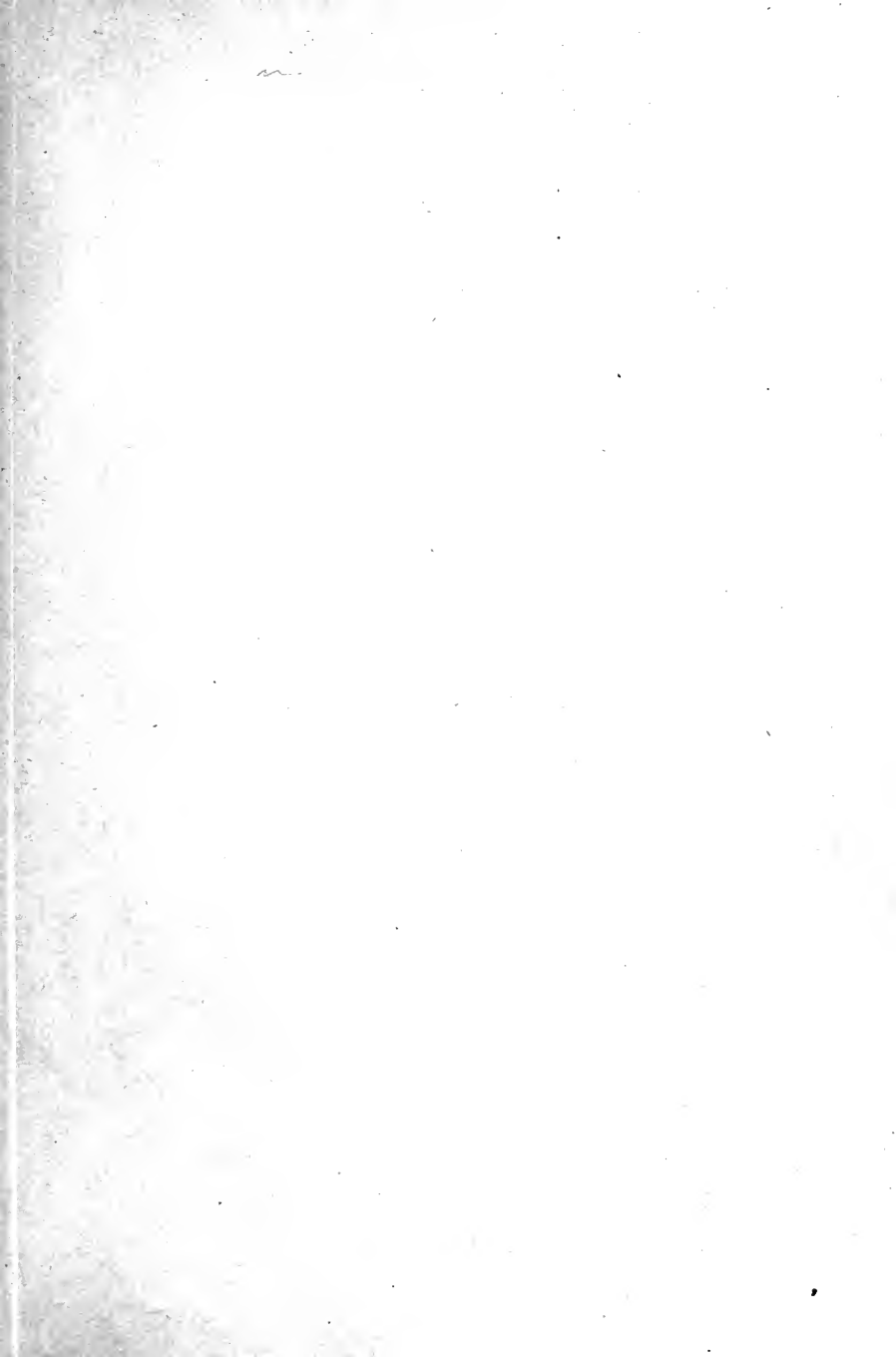
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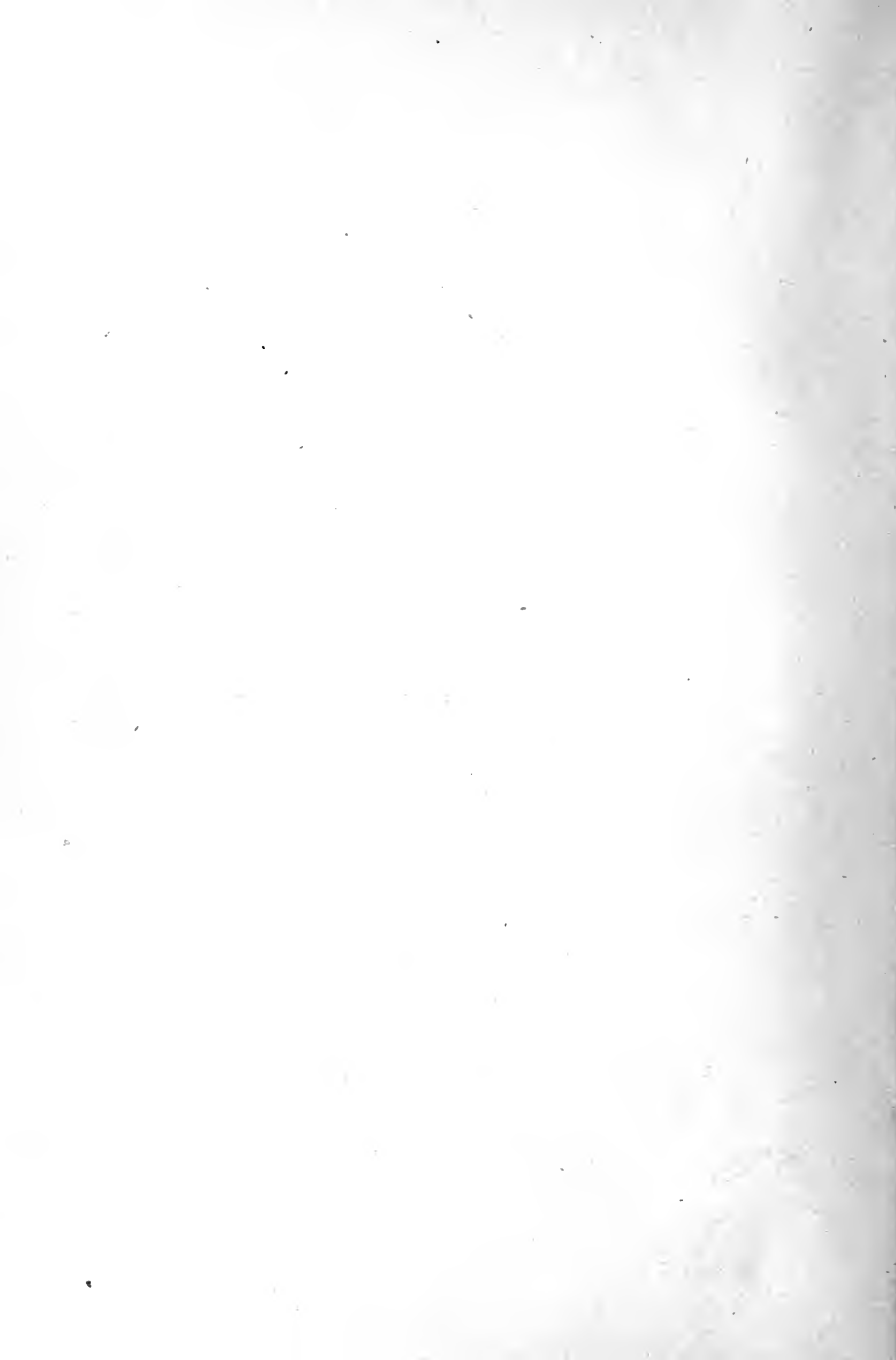
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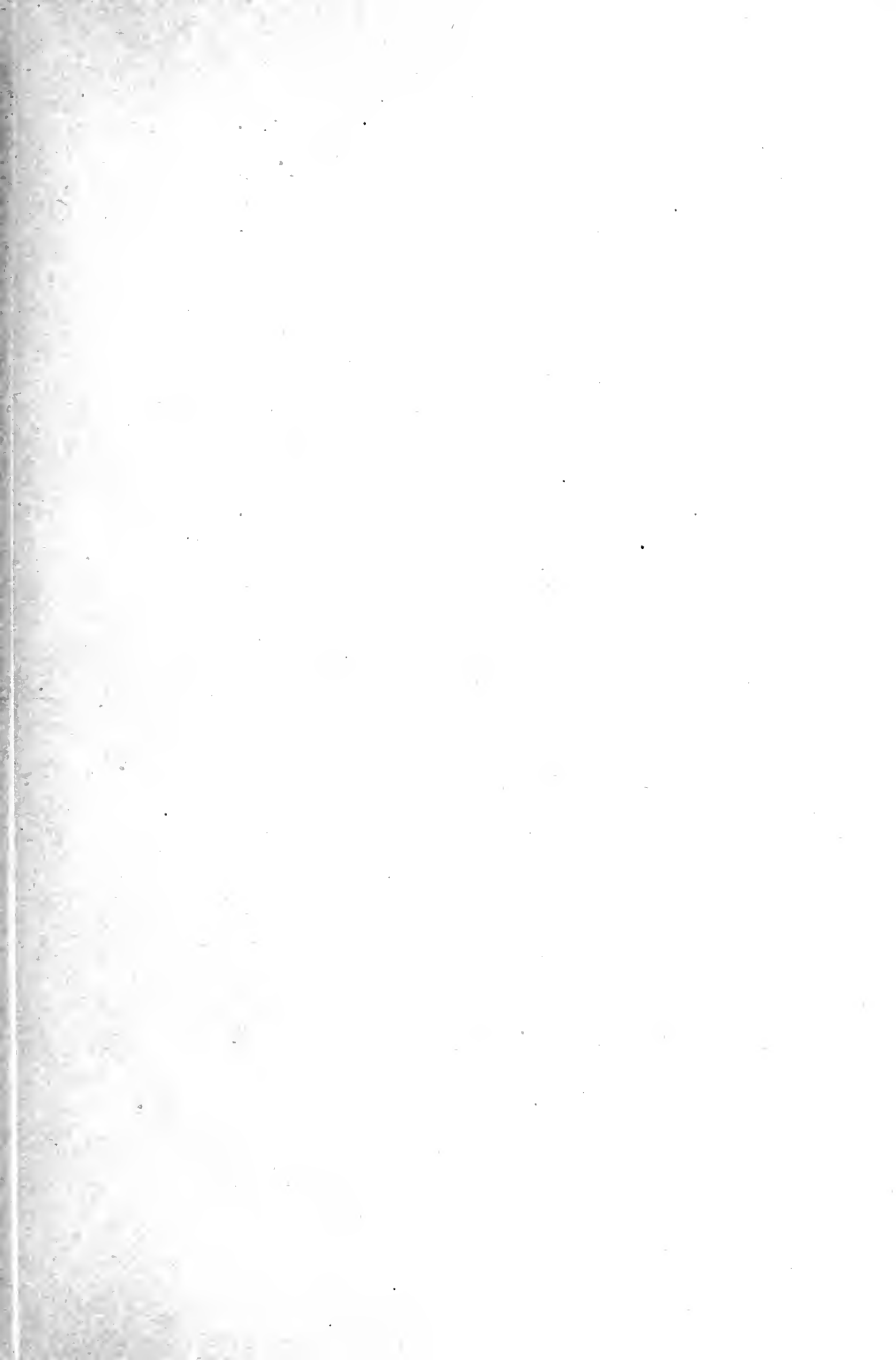
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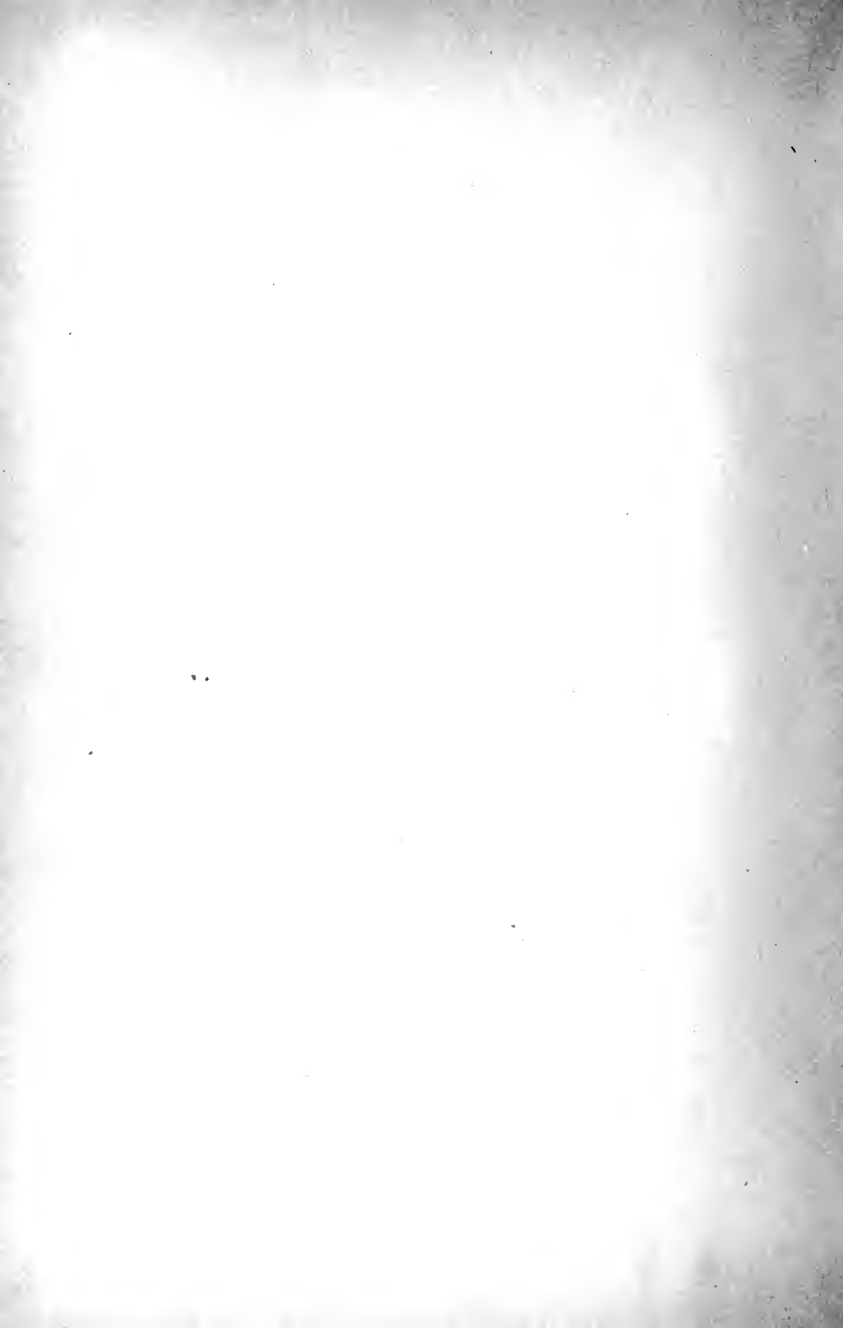


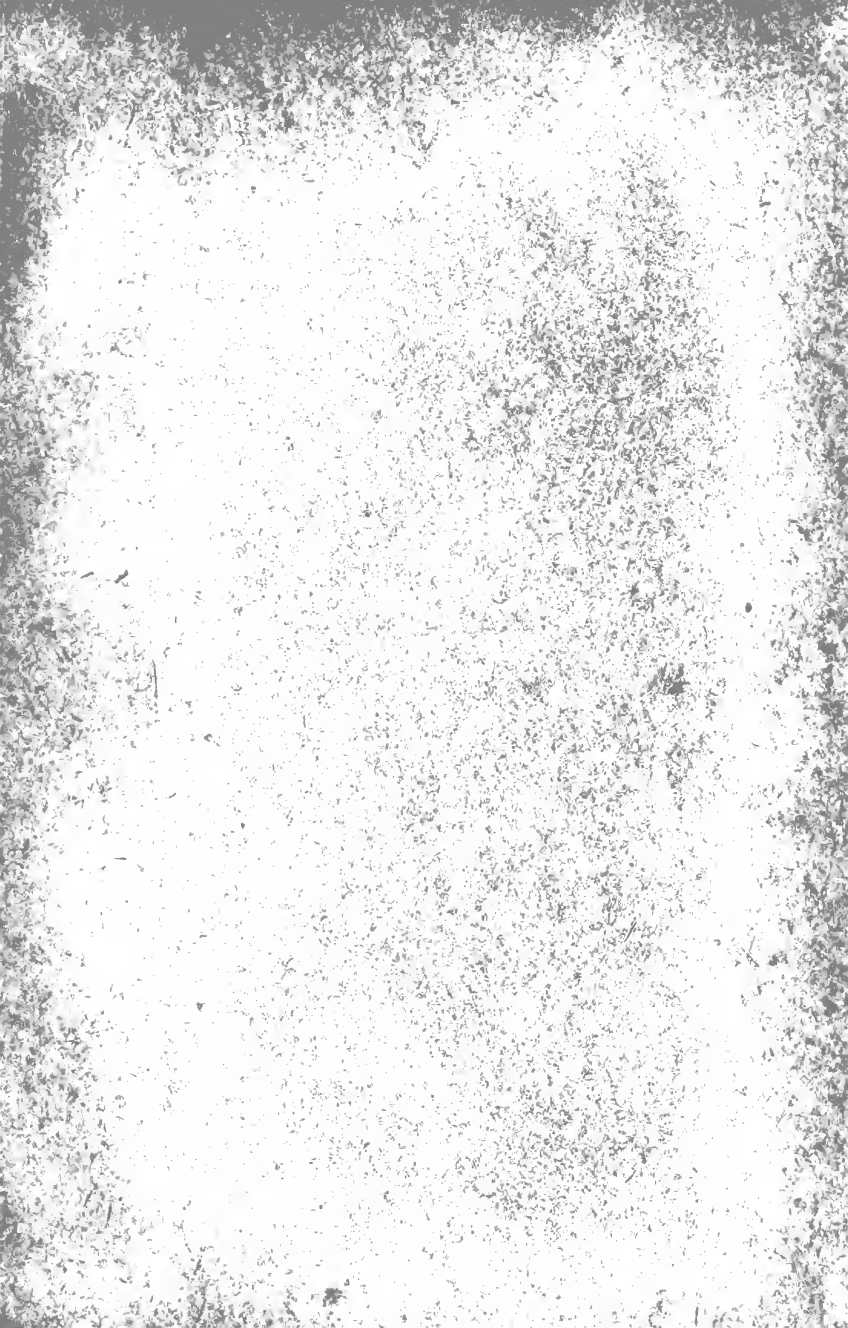












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