Received 12/02/15

Single Digit Representations of Natural Numbers

Inder J. Taneja[1]

Abstract. In this work, we established symmetric representation of numbers where one can use any of 9 digits giving the same number. The representations of natural numbers from 0 to 1000 are given using only single digit in all the nine cases, i.e., 1, 2, 3, 4, 5, 6, 7, 8 and 9. This is done only using basic operations: *addition, subtraction, multiplication, potentiation* and *division*.

1. Introduction

Let a be a single digit positive natural numbers, i.e, $a \in \{1, 2, 3, 4, 5, 6, 7, 8, 9\}$. We can always write

$$0 = a - a;$$
$$1 = \frac{a}{a};$$
$$2 = \frac{a+a}{a};$$
$$3 = \frac{a+a+a}{a};$$
$$4 = \frac{a+a+a+a}{a};$$
$$5 = \frac{a+a+a+a+a}{a},$$
$$6 = \frac{a+a+a+a+a+a}{a};$$

...

We observe that as number increases, one need more digits to write. But it is not true, for example to write 10, we can write as $10 = 11 - 1 = 2 \times 2 \times 2 + 2$. Here we need only 3 digits for 1 and four digits for 2.

Author [7] studied representations of natural numbers using the digits from 1 to 9 in increasing and decreasing orders. For comments see [1, 2, 5, 6]. Historical study of numbers and their properties can be found in [3, 4]. Study of numbers in little different way calling *"selfie numbers"* is given by author [8].

The aim of this work is to write natural numbers from 0 to 1000 in terms of each digits 1, 2, 3, 4, 5, 6, 7, 8 and 9, with *"as less as possible digits"*, using only the basic operations:

$$[\textit{addition, subtraction, multiplication, division, potentiation}].$$

Before proceeding further, here below ares some numbers that can be represented in a symmetric way using any of 9 digits from 1 to 9.

2. Symmetrical Relations

Let us consider a series:

$$f^n(10) = 10^n + 10^{n-1} + ... + 10^2 + 10 + 10^0,$$

then we can write

$$af^n(10) = \underbrace{aaa...a}_{(n+1)-times},$$

where $a \in \{1, 2, 3, 4, 5, 6, 7, 8, 9\}$.

[1]*Formerly, Professor of Mathematics, Universidade Federal de Santa Catarina, 88.040-900 Florianópolis, SC, Brazil. e-mail: ijtaneja@gmail.com.*

In particular for $n = 3$, we have

$$f^3(10) = a10^3 + a10^2 + a10 + a = aaaa.$$

Then,

$$5 = \frac{af^1(10) - a}{a + a} = \frac{aa - a}{a + a},$$

$$55 = \frac{af^2(10) - a}{a + a} = \frac{aaa - a}{a + a}$$

And

$$6 = \frac{af^1(10) + a}{a + a} = \frac{aa + a}{a + a},$$

$$56 = \frac{af^2(10) - a}{a + a} = \frac{aaa + a}{a + a}.$$

Equivalently, one can write the following symmetric representations

$$5 = \frac{11-1}{1+1} = \frac{22-2}{2+2} = \frac{33-3}{3+3} = \frac{44-4}{4+4} = \frac{55-5}{5+5} = \frac{66-6}{6+6} = \frac{77-7}{7+7} = \frac{88-8}{8+8} = \frac{99-9}{9+9};$$

$$55 = \frac{111-1}{1+1} = \frac{222-2}{2+2} = \frac{333-3}{3+3} = \frac{444-4}{4+4} = \frac{555-5}{5+5} = \frac{666-6}{6+6} = \frac{777-7}{7+7} = \frac{888-8}{8+8} = \frac{999-9}{9+9};$$

...

$$6 = \frac{11+1}{1+1} = \frac{22+2}{2+2} = \frac{33+3}{3+3} = \frac{44+4}{4+4} = \frac{55+5}{5+5} = \frac{66+6}{6+6} = \frac{77+7}{7+7} = \frac{88+8}{8+8} = \frac{99+9}{9+9};$$

$$56 = \frac{111+1}{1+1} = \frac{222+2}{2+2} = \frac{333+3}{3+3} = \frac{444+4}{4+4} = \frac{555+5}{5+5} = \frac{666+6}{6+6} = \frac{777+7}{7+7} = \frac{888+8}{8+8} = \frac{999+9}{9+9};$$

...

Following the same procedure, we have more symmetries, such as,

$$11 = \frac{22}{2} = \frac{33}{3} = \frac{44}{4} = \frac{55}{5} = \frac{66}{6} = \frac{77}{7} = \frac{88}{8} = \frac{99}{9};$$

$$11 = \frac{22+22}{2+2} = \frac{33+33}{3+3} = \frac{44+44}{4+4} = \frac{55+55}{5+5} = \frac{66+66}{6+6} = \frac{77+77}{7+7} = \frac{88+88}{8+8} = \frac{99+99}{9+9};$$

$$37 = \frac{111}{1+1+1} = \frac{222}{2+2+2} = \frac{333}{3+3+3} = \frac{444}{4+4+4} = \frac{555}{5+5+5}$$

$$= \frac{666}{6+6+6} = \frac{777}{7+7+7} = \frac{888}{8+8+8} = \frac{999}{9+9+9};$$

$$100 = \frac{111-11}{1+1} = \frac{222-22}{2+2} = \frac{333-33}{3+3} = \frac{444-44}{4+4} = \frac{555-55}{5+5}$$

$$= \frac{666-66}{6+6} = \frac{777-77}{7+7} = \frac{888-88}{8+8} = \frac{999-99}{9+9};$$

$$101 = \frac{1111}{11} = \frac{2222}{22} = \frac{3333}{33} = \frac{4444}{44} = \frac{5555}{55} = \frac{6666}{66} = \frac{7777}{77} = \frac{8888}{88} = \frac{9999}{99};$$

$$111 = \frac{222}{2} = \frac{333}{3} = \frac{444}{4} = \frac{555}{5} = \frac{666}{6} = \frac{777}{7} = \frac{888}{8} = \frac{999}{9};$$

$$925 = \frac{11111-11}{11+1} = \frac{22222-22}{22+2} = \frac{33333-33}{33+3} = \frac{44444-44}{44+4} = \frac{55555-55}{55+5}$$

$$= \frac{66666-66}{66+6} = \frac{77777-77}{77+7} = \frac{88888-88}{88+8} = \frac{99999-99}{99+9};$$

$$926 = \frac{11111+1}{11+1} = \frac{22222+2}{22+2} = \frac{33333+3}{33+3} = \frac{44444+4}{44+4} = \frac{55555+5}{55+5}$$

$$= \frac{66666+6}{66+6} = \frac{77777+7}{77+7} = \frac{88888+8}{88+8} = \frac{99999+9}{99+9};$$

...

In some cases, one has different symmetries:

$$1 = \frac{2\times 2}{2+2}, \quad 2 = \frac{4\times 4}{4+4}, \quad 3 = \frac{6\times 6}{6+6}, \quad 4 = \frac{8\times 8}{8+8},$$

$$0 = \frac{1\times 1-1}{1+1}, \quad 1 = \frac{3\times 3-3}{3+3}, \quad 2 = \frac{5\times 5-5}{5+5}, \quad 3 = \frac{7\times 7-7}{7+7}, \quad 4 = \frac{9\times 9-9}{9+9}.$$

$$1 = \frac{1\times 1+1}{1+1}, \quad 2 = \frac{3\times 3+3}{3+3}, \quad 3 = \frac{5\times 5+5}{5+5}, \quad 4 = \frac{7\times 7+7}{7+7}, \quad 5 = \frac{9\times 9+9}{9+9}.$$

$$222 = 111 + \frac{111}{1}, \quad 333 = 222 + \frac{222}{2}, \quad 444 = 333 + \frac{333}{3}, \quad 555 = 444 + \frac{444}{4}.$$

$$666 = 555 + \frac{555}{5}, \quad 777 = 666 + \frac{666}{6}, \quad 888 = 777 + \frac{777}{7}, \quad 999 = 888 + \frac{888}{8}.$$

$$212 = 111 + \frac{1111}{11}, \quad 323 = 222 + \frac{2222}{22}, \quad 434 = 333 + \frac{3333}{33}, \quad 545 = 444 + \frac{4444}{44}.$$

$$656 = 555 + \frac{5555}{55}, \quad 767 = 666 + \frac{6666}{66}, \quad 878 = 777 + \frac{7777}{77}, \quad 989 = 888 + \frac{8888}{88}.$$

The above symmetric expressions are beautiful to see, but the number of digits used are not necessarily minimum number, for example,

$$5 = 4 + \frac{4}{4} = \frac{44-4}{4+4}, \text{and } 6 = 4 + \frac{4+4}{4} = \frac{44-4}{4+4}.$$

In case of number five, 4 is used three times, for number six, 4 is used four times, while symmetric representations uses five times 4 in each case.

The following section deals with representation of natural numbers from 0 to 100 in with minimum possible digits in each case.

3. Representations of Natural Numbers Using Different Digits

$$
\begin{aligned}
0 &= 1-1\\
&= 2-2\\
&= 3-3\\
&= 4-4\\
&= 5-5\\
&= 6-6\\
&= 7-7\\
&= 8-8\\
&= 9-9.
\end{aligned}
$$

$$
\begin{aligned}
1 &= 1\\
&= 2/2\\
&= 3/3\\
&= 4/4\\
&= 5/5\\
&= 6/6\\
&= 7/7\\
&= 8/8\\
&= 9/9.
\end{aligned}
$$

$$
\begin{aligned}
2 &= 1+1\\
&= 2\\
&= 3-3/3\\
&= (4+4)/4\\
&= (5+5)/5\\
&= (6+6)/6\\
&= (7+7)/7\\
&= (8+8)/8\\
&= (9+9)/9.
\end{aligned}
$$

$$
\begin{aligned}
3 &= 1+1+1\\
&= 2+2/2\\
&= 3\\
&= 4-4/4\\
&= 5-(5+5)/5\\
&= 6\times 6/(6+6)\\
&= (7+7+7)/7\\
&= 88/8-8\\
&= (9+9+9)/9.
\end{aligned}
$$

$$
\begin{aligned}
4 &= 1+1+1+1\\
&= 2+2\\
&= 3+3/3\\
&= 4\\
&= 5-5/5\\
&= 6-(6+6)/6\\
&= 77/7-7\\
&= 8\times 8/(8+8)\\
&= (9\times 9-9)/(9+9).
\end{aligned}
$$

$$
\begin{aligned}
5 &= (11-1)/(1+1)\\
&= 2+2+2/2\\
&= 3+3-3/3\\
&= 4+4/4\\
&= 5\\
&= 6-6/6\\
&= 7-(7+7)/7\\
&= (88-8)/(8+8)\\
&= (99-9)/(9+9).
\end{aligned}
$$

$$
\begin{aligned}
6 &= (1+1)\times(1+1+1)\\
&= 2+2+2\\
&= 3+3\\
&= 4+(4+4)/4\\
&= 5+5/5\\
&= 6\\
&= 7-7/7\\
&= 8-(8+8)/8\\
&= (99+9)/(9+9).
\end{aligned}
$$

$$
\begin{aligned}
7 &= (1+1)\times(1+1+1)+1\\
&= 2+2+2+2/2\\
&= 3+3+3/3\\
&= 4+4-4/4\\
&= 5+(5+5)/5\\
&= 6+6/6\\
&= 7\\
&= 8-8/8\\
&= 9-(9+9)/9.
\end{aligned}
$$

$$
\begin{aligned}
8 &= (1+1)^{(1+1+1)}\\
&= 2\times(2+2)\\
&= 3\times 3-3/3\\
&= 4+4\\
&= 5+5-(5+5)/5\\
&= 6+(6+6)/6\\
&= 7+7/7\\
&= 8\\
&= 9-9/9.
\end{aligned}
$$

$$
\begin{aligned}
9 &= 11-1-1\\
&= (2+2/2)^2\\
&= 3\times 3\\
&= 4+4+4/4\\
&= 5+5-5/5\\
&= 6+6\times 6/(6+6)\\
&= 7+(7+7)/7\\
&= 8+8/8\\
&= 9.
\end{aligned}
$$

$$
\begin{aligned}
10 &= 11-1\\
&= 2\times 2\times 2+2\\
&= 3\times 3+3/3\\
&= (44-4)/4\\
&= 5+5\\
&= (66-6)/6\\
&= (77-7)/7\\
&= (88-8)/8\\
&= 9+9/9.
\end{aligned}
$$

$$
\begin{aligned}
11 &= 11\\
&= 22/2\\
&= 33/3\\
&= 44/4\\
&= 55/5\\
&= 66/6\\
&= 77/7\\
&= 88/8\\
&= 99/9.
\end{aligned}
$$

$$
\begin{aligned}
12 &= 11+1\\
&= 2\times(2+2+2)\\
&= 3+3\times 3\\
&= 4+4+4\\
&= 6+6\\
&= (55+5)/5\\
&= (77+7)/7\\
&= (88+8)/8\\
&= (99+9)/9.
\end{aligned}
$$

$$
\begin{aligned}
13 &= 11+1+1\\
&= 2+22/2\\
&= 3+3\times 3+3/3\\
&= 4+4+4+4/4\\
&= (55+5+5)/5\\
&= 6+6+6/6\\
&= 7+7-7/7\\
&= (88+8+8)/8\\
&= (9+99+9)/9.
\end{aligned}
$$

$$
\begin{aligned}
14 &= 11+1+1+1\\
&= 2^{(2+2)}-2\\
&= 3+33/3\\
&= 4+(44-4)/4\\
&= 5+5+5-5/5\\
&= 6+6+(6+6)/6\\
&= 7+7\\
&= 8+8-(8+8)/8\\
&= 9+(99-9)/(9+9).
\end{aligned}
$$

$$
\begin{aligned}
15 &= 11+1+1+1+1\\
&= 2+2+22/2\\
&= 3+3+3\times 3\\
&= 4+44/4\\
&= 5+5+5\\
&= 6+6+6\times 6/(6+6)\\
&= 7+7+7/7\\
&= 8+8-8/8\\
&= 9+(99+9)/(9+9).
\end{aligned}
$$

$$
\begin{aligned}
16 &= (1+1)^{(1+1+1+1)}\\
&= 2^{(2+2)}\\
&= 3^3-33/3\\
&= 4\times 4\\
&= 5+55/5\\
&= 6+(66-6)/6\\
&= 7+7+(7+7)/7\\
&= 8+8\\
&= 9+9-(9+9)/9.
\end{aligned}
$$

$$
\begin{aligned}
17 &= (1+1)^{(1+1+1+1)}+1\\
&= 2^{(2+2)}+2/2\\
&= 3+3+33/3\\
&= 4\times 4+4/4\\
&= 5+(55+5)/5\\
&= 6+66/6\\
&= 7+(77-7)/7\\
&= 8+8+8/8\\
&= 9+9-9/9.
\end{aligned}
$$

$$
\begin{aligned}
18 &= (1+1)\times(11-1-1)\\
&= 2^{(2+2)}+2\\
&= 3\times(3+3)\\
&= 4\times 4+(4+4)/4\\
&= 5+(55+5+5)/5\\
&= 6+6+6\\
&= 7+77/7\\
&= 8+(88-8)/8\\
&= 9+9.
\end{aligned}
$$

$$
\begin{aligned}
19 &= (1+1)\times(11-1)-1\\
&= 22-2-2/2\\
&= 3\times(3+3)+3/3\\
&= 4+4+44/4\\
&= 5\times 5-5-5/5\\
&= 6+6+6+6/6\\
&= 7+(77+7)/7\\
&= 8+88/8\\
&= 9+9+9/9.
\end{aligned}
$$

$20 = (1+1)\times(11-1)$
$= 22-2$
$= 3\times 3+33/3$
$= 4+4\times 4$
$= 5\times 5-5$
$= 6+6+6+(6+6)/6$
$= 7+7+7-7/7$
$= 8+(88+8)/8$
$= 9+99/9.$

$21 = 11+11-1$
$= 22-2/2$
$= 3\times(3+3)+3$
$= 4+4\times 4+4/4$
$= 5+5+55/5$
$= 6\times(6\times 6+6)/(6+6)$
$= 7+7+7$
$= (88+88-8)/8$
$= 9+(99+9)/9.$

$22 = 11+11$
$= 22$
$= (33+33)/3$
$= (44+44)/4$
$= (55+55)/5$
$= (66+66)/6$
$= (77+77)/7$
$= (88+88)/8$
$= (99+99)/9.$

$23 = 11+11+1$
$= 22+2/2$
$= 3^3-3-3/3$
$= 4+4+4+44/4$
$= 5\times 5-(5+5)/5$
$= 6+6+66/6$
$= (77+77+7)/7$
$= 8+8+8-8/8$
$= (99+99+9)/9.$

$24 = (1+1)\times(11+1)$
$= 22+2$
$= 3^3-3$
$= 4+4+4\times 4$
$= 5\times 5-5/5$
$= 6+6+6+6$
$= 7+7+(77-7)/7$
$= 8+8+8$
$= (99+99+9+9)/9.$

$25 = (1+1)\times(11+1)+1$
$= 22+2+2/2$
$= 3^3-3+3/3$
$= 4+4+4\times 4+4/4$
$= 5\times 5$
$= 6\times 6-66/6$
$= 7+7+77/7$
$= 8+8+8+8/8$
$= (9+9-(9+9)/9))+9.$

$26 = (1+1)\times(11+1+1)$
$= 22+2+2$
$= 3^3-3/3$
$= 4+44\times 4/(4+4)$
$= 5\times 5+5/5$
$= 6\times 6-(66-6)/6$
$= 7+7+(77+7)/7$
$= 8+8+(88-8)/8$
$= 9+9+9-9/9.$

$27 = (1+1+1)^{(1+1+1)}$
$= 22+2+2+2/2$
$= 3^3$
$= 4\times 4+44/4$
$= 5\times 5+(5+5)/5$
$= 6\times 66/(6+6)-6$
$= 77-7\times 7-7/7$
$= 8+8+88/8$
$= 9+9+9.$

$28 = (1+1+1)^{(1+1+1)}+1$
$= 22+2+2+2$
$= 3^3+3/3$
$= 44-4\times 4$
$= 5\times 5+5-(5+5)/5$
$= 6+(66+66)/6$
$= 7\times(77/7-7)$
$= 8+8+(88+8)/8$
$= 9+9+9+9/9.$

$29 = (1+1+1)\times(11-1)-1$
$= 22+2+2+2+2/2$
$= 3+3^3-3/3$
$= 44-4\times 4+4/4$
$= 5\times 5+5-5/5$
$= 6\times 6-6-6/6$
$= 77-7\times 7+7/7$
$= 8+(88+88-8)/8$
$= 9+9+99/9.$

$30 = (1+1+1)\times(11-1)$
$= 22+2\times(2+2)$
$= 3+3^3$
$= 4\times(4+4)-(4+4)/4$
$= 5\times 5+5$
$= 6\times 6-6$
$= 77-7\times 7+(7+7)/7$
$= 8+(88+88)/8$
$= 999/9-9\times 9.$

$31 = (1+1+1)\times(11-1)+1$
$= 22+(2+2/2)^2$
$= 3+3^3+3/3$
$= 4\times(4+4)-4/4$
$= 5\times 5+5+5/5$
$= 6\times 6-6+6/6$
$= 7\times 7-7-77/7$
$= 8+8+8+8-8/8$
$= 9+(99+99)/9.$

$32 = 11\times(1+1+1)-1$
$= 2\times 2^{(2+2)}$
$= 33-3/3$
$= 4\times(4+4)$
$= ((5+5)/5)^5$
$= 6\times 6-6+(6+6)/6$
$= 7+7+7+77/7$
$= 8+8+8+8$
$= 9+(99+99+9)/9.$

$33 = 11\times(1+1+1)$
$= 22+22/2$
$= 33$
$= 4\times(4+4)+4/4$
$= ((5+5)/5)^5+5/5$
$= 6\times 66/(6+6)$
$= (77+77+77)/7$
$= 8+8+8+8+8/8$
$= 99\times(9+9+9)/(9\times 9).$

$34 = 11\times(1+1+1)+1$
$= 2+2\times 2^{(2+2)}$
$= 33+3/3$
$= 44-(44-4)/4$
$= 5\times 5+5-5/5+5$
$= 6\times 6-(6+6)/6$
$= 777/7-77$
$= 8+8+8+(88-8)/8$
$= ((9+9)\times(9+9)+9)/9.$

$35 = 11 \times (1 + 1 + 1) + 1 + 1$
$= 22 + 2 + 22/2$
$= 3 + 33 - 3/3$
$= 4 + 4 \times (4 + 4) - 4/4$
$= 5 \times 5 + 5 + 5$
$= 6 \times 6 - 6/6$
$= 7 \times 7 - 7 - 7$
$= 8 + 8 + 8 + 88/8$
$= 9 + 9 + 9 + 9 - 9/9.$

$36 = (1 + 1 + 1) \times (11 + 1)$
$= (2 + 2 + 2)^2$
$= 3 + 33$
$= 4 + 4 \times (4 + 4)$
$= 5 \times 5 + 55/5$
$= 6 \times 6$
$= 7 \times 7 - 7 - 7 + 7/7$
$= 88 \times 8/(8 + 8) - 8$
$= 9 + 9 + 9 + 9.$

$37 = 111/(1 + 1 + 1)$
$= (2 + 2 + 2)^2 + 2/2$
$= 3 + 33 + 3/3$
$= 4 + 4 \times (4 + 4) + 4/4$
$= 5 + ((5 + 5)/5)^5$
$= 6 \times 6 + 6/6$
$= 777/(7 + 7 + 7)$
$= 888/(8 + 8 + 8)$
$= 999/(9 + 9 + 9).$

$38 = 111/(1 + 1 + 1) + 1$
$= (2 + 2 + 2)^2 + 2$
$= 3^3 + 33/3$
$= 44 - 4 - (4 + 4)/4$
$= 5 + ((5 + 5)/5)^5 + 5/5$
$= 6 \times 6 + (6 + 6)/6$
$= 7 \times 7 - 77/7$
$= 8 + 8 + (88 + 88)/8$
$= 9 + 9 + 9 + 99/9.$

$39 = (1 + 1 + 1) \times (11 + 1 + 1)$
$= 2 \times (22 - 2) - 2/2$
$= 3 + 3 + 33$
$= 44 - 4 - 4/4$
$= 55 - 5 - 55/5$
$= 6 + 6 \times 66/(6 + 6)$
$= 7 \times 7 - (77 - 7)/7$
$= 8 \times 8 - 8 - 8 - 8 - 8/8$
$= 9 + 9 + 9 + (99 + 9)/9.$

$40 = (1 + 1) \times (1 + 1) \times (11 - 1)$
$= 2 \times (22 - 2)$
$= 3 + 3 + 33 + 3/3$
$= 44 - 4$
$= 5 \times 5 + 5 + 5 + 5$
$= 6 \times 6 + 6 - (6 + 6)/6$
$= 7 \times 7 - 7 - (7 + 7)/7$
$= 8 \times (8 + 8) - 88$
$= (9 \times 9 \times 9 - 9)/(9 + 9).$

$41 = (1 + 1 + 1) \times (11 - 1) + 11$
$= 2 \times (22 - 2) + 2/2$
$= 3 + 3^3 + 33/3$
$= 44 - 4 + 4/4$
$= 5 \times 5 + 5 + 55/5$
$= 6 \times 6 + 6 - 6/6$
$= 7 \times 7 - 7 - 7/7$
$= 8 \times 8 - 8 - 8 - 8 + 8/8$
$= (9 \times 9 \times 9 + 9)/(9 + 9).$

$42 = (1 + 1) \times (11 + 11 - 1)$
$= 2 \times 22 - 2$
$= 3 \times 3 + 33$
$= 44 - (4 + 4)/4$
$= 5 + 5 + ((5 + 5)/5)^5$
$= 6 \times 6 + 6$
$= 7 \times 7 - 7$
$= 8 \times 8 - (88 + 88)/8$
$= 9 + 9 \times 99/(9 + 9 + 9).$

$43 = (1 + 1) \times (11 + 11) - 1$
$= 2 \times 22 - 2/2$
$= 3 \times 3 + 33 + 3/3$
$= 44 - 4/4$
$= 55 - (55 + 5)/5$
$= 6 \times 6 + 6 + 6/6$
$= 7 \times 7 - 7 + 7/7$
$= 8 + 8 + 8 + 8 + 88/8$
$= 9 \times 9 - 9 - 9 - 9 - 99/9.$

$44 = (1 + 1) \times (11 + 11)$
$= 2 \times 22$
$= 33 + 33/3$
$= 44$
$= 55 - 55/5$
$= 6 \times 6 + 6 + (6 + 6)/6$
$= 7 \times 7 - 7 + (7 + 7)/7$
$= 88 \times 8/(8 + 8)$
$= 99 \times (9 - 9/9)/(9 + 9).$

$45 = (1 + 1) \times (11 + 11) + 1$
$= 2 \times 22 + 2/2$
$= 3 + 3 \times 3 + 33$
$= 44 + 4/4$
$= 55 - 5 - 5$
$= 666/6 - 66$
$= 7 \times 7 + 7 - 77/7$
$= 8 \times 8 - 8 - 88/8$
$= 9 + 9 + 9 + 9 + 9.$

$46 = (1 + 1) \times (11 + 11 + 1)$
$= 2 \times 22 + 2$
$= 3 + 3 \times 3 + 33 + 3/3$
$= 44 + (4 + 4)/4$
$= 55 - 5 - 5 + 5/5$
$= 6 \times 6 + (66 - 6)/6$
$= 7 \times 7 - (7 + 7 + 7)/7$
$= 8 \times 8 - 8 - 8 - (8 + 8)/8$
$= 9 + 9 + 9 + 9 + 9 + 9/9.$

$47 = (1 + 1) \times (11 + 11 + 1) + 1$
$= 2 \times 22 + 2 + 2/2$
$= 3 + 33 + 33/3$
$= 4 + 44 - 4/4$
$= 5 + 5 + 5 + ((5 + 5)/5)^5$
$= 66 + 6 \times 6/6$
$= 7 \times 7 - ((7 + 7)/7)$
$= 888/8 - 8 \times 8$
$= 9 + 9 + 9 + 9 + 99/9.$

$48 = (1 + 1) \times (1 + 1) \times (11 + 1)$
$= 2 \times (22 + 2)$
$= 3 \times 3^3 - 33$
$= 4 + 44$
$= 55 - 5 - (5 + 5)/5$
$= 6 \times 6 + 6 + 6$
$= 7 \times 7 - 7/7$
$= 8 \times 8 - 8 - 8$
$= 9 + 9 - 9 \times 9 + 999/9.$

$49 = (11 - 1)^{(1+1)}/(1 + 1) - 1$
$= 2 \times (22 + 2) + 2/2$
$= 3^3 + 33 - 33/3$
$= 4 + 44 + 4/4$
$= 55 - 5 - 5/5$
$= 6 \times 6 + 6 + 6 + 6/6$
$= 7 \times 7$
$= 8 \times 8 - 8 - 8 + 8/8$
$= (9 \times 99 - 9)/(9 + 9).$

$$\begin{aligned}50 &= (11-1)^{(1+1)}/(1+1)\\ &= 2\times(22+2)+2\\ &= 3+3+33+33/3\\ &= 4+44+(4+4)/4\\ &= 5\times(5+5)\\ &= 6\times 6+6+6+(6+6)/6\\ &= 7\times 7+7/7\\ &= 8\times 8-8-8+(8+8)/8\\ &= (9\times 99+9)/(9+9).\end{aligned}$$

$$\begin{aligned}51 &= (11-1)^{(1+1)}/(1+1)+1\\ &= 2\times(22+2)+2+2/2\\ &= 3^3+3^3-3\\ &= 4+4+44-4/4\\ &= 55-5+5/5\\ &= 6-66+666/6\\ &= 7\times 7+(7+7)/7\\ &= 8\times 8-8-8-8+88/8\\ &= (999-9\times 9)/(9+9).\end{aligned}$$

$$\begin{aligned}52 &= (1+1)\times(1+1)\times(11+1+1)\\ &= 2\times(22+2+2)\\ &= 3^3+3^3-3+3/3\\ &= 4+4+44\\ &= 55-5+(5+5)/5\\ &= ((6+6)/6)^6-6-6\\ &= 7\times 7+(7+7+7)/7\\ &= 8+88\times 8/(8+8)\\ &= 9\times 9-9-9-99/9.\end{aligned}$$

$$\begin{aligned}53 &= (111-1)/(1+1)-1-1\\ &= 2\times(22+2+2)+2/2\\ &= 3^3+3^3-3/3\\ &= (4^4-44)/4\\ &= 55-(5+5)/5\\ &= 6\times 6+6+66/6\\ &= 7\times 7+77/7-7\\ &= 8\times 8-88/8\\ &= 9\times 9-9-9-9-9/9.\end{aligned}$$

$$\begin{aligned}54 &= (111-1)/(1+1)-1\\ &= 2\times(22+2+2)+2\\ &= 3\times 3\times(3+3)\\ &= 44+(44-4)/4\\ &= 55-5/5\\ &= 66-6-6\\ &= 7\times 7+7-(7+7)/7\\ &= 8\times 8-(88-8)/8\\ &= 9\times 9-9-9-9.\end{aligned}$$

$$\begin{aligned}55 &= (111-1)/(1+1)\\ &= 2\times 22+22/2\\ &= 3^3+3^3+3/3\\ &= 44+44/4\\ &= 55\\ &= 66-66/6\\ &= 7\times 7+7-7/7\\ &= 8\times 8-8-8/8\\ &= (999-9)/(9+9).\end{aligned}$$

$$\begin{aligned}56 &= (111+1)/(1+1)\\ &= (222+2)/(2+2)\\ &= (333+3)/(3+3)\\ &= 44+4+4+4\\ &= 55+5/5\\ &= (666+6)/(6+6).\\ &= 7\times 7+7\\ &= 8\times 8-8\\ &= (999+9)/(9+9).\end{aligned}$$

$$\begin{aligned}57 &= (111+1)/(1+1)+1\\ &= 2\times 22+2+22/2\\ &= 3^3+3^3+3\\ &= 4+(4^4-44)/4\\ &= 55+(5+5)/5\\ &= 66+(6+6-66)/6\\ &= 7\times 7+7+7/7\\ &= 8\times 8-8+8/8\\ &= (999+9)/(9+9)+9/9.\end{aligned}$$

$$\begin{aligned}58 &= (111+1)/(1+1)+1+1\\ &= (2+2+2)^2+22\\ &= (3+3/3)^3-3-3\\ &= (4^4-4-4)/4-4\\ &= 55+5-(5+5)/5\\ &= ((6+6)/6)^6-6\\ &= 7\times 7+7+(7+7)/7\\ &= 8\times 8-8+(8+8)/8\\ &= 9+(9\times 99-9)/(9+9).\end{aligned}$$

$$\begin{aligned}59 &= (11^{(1+1)}-1)/(1+1)-1\\ &= (4^4-4)/4-4\\ &= 2\times(22+2)+22/2\\ &= 3^3+33-3/3\\ &= 55+5-5/5\\ &= 66+6-6/6\\ &= 77-7-77/7\\ &= 8\times 8-8-8+88/8\\ &= 9+(9\times 99+9)/(9+9).\end{aligned}$$

$$\begin{aligned}60 &= (11^{(1+1)}-1)/(1+1)\\ &= 2\times(2\times(2+2)+22)\\ &= 3^3+33\\ &= 4\times 4+44\\ &= 55+5\\ &= 66-6\\ &= 7\times 7+77/7\\ &= 8+8+88\times 8/(8+8)\\ &= 9\times 9-9-(99+9)/9.\end{aligned}$$

$$\begin{aligned}61 &= (11^{(1+1)}+1)/(1+1)\\ &= (3+3/3)^3-3\\ &= (4^4+4)/4-4\\ &= 2^{(2+2+2)}-2-2/2\\ &= 55+5+5/5\\ &= 66-6+6/6\\ &= 7\times 7+(77+7)/7\\ &= 8\times 8+8-88/8\\ &= 9\times 9-99/9-9.\end{aligned}$$

$$\begin{aligned}62 &= (11^{(1+1)}+1)/(1+1)+1\\ &= 2^{(2+2+2)}-2\\ &= 3+3^3+33-3/3\\ &= (4^4-4-4)/4\\ &= 55+5+(5+5)/5\\ &= 66-6+(6+6)/6\\ &= 777/7-7\times 7\\ &= 8\times 8-(8+8)/8\\ &= 9\times 9-9-9-9/9.\end{aligned}$$

$$\begin{aligned}63 &= (1+1+1)\times(11+11-1)\\ &= 2^{(2+2+2)}-2/2\\ &= 3+3^3+33\\ &= (4^4-4)/4\\ &= (5+5^5/5)/(5+5)\\ &= 66-6\times 6/(6+6)\\ &= 77-7-7\\ &= 8\times 8-8/8\\ &= 9\times 9-9-9.\end{aligned}$$

$$\begin{aligned}64 &= (1+1)^{((1+1)\times(1+1+1))}\\ &= 2^{(2+2+2)}\\ &= 4\times 4\times 4\\ &= (3+3/3)^3\\ &= 55+5+5-5/5\\ &= ((6+6)/6)^6\\ &= 77-7-7+7/7\\ &= 8\times 8\\ &= (9-9/9)\times(9-9/9).\end{aligned}$$

$65 = (1+1)^{((1+1)\times(1+1+1))} + 1$
$= 2^{(2+2+2)} + 2/2$
$= (3 + 3/3)^3 + 3/3$
$= (4^4 + 4)/4$
$= 55 + 5 + 5$
$= 66 - 6/6$
$= 77 - (77 + 7)/7$
$= 8 \times 8 + 8/8$
$= 9 \times 9 - 9 - 9 + (9 + 9)/9.$

$66 = 11 \times (1 + 1) \times (1 + 1 + 1)$
$= 2^{(2+2+2)} + 2$
$= 33 + 33$
$= (4^4 + 4 + 4)/4$
$= 55 + 55/5$
$= 66$
$= 77 - 77/7$
$= 8 \times 8 + (8 + 8)/8$
$= 99 \times (99 + 9)/(9 \times (9 + 9)).$

$67 = 11 \times (1 + 1) \times (1 + 1 + 1) + 1$
$= 2^{(2+2+2)} + 2 + 2/2$
$= (3 + 3/3)^3 + 3$
$= 4 + (4^4 - 4)/4$
$= 55 + (55 + 5)/5$
$= 66 + 6/6$
$= 77 - (77 - 7)/7$
$= 8 \times 8 - 8 + 88/8$
$= 9 \times 9 - (99 + 9 + 9 + 9)/9.$

$68 = (1 + 1) \times (11 \times (1 + 1 + 1) + 1)$
$= 2^{(2+2+2)} + 2 + 2$
$= ((3 + 3)^3 - 3)/3 - 3$
$= 4 + 4 \times 4 \times 4$
$= 5 + (5^5/5 + 5)/(5 + 5)$
$= 66 + (6 + 6)/6$
$= 77 - 7 - (7 + 7)/7$
$= 88 - 8 - (88 + 8)/8$
$= 9 \times 9 - (99 + 9 + 9)/9.$

$69 = (1 + 1 + 1) \times (11 + 11 + 1)$
$= (22 + 2/2) \times (2 + 2/2)$
$= 33 + 33 + 3$
$= 4 + (4^4 + 4)/4$
$= 55 + 5 + 5 + 5 - 5/5$
$= 66 + 6 \times 6/(6 + 6)$
$= 77 - 7 - 7/7$
$= 88 - 8 - 88/8$
$= 9 \times 9 - (99 + 9)/9.$

$70 = (11 - 1 - 1)^{(1+1)} - 11$
$= 2 \times (22 + 2) + 22$
$= (3/3 + 3)^3 + 3 + 3$
$= 4 + (4^4 + 4 + 4)/4$
$= 55 + 5 + 5 + 5$
$= 6 + ((6 + 6)/6)^6$
$= 77 - 7$
$= 8 \times 8 + 8 - (8 + 8)/8$
$= 9 \times 9 - 99/9.$

$71 = (11 + 1)^{(1+1)}/(1 + 1) - 1$
$= 2 \times (2 + 2 + 2)^2 - 2/2$
$= ((3 + 3)^3 - 3)/3$
$= 4 + 4 + (4^4 - 4)/4$
$= 55 + 5 + 55/5$
$= 66 + 6 - 6/6$
$= 77 - 7 + 7/7$
$= 8 \times 8 + 8 - 8/8$
$= 9 \times 9 - 9 - 9/9.$

$72 = (11 + 1)^{(1+1)}/(1 + 1)$
$= 2 \times (2 + 2 + 2)^2$
$= 3 \times (3^3 - 3)$
$= 4 + 4 + 4 \times 4 \times 4$
$= 55 + 5 + (55 + 5)/5$
$= 66 + 6$
$= 77 - 7 + (7 + 7)/7$
$= 8 + 8 \times 8$
$= 9 \times 9 - 9.$

$73 = (11 + 1)^{(1+1)}/(1 + 1) + 1$
$= 2 \times (2 + 2 + 2)^2 + 2/2$
$= ((3 + 3)^3 + 3)/3$
$= 4 + 4 + (4^4 + 4)/4$
$= 5 \times (5 + 5 + 5) - (5 + 5)/5$
$= 66 + 6 + 6/6$
$= 77 + 7 - 77/7$
$= 8 \times 8 + 8 + 8/8$
$= 9 \times 9 - 9 + 9/9.$

$74 = (1 + 1) \times 111/(1 + 1 + 1)$
$= 2 \times (2 + 2 + 2)^2 + 2$
$= 3 + ((3 + 3)^3 - 3)/3$
$= (4^4 + 44 - 4)/4$
$= 5 \times (5 + 5 + 5) - 5/5$
$= 66 + 6 + (6 + 6)/6$
$= 77 - (7 + 7 + 7)/7$
$= 8 \times 8 + 8 + (8 + 8)/8$
$= 9 \times 9 - (9 - (9 + 9)/9).$

$75 = (1 + 1) \times 111/(1 + 1 + 1) + 1$
$= 2^{(2+2+2)} + 22/2$
$= 3 + 3 \times (3^3 - 3)$
$= (44 + 4^4)/4$
$= 5 \times (5 + 5 + 5)$
$= 666/6 - 6 \times 6$
$= 77 - (7 + 7)/7$
$= 8 \times 8 + 88/8$
$= 9 \times 9 - (99 + 9)/(9 + 9).$

$76 = (1 + 1) \times (111/(1 + 1 + 1) + 1)$
$= 2 \times ((2 + 2 + 2)^2 + 2)$
$= 3 + (3 + (3 + 3)^3)/3$
$= 44 + 4 \times (4 + 4)$
$= 5 \times (5 + 5 + 5) + 5/5$
$= 6 + 6 + ((6 + 6)/6)^6$
$= 77 - 7/7$
$= 88 - (88 + 8)/8$
$= 9 \times 9 - (99 - 9)/(9 + 9).$

$77 = 11 \times ((1 + 1) \times (1 + 1 + 1) + 1)$
$= 2 \times 2 \times 22 - 22/2$
$= 3 \times 3^3 - 3 - 3/3$
$= (4 - 4/4)^4 - 4$
$= 55 + (55 + 55)/5$
$= 66 + 66/6$
$= 77$
$= 88 - 88/8$
$= 9 \times 9 - (9 + 9 + 9 + 9)/9.$

$78 = 111 - 11 \times (1 + 1 + 1)$
$= 2 \times 2 \times (22 - 2) - 2$
$= 3 \times 3^3 - 3$
$= 4 + (4^4 - 4 + 44)/4$
$= 5 \times 5 + 55 - (5 + 5)/5$
$= 66 + 6 + 6$
$= 77 + 7/7$
$= 88 - (88 - 8)/8$
$= 9 \times 9 - (9 + 9 + 9)/9.$

$79 = (11 - 1 - 1)^{(1+1)} - 1 - 1$
$= (2 + 2/2)^{(2+2)} - 2$
$= 3 \times 3^3 - 3 + 3/3$
$= 4 + (44 + 4^4)/4$
$= 5 \times 5 + 55 - 5/5$
$= 66 + 6 + 6 + 6/6$
$= 77 + (7 + 7)/7$
$= 88 - 8 - 8/8$
$= 9 \times 9 - (9 + 9)/9.$

$80 = (11-1-1)^{(1+1)} - 1$
$= 2 \times 2 \times (22-2)$
$= 3 \times 3^3 - 3/3$
$= 4 \times (4 \times 4 + 4)$
$= 5 \times 5 + 55$
$= 66 + 6 + 6 + (6+6)/6$
$= 77 + (7+7+7)/7$
$= 88 - 8$
$= 9 \times 9 - 9/9.$

$81 = (11-1-1)^{(1+1)}$
$= (2 + 2/2)^{(2+2)}$
$= 3 \times 3^3$
$= (4 - 4/4)^4$
$= 5 \times 5 + 55 + 5/5$
$= 6 - 66 + 6 \times 66/6$
$= 77/7 - 7 + 77$
$= 88 - 8 + 8/8$
$= 9 \times 9.$

$82 = (11-1-1)^{(1+1)} + 1$
$= 2 \times 2 \times (22-2) + 2$
$= 3 \times 3^3 + 3/3$
$= (4 - 4/4)^4 + 4/4$
$= 5 \times 5 + 55 + (5+5)/5$
$= 6 + 6 + 6 + ((6+6)/6)^6$
$= 77 + 7 - (7+7)/7$
$= 88 - 8 + (8+8)/8$
$= 9 \times 9 + 9/9.$

$83 = (11-1-1)^{(1+1)} + 1 + 1$
$= (2 + 2/2)^{(2+2)} + 2$
$= 3 + 3 \times 3^3 - 3/3$
$= 4 + 4 + (44 + 4^4)/4$
$= 5 \times 5 + 55 + 5 - (5+5)/5$
$= 66 + 6 + 66/6$
$= 77 + 7 - 7/7$
$= 88/8 + 8 + 8 \times 8$
$= 9 \times 9 + (9+9)/9.$

$84 = (11-1-1)^{(1+1)} + 1 + 1 + 1$
$= 2 \times (2 \times 22 - 2)$
$= 3 + 3 \times 3^3$
$= 4 + 4 \times (4 \times 4 + 4)$
$= 5 \times 5 + 55 + 5 - 5/5$
$= 66 + 6 + 6 + 6$
$= 77 + 7$
$= 88 - 8 \times 8/(8+8)$
$= 9 \times 9 + (9+9+9)/9.$

$85 = 111 - (1+1) \times (11+1+1)$
$= 2 \times 2 \times 22 - 2 - 2/2$
$= 3 + 3 \times 3^3 + 3/3$
$= 4 + (4 - 4/4)^4$
$= 5 \times 5 + 55 + 5$
$= 66 + 6 + 6 + 6 + 6/6$
$= 77 + 7 + 7/7$
$= 88 + 8 - 88/8$
$= 9 \times 9 + (9+9+9+9)/9.$

$86 = 11 \times (1+1)^{(1+1+1)} - 1 - 1$
$= 2 \times 2 \times 22 - 2$
$= 3 + 3 + 3 \times 3^3 - 3/3$
$= 44 + 44 - (4+4)/4$
$= 555/5 - 5 \times 5$
$= 66 + 6 + 6 + 6 + (6+6)/6$
$= 77 + 7 + (7+7)/7$
$= 88 - (8+8)/8$
$= 99 - (99+9+9)/9.$

$87 = 111 - (1+1) \times (11+1)$
$= 2 \times 2 \times 22 - 2/2$
$= 3 + 3 + 3 \times 3^3$
$= 44 + 44 - 4/4$
$= 55 + ((5+5)/5)^5$
$= 6 + 6 - 66 + 6 \times 66/6$
$= 77 + (77-7)/7$
$= 88 - 8/8$
$= 99 - (99+9)/9.$

$88 = 11 \times (1+1)^{(1+1+1)}$
$= 2 \times 2 \times 22$
$= 3 \times 33 - 33/3$
$= 44 + 44$
$= 5 \times 5 + (5^5/5 + 5)/(5+5)$
$= 66 + (66+66)/6$
$= 77 + 77/7$
$= 88$
$= 99 - 99/9.$

$89 = 111 - 11 - 11$
$= 2 \times 2 \times 22 + 2/2$
$= 3 \times (3^3 + 3) - 3/3$
$= 44 + 44 + 4/4$
$= 5 \times (5 \times 5 - 5) - 55/5$
$= 66 + 6 + 6 + 66/6$
$= 77 + (77+7)/7$
$= 88 + 8/8$
$= 99 - 9 - 9/9.$

$90 = (11-1) \times (11-1-1)$
$= 2 \times 2 \times 22 + 2$
$= 3 \times (3^3 + 3)$
$= 44 + 44 + (4+4)/4$
$= 5 \times 5 + 55 + 5 + 5$
$= 66 + 6 + 6 + 6 + 6$
$= 7 + 77 + 7 - 7/7$
$= 88 + (8+8)/8$
$= 99 - 9.$

$91 = (11-1) \times (11-1-1) + 1$
$= 2 \times 2 \times 22 + 2 + 2/2$
$= 3^3 + (3 + 3/3)^3$
$= 4 + 44 + 44 - 4/4$
$= 5 - 5 \times 5 + 555/5$
$= 66 + 6 \times 6 - 66/6$
$= 77 + 7 + 7$
$= 88 - 8 + 88/8$
$= 99 - 9 + 9/9.$

$92 = (11-1-1)^{(1+1)} + 11$
$= 2 \times (2 \times 22 + 2)$
$= 3 \times 3^3 + 33/3$
$= 4 + 44 + 44$
$= 55 + 5 + ((5+5)/5)^5$
$= 66 + 6 \times 6 - (66-6)/6$
$= 77 + 7 + 7 + 7/7$
$= 88 + 8 \times 8/(8+8)$
$= 9 \times 9 + 99/9.$

$93 = ((1+1)^{(11-1)} - 1)/11$
$= 2 \times (2 \times 22 + 2) + 2/2$
$= 3 + 3 \times (3^3 + 3)$
$= ((4+4)^4 - 4)/44$
$= 5 \times 5 \times 5 - ((5+5)/5)^5$
$= 666/6 - 6 - 6 - 6$
$= (777 - 77)/7 - 7$
$= 8888/88 - 8$
$= 999/9 - 9 - 9.$

$94 = ((1+1)^{(11-1)} - 1)/11 + 1$
$= 2 \times (2 \times 22 + 2) + 2$
$= 3 + 3 \times (3^3 + 3) + 3/3$
$= (444 - 4)/4 - 4 \times 4$
$= 5 \times (5 \times 5 - 5) - 5 - 5/5$
$= 6 \times 6 - 6 + ((6+6)/6)^6$
$= 7777/77 - 7$
$= 88 + 8 - (8+8)/8$
$= (999+9)/9 - 9 - 9.$

$$\begin{aligned}95 &= 111-(1+1)^{(1+1+1+1)}\\ &= 2\times 2\times(22+2)-2/2\\ &= 3\times 33-3-3/3\\ &= 444/4-4\times 4\\ &= 5\times(5\times 5-5)-5\\ &= 66+6\times 6-6-6/6\\ &= 77+7+77/7\\ &= 88+8-8/8\\ &= 99-(9\times 9-9)/(9+9).\end{aligned}$$

$$\begin{aligned}97 &= 111-11-1-1-1\\ &= 2\times 2\times(22+2)+2/2\\ &= 3\times 33-3+3/3\\ &= 4\times 4+(4-4/4)^4\\ &= 55+5+5+((5+5)/5)^5\\ &= 66+6\times 6-6+6/6\\ &= 7\times(7+7)-7/7\\ &= 88+8+8/8\\ &= 99-(9+9)/9.\end{aligned}$$

$$\begin{aligned}99 &= 11\times(11-1-1)\\ &= (22/2)^2-22\\ &= 3\times 33\\ &= 4-4\times 4+444/4\\ &= 5\times(5\times 5-5)-5/5\\ &= 666/6-6-6\\ &= 7\times(7+7)+7/7\\ &= 88+88/8\\ &= 99.\end{aligned}$$

$$\begin{aligned}96 &= (11+1)\times(1+1)^{(1+1+1)}\\ &= 2\times 2\times(22+2)\\ &= 3\times 33-3\\ &= 4\times(4\times 4+4+4)\\ &= 5\times(5\times 5-5)-5+5/5\\ &= 66+6\times 6-6\\ &= 7\times(7+7)-(7+7)/7\\ &= 88+8\\ &= 99-(9+9+9)/9.\end{aligned}$$

$$\begin{aligned}98 &= 111-11-1-1\\ &= 2\times 2\times(22+2)+2\\ &= 3\times 33-3/3\\ &= 4-4\times 4+(444-4)/4\\ &= 5\times(5\times 5-5)-(5+5)/5\\ &= (666-6)/6-6-6\\ &= 7\times(7+7)\\ &= 88+(88-8)/8\\ &= 99-9/9.\end{aligned}$$

$$\begin{aligned}100 &= (11-1)^{(1+1)}\\ &= (2\times(2+2)+2)^2\\ &= 3\times 33+3/3\\ &= (444-44)/4\\ &= 5\times(5\times 5-5)\\ &= (666-66)/6\\ &= (777-77)/7\\ &= (888-88)/8\\ &= 99+9/9.\end{aligned}$$

Instead of writing jointly, as above, here below in the following sections, the natural numbers from 101 to 1000 are represented separately in each case.

4. Representations Using Number 1

$$\begin{aligned}101 &= (11-1)^{(1+1)}+1.\\ 102 &= (11-1)^{(1+1)}+1+1.\\ 103 &= (11-1)^{(1+1)}+1+1+1.\\ 104 &= (11-1)^{(1+1)}+1+1+1+1.\\ 105 &= 111-(1+1)\times(1+1+1).\\ 106 &= 111-(11-1)/(1+1).\\ 107 &= 111-(1+1+1+1).\\ 108 &= 111-(1+1+1).\\ 109 &= 111-(1+1).\\ 110 &= 111-1.\\ 111 &= 111.\\ 112 &= 111+1.\\ 113 &= 111+1+1.\\ 114 &= 111+1+1+1.\\ 115 &= 111+1+1+1+1.\\ 116 &= 111+1+1+1+1+1.\\ 117 &= 111+(1+1)\times(1+1+1).\\ 118 &= 11^{(1+1)}-1-1-1.\\ 119 &= 11^{(1+1)}-1-1.\\ 120 &= 11^{(1+1)}-1.\\ 121 &= 11^{(1+1)}.\\ 122 &= 11^{(1+1)}+1.\\ 123 &= 11^{(1+1)}+1+1.\\ 124 &= 11^{(1+1)}+1+1+1.\\ 125 &= 11^{(1+1)}+1+1+1+1.\\ 126 &= 11^{(1+1)}+1+1+1+1+1.\\ 127 &= (1+1)^{(1+1+1+1)}+111.\\ 128 &= (1+1)^{((1+1)\times(1+1+1)+1)}.\\ 129 &= 11\times(11+1)-1-1-1.\\ 130 &= (11-1)\times(11+1+1).\\ 131 &= 11\times(11+1)-1.\end{aligned}$$

$$\begin{aligned}132 &= 11\times(11+1).\\ 133 &= 11\times(11+1)+1.\\ 134 &= 11\times(11+1)+1+1.\\ 135 &= 11\times(11+1)+1+1+1.\\ 136 &= 11\times(11+1)+1+1+1+1.\\ 137 &= (1+1)\times(11+1+1)+111.\\ 138 &= (1+1+1)^{(1+1+1)}+111.\\ 139 &= (11-1)\times(11+1+1+1)-1.\\ 140 &= (11-1)\times(11+1+1+1).\\ 141 &= (11+1)^{(1+1)}-1-1-1.\\ 142 &= (11+1)^{(1+1)}-1-1.\\ 143 &= 11\times(11+1+1).\\ 144 &= (11+1)^{(1+1)}.\\ 145 &= (11+1)^{(1+1)}+1.\\ 146 &= (11+1)^{(1+1)}+1+1.\\ 147 &= (11+1)^{(1+1)}+1+1+1.\\ 148 &= (11+1)^{(1+1)}+1+1+1+1.\\ 149 &= (11+1)^{(1+1)}+1+1+1+1+1.\\ 150 &= (11-1)\times(11+1+1+1+1).\\ 151 &= (11-1)\times(11+1+1+1+1)+1.\\ 152 &= 11\times(11+1+1+1)-1-1.\\ 153 &= 11\times(11+1+1+1)-1.\\ 154 &= 11\times(11+1+1+1).\\ 155 &= (11+1)^{(1+1)}+11.\\ 156 &= (11+1)\times(11+1+1).\\ 157 &= (11+1)\times(11+1+1)+1.\\ 158 &= (11+1+1)^{(1+1)}-11.\\ 159 &= (11+1+1)^{(1+1)}-11+1.\\ 160 &= (1+1)\times((11-1-1)^{(1+1)}-1).\\ 161 &= (1+1)\times(11-1-1)^{(1+1)}-1.\\ 162 &= (1+1)\times(11-1-1)^{(1+1)}.\end{aligned}$$

$163 = (1+1) \times (11-1-1)^{(1+1)} + 1.$
$164 = (1+1) \times ((11-1-1)^{(1+1)} + 1).$
$165 = 11 \times (11+1+1+1+1).$
$166 = 11 \times (11+1+1+1+1) + 1.$
$167 = (11+1+1)^{(1+1)} - 1 - 1.$
$168 = (11+1+1)^{(1+1)} - 1.$
$169 = (11+1+1)^{(1+1)}.$
$170 = (11+1+1)^{(1+1)} + 1.$
$171 = (11+1+1)^{(1+1)} + 1 + 1.$
$172 = (11+1+1)^{(1+1)} + 1 + 1 + 1.$
$173 = (11+1+1)^{(1+1)} + 1 + 1 + 1 + 1.$
$174 = (1+1) \times (111 - (1+1) \times (11+1)).$
$175 = 11 \times (1+1)^{(1+1+1+1)} - 1.$
$176 = 11 \times (1+1)^{(1+1+1+1)}.$
$177 = 11 \times (1+1)^{(1+1+1+1)} + 1.$
$178 = (1+1) \times (111 - 11 - 11).$
$179 = (11+1+1)^{(1+1)} + 11 - 1.$
$180 = (11+1+1)^{(1+1)} + 11.$
$181 = (11+1+1)^{(1+1)} + 11 + 1.$
$182 = (11+1+1) \times (11+1+1+1).$
$183 = (11+1+1) \times (11+1+1+1) + 1.$
$184 = (1+1) \times ((11-1-1)^{(1+1)} + 11).$
$185 = (11+1+1+1)^{(1+1)} - 11.$
$186 = ((1+1)^{11} - 1 - 1)/11.$
$187 = ((1+1)^{11} - 1 - 1)/11 + 1.$
$188 = ((1+1)^{11} - 1 - 1)/11 + 1 + 1.$
$189 = (11-1-1) \times (11+11-1).$
$190 = (11-1) \times ((1+1) \times (11-1) - 1).$
$191 = (11-1) \times ((1+1) \times (11-1) - 1) + 1.$
$192 = (11-1-1)^{(1+1)} + 111.$
$193 = (11-1-1)^{(1+1)} + 111 + 1.$
$194 = (11+1+1+1)^{(1+1)} - 1 - 1.$
$195 = (11+1+1+1)^{(1+1)} - 1.$
$196 = (11+1+1+1)^{(1+1)}.$
$197 = (11+1+1+1)^{(1+1)} + 1.$
$198 = (1+1) \times 11 \times (11-1-1).$
$199 = (1+1) \times (11-1)^{(1+1)} - 1.$
$200 = (1+1) \times (11-1)^{(1+1)}.$
$201 = (1+1) \times (11-1)^{(1+1)} + 1.$
$202 = (1+1) \times ((11-1)^{(1+1)} + 1).$
$203 = (1+1) \times ((11-1)^{(1+1)} + 1) + 1.$
$204 = (1+1) \times ((11-1)^{(1+1)} + 1 + 1).$
$205 = ((1+1)^{11} + 1 + 1)/(11-1).$
$206 = ((1+1)^{11} + 1 + 1)/(11-1) + 1.$
$207 = (11+1+1+1)^{(1+1)} + 11.$
$208 = (1+1) \times (111-1) - 11 - 1.$
$209 = 11 \times ((1+1) \times (11-1) - 1).$
$210 = (11-1) \times (11+11-1).$
$211 = (1+1) \times 111 - 11.$
$212 = (1+1) \times 111 - 11 + 1.$
$213 = (1+1) \times (111+1) - 11.$
$214 = (1+1) \times (111+1) - 11 + 1.$
$215 = (1+1) \times (111+1+1) - 11.$
$216 = (1+1) \times (111-1-1-1).$
$217 = (1+1) \times (111-1-1) - 1.$
$218 = (1+1) \times (111-1-1).$
$219 = (1+1) \times (111-1) - 1.$
$220 = (1+1) \times (111-1).$
$221 = (1+1) \times 111 - 1.$
$222 = (1+1) \times 111.$
$223 = (1+1) \times 111 + 1.$
$224 = (1+1) \times (111+1).$
$225 = (1+1) \times (111+1) + 1.$
$226 = (1+1) \times (111+1+1).$
$227 = (1+1) \times (111+1+1) + 1.$
$228 = (1+1) \times (111+1+1+1).$
$229 = (1+1) \times (111+1+1+1) + 1.$
$230 = (11-1) \times (11+11+1).$
$231 = 11 \times (11+11-1).$
$232 = 11^{(1+1)} + 111.$
$233 = (1+1) \times 111 + 11.$
$234 = (1+1) \times 111 + 11 + 1.$
$235 = (1+1) \times (111+1) + 11.$
$236 = (1+1) \times (111+1) + 11 + 1.$
$237 = (1+1) \times (111+1+1) + 11.$
$238 = (1+1) \times (11^{(1+1)} - 1 - 1).$
$239 = (1+1) \times (11^{(1+1)} - 1) - 1.$
$240 = (1+1) \times (11^{(1+1)} - 1).$
$241 = (1+1) \times 11^{(1+1)} - 1.$
$242 = (1+1) \times 11^{(1+1)}.$
$243 = (1+1) \times 11^{(1+1)} + 1.$
$244 = (1+1) \times (11^{(1+1)} + 1).$
$245 = (1+1) \times (11^{(1+1)} + 1) + 1.$
$246 = (1+1) \times (11^{(1+1)} + 1 + 1).$
$247 = (1+1) \times (11^{(1+1)} + 1 + 1) + 1.$
$248 = (1+1) \times (11^{(1+1)} + 1 + 1 + 1).$
$249 = (1+1) \times (11^{(1+1)} + 1 + 1 + 1) + 1.$
$250 = (11-1) \times ((1+1) \times (11+1) + 1).$
$251 = (1+1) \times (11^{(1+1)} - 1) + 11.$
$252 = (11+1) \times (11+11-1).$
$253 = 11 \times (11+11+1).$
$254 = 11 \times (11+11+1) + 1.$
$255 = (11+1)^{(1+1)} + 111.$
$256 = (1+1)^{((1+1)^{(1+1+1)})}.$
$257 = (1+1)^{((1+1)^{(1+1+1)})} + 1.$
$258 = (1+1)^{((1+1)^{(1+1+1)})} + 1 + 1.$
$259 = (1+1)^{((1+1)^{(1+1+1)})} + 1 + 1 + 1.$
$260 = (1+1) \times (11-1) \times (11+1+1).$
$261 = (1+1) \times (11 \times (11+1) - 1) - 1.$
$262 = (1+1) \times (11 \times (11+1) - 1).$
$263 = (1+1) \times 11 \times (11+1) - 1.$
$264 = (1+1) \times 11 \times (11+1).$
$265 = (1+1) \times 11 \times (11+1) + 1.$
$266 = (1+1) \times (11 \times (11+1) + 1).$
$267 = (1+1) \times (11 \times (11+1) + 1) + 1.$
$268 = (1+1) \times (11 \times (11+1) + 1 + 1).$
$269 = (1+1) \times (11 \times (11+1) + 1 + 1) + 1.$
$270 = (11-1) \times (1+1+1)^{(1+1+1)}.$
$271 = (11-1) \times (1+1+1)^{(1+1+1)} + 1.$
$272 = (11+1+1) \times (11+11-1) - 1.$
$273 = (11+1+1) \times (11+11-1).$
$274 = 11 \times ((1+1) \times (11+1) + 1) - 1.$
$275 = 11 \times ((1+1) \times (11+1) + 1).$
$276 = (11+1) \times (11+11+1).$
$277 = (11+1) \times (11+11+1) + 1.$
$278 = (1111+1)/(1+1+1+1).$
$279 = (1111+1)/(1+1+1+1) + 1.$
$280 = (11+1+1)^{(1+1)} + 111.$
$281 = (11+1+1)^{(1+1)} + 111 + 1.$
$282 = (1+1) \times ((11+1)^{(1+1)} - 1 - 1 - 1).$
$283 = (1+1) \times ((11+1)^{(1+1)} - 1 - 1) - 1.$
$284 = (1+1) \times ((11+1)^{(1+1)} - 1 - 1).$
$285 = (1+1) \times 11 \times (11+1+1) - 1.$
$286 = (1+1) \times 11 \times (11+1+1).$
$287 = (1+1) \times (11+1)^{(1+1)} - 1.$
$288 = (1+1) \times (11+1)^{(1+1)}.$
$289 = (1+1) \times (11+1)^{(1+1)} + 1.$
$290 = (1+1) \times ((11+1)^{(1+1)} + 1).$
$291 = (1+1) \times ((11+1)^{(1+1)} + 1) + 1.$
$292 = (1+1) \times ((11+1)^{(1+1)} + 1) + 1 + 1.$
$293 = (1+1) \times ((11+1)^{(1+1)} + 1) + 1 + 1 + 1.$

$294 = (1+1)\times((11+1)^{(1+1)}+1)+1+1+1+1.$
$295 = 11\times(1+1+1)^{(1+1+1)}-1-1.$
$296 = 11\times(1+1+1)^{(1+1+1)}-1.$
$297 = 11\times(1+1+1)^{(1+1+1)}.$
$298 = 11\times(1+1+1)^{(1+1+1)}+1.$
$299 = (1+1)\times(11+1)^{(1+1)}+11.$
$300 = (1+1+1)\times(11-1)^{(1+1)}.$
$301 = (1+1+1)\times(11-1)^{(1+1)}+1.$
$302 = (1+1+1)\times(11-1)^{(1+1)}+1+1.$
$303 = (1+1+1)\times((11-1)^{(1+1)}+1).$
$304 = (1+1+1)\times((11-1)^{(1+1)}+1)+1.$
$305 = (11\times111-1)/(1+1+1+1).$
$306 = (1+1)\times(11\times(11+1+1+1)-1).$
$307 = 111+(11+1+1+1)^{(1+1)}.$
$308 = 11\times(1+1)\times(11+1+1+1).$
$309 = 11\times(1+1)\times(11+1+1+1)+1.$
$310 = (1+1)\times((11+1)^{(1+1)}+11).$
$311 = (1+1)\times((11+1)^{(1+1)}+11)+1.$
$312 = (1+1)\times(11+1)\times(11+1+1).$
$313 = (1+1)\times(11+1)\times(11+1+1)+1.$
$314 = (1+1)\times((11+1)\times(11+1+1)+1).$
$315 = ((1+1)^{(11+1)}-1)/(11+1+1).$
$316 = (1+1)\times((11+1+1)^{(1+1)}-11).$
$317 = (1+1)\times((11+1+1)^{(1+1)}-11)+1.$
$318 = (1+1+1)\times(111-1)-11-1.$
$319 = 11\times((1+1+1)\times(11-1)-1).$
$320 = (11-1)\times(11\times(1+1+1)-1).$
$321 = 111\times(1+1+1)-11-1.$
$322 = 111\times(1+1+1)-11.$
$323 = 111\times(1+1+1)-11+1.$
$324 = ((1+1)\times(11-1-1))^{(1+1)}.$
$325 = ((1+1)\times(11-1-1))^{(1+1)}+1.$
$326 = (1+1+1)\times(111-1-1)-1.$
$327 = (1+1+1)\times(111-1-1).$
$328 = (1+1+1)\times(111-1-1)+1.$
$329 = (1+1+1)\times(111-1)-1.$
$330 = (1+1+1)\times(111-1).$
$331 = (1+1+1)\times(111-1)+1.$
$332 = (1+1+1)\times111-1.$
$333 = (1+1+1)\times111.$
$334 = (1+1+1)\times111+1.$
$335 = (1+1+1)\times111+1+1.$
$336 = (1+1+1)\times(111+1).$
$337 = (1+1+1)\times(111+1)+1.$
$338 = (1+1)\times(11+1+1)^{(1+1)}.$
$339 = (1+1+1)\times(111+1+1).$
$340 = (1+1+1)\times(111+1+1)+1.$
$341 = (1+1+1)\times(111-1)+11.$
$342 = (1+1+1)\times(111+1+1+1).$
$343 = (1+1+1)\times111+11-1.$
$344 = (1+1+1)\times111+11.$
$345 = (1+1+1)\times111+11+1.$
$346 = (1+1+1)\times111+11+1+1.$
$347 = (1+1+1)\times(111+1)+11.$
$348 = (1+1+1)\times(111+1)+11+1.$
$349 = (1+1)\times(11+1+1)^{(1+1)}+11.$
$350 = (1+1+1)\times(111+1+1)+11.$
$351 = 11\times(11\times(1+1+1)-1)-1.$
$352 = 11\times(11\times(1+1+1)-1).$
$353 = 11\times(11\times(1+1+1)-1)+1.$
$354 = 11\times(11\times(1+1+1)-1)+1+1.$
$355 = (1+1+1)\times111+11+11.$
$356 = (1+1+1)\times(11^{(1+1)}-1-1)-1.$
$357 = (1+1+1)\times(11^{(1+1)}-1-1).$
$358 = (1+1+1)\times(11^{(1+1)}-1-1)+1.$
$359 = (1+1+1)\times(11^{(1+1)}-1)-1.$
$360 = (1+1+1)\times(11^{(1+1)}-1).$
$361 = ((1+1)\times(11-1)-1)^{(1+1)}.$
$362 = (1+1+1)\times11\times11-1.$
$363 = (1+1+1)\times11\times11.$
$364 = (1+1+1)\times11\times11+1.$
$365 = (1+1+1)\times11\times11+1+1.$
$366 = (1+1+1)\times(11^{(1+1)}+1).$
$367 = (1+1+1)\times(11^{(1+1)}+1)+1.$
$368 = (1+1+1)\times(11^{(1+1)}+1)+1+1.$
$369 = (1+1+1)\times(11^{(1+1)}+1+1).$
$370 = (1111-1)/(1+1+1).$
$371 = (1111-1)/(1+1+1)+1.$
$372 = (1111-1)/(1+1+1)+1+1.$
$373 = (11+11)^{(1+1)}-111.$
$374 = 11\times(11\times(1+1+1)+1).$
$375 = 11\times(11\times(1+1+1)+1)+1.$
$376 = 11\times(11\times(1+1+1)+1)+1+1.$
$377 = (1+1+1)\times(11^{(1+1)}+1)+11.$
$378 = (1+1+1)\times(11^{(1+1)}+1)+11+1.$
$379 = (11-1)\times(111/(1+1+1)+1)-1.$
$380 = (11-1)\times(111/(1+1+1)+1).$
$381 = (1111-1)/(1+1+1)+11.$
$382 = (1111-1)/(1+1+1)+11+1.$
$383 = (11+1)\times(11\times(1+1+1)-1)-1.$
$384 = (11+1)\times(11\times(1+1+1)-1).$
$385 = 11\times(11\times(1+1+1)+1+1).$
$386 = 11\times(11\times(1+1+1)+1+1)+1.$
$387 = 11\times(11\times(1+1+1)+1+1)+1+1.$
$388 = ((1+1)\times(11-1))^{(1+1)}-11-1.$
$389 = ((1+1)\times(11-1))^{(1+1)}-11.$
$390 = ((1+1)\times(11-1))^{(1+1)}-11+1.$
$391 = (1+1)^{(11-1-1)}-11^{(1+1)}.$
$392 = (1+1)\times(11+1+1+1)^{(1+1)}.$
$393 = (1+1+1)\times(11\times(11+1)-1).$
$394 = (1+1+1)\times(11\times(11+1)-1)+1.$
$395 = (1+1+1)\times(11+1)\times11-1.$
$396 = (1+1+1)\times(11+1)\times11.$
$397 = (1+1+1)\times(11+1)\times11+1.$
$398 = ((1+1)\times(11-1))^{(1+1)}-1-1.$
$399 = ((1+1)\times(11-1))^{(1+1)}-1.$
$400 = ((1+1)\times(11-1))^{(1+1)}.$
$401 = ((1+1)\times(11-1))^{(1+1)}+1.$
$402 = ((1+1)\times(11-1))^{(1+1)}+1+1.$
$403 = ((1+1)\times(11-1))^{(1+1)}+1+1+1.$
$404 = (1+1)\times(1+1)\times((11-1)^{(1+1)}+1).$
$405 = 11\times111/(1+1+1)-1-1.$
$406 = 11\times111/(1+1+1)-1.$
$407 = 11\times111/(1+1+1).$
$408 = 11\times111/(1+1+1)+1.$
$409 = 11\times111/(1+1+1)+1+1.$
$410 = ((1+1)\times(11-1))^{(1+1)}+11-1.$
$411 = ((1+1)\times(11-1))^{(1+1)}+11.$
$412 = ((1+1)\times(11-1))^{(1+1)}+11+1.$
$413 = ((1+1)\times(11-1))^{(1+1)}+11+1+1.$
$414 = (1+1)\times((11+1+1+1)^{(1+1)}+11).$
$415 = (11+1+1)\times(11\times(1+1+1)-1)-1.$
$416 = (11+1+1)\times(11\times(1+1+1)-1).$
$417 = 11\times(111/(1+1+1)+1)-1.$
$418 = 11\times(111/(1+1+1)+1).$
$419 = 11\times(111/(1+1+1)+1)+1.$
$420 = (1+1)\times(11-1)\times(11+11-1).$
$421 = (1+1+1)\times(11+1)^{(1+1)}-11.$
$422 = (1+1)\times((1+1)\times111-11).$
$423 = (1+1)\times((1+1)\times111-11)+1.$
$424 = (1+1)\times((1+1)\times111-11+1).$
$425 = (1+1)\times((1+1)\times111-11+1)+1.$

$426 = (1+1)\times((1+1)\times(111+1)-11).$
$427 = (1+1)\times((1+1)\times(111+1)-11)+1.$
$428 = (1+1+1)\times(11+1+1)\times 11-1.$
$429 = (1+1+1)\times(11+1+1)\times 11.$
$430 = (11+11-1)^{(1+1)}-11.$
$431 = (1+1+1)\times(11+1)^{(1+1)}-1.$
$432 = (1+1+1)\times(11+1)^{(1+1)}.$
$433 = (1+1+1)\times(11+1)^{(1+1)}+1.$
$434 = (1+1+1)\times(11+1)^{(1+1)}+1+1.$
$435 = (1+1+1)\times((11+1)^{(1+1)}+1).$
$436 = (1+1)\times(1+1)\times(111-1-1).$
$437 = (1+1)\times(1+1)\times(111-1-1)+1.$
$438 = (1+1)\times((1+1)\times(111-1)-1).$
$439 = (11+11-1)^{(1+1)}-1-1.$
$440 = (1+1)\times(1+1)\times(111-1).$
$441 = (11+11-1)^{(1+1)}.$
$442 = (11+11-1)^{(1+1)}+1.$
$443 = (1+1)\times(1+1)\times 111-1.$
$444 = (1+1)\times(1+1)\times 111.$
$445 = (1+1)\times(1+1)\times 111+1.$
$446 = (1+1)\times((1+1)\times 111+1).$
$447 = (1+1)\times((1+1)\times 111+1)+1.$
$448 = (1+1)\times(1+1)\times(111+1).$
$449 = (1+1)\times(1+1)\times(111+1)+1.$
$450 = (1+1)\times((1+1)\times(111+1)+1).$
$451 = (1+1)\times((1+1)\times(111+1)+1)+1.$
$452 = (11+11-1)^{(1+1)}+11.$
$453 = (11+11-1)^{(1+1)}+11+1.$
$454 = (1+1)\times(1+1)\times 111+11-1.$
$455 = (1+1)\times(1+1)\times 111+11.$
$456 = (1+1)\times(1+1)\times 111+11+1.$
$457 = (1+1)\times((1+1)\times 111+1)+11.$
$458 = (1+1)\times((1+1)\times 111+1)+11+1.$
$459 = (1+1)\times(1+1)\times(111+1)+11.$
$460 = (1+1)\times(11-1)\times(11+11+1).$
$461 = (1+1)\times 11\times(11+11-1)-1.$
$462 = (1+1)\times 11\times(11+11-1).$
$463 = (1+1)\times 11\times(11+11-1)+1.$
$464 = (1+1)\times(11^{(1+1)}+111).$
$465 = (1+1)\times(11^{(1+1)}+111)+1.$
$466 = (1+1)\times((1+1)\times 111+11).$
$467 = (1+1)\times((1+1)\times 111+11)+1.$
$468 = (1+1)\times((1+1)\times 111+11+1).$
$469 = (1+1)\times((1+1)\times 111+11+1)+1.$
$470 = (1+1)\times((1+1)\times(111+1)+11).$
$471 = (11+11)^{(1+1)}-11-1-1.$
$472 = (11+11)^{(1+1)}-11-1.$
$473 = (11+11)^{(1+1)}-11.$
$474 = (11+11)^{(1+1)}-11+1.$
$475 = (11+11)^{(1+1)}-11+1+1.$
$476 = (1+1)\times((1+1)\times(11^{(1+1)}-1-1)).$
$477 = (1+1)\times((1+1)\times(11^{(1+1)}-1-1))+1.$
$478 = (1+1)\times(((1+1)\times(11^{(1+1)}-1-1))+1).$
$479 = (1+1)\times((1+1)\times(11^{(1+1)}-1))-1.$
$480 = (1+1)\times(1+1)\times(11^{(1+1)}-1).$
$481 = (11+11)^{(1+1)}-1-1-1.$
$482 = (11+11)^{(1+1)}-1-1.$
$483 = (11+11)^{(1+1)}-1.$
$484 = (11+11)^{(1+1)}.$
$485 = (11+11)^{(1+1)}+1.$
$486 = (11+11)^{(1+1)}+1+1.$
$487 = (11+11)^{(1+1)}+1+1+1.$
$488 = (1+1)\times(1+1)\times(11^{(1+1)}+1).$
$489 = (1+1)\times(1+1)\times(11^{(1+1)}+1)+1.$
$490 = (1+1)\times((1+1)\times(11^{(1+1)}+1)+1).$
$491 = (1+1)\times((1+1)\times(11^{(1+1)}+1)+1)+1.$
$492 = (1+1)\times(1+1)\times(11^{(1+1)}+1+1).$
$493 = (11+11)^{(1+1)}+11-1-1.$
$494 = (11+11)^{(1+1)}+11-1.$
$495 = (11+11)^{(1+1)}+11.$
$496 = (11+11)^{(1+1)}+11+1.$
$497 = (11+11)^{(1+1)}+11+1+1.$
$498 = (11-1)^{(1+1+1)}/(1+1)-1-1.$
$499 = (11-1)^{(1+1+1)}/(1+1)-1.$
$500 = (11-1)^{(1+1+1)}/(1+1).$
$501 = (1+1)^{(11-1-1)}-11.$
$502 = (1+1)^{(11-1-1)}-11+1.$
$503 = (1+1)^{(11-1-1)}-11+1+1.$
$504 = (1+1)\times(11+1)\times(11+11-1).$
$505 = (11111-1)/(11+11).$
$506 = (1+1)\times 11\times(11+11+1).$
$507 = (1+1+1)\times(11+1+1)^{(1+1)}.$
$508 = (1+1+1)\times(11+1+1)^{(1+1)}+1.$
$509 = (1+1)^{(11-1-1)}-1-1-1.$
$510 = (1+1)^{(11-1-1)}-1-1.$
$511 = (1+1)^{(11-1-1)}-1.$
$512 = (1+1)^{(11-1-1)}.$
$513 = (1+1)^{(11-1-1)}+1.$
$514 = (1+1)^{(11-1-1)}+1+1.$
$515 = (1+1)^{(11-1-1)}+1+1+1.$
$516 = (1+1)^{(11-1-1)}+1+1+1+1.$
$517 = 11\times((1+1)\times(11+11+1)+1).$
$518 = (11+11+1)^{(1+1)}-11.$
$519 = (11+11+1)^{(1+1)}-11+1.$
$520 = (11+11+1)^{(1+1)}-11+1+1.$
$521 = (1+1)^{(11-1-1)}+11-1-1.$
$522 = (1+1)^{(11-1-1)}+11-1.$
$523 = (1+1)^{(11-1-1)}+11.$
$524 = (1+1)^{(11-1-1)}+11+1.$
$525 = (1+1)^{(11-1-1)}+11+1+1.$
$526 = (1+1)\times((1+1)\times 11\times(11+1)-1).$
$527 = (11+11+1)^{(1+1)}-1-1.$
$528 = (11+11+1)^{(1+1)}-1.$
$529 = (11+11+1)^{(1+1)}.$
$530 = (11+11+1)^{(1+1)}+1.$
$531 = (11+11+1)^{(1+1)}+1+1.$
$532 = (11+11+1)^{(1+1)}+1+1+1.$
$533 = (11+11+1)^{(1+1)}+1+1+1+1.$
$534 = (1+1)^{(11-1-1)}+11+11.$
$535 = (1+1)^{(11-1-1)}+11+11+1.$
$536 = (1+1)\times(1+1)\times(11\times(11+1)+1+1).$
$537 = (1+1)^{(11-1-1)}+(1+1)\times(11+1)+1.$
$538 = (11+11+1)^{(1+1)}+11-1-1.$
$539 = (11+11+1)^{(1+1)}+11-1.$
$540 = (11+11+1)^{(1+1)}+11.$
$541 = (11+11+1)^{(1+1)}+11+1.$
$542 = (11+11+1)^{(1+1)}+11+1+1.$
$543 = (1111-1)/(1+1)-11-1.$
$544 = (1111-1)/(1+1)-11.$
$545 = (1111+1)/(1+1)-11.$
$546 = (1111+1)/(1+1)-11+1.$
$547 = (1111+1)/(1+1)-11+1+1.$
$548 = (1111-11)/(1+1)-1-1.$
$549 = (1111-11)/(1+1)-1.$
$550 = (1111-11)/(1+1).$
$551 = (1111-11)/(1+1)+1.$
$552 = (1111-11)/(1+1)+1+1.$
$553 = (1111-1)/(1+1)-1-1.$
$554 = (1111-1)/(1+1)-1.$
$555 = (1111-1)/(1+1).$
$556 = (1111+1)/(1+1).$
$557 = (1111+1)/(1+1)+1.$

$558 = (1111 + 1)/(1 + 1) + 1 + 1.$
$559 = (1111 + 1)/(1 + 1) + 1 + 1 + 1.$
$560 = (11 - 1) \times (111 + 1)/(1 + 1).$
$561 = (1111 + 11)/(1 + 1).$
$562 = (1111 + 11)/(1 + 1) + 1.$
$563 = (1111 + 11)/(1 + 1) + 1 + 1.$
$564 = ((1 + 1) \times (11 + 1))^{(1+1)} - 11 - 1.$
$565 = ((1 + 1) \times (11 + 1))^{(1+1)} - 11.$
$566 = (1111 - 1)/(1 + 1) + 11.$
$567 = (1111 + 1)/(1 + 1) + 11.$
$568 = (1111 + 1)/(1 + 1) + 11 + 1.$
$569 = (1111 + 1)/(1 + 1) + 11 + 1 + 1.$
$570 = (11 - 1) \times ((111 + 1)/(1 + 1) + 1).$
$571 = (11 - 1) \times ((111 + 1)/(1 + 1) + 1) + 1.$
$572 = (1111 + 11)/(1 + 1) + 11.$
$573 = ((1 + 1) \times (11 + 1))^{(1+1)} - 1 - 1 - 1.$
$574 = ((1 + 1) \times (11 + 1))^{(1+1)} - 1 - 1.$
$575 = ((1 + 1) \times (11 + 1))^{(1+1)} - 1.$
$576 = ((1 + 1) \times (11 + 1))^{(1+1)}.$
$577 = ((1 + 1) \times (11 + 1))^{(1+1)} + 1.$
$578 = ((1 + 1) \times (11 + 1))^{(1+1)} + 1 + 1.$
$579 = ((1 + 1) \times (11 + 1))^{(1+1)} + 1 + 1 + 1.$
$580 = (1 + 1) \times (1 + 1) \times ((11 + 1)^{(1+1)} + 1).$
$581 = (1 + 1) \times (1 + 1) \times ((11 + 1)^{(1+1)} + 1) + 1.$
$582 = 11 \times ((111 - 1)/(1 + 1) - 1 - 1) - 1.$
$583 = 11 \times ((111 - 1)/(1 + 1) - 1 - 1).$
$584 = 11 \times ((111 - 1)/(1 + 1) - 1 - 1) + 1.$
$585 = ((1 + 1) \times (11 + 1))^{(1+1)} + 11 - 1 - 1.$
$586 = ((1 + 1) \times (11 + 1))^{(1+1)} + 11 - 1.$
$587 = ((1 + 1) \times (11 + 1))^{(1+1)} + 11.$
$588 = ((1 + 1) \times (11 + 1))^{(1+1)} + 11 + 1.$
$589 = ((1 + 1) \times (11 + 1))^{(1+1)} + 11 + 1 + 1.$
$590 = (11 - 1) \times ((11^{(1+1)} - 1)/(1 + 1) - 1).$
$591 = (1 + 1 + 1) \times ((11 + 1 + 1 + 1)^{(1+1)} + 1).$
$592 = (1 + 1) \times (11 \times (1 + 1 + 1)^{(1+1+1)} - 1).$
$593 = 11 \times ((111 - 1)/(1 + 1) - 1) - 1.$
$594 = 11 \times ((111 - 1)/(1 + 1) - 1).$
$595 = (11 + 11)^{(1+1)} + 111.$
$596 = (11 + 11)^{(1+1)} + 111 + 1.$
$597 = (11 + 11)^{(1+1)} + 111 + 1 + 1.$
$598 = ((1 + 1) \times (11 + 1))^{(1+1)} + 11 + 11.$
$599 = 1111 - (1 + 1)^{(11-1-1)}.$
$600 = (1 + 1) \times (1 + 1 + 1) \times (11 - 1)^{(1+1)}.$
$601 = (1 + 1) \times (1 + 1 + 1) \times (11 - 1)^{(1+1)} + 1.$
$602 = (1 + 1) \times ((1 + 1 + 1) \times (11 - 1)^{(1+1)} + 1).$
$603 = 11 \times (111 - 1)/(1 + 1) - 1 - 1.$
$604 = 11 \times (111 - 1)/(1 + 1) - 1.$
$605 = 11 \times (111 - 1)/(1 + 1).$
$606 = 11 \times (111 - 1)/(1 + 1) + 1.$
$607 = 11 \times (111 - 1)/(1 + 1) + 1 + 1.$
$608 = (11 \times 111 - 1)/(1 + 1) - 1 - 1.$
$609 = (11 \times 111 - 1)/(1 + 1) - 1.$
$610 = (11 \times 111 - 1)/(1 + 1).$
$611 = (11 \times 111 + 1)/(1 + 1).$
$612 = (11 \times 111 + 1)/(1 + 1) + 1.$
$613 = (11 \times 111 + 1)/(1 + 1) + 1 + 1.$
$614 = 11 \times (111 + 1)/(1 + 1) - 1 - 1.$
$615 = 11 \times (111 + 1)/(1 + 1) - 1.$
$616 = 11 \times (111 + 1)/(1 + 1).$
$617 = 11 \times (111 + 1)/(1 + 1) + 1.$
$618 = 11 \times (111 + 1)/(1 + 1) + 1 + 1.$
$619 = 11 \times (111 + 1)/(1 + 1) + 1 + 1 + 1.$
$620 = (11 \times 111 - 1)/(1 + 1) + 11 - 1.$
$621 = (11 \times 111 - 1)/(1 + 1) + 11.$
$622 = (11 \times 111 + 1)/(1 + 1) + 11.$
$623 = (1 + 1)^{(11-1-1)} + 111.$
$624 = ((1 + 1) \times (11 + 1) + 1)^{(1+1)} - 1.$
$625 = ((1 + 1) \times (11 + 1) + 1)^{(1+1)}.$
$626 = ((1 + 1) \times (11 + 1) + 1)^{(1+1)} + 1.$
$627 = 11 \times ((111 + 1)/(1 + 1) + 1).$
$628 = 11 \times ((111 + 1)/(1 + 1) + 1) + 1.$
$629 = 11 \times ((111 + 1)/(1 + 1) + 1) + 1 + 1.$
$630 = (1 + 1 + 1) \times (11 - 1) \times (11 + 11 - 1).$
$631 = (1 + 1 + 1) \times (11 - 1) \times (11 + 11 - 1) + 1.$
$632 = 11^{(1+1)} + (1 + 1)^{(11-1-1)} - 1.$
$633 = (1 + 1 + 1) \times ((1 + 1) \times 111 - 11).$
$634 = 11^{(1+1)} + (1 + 1)^{(11-1-1)} + 1.$
$635 = ((1 + 1) \times (11 + 1) + 1)^{(1+1)} + 11 - 1.$
$636 = ((1 + 1) \times (11 + 1) + 1)^{(1+1)} + 11.$
$637 = ((1 + 1) \times (11 + 1) + 1)^{(1+1)} + 11 + 1.$
$638 = 11 \times ((111 + 1)/(1 + 1) + 1 + 1).$
$639 = 11 \times ((111 + 1)/(1 + 1) + 1 + 1) + 1.$
$640 = (11 + 11 + 1)^{(1+1)} + 111.$
$641 = (11 + 11 + 1)^{(1+1)} + 111 + 1.$
$642 = (1 + 1) \times ((1 + 1 + 1) \times 111 - 11 - 1).$
$643 = (1 + 1) \times ((1 + 1 + 1) \times 111 - 11) - 1.$
$644 = (1 + 1) \times ((1 + 1 + 1) \times 111 - 11).$
$645 = (1 + 1) \times ((1 + 1 + 1) \times 111 - 11) + 1.$
$646 = (1 + 1) \times ((1 + 1 + 1) \times 111 - 11 + 1).$
$647 = (1 + 1) \times ((1 + 1) \times (11 - 1 - 1))^{(1+1)} - 1.$
$648 = (1 + 1) \times ((1 + 1) \times (11 - 1 - 1))^{(1+1)}.$
$649 = 11 \times ((11^{(1+1)} - 1)/(1 + 1) - 1).$
$650 = 11 \times ((11^{(1+1)} - 1)/(1 + 1) - 1) + 1.$
$651 = (1 + 1 + 1) \times ((1 + 1) \times (111 - 1 - 1) - 1).$
$652 = (1 + 1) \times ((1 + 1 + 1) \times (111 - 1 - 1) - 1).$
$653 = (11^{(1+1+1)} - 1)/(1 + 1) - 11 - 1.$
$654 = (1 + 1) \times (1 + 1 + 1) \times (111 - 1 - 1).$
$655 = (1 + 1) \times (1 + 1 + 1) \times 111 - 11.$
$656 = (1 + 1) \times (1 + 1 + 1) \times 111 - 11 + 1.$
$657 = (1 + 1 + 1) \times ((1 + 1) \times (111 - 1) - 1).$
$658 = (1 + 1) \times ((1 + 1 + 1) \times (111 - 1) - 1).$
$659 = (1 + 1) \times (1 + 1 + 1) \times (111 - 1) - 1.$
$660 = (1 + 1) \times (1 + 1 + 1) \times (111 - 1).$
$661 = (1 + 1) \times (1 + 1 + 1) \times (111 - 1) + 1.$
$662 = (1 + 1) \times ((1 + 1 + 1) \times (111 - 1) + 1).$
$663 = (1 + 1 + 1) \times ((1 + 1) \times 111 - 1).$
$664 = (1 + 1) \times ((1 + 1 + 1) \times 111 - 1).$
$665 = (11^{(1+1+1)} - 1)/(1 + 1).$
$666 = (1 + 1) \times (1 + 1 + 1) \times 111.$
$667 = (1 + 1) \times (1 + 1 + 1) \times 111 + 1.$
$668 = (1 + 1) \times ((1 + 1 + 1) \times 111 + 1).$
$669 = (1 + 1 + 1) \times ((1 + 1) \times 111 + 1).$
$670 = (1 + 1 + 1) \times ((1 + 1) \times 111 + 1) + 1.$
$671 = 11 \times (11^{(1+1)} + 1)/(1 + 1).$
$672 = (1 + 1) \times (1 + 1 + 1) \times (111 + 1).$
$673 = (1 + 1) \times (1 + 1 + 1) \times (111 + 1) + 1.$
$674 = (1 + 1) \times ((1 + 1 + 1) \times (111 + 1) + 1).$
$675 = ((1 + 1) \times (11 + 1 + 1))^{(1+1)} - 1.$
$676 = ((1 + 1) \times (11 + 1 + 1))^{(1+1)}.$
$677 = ((1 + 1) \times (11 + 1 + 1))^{(1+1)} + 1.$
$678 = ((1 + 1) \times (11 + 1 + 1))^{(1+1)} + 1 + 1.$
$679 = ((1 + 1)^{11} - 11)/(1 + 1 + 1).$
$680 = ((1 + 1)^{11} - 11)/(1 + 1 + 1) + 1.$
$681 = ((1 + 1)^{11} + 1)/(1 + 1 + 1) - 1 - 1.$
$682 = ((1 + 1)^{11} - 1 - 1)/(1 + 1 + 1).$
$683 = ((1 + 1)^{11} + 1)/(1 + 1 + 1).$
$684 = ((1 + 1)^{11} + 1)/(1 + 1 + 1) + 1.$
$685 = ((1 + 1)^{11} + 1)/(1 + 1 + 1) + 1 + 1.$
$686 = ((1 + 1)^{11} + 11 - 1)/(1 + 1 + 1).$
$687 = ((1 + 1) \times (11 + 1 + 1))^{(1+1)} + 11.$
$688 = (1 + 1) \times ((1 + 1 + 1) \times 111 + 11).$
$689 = (1 + 1) \times ((1 + 1 + 1) \times 111 + 11) + 1.$

$690 = ((1+1)^{11} - 11)/(1+1+1) + 11.$
$691 = (1+1)^{(11-1)} - (1+1+1) \times 111.$
$692 = 11 \times (1+1+1) \times (11+11-1) - 1.$
$693 = 11 \times (1+1+1) \times (11+11-1).$
$694 = ((1+1)^{11} + 1)/(1+1+1) + 11.$
$695 = ((1+1)^{11} + 1)/(1+1+1) + 11 + 1.$
$696 = (1+1+1) \times (11^{(1+1)} + 111).$
$697 = (1+1+1) \times (11^{(1+1)} + 111) + 1.$
$698 = (1+1+1) \times ((1+1) \times 111 + 11) - 1.$
$699 = (1+1+1) \times ((1+1) \times 111 + 11).$
$700 = (1+1+1) \times ((1+1) \times 111 + 11) + 1.$
$701 = (1+1+1) \times ((1+1) \times 111 + 11) + 1 + 1.$
$702 = (1+1) \times (11 \times (11 \times (1+1+1) - 1) - 1).$
$703 = 11 \times (1+1)^{((1+1)\times(1+1+1))} - 1.$
$704 = 11 \times (1+1)^{((1+1)\times(1+1+1))}.$
$705 = 11 \times (1+1)^{((1+1)\times(1+1+1))} + 1.$
$706 = 11 \times (1+1)^{((1+1)\times(1+1+1))} + 1 + 1.$
$707 = (11-1-1)^{(1+1+1)} - 11 - 11.$
$708 = (11+1) \times ((11^{(1+1)} - 1)/(1+1) - 1).$
$709 = 11 \times 111 - (1+1)^{(11-1-1)}.$
$710 = (11-1) \times ((11+1)^{(1+1)}/(1+1) - 1).$
$711 = 1111 - ((1+1) \times (11-1))^{(1+1)}.$
$712 = 1111 - ((1+1) \times (11-1))^{(1+1)} + 1.$
$713 = (11+11+1) \times ((1+1+1) \times (11-1) + 1).$
$714 = (1+1) \times (1+1+1) \times (11^{(1+1)} - 1 - 1).$
$715 = 11 \times ((1+1)^{((1+1)\times(1+1+1))} + 1).$
$716 = (1+1)^{11} - 11^{(1+1+1)} - 1.$
$717 = (1+1)^{11} - 11^{(1+1+1)}.$
$718 = (11-1-1)^{(1+1+1)} - 11.$
$719 = (11-1-1)^{(1+1+1)} - 11 + 1.$
$720 = (1+1) \times (1+1+1) \times (11^{(1+1)} - 1).$
$721 = (11^{(1+1+1)} + 111)/(1+1).$
$722 = (1+1) \times ((1+1) \times (11-1) - 1)^{(1+1)}.$
$723 = (1+1+1) \times ((1+1) \times 11^{(1+1)} - 1).$
$724 = (1+1) \times (11 \times 11 \times (1+1+1) - 1).$
$725 = (1+1) \times 11 \times 11 \times (1+1+1) - 1.$
$726 = (1+1) \times 11 \times 11 \times (1+1+1).$
$727 = (11-1-1)^{(1+1+1)} - 1 - 1.$
$728 = (11-1-1)^{(1+1+1)} - 1.$
$729 = (11-1-1)^{(1+1+1)}.$
$730 = (11-1-1)^{(1+1+1)} + 1.$
$731 = (11-1-1)^{(1+1+1)} + 1 + 1.$
$732 = (11-1-1)^{(1+1+1)} + 1 + 1 + 1.$
$733 = (11-1-1)^{(1+1+1)} + 1 + 1 + 1 + 1.$
$734 = (1+1) \times ((1+1+1) \times (11^{(1+1)} + 1) + 1).$
$735 = (1+1+1) \times ((1+1) \times (11^{(1+1)} + 1) + 1).$
$736 = ((1+1) \times (11+1) + 1)^{(1+1)} + 111.$
$737 = 11 \times (11 \times (1+1) \times (1+1+1) + 1).$
$738 = 11 \times (11 \times (1+1) \times (1+1+1) + 1) + 1.$
$739 = (11-1-1)^{(1+1+1)} + 11 - 1.$
$740 = (11-1-1)^{(1+1+1)} + 11.$
$741 = (11-1-1)^{(1+1+1)} + 11 + 1.$
$742 = (11-1-1)^{(1+1+1)} + 11 + 1 + 1.$
$743 = (11-1-1)^{(1+1+1)} + 11 + 1 + 1 + 1.$
$744 = (11+1) \times ((11^{(1+1)} + 1)/(1+1) + 1).$
$745 = ((1+1)^{(11+1+1)} + 1 + 1 + 1)/11.$
$746 = (1+1) \times ((11+11)^{(1+1)} - 111).$
$747 = (1+1) \times 11 \times (11 \times (1+1+1) + 1) - 1.$
$748 = (1+1) \times 11 \times (11 \times (1+1+1) + 1).$
$749 = (1+1) \times 11 \times (11 \times (1+1+1) + 1) + 1.$
$750 = (1+1) \times (11 \times (11 \times (1+1+1) + 1) + 1).$
$751 = (11-1-1)^{(1+1+1)} + 11 + 11.$
$752 = (11-1-1)^{(1+1+1)} + 11 + 11 + 1.$
$753 = (11+1)^{(1+1+1)}/(1+1) - 111.$
$754 = (11+1)^{(1+1+1)}/(1+1) - 111 + 1.$
$755 = 11^{(1+1+1)} - ((1+1) \times (11+1))^{(1+1)}.$
$756 = (1+1+1) \times (11+1) \times (11+11-1).$
$757 = (1+1+1) \times (11+1) \times (11+11-1) + 1.$
$758 = 11 \times (1+1+1) \times (11+11+1) - 1.$
$759 = 11 \times (1+1+1) \times (11+11+1).$
$760 = 11 \times (1+1+1) \times (11+11+1) + 1.$
$761 = 11 \times (1+1+1) \times (11+11+1) + 1 + 1.$
$762 = (1+1+1) \times (11 \times (11+11+1) + 1).$
$763 = (111-1-1) \times (11-1-1-1-1).$
$764 = (111-1-1) \times (11-1-1-1-1) + 1.$
$765 = (1+1+1) \times ((11+1)^{(1+1)} + 111).$
$766 = 111 \times ((1+1) \times (1+1+1) + 1) - 11.$
$767 = (1+1+1) \times (1+1)^{((1+1)^{(1+1+1)})} - 1.$
$768 = (1+1+1) \times (1+1)^{((1+1)^{(1+1+1)})}.$
$769 = (1+1+1) \times (1+1)^{((1+1)^{(1+1+1)})} + 1.$
$770 = 11 \times ((11-1-1)^{(1+1)} - 11).$
$771 = 11 \times ((11-1-1)^{(1+1)} - 11) + 1.$
$772 = 11 \times ((11-1-1)^{(1+1)} - 11) + 1 + 1.$
$773 = ((1+1+1)^{(1+1+1)} + 1)^{(1+1)} - 11.$
$774 = ((1+1+1)^{(1+1+1)} + 1)^{(1+1)} - 11 + 1.$
$775 = 1111 - (1+1+1) \times (111+1).$
$776 = 111 \times ((1+1) \times (1+1+1) + 1) - 1.$
$777 = 111 \times ((1+1) \times (1+1+1) + 1).$
$778 = 111 \times ((1+1) \times (1+1+1) + 1) + 1.$
$779 = 111 \times ((1+1) \times (1+1+1) + 1) + 1 + 1.$
$780 = (11-1) \times (111 - 11 \times (1+1+1)).$
$781 = 11 \times ((11+1)^{(1+1)}/(1+1) - 1).$
$782 = 11 \times ((11+1)^{(1+1)}/(1+1) - 1) + 1.$
$783 = ((1+1+1)^{(1+1+1)} + 1)^{(1+1)} - 1.$
$784 = ((1+1+1)^{(1+1+1)} + 1)^{(1+1)}.$
$785 = ((1+1+1)^{(1+1+1)} + 1)^{(1+1)} + 1.$
$786 = ((1+1+1)^{(1+1+1)} + 1)^{(1+1)} + 1 + 1.$
$787 = ((1+1) \times (11+1+1))^{(1+1)} + 111.$
$788 = 111 \times ((1+1) \times (1+1+1) + 1) + 11.$
$789 = (1+1+1) \times ((1+1) \times 11 \times (11+1) - 1).$
$790 = (1+1) \times (11 \times (1+1+1) \times (11+1) - 1).$
$791 = 11 \times (11+1)^{(1+1)}/(1+1) - 1.$
$792 = 11 \times (11+1)^{(1+1)}/(1+1).$
$793 = 11 \times (11+1)^{(1+1)}/(1+1) + 1.$
$794 = 11 \times (11+1)^{(1+1)}/(1+1) + 1 + 1.$
$795 = 11 + ((1+1+1)^{(1+1+1)} + 1)^{(1+1)}.$
$796 = (1+1) \times (((1+1) \times (11-1))^{(1+1)} - 1 - 1).$
$797 = (11 \times ((11+1)^{(1+1)} + 1) - 1)/(1+1).$
$798 = (1+1) \times (((1+1) \times (11-1))^{(1+1)} - 1).$
$799 = (1+1) \times ((1+1) \times (11-1))^{(1+1)} - 1.$
$800 = (1+1) \times ((1+1) \times (11-1))^{(1+1)}.$
$801 = (1+1) \times ((1+1) \times (11-1))^{(1+1)} + 1.$
$802 = (1+1) \times (((1+1) \times (11-1))^{(1+1)} + 1).$
$803 = 11 \times ((11+1)^{(1+1)}/(1+1) + 1).$
$804 = 11 \times ((11+1)^{(1+1)}/(1+1) + 1) + 1.$
$805 = (1+1)^{11} - 11 \times (111+1+1).$
$806 = (1+1)^{11} - 11 \times (111+1+1) + 1.$
$807 = (11-1) \times (11-1-1)^{(1+1)} - 1 - 1 - 1.$
$808 = (11-1) \times (11-1-1)^{(1+1)} - 1 - 1.$
$809 = (11-1) \times (11-1-1)^{(1+1)} - 1.$
$810 = (11-1) \times (11-1-1)^{(1+1)}.$
$811 = (11-1) \times (11-1-1)^{(1+1)} + 1.$
$812 = (11-1) \times (11-1-1)^{(1+1)} + 1 + 1.$
$813 = (1+1) \times 11 \times 111/(1+1+1) - 1.$
$814 = (1+1) \times 11 \times 111/(1+1+1).$
$815 = (1+1) \times 11 \times 111/(1+1+1) + 1.$
$816 = (1+1)^{11} - 11 \times (111+1).$
$817 = (1+1)^{11} - 11 \times (111+1) + 1.$
$818 = (1+1)^{11} - 11 \times (111+1) + 1 + 1.$
$819 = 11^{(1+1+1)} - (1+1)^{(11-1-1)}.$
$820 = (11-1) \times ((11-1-1)^{(1+1)} + 1).$

$821 = (11-1)\times((11-1-1)^{(1+1)}+1)+1.$
$822 = (1+1)\times(((1+1)\times(11-1))^{(1+1)}+11).$
$823 = 1111-(1+1)\times(11+1)^{(1+1)}.$
$824 = 1111-(1+1)\times(11+1)^{(1+1)}+1.$
$825 = 11\times((1+1)\times 111/(1+1+1)+1).$
$826 = (1+1)^{11}-11\times 111-1.$
$827 = (1+1)^{11}-11\times 111.$
$828 = (1+1)^{11}-11\times 111+1.$
$829 = (1+1)^{11}-11\times 111+1+1.$
$830 = (11-1)\times((11-1-1)^{(1+1)}+1+1).$
$831 = (11-1)\times((11-1-1)^{(1+1)}+1+1)+1.$
$832 = (11+1+1)\times(1+1)^{((1+1)\times(1+1+1))}.$
$833 = (11+1+1)\times(1+1)^{((1+1)\times(1+1+1))}+1.$
$834 = (1+1)\times(11\times(111/(1+1+1)+1)-1).$
$835 = 1111-(11+1)\times(11+11+1).$
$836 = (1+1)\times 11\times(111/(1+1+1)+1).$
$837 = (1+1)^{11}-11\times(111-1)-1.$
$838 = (1+1)^{11}-11\times(111-1).$
$839 = (1+1)^{11}-11\times(111-1)+1.$
$840 = (11-1-1)^{(1+1+1)}+111.$
$841 = ((1+1+1)\times(11-1)-1)^{(1+1)}.$
$842 = ((1+1+1)\times(11-1)-1)^{(1+1)}+1.$
$843 = ((1+1+1)\times(11-1)-1)^{(1+1)}+1+1.$
$844 = (1+1)\times(1+1)\times((1+1)\times 111-11).$
$845 = (1+1+1+1+1)\times(11+1+1)^{(1+1)}.$
$846 = 11\times 11\times((1+1)\times(1+1+1)+1)-1.$
$847 = 11\times 11\times((1+1)\times(1+1+1)+1).$
$848 = 11\times 11\times((1+1)\times(1+1+1)+1)+1.$
$849 = ((1+1)^{11})+(11\times((1-111)+1)).$
$850 = 11^{(1+1)}+(11-1-1)^{(1+1+1)}.$
$851 = (11+11+1)\times 111/(1+1+1).$
$852 = ((1+1+1)\times(11-1)-1)^{(1+1)}+11.$
$853 = (11+1)^{(1+1+1)}/(1+1)-11.$
$854 = (11+1)^{(1+1+1)}/(1+1)-11+1.$
$855 = 1111-(1+1)^{((1+1)^{(1+1+1)})}.$
$856 = (11-1)^{(1+1+1)}-(11+1)^{(1+1)}.$
$857 = (1+1)\times(11+11)^{(1+1)}-111.$
$858 = 11\times(111-11\times(1+1+1)).$
$859 = 11\times(111-11\times(1+1+1))+1.$
$860 = (1+1)\times((11+11-1)^{(1+1)}-11).$
$861 = (11+1)^{(1+1+1)}/(1+1)-1-1-1.$
$862 = (11+1)^{(1+1+1)}/(1+1)-1-1.$
$863 = (11+1)^{(1+1+1)}/(1+1)-1.$
$864 = (11+1)^{(1+1+1)}/(1+1).$
$865 = (11+1)^{(1+1+1)}/(1+1)+1.$
$866 = (11+1)^{(1+1+1)}/(1+1)+1+1.$
$867 = (11+1)^{(1+1+1)}/(1+1)+1+1+1.$
$868 = 1111-(1+1)\times 11^{(1+1)}-1.$
$869 = 11\times((11-1-1)^{(1+1)}-1-1).$
$870 = 11\times((11-1-1)^{(1+1)}-1-1)+1.$
$871 = 1111-(1+1)\times(11^{(1+1)}-1).$
$872 = (111-1-1)\times(11-1-1-1).$
$873 = (111-1-1)\times(11-1-1-1)+1.$
$874 = 11+((11+1)^{(1+1+1)}/(1+1)-1).$
$875 = 11+(11+1)^{(1+1+1)}/(1+1).$
$876 = 11+(11+1)^{(1+1+1)}/(1+1)+1.$
$877 = (1+1)^{(1+1+1)}\times 111-11.$
$878 = (1+1)^{(1+1+1)}\times 111-11+1.$
$879 = (11-1)^{(1+1+1)}-11^{(1+1)}.$
$880 = 11\times((11-1-1)^{(1+1)}-1).$
$881 = 11\times((11-1-1)^{(1+1)}-1)+1.$
$882 = (1+1)\times(11+11-1)^{(1+1)}.$
$883 = (1+1)\times(11+11-1)^{(1+1)}+1.$
$884 = (1+1)\times((11+11-1)^{(1+1)}+1).$
$885 = (1+1)\times((11+11-1)^{(1+1)}+1)+1.$
$886 = (1+1)\times((1+1)\times(1+1)\times 111-1).$
$887 = (1+1)^{(1+1+1)}\times 111-1.$
$888 = (1+1)^{(1+1+1)}\times 111.$
$889 = (1+1)^{(1+1+1)}\times 111+1.$
$890 = 11\times(11-1-1)^{(1+1)}-1.$
$891 = 11\times(11-1-1)^{(1+1)}.$
$892 = 11\times(11-1-1)^{(1+1)}+1.$
$893 = 11\times(11-1-1)^{(1+1)}+1+1.$
$894 = 11\times(11-1-1)^{(1+1)}+1+1+1.$
$895 = (111+1)\times(1+1)^{(1+1+1)}-1.$
$896 = (111+1)\times(1+1)^{(1+1+1)}.$
$897 = (111+1)\times(1+1)^{(1+1+1)}+1.$
$898 = ((1+1+1)\times(11-1))^{(1+1)}-1-1.$
$899 = ((1+1+1)\times(11-1))^{(1+1)}-1.$
$900 = ((1+1+1)\times(11-1))^{(1+1)}.$
$901 = ((1+1+1)\times(11-1))^{(1+1)}+1.$
$902 = 11\times((11-1-1)^{(1+1)}+1).$
$903 = (1+1)^{(11-1)}-11^{(1+1)}.$
$904 = (1+1)^{(11-1)}-11^{(1+1)}+1.$
$905 = (1+1)^{(11-1)}-11^{(1+1)}+1+1.$
$906 = (1+1)^{(11-1)}-11^{(1+1)}+1+1+1.$
$907 = (111+1)\times(1+1)^{(1+1+1)}+11.$
$908 = (11-1-1)\times((11-1)^{(1+1)}+1)-1.$
$909 = (11-1-1)\times((11-1)^{(1+1)}+1).$
$910 = (11-1-1)\times((11-1)^{(1+1)}+1)+1.$
$911 = ((1+1+1)\times(11-1))^{(1+1)}+11.$
$912 = (1+1)^{(11-1)}-111-1.$
$913 = (1+1)^{(11-1)}-111.$
$914 = (1+1)^{(11-1)}-111+1.$
$915 = (1+1)^{(11-1)}-111+1+1.$
$916 = (1+1)^{(11-1)}-111+1+1+1.$
$917 = (1+1)^{(11-1)}-111+1+1+1+1.$
$918 = (11-1-1)\times((11-1)^{(1+1)}+1+1).$
$919 = (11-1-1)\times((11-1)^{(1+1)}+1+1)+1.$
$920 = (11-1)\times((11-1-1)^{(1+1)}+11).$
$921 = (11-1)\times((11-1-1)^{(1+1)}+11)+1.$
$922 = ((1+1+1)\times(11-1))^{(1+1)}+11+11.$
$923 = (1+1)^{(11-1)}+11-111-1.$
$924 = (1+1)^{(11-1)}+11-111.$
$925 = (11111-11)/(11+1).$
$926 = (11111+1)/(11+1).$
$927 = (11111+1)/(11+1)+1.$
$928 = (11111+1)/(11+1)+1+1.$
$929 = (11111+1)/(11+1)+1+1+1.$
$930 = (11-1)\times((1+1)^{(11-1)}-1)/11.$
$931 = ((11-1)\times(1+1)^{(11-1)}+1)/11.$
$932 = (1+1)\times(1+1)\times((1+1)\times 111+11).$
$933 = (1+1)\times(1+1)\times((1+1)\times 111+11)+1.$
$934 = (1+1)^{11}-1111-1-1-1.$
$935 = (1+1)^{11}-1111-1-1.$
$936 = (1+1)^{11}-1111-1.$
$937 = (1+1)^{11}-1111.$
$938 = (1+1)^{11}-1111+1.$
$939 = (1+1)^{11}-1111+1+1.$
$940 = (1+1)^{11}-1111+1+1+1.$
$941 = 1111-(11+1+1)^{(1+1)}-1.$
$942 = 1111-(11+1+1)^{(1+1)}.$
$943 = 1111-(11+1+1)^{(1+1)}+1.$
$944 = (1+1)\times((11+11)^{(1+1)}-11-1).$
$945 = (1+1)\times((11+11)^{(1+1)}-11)-1.$
$946 = (1+1)\times((11+11)^{(1+1)}-11).$
$947 = (1+1)\times((11+11)^{(1+1)}-11)+1.$
$948 = (1+1)^{11}-1111+11.$
$949 = (1+1)^{11}-1111+11+1.$
$950 = ((1+1+1)\times(11-1)+1)^{(1+1)}-11.$
$951 = ((1+1+1)\times(11-1)+1)^{(1+1)}-11+1.$

$952 = (1+1)^{(1+1+1)} \times (11^{(1+1)} - 1 - 1)$.
$953 = (1+1)^{(1+1+1)} \times (11^{(1+1)} - 1 - 1) + 1$.
$954 = (11 - 1 - 1) \times (111 - (11-1)/(1+1))$.
$955 = 1111 - (11+1) \times (11+1+1)$.
$956 = 1111 - (11+1)^{(1+1)} - 11$.
$957 = 11 \times (111 - (1+1) \times (11+1))$.
$958 = 11 \times (111 - (1+1) \times (11+1)) + 1$.
$959 = (1+1)^{11} - (11 \times (1+1+1))^{(1+1)}$.
$960 = (11+1) \times ((11-1-1)^{(1+1)} - 1)$.
$961 = ((1+1+1) \times (11-1) + 1)^{(1+1)}$.
$962 = ((1+1+1) \times (11-1) + 1)^{(1+1)} + 1$.
$963 = ((1+1+1) \times (11-1) + 1)^{(1+1)} + 1 + 1$.
$964 = (1+1) \times ((11+11)^{(1+1)} - 1 - 1)$.
$965 = (1+1) \times ((11+11)^{(1+1)} - 1) - 1$.
$966 = (1+1) \times ((11+11)^{(1+1)} - 1)$.
$967 = 1111 - (11+1)^{(1+1)}$.
$968 = (1+1) \times (11+11)^{(1+1)}$.
$969 = (1+1) \times (11+11)^{(1+1)} + 1$.
$970 = (1+1) \times ((11+11)^{(1+1)} + 1)$.
$971 = (1+1) \times ((11+11)^{(1+1)} + 1) + 1$.
$972 = (11+1) \times (11-1-1)^{(1+1)}$.
$973 = (11+1) \times (11-1-1)^{(1+1)} + 1$.
$974 = (11+1) \times (11-1-1)^{(1+1)} + 1 + 1$.
$975 = (11+1)^{(1+1+1)}/(1+1) + 111$.
$976 = (1+1)^{(1+1+1)} \times (11^{(1+1)} + 1)$.
$977 = (1+1)^{(1+1+1)} \times (11^{(1+1)} + 1) + 1$.
$978 = 11 \times (111 - 11 - 11) - 1$.
$979 = 11 \times (111 - 11 - 11)$.
$980 = 11 \times (111 - 11 - 11) + 1$.
$981 = (11 - 1 - 1) \times (111 - 1 - 1)$.
$982 = (11 - 1 - 1) \times (111 - 1 - 1) + 1$.
$983 = (11 - 1 - 1) \times (111 - 1 - 1) + 1 + 1$.
$984 = (11+1) \times ((11-1-1)^{(1+1)} + 1)$.
$985 = (11+1) \times ((11-1-1)^{(1+1)} + 1) + 1$.
$986 = (11-1)^{(1+1+1)} - 11 - 1 - 1 - 1$.
$987 = (11-1)^{(1+1+1)} - 11 - 1 - 1$.
$988 = (11-1)^{(1+1+1)} - 11 - 1$.
$989 = (11-1)^{(1+1+1)} - 11$.
$990 = (11 - 1 - 1) \times (111 - 1)$.
$991 = (11 - 1 - 1) \times (111 - 1) + 1$.
$992 = (11 - 1 - 1) \times (111 - 1) + 1 + 1$.
$993 = (11 - 1 - 1) \times (111 - 1) + 1 + 1 + 1$.
$994 = (1+1)^{(11-1)} - (1+1+1) \times (11-1)$.
$995 = (11-1)^{(1+1+1)} - (11-1)/(1+1)$.
$996 = (1+1+1) \times ((1+1+1) \times 111 - 1)$.
$997 = (11-1)^{(1+1+1)} - 1 - 1 - 1$.
$998 = (11-1)^{(1+1+1)} - 1 - 1$.
$999 = 111 \times (11 - 1 - 1)$.
$1000 = (11-1)^{(1+1+1)}$.

5. Representations Using Number 2

$101 = 2222/22$.
$102 = 2 + (2 \times (2+2) + 2)^2$.
$103 = 2 + 2222/22$.
$104 = 2 \times 2 \times (22 + 2 + 2)$.
$105 = 222/2 - 2 - 2 - 2$.
$106 = 2 + 2 \times 2 \times (22 + 2 + 2)$.
$107 = 222/2 - 2 - 2$.
$108 = (222 - 2)/2 - 2$.
$109 = 222/2 - 2$.
$110 = (222 - 2)/2$.
$111 = 222/2$.
$112 = (222 + 2)/2$.
$113 = 2 + 222/2$.
$114 = 2 + (222 + 2)/2$.
$115 = 2 + 2 + 222/2$.
$116 = 2 + 2 + (222 + 2)/2$.
$117 = (22/2)^2 - 2 - 2$.
$118 = 2 \times 2 \times (22 + 2) + 22$.
$119 = (22/2)^2 - 2$.
$120 = (2 + 2 + 2) \times (22 - 2)$.
$121 = (22/2)^2$.
$122 = (22/2)^2 + 2/2$.
$123 = (22/2)^2 + 2$.
$124 = 2 \times (2^{(2+2+2)} - 2)$.
$125 = (22/2)^2 + 2 + 2$.
$126 = 2 \times 2^{(2+2+2)} - 2$.
$127 = (2^{2\times(2+2)} - 2)/2$.
$128 = 2 \times 2^{(2+2+2)}$.
$129 = (2^{2\times(2+2)} + 2)/2$.
$130 = 2 \times 2^{(2+2+2)} + 2$.
$131 = 22 \times (2 + 2 + 2) - 2/2$.
$132 = 22 \times (2 + 2 + 2)$.
$133 = 22 + 222/2$.
$134 = 22 \times (2 + 2 + 2) + 2$.
$135 = 22 + 2 + 222/2$.
$136 = 22 \times (2 + 2 + 2) + 2 + 2$.
$137 = 2^{(2+2)} + (22/2)^2$.
$138 = (2 + 2/2) \times (2 \times 22 + 2)$.
$139 = (2^{2\times(2+2)} + 22)/2$.
$140 = 2 \times (2 \times (22 + 2) + 22)$.
$141 = 22 - 2 + (22/2)^2$.
$142 = (2 \times (2 + 2 + 2))^2 - 2$.
$143 = 22 + (22/2)^2$.
$144 = (2 \times (2 + 2 + 2))^2$.
$145 = (22/2)^2 + 22 + 2$.
$146 = (2 \times (2 + 2 + 2))^2 + 2$.
$147 = (2 + 22/2)^2 - 22$.
$148 = (2 \times (2 + 2 + 2))^2 + 2 + 2$.
$149 = (2 + 22/2)^2 - 22 + 2$.
$150 = 2 \times 2^{(2+2+2)} + 22$.
$151 = (2^{2\times(2+2)} + 2)/2 + 22$.
$152 = 2 \times 2 \times ((2 + 2 + 2)^2 + 2)$.
$153 = 2 \times 22 - 2 + 222/2$.
$154 = 22 + 22 \times (2 + 2 + 2)$.
$155 = 2 \times 22 + 222/2$.
$156 = 2 \times (2 \times 2 \times (22 - 2) - 2)$.
$157 = 2 \times 22 + 2 + 222/2$.
$158 = 2 \times ((2 + 2/2)^{(2+2)} - 2)$.
$159 = 2 \times (22 + 2) + 222/2$.
$160 = 2 \times 2 \times 2 \times (22 - 2)$.
$161 = ((2^{(2+2)} + 2)^2 - 2)/2$.
$162 = 2 \times (2 + 2/2)^{(2+2)}$.
$163 = ((2^{(2+2)} + 2)^2 + 2)/2$.
$164 = 2 \times (2 + 2/2)^{(2+2)} + 2$.
$165 = 2 \times 22 + (22/2)^2$.
$166 = 2 \times ((2 + 2/2)^{(2+2)} + 2)$.
$167 = (2 + 22/2)^2 - 2$.
$168 = 2 \times 2 \times (2 \times 22 - 2)$.
$169 = (2 + 22/2)^2$.
$170 = 2 \times 2 \times (2 \times 22 - 2) + 2$.
$171 = (2 + 22/2)^2 + 2$.
$172 = 2 \times (2 \times 2 \times 22 - 2)$.
$173 = (2 + 22/2)^2 + 2 + 2$.
$174 = 2 \times 2 \times 2 \times 22 - 2$.
$175 = 2 \times 2 \times 2 \times 22 - 2/2$.
$176 = 2 \times 2 \times 2 \times 22$.
$177 = 2 \times 2 \times 2 \times 22 + 2/2$.
$178 = 2 \times 2 \times 2 \times 22 + 2$.
$179 = 2 \times 2 \times 2 \times 22 + 2 + 2/2$.
$180 = 2 \times (2 \times 2 \times 22 + 2)$.
$181 = 2 \times (2 \times 2 \times 22 + 2) + 2/2$.
$182 = 2 \times (2 \times 2 \times 22 + 2) + 2$.
$183 = 2 \times 2 \times (2 \times 22 + 2) - 2/2$.
$184 = 2 \times 2 \times (2 \times 22 + 2)$.
$185 = 2 \times 2 \times (2 \times 22 + 2) + 2/2$.
$186 = 2 \times 2 \times (2 \times 22 + 2) + 2$.
$187 = 2 \times 2 \times 2 \times 22 + 22/2$.
$188 = 2 \times (2 \times (2 \times 22 + 2) + 2)$.
$189 = ((22 - 2)^2 - 22)/2$.
$190 = 222 - 2 \times 2^{(2+2)}$.
$191 = 22 + (2 + 22/2)^2$.
$192 = 2 \times 2 \times 2 \times (22 + 2)$.
$193 = (2 + 22/2)^2 + 22 + 2$.
$194 = (2^{(2+2)} - 2)^2 - 2$.
$195 = (2^{(2+2)} - 2)^2 - 2/2$.
$196 = (2^{(2+2)} - 2)^2$.
$197 = (2^{(2+2)} - 2)^2 + 2/2$.
$198 = (2^{(2+2)} - 2)^2 + 2$.
$199 = ((22 - 2)^2 - 2)/2$.
$200 = 222 - 22$.
$201 = ((22 - 2)^2 + 2)/2$.
$202 = 222 - 22 + 2$.
$203 = ((22 - 2)^2 + 2)/2 + 2$.
$204 = 222 - 22 + 2 + 2$.
$205 = ((22 - 2)^2 + 2)/2 + 2 + 2$.
$206 = 222 - 2^{(2+2)}$.
$207 = 222 - 2^{(2+2)} + 2/2$.
$208 = 222 - 2^{(2+2)} + 2$.
$209 = 222 - 2 - 22/2$.
$210 = 222 - 2 \times (2 + 2 + 2)$.
$211 = 222 - 22/2$.

$212 = 222 - (22 - 2)/2.$
$213 = 222 + 2 - 22/2.$
$214 = 222 - 2 \times (2 + 2).$
$215 = 222 + 2 + 2 - 22/2.$
$216 = (2 + 2 + 2)^{(2+2/2)}.$
$217 = 222 - 2 - 2 - 2/2.$
$218 = 222 - 2 - 2.$
$219 = 222 - 2 - 2/2.$
$220 = 222 - 2.$
$221 = 222 - 2/2.$
$222 = 222.$
$223 = 222 + 2/2.$
$224 = 222 + 2.$
$225 = 222 + 2 + 2/2.$
$226 = 222 + 2 + 2.$
$227 = 222 + 2 + 2 + 2/2.$
$228 = 222 + 2 + 2 + 2.$
$229 = (22^2 - 22)/2 - 2.$
$230 = 222 + 2 \times (2 + 2).$
$231 = (22^2 - 22)/2.$
$232 = 222 + 2 \times (2 + 2) + 2.$
$233 = 222 + 22/2.$
$234 = 2^{2\times(2+2)} - 22.$
$235 = 222 + 2 + 22/2.$
$236 = 2^{2\times(2+2)} - 22 + 2.$
$237 = (22^2 - 2)/2 - 2 - 2.$
$238 = 2 \times ((22/2)^2 - 2).$
$239 = (22^2 - 2)/2 - 2.$
$240 = 22^2/2 - 2.$
$241 = (22^2 - 2)/2.$
$242 = 22^2/2.$
$243 = (22^2 + 2)/2.$
$244 = 22^2/2 + 2.$
$245 = (22^2 + 2)/2 + 2.$
$246 = 22^2/2 + 2 + 2.$
$247 = (22^2 + 2)/2 + 2 + 2.$
$248 = 22^2/2 + 2 + 2 + 2.$
$249 = (22^2 + 2)/2 + 2 + 2 + 2.$
$250 = 2 \times ((22/2)^2 + 2 + 2).$
$251 = (22^2 + 22)/2 - 2.$
$252 = 2^{2\times(2+2)} - 2 - 2.$
$253 = (22^2 + 22)/2.$
$254 = 2^{2\times(2+2)} - 2.$
$255 = 2^{2\times(2+2)} - 2/2.$
$256 = 2^{2\times(2+2)}.$
$257 = 2^{2\times(2+2)} + 2/2.$
$258 = 2^{2\times(2+2)} + 2.$
$259 = 2^{2\times(2+2)} + 2 + 2/2.$
$260 = 2^{2\times(2+2)} + 2 + 2.$
$261 = 2^{2\times(2+2)} + 2 + 2 + 2/2.$
$262 = 22^2 - 222.$
$263 = 22 + (22^2 - 2)/2.$
$264 = 2 \times 22 \times (2 + 2 + 2).$
$265 = 22 + (22^2 + 2)/2.$
$266 = 222 + 2 \times 22.$
$267 = 2^{2\times(2+2)} + 22/2.$
$268 = 222 + 2 \times 22 + 2.$
$269 = 2 + 2^{2\times(2+2)} + 22/2.$
$270 = 222 + 2 \times (22 + 2).$
$271 = 2^{2\times(2+2)} + 2 + 2 + 22/2.$
$272 = 2^{2\times(2+2)} + 2^{(2+2)}.$
$273 = (2 + 22/2) \times (22 - 2/2).$
$274 = 2^{2\times(2+2)} + 2^{(2+2)} + 2.$
$275 = 22 + (22^2 + 22)/2.$
$276 = 22 + 2^{2\times(2+2)} - 2.$
$277 = ((22 + 2)^2 - 22)/2.$
$278 = 22 + 2^{2\times(2+2)}.$
$279 = ((22 + 2)^2 - 22)/2 + 2.$
$280 = 2^{2\times(2+2)} + 22 + 2.$
$281 = ((22 + 2)^2 - 22)/2 + 2 + 2.$
$282 = 2^{2\times(2+2)} + 22 + 2 + 2.$
$283 = ((22 + 2)^2 - 2)/2 - 2 - 2.$
$284 = 22 \times (2 + 22/2) - 2.$
$285 = ((22 + 2)^2 - 2)/2 - 2.$
$286 = 22 \times (2 + 22/2).$
$287 = ((22 + 2)^2 - 2)/2.$
$288 = (22 + 2)^2/2.$
$289 = (2^{(2+2)} + 2/2)^2.$
$290 = (22 + 2)^2/2 + 2.$
$291 = (2^{(2+2)} + 2/2)^2 + 2.$
$292 = (22 + 2)^2/2 + 2 + 2.$
$293 = (2^{(2+2)} + 2/2)^2 + 2 + 2.$
$294 = (22 + 2)^2/2 + 2 + 2 + 2.$
$295 = (2^{(2+2)} + 2/2)^2 + 2 + 2 + 2.$
$296 = 2 \times ((2 \times (2+2+2))^2 + 2 + 2).$
$297 = ((22 + 2)^2 + 22)/2 - 2.$
$298 = 2 \times 22 + 2^{2\times(2+2)} - 2.$
$299 = ((22 + 2)^2 + 22)/2.$
$300 = 2 \times 22 + 2^{2\times(2+2)}.$
$301 = ((22 + 2)^2 + 22)/2 + 2.$
$302 = (2^{(2+2)} + 2)^2 - 22.$
$303 = (2 + 2/2)^{(2+2)} + 222.$
$304 = (2^{(2+2)} + 2)^2 - 22 + 2.$
$305 = (2 + 2/2)^{(2+2)} + 222 + 2.$
$306 = 22 \times (2^{(2+2)} - 2) - 2.$
$307 = (22 + 2/2)^2 - 222.$
$308 = 22 \times (2^{(2+2)} - 2).$
$309 = ((22 + 2)^2 - 2)/2 + 22.$
$310 = 22 \times (2^{(2+2)} - 2) + 2.$
$311 = (2^{(2+2)} + 2/2)^2 + 22.$
$312 = (22 + 2) \times (2 + 22/2).$
$313 = (2^{(2+2)} + 2)^2 - 22/2.$
$314 = (22 + 2) \times (2 + 22/2) + 2.$
$315 = 22^2 - (2 + 22/2)^2.$
$316 = 2 \times 2 \times ((2 + 2/2)^{(2+2)} - 2).$
$317 = 22^2 - (2 + 22/2)^2 + 2.$
$318 = 2^{(2+2)} \times (22 - 2) - 2.$
$319 = 2^{(2+2)} \times (22 - 2) - 2/2.$
$320 = (22 - 2) \times 2^{(2+2)}.$
$321 = (22 - 2) \times 2^{(2+2)} + 2/2.$
$322 = (2^{(2+2)} + 2)^2 - 2.$
$323 = (2^{(2+2)} + 2)^2 - 2/2.$
$324 = (2^{(2+2)} + 2)^2 - 2.$
$325 = (2^{(2+2)} + 2)^2 + 2/2.$
$326 = (2^{(2+2)} + 2)^2 + 2.$
$327 = (2^{(2+2)} + 2)^2 + 2 + 2/2.$
$328 = (2^{(2+2)} + 2)^2 + 2 + 2.$
$329 = (2^{(2+2)} + 2)^2 + 2 + 2 + 2/2.$
$330 = 22 \times (2 + 2 + 22/2).$
$331 = 222 - 2 + 222/2.$
$332 = 22 \times (2 + 2 + 22/2) + 2.$
$333 = 222 + 222/2.$
$334 = 2 \times ((2 + 22/2)^2 - 2).$
$335 = 222 + 2 + 222/2.$
$336 = 2 \times 2 \times 2 \times (2 \times 22 - 2).$
$337 = ((22 + 2 + 2)^2 - 2)/2.$
$338 = 2 \times (2 + 22/2)^2.$
$339 = ((22 + 2 + 2)^2 + 2)/2.$
$340 = 2 \times (2 + 22/2)^2 + 2.$
$341 = ((22 + 2 + 2)^2 + 2)/2 + 2.$
$342 = 2 \times ((2 + 22/2)^2 + 2).$
$343 = (22/2)^2 + 222.$
$344 = 2 \times 2 \times (2 \times 2 \times 22 - 2).$
$345 = (22/2)^2 + 222 + 2.$
$346 = (2^{(2+2)} + 2)^2 + 22.$
$347 = (22/2)^2 + 222 + 2 + 2.$
$348 = 2 \times (2 \times 2 \times 2 \times 22 - 2).$
$349 = 22 \times 2^{(2+2)} - 2 - 2/2.$
$350 = 22 \times 2^{(2+2)} - 2.$
$351 = 22 \times 2^{(2+2)} - 2/2.$
$352 = 22 \times 2^{(2+2)}.$
$353 = 22 \times 2^{(2+2)} + 2/2.$
$354 = 22 \times 2^{(2+2)} + 2.$
$355 = 22 \times 2^{(2+2)} + 2 + 2/2.$
$356 = 22 \times 2^{(2+2)} + 2 + 2.$
$357 = (2 + 2/2) \times ((22/2)^2 - 2).$
$358 = 22 \times 2^{(2+2)} + 2 + 2 + 2.$
$359 = (22 - 2 - 2/2)^2 - 2.$
$360 = 2 \times 2 \times (2 \times 2 \times 22 + 2).$
$361 = (22 - 2 - 2/2)^2.$
$362 = 2 \times 2 \times (2 \times 2 \times 22 + 2) + 2.$
$363 = (22 - 2 - 2/2)^2 + 2.$
$364 = 2 \times (2 \times (2 \times 2 \times 22 + 2) + 2).$
$365 = (22 - 2 - 2/2)^2 + 2 + 2.$
$366 = (2 \times (2 + 2 + 2))^2 + 222.$
$367 = 2^{2\times(2+2)} + 222/2.$
$368 = 2 \times 2 \times 2 \times (2 \times 22 + 2).$
$369 = (2 + 2/2) \times (2 + (22/2)^2).$
$370 = 2 \times 2 \times 2 \times (2 \times 22 + 2) + 2.$
$371 = 22^2 - 2 - 222/2.$
$372 = 2 \times (2 \times 2 \times (2 \times 22 + 2) + 2).$
$373 = 22^2 - 222/2.$
$374 = 22 \times 2^{(2+2)} + 22.$
$375 = 22^2 + 2 - 222/2.$
$376 = (22 - 2)^2 - 22 - 2.$
$377 = (22/2)^2 + 2^{2\times(2+2)}.$
$378 = (22 - 2)^2 - 22.$
$379 = (22 - 2)^2 - 22 + 2/2.$
$380 = (22 - 2)^2 - 22 + 2.$
$381 = (22 - 2)^2 - 22 + 2 + 2/2.$
$382 = 2^{(2+2)} \times (22 + 2) - 2.$
$383 = (22 - 2 - 2/2)^2 + 22.$
$384 = 2^{(2+2)} \times (22 + 2).$
$385 = 2^{(2+2)} \times (22 + 2) + 2/2.$
$386 = 2^{(2+2)} \times (22 + 2) + 2.$
$387 = (22 - 2)^2 - 2 - 22/2.$
$388 = 2 \times ((2^{(2+2)} - 2)^2 - 2).$
$389 = (22 - 2)^2 - 22/2.$
$390 = 2 \times (2^{(2+2)} - 2)^2 - 2.$
$391 = (22 - 2)^2 + 2 - 22/2.$
$392 = 2 \times (2^{(2+2)} - 2)^2.$
$393 = 2 \times (2^{(2+2)} - 2)^2 + 2/2.$
$394 = 2 \times (2^{(2+2)} - 2)^2 + 2.$
$395 = (22 - 2)^2 - 2 - 2 - 2/2.$
$396 = 22 \times (2^{(2+2)} + 2).$
$397 = (22 - 2)^2 - 2 - 2/2.$
$398 = (22 - 2)^2 - 2.$
$399 = (22 - 2)^2 - 2/2.$
$400 = (22 - 2)^2.$
$401 = (22 - 2)^2 + 2/2.$
$402 = (22 - 2)^2 + 2.$
$403 = (22 - 2)^2 + 2 + 2/2.$
$404 = (22 - 2)^2 + 2 + 2.$
$405 = (22 - 2)^2 + 2 + 2 + 2/2.$
$406 = (22 - 2)^2 + 2 + 2 + 2.$
$407 = (22 - 2)^2 + 2 + 2 + 2 + 2/2.$
$408 = 2 \times (2 + 2) + (22 - 2)^2.$
$409 = (22 - 2)^2 - 2 + 22/2.$

$410 = 2 \times (2+2) + (22-2)^2 + 2.$
$411 = (22-2)^2 + 22/2.$
$412 = 2 \times (222 - 2^{(2+2)}).$
$413 = (22-2)^2 + 2 + 22/2.$
$414 = 2 \times (222 - 2^{(2+2)}) + 2.$
$415 = (22-2)^2 + 2 + 2 + 22/2.$
$416 = 2^{(2+2)} + (22-2)^2.$
$417 = (22 - 2/2)^2 - 22 - 2.$
$418 = 22 \times (22 - 2 - 2/2).$
$419 = (22 - 2/2)^2 - 22.$
$420 = (22-2)^2 + 22 - 2.$
$421 = (22 - 2/2)^2 - 22 + 2.$
$422 = (22-2)^2 + 22.$
$423 = (22-2)^2 + 22 + 2/2.$
$424 = (22-2)^2 + 22 + 2.$
$425 = (22 - 2/2)^2 - 2^{(2+2)}.$
$426 = 2 \times (222+2) - 22.$
$427 = (22 - 2/2)^2 - 2^{(2+2)} + 2.$
$428 = 2 \times (222 - 2 \times (2+2)).$
$429 = 2 \times (222-2) - 22/2.$
$430 = 2 \times (222 - 2 \times (2+2)) + 2.$
$431 = 2 \times 222 - 2 - 22/2.$
$432 = 2 \times (2+2+2)^{(2+2/2)}.$
$433 = 2 \times 222 - 22/2.$
$434 = 2 \times (222 - 2 - 2) - 2.$
$435 = 2 \times 222 + 2 - 22/2.$
$436 = 2 \times (222 - 2 - 2).$
$437 = (22 - 2/2)^2 - 2 - 2.$
$438 = 2 \times (222-2) - 2.$
$439 = (22 - 2/2)^2 - 2.$
$440 = 2 \times (222-2).$
$441 = (22 - 2/2)^2.$
$442 = 2 \times 222 - 2.$
$443 = 2 \times 222 - 2/2.$
$444 = 2 \times 222.$
$445 = 2 \times 222 + 2/2.$
$446 = 2 \times 222 + 2.$
$447 = 2 \times 222 + 2 + 2/2.$
$448 = 2 \times (222+2).$
$449 = 2 \times (222+2) + 2/2.$
$450 = 2 \times (222+2) + 2.$
$451 = 2 \times (222+2) + 2 + 2/2.$
$452 = 2 \times (222+2+2).$
$453 = 2 \times (222+2+2) + 2/2.$
$454 = 2 \times (222+2+2) + 2.$
$455 = 2 \times 222 + 22/2.$
$456 = 2 \times (222+2+2+2).$
$457 = 2 \times 222 + 2 + 22/2.$
$458 = 22^2 - 22 - 2 - 2.$
$459 = 2 \times (222+2) + 22/2.$
$460 = 22^2 - 22 - 2.$
$461 = 22^2 - 22 - 2/2.$
$462 = 22^2 - 22.$
$463 = (22 - 2/2)^2 + 22.$
$464 = 22^2 - 22 + 2.$
$465 = 22^2 - 22 + 2 + 2/2.$
$466 = 2 \times 222 + 22.$
$467 = 2 \times 222 + 22 + 2/2.$
$468 = 22^2 - 2^{(2+2)}.$
$469 = 22^2 - 2^{(2+2)} + 2/2.$
$470 = 22^2 - 2^{(2+2)} + 2.$
$471 = 22^2 - 2 - 22/2.$
$472 = 22^2 - 2 \times (2+2+2).$
$473 = 22^2 - 22/2.$
$474 = 22^2 - (22-2)/2.$
$475 = 22^2 + 2 - 22/2.$
$476 = 22^2 - 2 \times (2+2).$
$477 = 22^2 + 2 + 2 - 22/2.$
$478 = 22^2 - 2 - 2 - 2.$
$479 = 22^2 - 2 - 2 - 2/2.$
$480 = 22^2 - 2 - 2.$
$481 = 22^2 - 2 - 2/2.$
$482 = 22^2 - 2.$
$483 = 22^2 - 2/2.$
$484 = 22^2.$
$485 = 22^2 + 2/2.$
$486 = 22^2 + 2.$
$487 = 22^2 + 2 + 2/2.$
$488 = 22^2 + 2 + 2.$
$489 = 22^2 + 2 + 2 + 2/2.$
$490 = 22^2 + 2 + 2 + 2.$
$491 = 22^2 + 2 + 2 + 2 + 2/2.$
$492 = 22^2 + 2 \times (2+2).$
$493 = 22^2 - 2 + 22/2.$
$494 = 22^2 + 2 \times (2+2) + 2.$
$495 = 22^2 + 22/2.$
$496 = 22^2 + 2 \times (2+2+2).$
$497 = 22^2 + 2 + 22/2.$
$498 = 22^2 + 2^{(2+2)} - 2.$
$499 = 22^2 + 2 + 2 + 22/2.$
$500 = 22^2 + 2^{(2+2)}.$
$501 = 22^2 + 2^{(2+2)} + 2/2.$
$502 = 22^2 + 2^{(2+2)} + 2.$
$503 = 22^2 + 22 - 2 - 2/2.$
$504 = 22^2 + 22 - 2.$
$505 = 22^2 + 22 - 2/2.$
$506 = 22^2 + 22.$
$507 = 22^2 + 22 + 2/2.$
$508 = 22^2 + 22 + 2.$
$509 = 22^2 + 22 + 2 + 2/2.$
$510 = 2^{((2+2/2)^2)} - 2.$
$511 = 2^{((2+2/2)^2)} - 2/2.$
$512 = 2^{((2+2/2)^2)}.$
$513 = 2^{((2+2/2)^2)} + 2/2.$
$514 = 2^{((2+2/2)^2)} + 2.$
$515 = 2^{((2+2/2)^2)} + 2 + 2/2.$
$516 = 2 \times (2^{2\times(2+2)} + 2).$
$517 = 22^2 + 22 + 22/2.$
$518 = 2 \times (2^{2\times(2+2)} + 2) + 2.$
$519 = 2 \times (2^{2\times(2+2)} + 2) + 2 + 2/2.$
$520 = 2 \times (2^{2\times(2+2)} + 2 + 2).$
$521 = (22-2)^2 + (22/2)^2.$
$522 = +22^2 + (2+2+2)^2 + 2.$
$523 = 2^{((2+2/2)^2)} + 22/2.$
$524 = 2 \times (22^2 - 222).$
$525 = (22 + 2/2)^2 - 2 - 2.$
$526 = 22 \times (22+2) - 2.$
$527 = (22 + 2/2)^2 - 2.$
$528 = 22 \times (22+2).$
$529 = (22 + 2/2)^2.$
$530 = 22 \times (22+2) + 2.$
$531 = (22 + 2/2)^2 + 2.$
$532 = 22 \times (22+2) + 2 + 2.$
$533 = (22 + 2/2)^2 + 2 + 2.$
$534 = 2^{((2+2/2)^2)} + 22.$
$535 = (22 + 2/2)^2 + 2 + 2 + 2.$
$536 = 2^{((2+2/2)^2)} + 22 + 2.$
$537 = 2 \times (2+2) + (22 + 2/2)^2.$
$538 = 2 \times (2^{2\times(2+2)} + 2) + 22.$
$539 = 22 \times (22+2) + 22/2.$
$540 = 2 \times (2 \times (22+2) + 222).$
$541 = 22 \times (22+2) + 2 + 22/2.$
$542 = (22 + 2/2)^2 + 2 + 22/2.$
$543 = (22 + 2/2)^2 + 2^{(2+2)} - 2.$
$544 = 2 \times (2^{2\times(2+2)} + 2^{(2+2)}).$
$545 = (22 + 2/2)^2 + 2^{(2+2)}.$
$546 = (2^{(2+2)} + 2)^2 + 222.$
$547 = (22 + 2/2)^2 + 2^{(2+2)} + 2.$
$548 = 22^2 + 2^{(2+2+2)}.$
$549 = (22 + 2/2)^2 + 22 - 2.$
$550 = 22 \times (22+2) + 22.$
$551 = (22 + 2/2)^2 + 22.$
$552 = (22+2) \times (22 + 2/2).$
$553 = (22 + 2/2)^2 + 22 + 2.$
$554 = (22+2)^2 - 22.$
$555 = (2222-2)/(2+2).$
$556 = (2222+2)/(2+2).$
$557 = (2222-2)/(2+2) + 2.$
$558 = (2222+2)/(2+2) + 2.$
$559 = (2222-2)/(2+2) + 2 + 2.$
$560 = (22+2)^2 - 2^{(2+2)}.$
$561 = (2222+22)/(2+2).$
$562 = (22+2)^2 - 2^{(2+2)} + 2.$
$563 = (22+2)^2 - 22/2 - 2.$
$564 = 22^2 + 2 \times 2 \times (22-2).$
$565 = (22+2)^2 - 22/2.$
$566 = (22+2)^2 - (22-2)/2.$
$567 = (22+2)^2 + 2 - 22/2.$
$568 = (22+2)^2 - 2 \times (2+2).$
$569 = (22+2)^2 + 2 + 2 - 22/2.$
$570 = (22+2)^2 - 2 - 2 - 2.$
$571 = (22+2)^2 - 2 - 2 - 2/2.$
$572 = 22 \times (22+2+2).$
$573 = (22+2)^2 - 2 - 2/2.$
$574 = (22+2)^2 - 2.$
$575 = (22+2)^2 - 2/2.$
$576 = (22+2)^2.$
$577 = (22+2)^2 + 2/2.$
$578 = (22+2)^2 + 2.$
$579 = (22+2)^2 + 2 + 2/2.$
$580 = (22+2)^2 + 2 + 2.$
$581 = (22+2)^2 + 2 + 2 + 2/2.$
$582 = (22+2)^2 + 2 + 2 + 2.$
$583 = (22+2)^2 + 2 + 2 + 2 + 2/2.$
$584 = (22+2)^2 + 2 \times (2+2).$
$585 = (22+2)^2 - 2 + 22/2.$
$586 = (22+2)^2 + 2 \times (2+2) + 2.$
$587 = (22+2)^2 + 22/2.$
$588 = (2 + 2/2) \times (2^{(2+2)} - 2)^2.$
$589 = (22+2)^2 + 2 + 22/2.$
$590 = (22+2)^2 + 2^{(2+2)} - 2.$
$591 = (22+2)^2 + 2 + 2 + 22/2.$
$592 = 2^{(2+2)} + (22+2)^2.$
$593 = 22^2 - 2 + 222/2.$
$594 = 2^{(2+2)} + (22+2)^2 + 2.$
$595 = 22^2 + 222/2.$
$596 = (22+2)^2 + 22 - 2.$
$597 = 22^2 + 2 + 222/2.$
$598 = (22+2)^2 + 22.$
$599 = (22+2)^2 + 22 + 2/2.$
$600 = (22+2)^2 + 22 + 2.$
$601 = (22+2)^2 + 22 + 2 + 2/2.$
$602 = (22+2)^2 + 22 + 2 + 2.$
$603 = 22^2 + (22/2)^2 - 2.$
$604 = 2 \times ((2^{(2+2)} + 2)^2 - 22).$
$605 = 22^2 + (22/2)^2.$
$606 = 2 \times ((2^{(2+2)} + 2)^2 - 22) + 2.$

$607 = 22^2 + (22/2)^2 + 2.$
$608 = 2^{(2+2)} \times ((2+2+2)^2 + 2).$
$609 = 22^2 + (22/2)^2 + 2 + 2.$
$610 = (22+2)^2 + 2 \times 2^{(2+2)} + 2.$
$611 = 22^2 + (2^{2\times(2+2)} - 2)/2.$
$612 = 2 \times (22 \times (2^{(2+2)} - 2) - 2).$
$613 = 22^2 + (2^{2\times(2+2)} + 2)/2.$
$614 = 2 \times 22 \times (2^{(2+2)} - 2) - 2.$
$615 = (2/2+2+2) \times ((22/2)^2 + 2).$
$616 = 2 \times 22 \times (2^{(2+2)} - 2).$
$617 = 22^2 + 22 + 222/2.$
$618 = 2 \times 22 \times (2^{(2+2)} - 2) + 2.$
$619 = 2 \times 22 + (22+2)^2 - 2/2.$
$620 = 2 \times 22 + (22+2)^2.$
$621 = (2+2+2/2)^{(2+2)} - 2 - 2.$
$622 = (22-2)^2 + 222.$
$623 = (2+2+2/2)^{(2+2)} - 2.$
$624 = (22+2) \times (22+2+2).$
$625 = (2+2+2/2)^{(2+2)}.$
$626 = (22+2) \times (22+2+2) + 2.$
$627 = (2+2+2/2)^{(2+2)} + 2.$
$628 = 22^2 + (2 \times (2+2+2))^2.$
$629 = (2+2+2/2)^{(2+2)} + 2 + 2.$
$630 = 22^2 + (2 \times (2+2+2))^2 + 2.$
$631 = (2+2+2/2)^{(2+2)} + 2 + 2 + 2.$
$632 = (22+2+2)^2 - 2 \times 22.$
$633 = 2 \times (2+2) + (2+2+2/2)^{(2+2)}.$
$634 = (22+2+2)^2 - 2 \times 22 + 2.$
$635 = ((2+2+2)^{(2+2)} - 22)/2 - 2.$
$636 = 2 \times (2^{(2+2)} \times (22-2) - 2).$
$637 = ((2+2+2)^{(2+2)} - 22)/2.$
$638 = 2 \times 2^{(2+2)} \times (22-2) - 2.$
$639 = ((2+2+2)^{(2+2)} - 22)/2 + 2.$
$640 = 2 \times 2^{(2+2)} \times (22-2).$
$641 = 2 \times 2^{(2+2)} \times (22-2) + 2/2.$
$642 = 2 \times 2^{(2+2)} \times (22-2) + 2.$
$643 = (22-2)^2 + (22^2+2)/2.$
$644 = 2 \times ((2^{(2+2)} + 2)^2 - 2).$
$645 = ((2+2+2)^{(2+2)} - 2)/2 - 2.$
$646 = 2 \times (2^{(2+2)} + 2)^2 - 2.$
$647 = ((2+2+2)^{(2+2)} - 2)/2.$
$648 = 2 \times (2^{(2+2)} + 2)^2.$
$649 = ((2+2+2)^{(2+2)} + 2)/2.$
$650 = 2 \times (2^{(2+2)} + 2)^2 + 2.$
$651 = ((2+2+2)^{(2+2)} + 2)/2 + 2.$
$652 = 2 \times ((2^{(2+2)} + 2)^2 + 2).$
$653 = 22^2 + (2+22/2)^2.$
$654 = (22+2+2)^2 - 22.$
$655 = 22^2 + (2+22/2)^2 + 2.$
$656 = (22+2+2)^2 - 22 + 2.$
$657 = (2+2/2) \times (222 - 2 - 2/2).$
$658 = 22 \times (2 \times (2+2) + 22) - 2.$
$659 = ((2+2+2)^{(2+2)} + 22)/2.$
$660 = 22 \times (2 \times (2+2) + 22).$
$661 = ((2+2+2)^{(2+2)} + 22)/2 + 2.$
$662 = 2 + 22 \times (2 \times (2+2) + 22).$
$663 = (22 - 2/2)^2 + 222.$
$664 = (2+2/2) \times 222 - 2.$
$665 = (22+2+2)^2 - 22/2.$
$666 = (2+2/2) \times 222.$
$667 = (2+2/2) \times 222 + 2/2.$
$668 = (2+2/2) \times 222 + 2.$
$669 = (2+2/2) \times (222 + 2/2).$
$670 = (2+2/2) \times 222 + 2 + 2.$
$671 = (2+2/2) \times (222 + 2/2) + 2.$
$672 = (2+2/2) \times (222 + 2).$
$673 = (22+2+2)^2 - 2 - 2/2.$
$674 = (22+2+2)^2 - 2.$
$675 = (22+2+2)^2 - 2/2.$
$676 = (22+2+2)^2.$
$677 = (22+2+2)^2 + 2/2.$
$678 = (22+2+2)^2 + 2.$
$679 = (22+2+2)^2 + 2 + 2/2.$
$680 = (22+2+2)^2 + 2 + 2.$
$681 = (22+2+2)^2 + 2 + 2 + 2/2.$
$682 = (22+2+2)^2 + 2 + 2 + 2.$
$683 = 22^2 + ((22-2)^2 - 2)/2.$
$684 = 2 \times 2 \times ((2 + 22/2)^2 + 2).$
$685 = (22+2+2)^2 - 2 + 22/2.$
$686 = 2 \times ((22/2)^2 + 222).$
$687 = (22+2+2)^2 + 22/2.$
$688 = 2 \times 2 \times 2 \times (2 \times 2 \times 22 - 2).$
$689 = (22+2+2)^2 + 2 + 22/2.$
$690 = ((2+2/2) \times 222 + 22) + 2.$
$691 = (22+2+2)^2 + 2 + 2 + 22/2.$
$692 = 2 \times ((2^{(2+2)} + 2)^2 + 22).$
$693 = (2+2/2) \times (22^2 - 22)/2.$
$694 = (22+2+2)^2 + 2^{(2+2)} + 2.$
$695 = 22^2 + 222 - 22/2.$
$696 = 2 \times 2 \times (2 \times 2 \times 2 \times 22 - 2).$
$697 = (22+2)^2 + (22/2)^2.$
$698 = (22+2+2)^2 + 22.$
$699 = (22+2)^2 + 2 + (22/2)^2.$
$700 = 2 \times (22 \times 2^{(2+2)} - 2).$
$701 = 2 \times (22 \times 2^{(2+2)} - 2) + 2/2.$
$702 = 2 \times 22 \times 2^{(2+2)} - 2.$
$703 = 2 \times 22 \times 2^{(2+2)} - 2/2.$
$704 = 2 \times 22 \times 2^{(2+2)}.$
$705 = 2 \times 22 \times 2^{(2+2)} + 2/2.$
$706 = 22^2 + 222.$
$707 = 22^2 + 222 + 2/2.$
$708 = 22^2 + 222 + 2.$
$709 = 22^2 + 222 + 2 + 2/2.$
$710 = 22^2 + 222 + 2 + 2.$
$711 = 2222/2 - (22-2)^2.$
$712 = 2 \times (22 \times 2^{(2+2)} + 2 + 2).$
$713 = (2+2/2)^{(2+2+2)} - 2^{(2+2)}.$
$714 = (2+2+2) \times ((22/2)^2 - 2).$
$715 = 2 \times 22 \times 2^{(2+2)} + 22/2.$
$716 = (2+2+2) \times ((22/2)^2 - 2) + 2.$
$717 = 22^2 + 222 + 22/2.$
$718 = 2 \times ((22 - 2 - 2/2)^2 - 2).$
$719 = (22-2) \times (2+2+2)^2 - 2/2.$
$720 = (22-2) \times (2+2+2)^2.$
$721 = (((2+2+2)^2 + 2)^2 - 2)/2.$
$722 = 2 \times (22 - 2 - 2/2)^2.$
$723 = (2+2/2) \times (22^2 - 2)/2.$
$724 = 2 \times (22 - 2/2 - 2)^2 + 2.$
$725 = 22^2 + (22^2 - 2)/2.$
$726 = 22 \times (22 + 22/2).$
$727 = (2+2/2)^{(2+2+2)} - 2.$
$728 = 22^2/2 + 22^2 + 2.$
$729 = (2+2/2)^{(2+2+2)}.$
$730 = (2+2/2)^{(2+2+2)} + 2/2.$
$731 = (2+2/2)^{(2+2+2)} + 2.$
$732 = (2+2/2) \times (2 + 22^2/2).$
$733 = (2+2/2)^{(2+2+2)} + 2 + 2.$
$734 = 2^{((2+2/2)^2)} + 222.$
$735 = 2^{(2+2)} \times (2 \times 22 + 2) - 2/2.$
$736 = 2^{(2+2)} \times (2 \times 22 + 2).$
$737 = 2^{(2+2)} \times (2 \times 22 + 2) + 2/2.$
$738 = 2^{(2+2)} \times (2 \times 22 + 2) + 2.$
$739 = 22^2 + 2^{2\times(2+2)} - 2/2.$
$740 = 22^2 + 2^{2\times(2+2)}.$
$741 = 22^2 + 2^{2\times(2+2)} + 2/2.$
$742 = 22^2 + 2^{2\times(2+2)} + 2.$
$743 = 22^2 + 2^{2\times(2+2)} + 2 + 2/2.$
$744 = 2 \times 22^2 - 222 - 2.$
$745 = 2^{(2+2)} + (2+2/2)^{(2+2+2)}.$
$746 = 2 \times 22^2 - 222.$
$747 = 2 \times 22^2 - 222 + 2/2.$
$748 = 22 \times (2 \times 2^{(2+2)} + 2).$
$749 = 22 + (2+2/2)^{(2+2+2)} - 2.$
$750 = 2 + 22 \times (2 \times 2^{(2+2)} + 2).$
$751 = (2+2/2)^{(2+2+2)} + 22.$
$752 = 2 \times ((22-2)^2 - 22 - 2).$
$753 = (2+2/2)^{(2+2+2)} + 22 + 2.$
$754 = 2 \times ((22-2)^2 - 22) - 2.$
$755 = 2 \times ((22-2)^2 - 22) - 2/2.$
$756 = 2 \times ((22-2)^2 - 22).$
$757 = 2 \times ((22-2)^2 - 22) + 2/2.$
$758 = 2 \times ((22-2)^2 - 22) + 2.$
$759 = (2+2/2) \times (22^2 + 22)/2.$
$760 = 2 \times ((22-2)^2 - 22 + 2).$
$761 = (2+2/2) \times (22^2 + 22)/2 + 2.$
$762 = (2+2/2) \times (2^{2\times(2+2)} - 2).$
$763 = (2+2/2) \times (2^{2\times(2+2)} - 2) + 2/2.$
$764 = 2 \times (2^{(2+2)} \times (22+2) - 2).$
$765 = (2+2/2) \times (2^{2\times(2+2)} - 2/2).$
$766 = 2 \times 2^{(2+2)} \times (22+2) - 2.$
$767 = 2 \times 2 \times 222 - (22/2)^2.$
$768 = 2 \times 2^{(2+2)} \times (22+2).$
$769 = 2 \times 2^{(2+2)} \times (22+2) + 2/2.$
$770 = 2 \times 2^{(2+2)} \times (22+2) + 2.$
$771 = 22^2 + ((22+2)^2 - 2)/2.$
$772 = 2 \times 2^{(2+2)} \times (22+2) + 2 + 2.$
$773 = 2 \times 22 + (2+2/2)^{(2+2+2)}.$
$774 = (2+2/2) \times (2^{2\times(2+2)} + 2).$
$775 = 22^2 + (2^{(2+2)} + 2/2)^2 + 2.$
$776 = 2 \times 2 \times ((2^{(2+2)} - 2)^2 - 2).$
$777 = 222 \times (2+2+2+2/2)/2.$
$778 = 2 \times (22-2)^2 - 22.$
$779 = 2 \times (22-2)^2 - 22 + 2/2.$
$780 = 2 \times (22-2)^2 - 22 + 2.$
$781 = (22+2+2+2)^2 - 2 - 2/2.$
$782 = (22+2+2+2)^2 - 2.$
$783 = (22+2+2+2)^2 - 2/2.$
$784 = (22+2+2+2)^2.$
$785 = (22+2+2+2)^2 + 2/2.$
$786 = (22+2+2+2)^2 + 2.$
$787 = (22+2+2+2)^2 + 2 + 2/2.$
$788 = (22+2+2+2)^2 + 2 + 2.$
$789 = 2 \times (22-2)^2 - 22/2.$
$790 = 22 \times (2+2+2)^2 - 2.$
$791 = 22 \times (2+2+2)^2 - 2/2.$
$792 = 22 \times (2+2+2)^2.$
$793 = 22 \times (2+2+2)^2 + 2/2.$
$794 = 22 \times (2+2+2)^2 + 2.$
$795 = 2 \times ((22-2)^2 - 2) - 2/2.$
$796 = 2 \times ((22-2)^2 - 2).$
$797 = 2 \times ((22-2)^2 - 2) + 2/2.$
$798 = 2 \times (22-2)^2 - 2.$
$799 = 2 \times (22-2)^2 - 2/2.$
$800 = 2 \times (22-2)^2.$
$801 = 2 \times (22-2)^2 + 2/2.$
$802 = 2 \times (22-2)^2 + 2.$
$803 = 2 \times (22-2)^2 + 2 + 2/2.$

$804 = 2 \times ((22-2)^2 + 2)$.
$805 = 2 \times ((22-2)^2 + 2) + 2/2$.
$806 = 2 \times ((22-2)^2 + 2) + 2$.
$807 = 2 \times ((22-2)^2 + 2) + 2 + 2/2$.
$808 = 2 \times ((22-2)^2 + 2 + 2)$.
$809 = 2 \times ((22-2)^2 + 2 + 2) + 2/2$.
$810 = 2 \times ((22-2)^2 + 2 + 2) + 2$.
$811 = 2 \times (22-2)^2 + 22/2$.
$812 = 2 \times ((22-2)^2 + 2 + 2 + 2)$.
$813 = 2 \times (22-2)^2 + 22/2 + 2$.
$814 = 22 \times (2+2+2)^2 + 22$.
$815 = 2 \times ((22-2)^2 + 2) + 22/2$.
$816 = 2 \times ((22-2)^2 + 2 \times (2+2))$.
$817 = (22+2)^2 + (22^2-2)/2$.
$818 = 2 \times ((22-2)^2 - 2) + 22$.
$819 = (22+2)^2 + (22^2+2)/2$.
$820 = 2 \times (22-2)^2 + 22 - 2$.
$821 = 2 \times (22-2)^2 + 22 - 2/2$.
$822 = 2 \times (22-2)^2 + 22$.
$823 = 2 \times (22-2)^2 + 22 + 2/2$.
$824 = 2 \times (22-2)^2 + 22 + 2$.
$825 = (2 \times 22)^2 - 2222/2$.
$826 = 2 \times ((22-2)^2 + 2) + 22$.
$827 = (2 \times 22)^2 + 2 - 2222/2$.
$828 = (2^{(2+2)} + 2) \times (2 \times 22 + 2)$.
$829 = (2 \times 22 + 2) \times (2^{(2+2)} + 2) + 2/2$.
$830 = (2^{(2+2)} + 2) \times (2 \times 22 + 2) + 2$.
$831 = (2 + 2/2) \times ((22+2)^2 - 22)/2$.
$832 = 2 \times ((22-2)^2 + 2^{(2+2)})$.
$833 = 2 \times (22-2)^2 + 22 + 22/2$.
$834 = 22 \times ((2+2+2)^2 + 2) - 2$.
$835 = 22 \times ((2+2+2)^2 + 2) - 2/2$.
$836 = 22 \times ((2+2+2)^2 + 2)$.
$837 = 22 \times ((2+2+2)^2 + 2) + 2 - 2/2$.
$838 = 22 \times ((2+2+2)^2 + 2) + 2$.
$839 = (22-2) \times (2 \times 22 - 2) - 2/2$.
$840 = (22-2) \times (2 \times 22 - 2)$.
$841 = (22+2+2+2+2/2)^2$.
$842 = (22-2) \times (2 \times 22 - 2) + 2$.
$843 = (22+2+2+2+2/2)^2 + 2$.
$844 = 2 \times ((22-2)^2 + 22)$.
$845 = 2 \times ((22-2)^2 + 22) + 2/2$.
$846 = 2 \times ((22-2)^2 + 22) + 2$.
$847 = 2 \times 22^2 - (22/2)^2$.
$848 = 2 \times ((22-2)^2 + 22 + 2)$.
$849 = 2 + 2 \times 22^2 - (22/2)^2$.
$850 = 2 \times ((22-2)^2 + 22 + 2) + 2$.
$851 = 2 \times (22^2 + 2) - (22/2)^2$.
$852 = 2 \times (2 \times (222+2) - 22)$.
$853 = 2 \times (22^2 - 2) - 222/2$.
$854 = 2 \times (2 \times (222+2) - 22) + 2$.
$855 = 2 \times 22^2 - 2 - 222/2$.
$856 = 2 \times 2 \times (222 - 2 \times (2+2))$.
$857 = 2 \times 22^2 - 222/2$.
$858 = 22 \times (2 \times (22-2) - 2/2)$.
$859 = 2 \times 22^2 + 2 - 222/2$.
$860 = (22-2) \times (2 \times 22 - 2/2)$.
$861 = (2 + 2/2) \times ((22+2)^2 - 2)/2$.
$862 = 2 \times (2 \times 222 - 2) - 22$.
$863 = (22+2) \times (2+2+2)^2 - 2/2$.
$864 = (22+2) \times (2+2+2)^2$.
$865 = (22+2) \times (2+2+2)^2 + 2/2$.
$866 = 2 \times 2 \times 222 - 22$.
$867 = 2 \times 2 \times 222 - 22 + 2/2$.
$868 = 2 \times 2 \times 222 - 22 + 2$.
$869 = (2222 - 22^2)/2$.
$870 = 2 \times (2 \times 222 + 2) - 22$.
$871 = ((2 \times 22 - 2)^2 - 22)/2$.
$872 = 2 \times 2 \times (222 - 2 - 2)$.
$873 = ((2 \times 22 - 2)^2 - 22)/2 + 2$.
$874 = 2 \times 2 \times (222 - 2 - 2) + 2$.
$875 = 2 \times 2 \times 222 - 2 - 22/2$.
$876 = 2 \times (2 \times (222 - 2) - 2)$.
$877 = 2 \times 2 \times 222 - 22/2$.
$878 = 2 \times 2 \times (222 - 2) - 2$.
$879 = 2 \times 2 \times (222 - 2) - 2/2$.
$880 = 2 \times 2 \times (222 - 2)$.
$881 = ((2 \times 22 - 2)^2 - 2)/2$.
$882 = 2 \times (22 - 2/2)^2$.
$883 = ((2 \times 22 - 2)^2 + 2)/2$.
$884 = 2 \times (2 \times 222 - 2)$.
$885 = 2 \times 2 \times 222 - 2 - 2/2$.
$886 = 2 \times 2 \times 222 - 2$.
$887 = 2 \times 2 \times 222 - 2/2$.
$888 = 2 \times 2 \times 222$.
$889 = 2 \times 2 \times 222 + 2/2$.
$890 = 2 \times 2 \times 222 + 2$.
$891 = 2 \times 2 \times 222 + 2 + 2/2$.
$892 = 2 \times (2 \times 222 + 2)$.
$893 = 2 \times (2 \times 222 + 2) + 2/2$.
$894 = 2 \times (2 \times 222 + 2) + 2$.
$895 = 2 \times 2 \times (222 + 2) - 2/2$.
$896 = 2 \times 2 \times (222 + 2)$.
$897 = 2 \times 2 \times (222 + 2) + 2/2$.
$898 = 2 \times 2 \times (222 + 2) + 2$.
$899 = 2 \times 2 \times 222 + 22/2$.
$900 = (2 \times (2+2) + 22)^2$.
$901 = (2 \times (2+2) + 22)^2 + 2/2$.
$902 = (2 \times (2+2) + 22)^2 + 2$.
$903 = (2 \times (2+2) + 22)^2 + 2 + 2/2$.
$904 = 2 \times 2 \times (222 + 2 + 2)$.
$905 = ((2 \times 22 - 2)^2 + 2)/2 + 22$.
$906 = 2 \times 2 \times (222 + 2 + 2) + 2$.
$907 = 2 \times 2 \times (222 + 2) + 22/2$.
$908 = 2 \times (2 \times (222 + 2 + 2) + 2)$.
$909 = 2 \times 2 \times 222 + 22 - 2/2$.
$910 = 2 \times 2 \times 222 + 22$.
$911 = 2 \times 2 \times 222 + 22 + 2/2$.
$912 = 2 \times 2 \times 222 + 22 + 2$.
$913 = (2^{(}22/2) - 222)/2$.
$914 = 2 \times (2 \times 222 + 2) + 22$.
$915 = (2^{(}22/2) - 222)/2 + 2$.
$916 = 2 \times (22^2 - 22 - 2 - 2)$.
$917 = (2^{(}22/2) - 222)/2 + 2 + 2$.
$918 = 2 \times 2 \times (222 + 2) + 22$.
$919 = 2 \times (22^2 - 22 - 2) - 2/2$.
$920 = 2 \times (22^2 - 22 - 2)$.
$921 = 2 \times (22^2 - 22 - 2) + 2/2$.
$922 = 2 \times (22^2 - 22) - 2$.
$923 = 2 \times (22^2 - 22) - 2/2$.
$924 = 2 \times (22^2 - 22)$.
$925 = 2 \times (22^2 - 22) + 2/2$.
$926 = 2 \times (22^2 - 22) + 2$.
$927 = 2 \times (22^2 - 22) + 2 + 2/2$.
$928 = 2 \times (22^2 - 22 + 2)$.
$929 = 2 \times 222 + 22^2 + 2/2$.
$930 = 2 \times 222 + 22^2 + 2$.
$931 = 2 \times (2 \times 222 + 22) - 2/2$.
$932 = 2 \times (2 \times 222 + 22)$.
$933 = 2 \times (2 \times 222 + 22) + 2/2$.
$934 = 2 \times (2 \times 222 + 22) + 2$.
$935 = 2 \times (22^2 - 22) + 22/2$.
$936 = 2 \times (22^2 - 2^{(2+2)})$.
$937 = 2 \times (22^2 - 2^{(2+2)}) + 2/2$.
$938 = 2 \times (22^2 - 2^{(2+2)}) + 2$.
$939 = ((2 + 2/2)^2 + 22)^2 - 22$.
$940 = 2 \times (22^2 - 2^{(2+2)} + 2)$.
$941 = 2 \times (22^2 - 2) - 22 - 2/2$.
$942 = 2 \times (22^2 - 2) - 22$.
$943 = 2 \times (22^2 - 2) - 22 + 2/2$.
$944 = 2 \times 22^2 - 22 - 2$.
$945 = 2 \times 22^2 - 22 - 2/2$.
$946 = 2 \times 22^2 - 22$.
$947 = 2 \times 22^2 - 22 + 2/2$.
$948 = 2 \times 22^2 - 22 + 2$.
$949 = 2 \times 22^2 - 22 + 2 + 2/2$.
$950 = 2 \times (22^2 + 2) - 22$.
$951 = 2 \times (22^2 + 2) - 22 + 2/2$.
$952 = 2 \times (22^2 - 2 \times (2+2))$.
$953 = 2 \times (22^2 - 2) - 22/2$.
$954 = 2 \times (22^2 - 2 \times (2+2)) + 2$.
$955 = 2 \times 22^2 - 2 - 22/2$.
$956 = 2 \times (22^2 - 2 - 2 - 2)$.
$957 = 2 \times 22^2 - 22/2$.
$958 = 2 \times (22^2 - 2 - 2 - 2) + 2$.
$959 = 2 \times 22^2 + 2 - 22/2$.
$960 = 2 \times (22^2 - 2 - 2)$.
$961 = (22 + (2 + 2/2)^2)^2$.
$962 = 2 \times (22^2 - 2) - 2$.
$963 = 2 \times (22^2 - 2) - 2/2$.
$964 = 2 \times (22^2 - 2)$.
$965 = 2 \times 22^2 - 2 - 2/2$.
$966 = 2 \times 22^2 - 2$.
$967 = 2 \times 22^2 - 2/2$.
$968 = 2 \times 22^2$.
$969 = 2 \times 22^2 + 2/2$.
$970 = 2 \times 22^2 + 2$.
$971 = 2 \times 22^2 + 2 + 2/2$.
$972 = 2 \times (22^2 + 2)$.
$973 = 2 \times (22^2 + 2) + 2/2$.
$974 = 2 \times (22^2 + 2) + 2$.
$975 = 2 \times (22^2 + 2) + 2 + 2/2$.
$976 = 2 \times (22^2 + 2 + 2)$.
$977 = 2 \times (22^2 + 2 + 2) + 2/2$.
$978 = 2 \times (22^2 + 2 + 2) + 2$.
$979 = 2 \times 22^2 + 22/2$.
$980 = 2 \times (22^2 + 2 + 2 + 2)$.
$981 = 2 \times 22^2 + 2 + 22/2$.
$982 = 2 \times (22^2 + 2 + 2 + 2) + 2$.
$983 = 2 \times (22^2 + 2) + 22/2$.
$984 = 2 \times (2 \times (2+2) + 22^2)$.
$985 = 2 \times (22^2 + 2) + 2 + 22/2$.
$986 = 2 \times (22^2 - 2) + 22$.
$987 = 2 \times (22^2 - 2) + 22 + 2/2$.
$988 = 2 \times 22^2 + 22 - 2$.
$989 = 2 \times 22^2 + 22 - 2/2$.
$990 = 2 \times 22^2 + 22$.
$991 = 2 \times 22^2 + 22 + 2/2$.
$992 = 2 \times 22^2 + 22 + 2$.
$993 = 2 \times 22^2 + 22 + 2 + 2/2$.
$994 = 22 + 2 \times (22^2 + 2)$.
$995 = 22 + 2 \times (22^2 + 2) + 2/2$.
$996 = 22 + 2 \times (22^2 + 2) + 2$.
$997 = (2 + 2/2)^2 \times 222/2 - 2$.
$998 = 2 \times (22^2 + 2 + 2) + 22$.
$999 = (2 + 2/2)^2 \times 222/2$.
$1000 = 2 \times (22^2 + 2^{(2+2)})$.

6. Representations Using Number 3

$101 = 3 + 3 \times 33 - 3/3.$
$102 = 3 + 3 \times 33.$
$103 = 3 + 3 \times 33 + 3/3.$
$104 = 3 + 3 + 3 \times 33 - 3/3.$
$105 = 3 + (3 \times 33 + 3).$
$106 = 3 + 3 + 3 \times 33 + 3/3.$
$107 = 3 \times (33 + 3) - 3/3.$
$108 = 3 \times (33 + 3).$
$109 = 3 \times (33 + 3) + 3/3.$
$110 = (333 - 3)/3.$
$111 = 333/3.$
$112 = (333 + 3)/3.$
$113 = 3 + (333 - 3)/3.$
$114 = 3 + 333/3.$
$115 = 3 + (333 + 3)/3.$
$116 = 3 + 3 + (333 - 3)/3.$
$117 = 3 \times (33 + 3 + 3).$
$118 = 3 + 3 + (333 + 3)/3.$
$119 = 3 \times 3 + (333 - 3)/3.$
$120 = 3 + 3 \times (33 + 3 + 3).$
$121 = (33/3)^{(3-3/3)}.$
$122 = (3^{(3+3)} + 3)/(3 + 3).$
$123 = 3^3 + 3 \times 33 - 3.$
$124 = 3 + (33/3)^{(3-3/3)}.$
$125 = (3 + 3 - 3/3)^3.$
$126 = 3 \times (3 \times 3 + 33).$
$127 = 3^3 + 3 \times 33 + 3/3.$
$128 = 3 + (3 + 3 - 3/3)^3.$
$129 = 3 + 3 \times 33 + 3^3.$
$130 = 3 + 3 \times 33 + 3^3 + 3/3.$
$131 = 3 + 3 + (3 + 3 - 3/3)^3.$
$132 = 33 + 3 \times 33.$
$133 = 3 \times 33 + 33 + 3/3.$
$134 = 3 \times 3 + (3 + 3 - 3/3)^3.$
$135 = 3 + 3 \times 33 + 33.$
$136 = (3 + 3/3) \times (33 + 3/3).$
$137 = 3^3 + (333 - 3)/3.$
$138 = 3^3 + 333/3.$
$139 = 3^3 + (333 + 3)/3.$
$140 = 3 + 3^3 + (333 - 3)/3.$
$141 = 33 + 3 \times (33 + 3).$
$142 = 3 + 3^3 + (333 + 3)/3.$
$143 = 33 + (333 - 3)/3.$
$144 = (3 + 3) \times (3^3 - 3).$
$145 = (3 + 3) \times (3^3 - 3) + 3/3.$
$146 = 3 + 33 + (333 - 3)/3.$
$147 = 3 + (3 + 3) \times (3^3 - 3).$
$148 = (33 \times 3^3 - 3)/(3 + 3).$
$149 = (33 \times 3^3 + 3)/(3 + 3).$
$150 = 3 + 3 + (3 + 3) \times (3^3 - 3).$
$151 = (3 + 3) \times 3^3 - 33/3.$
$152 = 3^3 + (3 + 3 - 3/3)^3.$
$153 = 3 \times (3^3 + 3^3 - 3).$
$154 = 33 \times (3 + 33/3)/3.$
$155 = 3^3 + 3 + (3 + 3 - 3/3)^3.$
$156 = (3 + 3) \times (3^3 - 3/3).$
$157 = 3 + 33 \times (3 + 33/3)/3.$
$158 = 33 + (3 + 3 - 3/3)^3.$
$159 = (3 + 3) \times 3^3 - 3.$
$160 = (3 + 3) \times 3^3 - 3 + 3/3.$
$161 = (3 + 3) \times 3^3 - 3/3.$
$162 = (3 + 3) \times 3^3.$
$163 = (3 + 3) \times 3^3 + 3/3.$
$164 = (3 + 3) \times 3^3 + 3 - 3/3.$
$165 = (3 + 3) \times 3^3 + 3.$
$166 = (3 + 3) \times 3^3 + 3 + 3/3.$
$167 = (3 \times 333 + 3)/(3 + 3).$
$168 = (3 + 3) \times 3^3 + 3 + 3.$
$169 = (3 + 3) \times 3^3 + 3 + 3 + 3/3.$
$170 = 3 + (3 \times 333 + 3)/(3 + 3).$
$171 = 3 \times (3^3 + 3^3 + 3).$
$172 = 3 \times 3 + (3 + 3) \times 3^3 + 3/3.$
$173 = (3 + 3) \times 3^3 + 33/3.$
$174 = (3 + 3) \times 3^3 + 3 \times 3 + 3.$
$175 = (3 + 3/3)^3 + 333/3.$
$176 = (3 + 3) \times 3^3 + 3 + 33/3.$
$177 = 3 \times (3^3 + 33) - 3.$
$178 = 3 \times (3^3 + 33) - 3 + 3/3.$
$179 = 3 \times (3^3 + 33) - 3/3.$
$180 = 3 \times (3^3 + 33).$
$181 = 3 \times (3^3 + 33) + 3/3.$
$182 = (3 + 3)^3 - 33 - 3/3.$
$183 = (3 + 3)^3 - 33.$
$184 = (3 + 3)^3 - 33 + 3/3.$
$185 = (3 + 3)^3 + 3 - 33 - 3/3.$
$186 = (3 + 3)^3 + 3 - 33.$
$187 = 33 \times (3 + 3) - 33/3.$
$188 = (3 + 3)^3 - 3^3 - 3/3.$
$189 = (3 + 3)^3 - 3^3.$
$190 = (3 + 3)^3 - 3^3 + 3/3.$
$191 = 3 \times (3 + 3/3)^3 - 3/3.$
$192 = 3 \times (3 + 3/3)^3.$
$193 = 3 \times (3 + 3/3)^3 + 3/3.$
$194 = 33 \times (3 + 3) - 3 - 3/3.$
$195 = 33 \times (3 + 3) - 3.$
$196 = 33 \times (3 + 3) - 3 + 3/3.$
$197 = 33 \times (3 + 3) - 3/3.$
$198 = 33 \times (3 + 3).$
$199 = 33 \times (3 + 3) + 3/3.$
$200 = 33 \times (3 + 3) + 3 - 3/3.$
$201 = 33 \times (3 + 3) + 3.$
$202 = 33 \times (3 + 3) + 3 + 3/3.$
$203 = 33 \times (3 + 3) + 3 + 3 - 3/3.$
$204 = 33 \times (3 + 3) + 3 + 3.$
$205 = (3 + 3)^3 - 33/3.$
$206 = (3 + 3)^3 - (33 - 3)/3.$
$207 = (3 + 3)^3 - 3 \times 3.$
$208 = (3 + 3)^3 - 3 \times 3 + 3/3.$
$209 = (3 + 3)^3 - 3 - 3 - 3/3.$
$210 = (3 + 3)^3 - 3 - 3.$
$211 = (3 + 3)^3 - 3 - 3 + 3/3.$
$212 = (3 + 3)^3 - 3 - 3/3.$
$213 = (3 + 3)^3 - 3.$
$214 = (3 + 3)^3 - 3 + 3/3.$
$215 = (3 + 3)^3 - 3/3.$
$216 = (3 + 3)^3.$
$217 = (3 + 3)^3 + 3/3.$
$218 = (3 + 3)^3 + 3 - 3/3.$
$219 = (3 + 3)^3 + 3.$
$220 = (3 + 3)^3 + 3 + 3/3.$
$221 = (3 + 3)^3 + 3 + 3 - 3/3.$
$222 = (3 + 3)^3 + 3 + 3.$
$223 = (3 + 3)^3 + 3 + 3 + 3/3.$
$224 = (3 + 3)^3 + 3 \times 3 - 3/3.$
$225 = (3 + 3)^3 + 3 \times 3.$
$226 = (3 + 3)^3 + 3 \times 3 + 3/3.$
$227 = (3 + 3)^3 + 33/3.$
$228 = (3 + 3)^3 + 3 \times 3 + 3.$
$229 = (3^{(3+3)} - 33)/3 - 3.$
$230 = (3 + 3)^3 + 3 + 33/3.$
$231 = 33 \times (3 + 3) + 33.$
$232 = (3^{(3+3)} - 33)/3.$
$233 = 3 \times (3 \times 3^3 - 3) - 3/3.$
$234 = 3 \times (3 \times 3^3 - 3).$
$235 = 3 + (3^{(3+3)} - 33)/3.$
$236 = (3^{(3+3)} - 3)/3 - 3 - 3.$
$237 = 3 \times (3 \times 3^3 - 3) + 3.$
$238 = (3^{(3+3)} + 3)/3 - 3 - 3.$
$239 = (3^{(3+3)} - 3)/3 - 3.$
$240 = 3 \times 3 \times 3^3 - 3.$
$241 = (3^{(3+3)} + 3)/3 - 3.$
$242 = (3^{(3+3)} - 3)/3.$
$243 = 3 \times 3 \times 3^3.$
$244 = (3^{(3+3)} + 3)/3.$
$245 = 3 + (3^{(3+3)} - 3)/3.$
$246 = 3 \times 3 \times 3^3 + 3.$
$247 = 3 + (3^{(3+3)} + 3)/3.$
$248 = 3 + 3 + (3^{(3+3)} - 3)/3.$
$249 = 33 + (3 + 3)^3.$
$250 = 3 + 3 + (3^{(3+3)} + 3)/3.$
$251 = 3 \times 3 + (3^{(3+3)} - 3)/3.$
$252 = 3 \times (3 \times 3^3 + 3).$
$253 = 3 \times 3 + (3^{(3+3)} + 3)/3.$
$254 = (3^{(3+3)} + 33)/3.$
$255 = 3 \times (3 \times 3^3 + 3) + 3.$
$256 = (3 + 3/3)^{(3+3/3)}.$
$257 = 3 + (3^{(3+3)} + 33)/3.$
$258 = 3 + 3 + 3 \times (3 \times 3^3 + 3).$
$259 = 3 + (3 + 3/3)^{(3+3/3)}.$
$260 = 3 + 3 + (3^{(3+3)} + 33)/3.$
$261 = 3 \times (3 \times 3^3 + 3 + 3).$
$262 = 3 + 3 + (3 + 3/3)^{(3+3/3)}.$
$263 = (33 \times (3^3 - 3) - 3)/3.$
$264 = 33 \times (3 \times 3 - 3/3).$
$265 = (33 \times (3^3 - 3) + 3)/3.$
$266 = 3 + (33 \times (3^3 - 3) - 3)/3.$
$267 = 3 \times 3 \times (3^3 + 3) - 3.$
$268 = 3 + (33 \times (3^3 - 3) + 3)/3.$
$269 = 3^3 + (3^{(3+3)} - 3)/3.$
$270 = 3 \times 3 \times (3^3 + 3).$
$271 = 3^3 + (3^{(3+3)} + 3)/3.$
$272 = 3^3 + 3 + (3^{(3+3)} - 3)/3.$
$273 = 3 \times 3 \times (3^3 + 3) + 3.$
$274 = 3 \times 3 \times (3^3 + 3) + 3 + 3/3.$
$275 = 33 + (3^{(3+3)} - 3)/3.$
$276 = 33 + 3 \times 3 \times 3^3.$
$277 = 33 + (3^{(3+3)} + 3)/3.$
$278 = 33 + 3 + (3^{(3+3)} - 3)/3.$
$279 = 3 \times (3 \times (3^3 + 3) + 3).$
$280 = (3 + 3)^3 + (3 + 3/3)^3.$
$281 = 3^3 + (3^{(3+3)} + 33)/3.$
$282 = 3 + 3 \times (3 \times (3^3 + 3) + 3).$
$283 = (3 + 3/3)^3 + (3 + 3)^3 + 3.$
$284 = (3 + 3/3) \times ((3 + 3)^3 - 3)/3.$
$285 = 3 \times (3 \times 33 - 3) - 3.$
$286 = 33 \times (3^3 - 3/3)/3.$
$287 = 3 \times (3 \times 33 - 3) - 3/3.$
$288 = 3 \times (3 \times 33 - 3).$
$289 = 3 \times (3 \times 33 - 3) + 3/3.$

$290 = 3 \times (3 \times 33 - 3) + 3 - 3/3.$
$291 = 3 \times (3 \times 33 - 3) + 3.$
$292 = 3 \times (3 \times 33 - 3) + 3 + 3/3.$
$293 = 3 \times 3 \times 33 - 3 - 3/3.$
$294 = 3 \times 3 \times 33 - 3.$
$295 = 3 \times 3 \times 33 - 3 + 3/3.$
$296 = 3 \times 3 \times 33 - 3/3.$
$297 = 3 \times 3 \times 33.$
$298 = 3 \times 3 \times 33 + 3/3.$
$299 = 3 \times 3 \times 33 + 3 - 3/3.$
$300 = 3 \times 3 \times 33 + 3.$
$301 = 3 \times 3 \times 33 + 3 + 3/3.$
$302 = 3 \times 3 \times 33 + 3 + 3 - 3/3.$
$303 = 3 \times 3 \times 33 + 3 + 3.$
$304 = 3 \times 3 \times 33 + 3 + 3 + 3/3.$
$305 = 333 - 3^3 - 3/3.$
$306 = 3 \times (3 \times 33 + 3).$
$307 = 3 \times (3 \times 33 + 3) + 3/3.$
$308 = 3 \times 3 \times 33 + 33/3.$
$309 = 3 \times (3 \times 33 + 3) + 3.$
$310 = (3 + 3 + 3/3)^3 - 33.$
$311 = 3 \times 3 \times 33 + 3 + 33/3.$
$312 = 3 \times (3 \times 33 + 3) + 3 + 3.$
$313 = 3 - 33 + (3 + 3 + 3/3)^3.$
$314 = 3 \times 33 + (3 + 3)^3 - 3/3.$
$315 = 3 \times (3 \times 33 + 3 + 3).$
$316 = (3 + 3 + 3/3)^3 - 3^3.$
$317 = 333 - 3^3 + 33/3.$
$318 = 3 \times 33 + (3 + 3)^3 + 3.$
$319 = 333 - 3 - 33/3.$
$320 = 333 - 3 - (33 - 3)/3.$
$321 = 333 - 3 \times 3 - 3.$
$322 = 333 - 33/3.$
$323 = 333 - (33 - 3)/3.$
$324 = 3 \times 3 \times (33 + 3).$
$325 = 3 + 333 - 33/3.$
$326 = 333 - 3 - 3 - 3/3.$
$327 = 333 - 3 - 3.$
$328 = 333 - 3 - 3 + 3/3.$
$329 = 333 - 3 - 3/3.$
$330 = 333 - 3.$
$331 = 333 - 3 + 3/3.$
$332 = 333 - 3/3.$
$333 = 333.$
$334 = 333 + 3/3.$
$335 = 333 + 3 - 3/3.$
$336 = 333 + 3.$
$337 = 333 + 3 + 3/3.$
$338 = 333 + 3 + 3 - 3/3.$
$339 = 333 + 3 + 3.$
$340 = (3 + 3 + 3/3)^3 - 3.$
$341 = 333 + 3 \times 3 - 3/3.$
$342 = 333 + 3 \times 3.$
$343 = (3 + 3 + 3/3)^3.$
$344 = 333 + 33/3.$
$345 = 333 + 3 \times 3 + 3.$
$346 = 3 + (3 + 3 + 3/3)^3.$
$347 = 3 + 333 + 33/3.$
$348 = 3 + 3 + 333 + 3 \times 3.$
$349 = 3 + 3 + (3 + 3 + 3/3)^3.$
$350 = 3 + 3 + 333 + 33/3.$
$351 = 3 \times 3 \times (33 + 3 + 3).$
$352 = 3 \times 3 + (3 + 3 + 3/3)^3.$
$353 = 3 \times 3 + 333 + 33/3.$
$354 = 3 + 333 + 3 \times (3 + 3).$
$355 = 3 + 3 \times 3 + (3 + 3 + 3/3)^3.$
$356 = 3^3 + 333 - 3 - 3/3.$
$357 = 3^3 + 333 - 3.$
$358 = 3^3 + 333 - 3 + 3/3.$
$359 = 3^3 + 333 - 3/3.$
$360 = 3^3 + 333.$
$361 = 3^3 + 333 + 3/3.$
$362 = (33 \times 33 - 3)/3.$
$363 = 33 \times 33/3.$
$364 = (33 \times 33 + 3)/3.$
$365 = 3 + (33 \times 33 - 3)/3.$
$366 = 33 + 333.$
$367 = 3 + (33 \times 33 + 3)/3.$
$368 = 3 + 3 + (33 \times 33 - 3)/3.$
$369 = 3 + 333 + 33.$
$370 = 3^3 + (3 + 3 + 3/3)^3.$
$371 = 3^3 + 333 + 33/3.$
$372 = 3 + 3 + 333 + 33.$
$373 = 3 + 3^3 + (3 + 3 + 3/3)^3.$
$374 = 33 \times (33 + 3/3)/3.$
$375 = 3 \times (3 + 3 - 3/3)^3.$
$376 = 33 + (3 + 3 + 3/3)^3.$
$377 = 3 + 33 \times (33 + 3/3)/3.$
$378 = 3 \times (3 \times 33 + 3^3).$
$379 = 3 + 33 + (3 + 3 + 3/3)^3.$
$380 = 3 + 3 + 33 \times (33 + 3/3)/3.$
$381 = 3 + 3 \times (3 \times 33 + 3^3).$
$382 = 3333/3 - 3^{(3+3)}.$
$383 = (3 + 3) \times (3 + 3/3)^3 - 3/3.$
$384 = (3 + 3) \times (3 + 3/3)^3.$
$385 = (3 + 3) \times (3 + 3/3)^3 + 3/3.$
$386 = 3^{(3+3)} - (3 + 3 + 3/3)^3.$
$387 = 3 + (3 + 3) \times (3 + 3/3)^3.$
$388 = 3 + (3 + 3) \times (3 + 3/3)^3 + 3/3.$
$389 = 3^3 + (33 \times 33 - 3)/3.$
$390 = 3^3 + 33 \times 33/3.$
$391 = 3^3 + (33 \times 33 + 3)/3.$
$392 = 33 \times (3 \times 3 + 3) - 3 - 3/3.$
$393 = 33 \times (3 \times 3 + 3) - 3.$
$394 = 33 \times (3 \times 3 + 3) - 3 + 3/3.$
$395 = 33 \times (3 \times 3 + 3) - 3/3.$
$396 = 33 \times (3 \times 3 + 3).$
$397 = 33 \times (3 \times 3 + 3) + 3/3.$
$398 = 33 \times (3 \times 3 + 3) + 3 - 3/3.$
$399 = 33 \times (3 \times 3 + 3) + 3.$
$400 = 33 \times (3 \times 3 + 3) + 3 + 3/3.$
$401 = 33 \times (3 \times 3 + 3) + 3 + 3 - 3/3.$
$402 = 33 \times (3 \times 3 + 3) + 3 + 3.$
$403 = 33 \times (3 \times 3 + 3) + 3 + 3 + 3/3.$
$404 = 333 + ((3 + 3)^3 - 3)/3.$
$405 = 3^3 \times (3 \times 3 + 3 + 3).$
$406 = 3^3 \times (3 \times 3 + 3 + 3) + 3/3.$
$407 = 33 \times 333/(3^3).$
$408 = 3^3 \times (3 \times 3 + 3 + 3) + 3.$
$409 = 3^3 \times (3 \times 3 + 3 + 3) + 3 + 3/3.$
$410 = 33 \times 333/(3^3) + 3.$
$411 = 3 \times 3^3 + 333 - 3.$
$412 = 3 \times 3^3 + 333 - 3 + 3/3.$
$413 = 3 \times 3^3 + 333 - 3/3.$
$414 = 3 \times 3^3 + 333.$
$415 = 3 \times 3^3 + 333 + 3/3.$
$416 = 3 \times 3^3 + 333 + 3 - 3/3.$
$417 = 3 \times 3^3 + 333 + 3.$
$418 = 33 \times (3^3 + 33/3)/3.$
$419 = (3^3 + 3) \times (3 + 33/3) - 3/3.$
$420 = (3^3 + 3) \times (3 + 33/3).$
$421 = ((3 + 3)^{(3+3/3)} - 33)/3.$
$422 = 3^3 + 33 \times (3 \times 3 + 3) - 3/3.$
$423 = 3 \times (3 \times (33 + 3) + 33).$
$424 = 3 \times 3^3 + (3 + 3 + 3/3)^3.$
$425 = ((3 + 3) \times ((3 + 3)^3 - 3) - 3)/3.$
$426 = (3 + 3) \times ((3 + 3)^3 - 3)/3.$
$427 = ((3 + 3) \times ((3 + 3)^3 - 3) + 3)/3.$
$428 = ((3 + 3)^{(3+3/3)} - 3)/3 - 3.$
$429 = 33 + 33 \times (3 \times 3 + 3).$
$430 = (3 - 3/3) \times ((3 + 3)^3 - 3/3).$
$431 = ((3 + 3)^{(3+3/3)} - 3)/3.$
$432 = 3 \times (3 + 3) \times (3^3 - 3).$
$433 = ((3 + 3)^{(3+3/3)} + 3)/3.$
$434 = 3 + ((3 + 3)^{(3+3/3)} - 3)/3.$
$435 = 3 + 3 \times 33 + 333.$
$436 = 3 + ((3 + 3)^{(3+3/3)} + 3)/3.$
$437 = ((3 + 3) \times ((3 + 3)^3 + 3) - 3)/3.$
$438 = (3 + 3) \times ((3 + 3)^3 + 3)/3.$
$439 = ((3 + 3) \times ((3 + 3)^3 + 3) + 3)/3.$
$440 = (3 + 3/3) \times (333 - 3)/3.$
$441 = 3 \times ((3 + 3) \times (3^3 - 3) + 3).$
$442 = 3 \times 33 + (3 + 3 + 3/3)^3.$
$443 = 333 + (333 - 3)/3.$
$444 = 333 + 333/3.$
$445 = 333 + (333 + 3)/3.$
$446 = (3 \times 33 \times 3^3 + 3)/(3 + 3).$
$447 = 3 + 333 + 333/3.$
$448 = (3 + 3/3) \times (333 + 3)/3.$
$449 = (3 \times 33 \times 3^3 + 3)/(3 + 3) + 3.$
$450 = (3 + 3) \times (3 \times (3^3 - 3) + 3).$
$451 = (3 + 3/3) \times (333 + 3)/3 + 3.$
$452 = (3 + 3/3) \times (3 + (333 - 3)/3).$
$453 = 3 \times (3 + 3) \times 3^3 - 33.$
$454 = 3 \times (3 + 3) \times 3^3 - 33 + 3/3.$
$455 = (3 + 3)^3 + (3^{(3+3)} - 3)/3 - 3.$
$456 = 3 \times (3 + 3) \times 3^3 - 33 + 3.$
$457 = (3 + 3)^3 + (3^{(3+3)} + 3)/3 - 3.$
$458 = (3 + 3)^3 + (3^{(3+3)} - 3)/3.$
$459 = 3 \times 3 \times (3^3 - 3 + 3^3).$
$460 = (3 + 3)^3 + (3^{(3+3)} + 3)/3.$
$461 = 33 \times (3 + 33/3) - 3/3.$
$462 = 33 \times (3 + 33/3).$
$463 = 33 \times (3 + 33/3) + 3/3.$
$464 = 3 + 33 \times (3 + 33/3) - 3/3.$
$465 = 3 + 33 \times (3 + 33/3).$
$466 = 3 + 33 \times (3 + 33/3) + 3/3.$
$467 = (3 + 3) \times (3 \times 3^3 - 3) - 3/3.$
$468 = (3 + 3) \times (3 \times 3^3 - 3).$
$469 = (3 + 3) \times (3 \times 3^3 - 3) + 3/3.$
$470 = (3 + 3) \times (3 \times 3^3 - 3) + 3 - 3/3.$
$471 = (3 + 3) \times (3 \times 3^3 - 3) + 3.$
$472 = (3 + 3) \times (3 \times 3^3 - 3) + 3 + 3/3.$
$473 = 33 \times (3 + 33/3) + 33/3.$
$474 = 3 \times ((3 + 3) \times 3^3 - 3) - 3.$
$475 = 3 \times (3 + 3) \times 3^3 - 33/3.$
$476 = (3 + 33/3) \times (33 + 3/3).$
$477 = 3 \times ((3 + 3) \times 3^3 - 3).$
$478 = 3 \times ((3 + 3) \times 3^3 - 3) + 3/3.$
$479 = (3 - 3/3)^{(3\times3)} - 33.$
$480 = 3 \times ((3 + 3) \times 3^3 - 3) + 3.$
$481 = 3 \times ((3 + 3) \times 3^3 - 3) + 3 + 3/3.$
$482 = (3 - 3/3)^{(3\times3)} + 3 - 33.$
$483 = 3 \times (3 + 3) \times 3^3 - 3.$
$484 = 3 \times (3 + 3) \times 3^3 - 3 + 3/3.$
$485 = (3 - 3/3)^{(3\times3)} - 3^3.$
$486 = 3 \times (3 + 3) \times 3^3.$
$487 = 3 \times (3 + 3) \times 3^3 + 3/3.$

$488 = (3-3/3)^{(3\times3)} + 3 - 3^3$.
$489 = 3 \times (3+3) \times 3^3 + 3$.
$490 = 3 \times (3+3) \times 3^3 + 3 + 3/3$.
$491 = (3-3/3)^{(3\times3)} + 3 + 3 - 3^3$.
$492 = 3 \times (3+3) \times 3^3 + 3 + 3$.
$493 = 3 \times (3+3) \times 3^3 + 3 + 3 + 3/3$.
$494 = (3-3/3)^{(3\times3)} - 3 \times (3+3)$.
$495 = 3 \times ((3+3) \times 3^3 + 3)$.
$496 = 3 \times ((3+3) \times 3^3 + 3) + 3/3$.
$497 = 3 \times (3+3) \times 3^3 + 33/3$.
$498 = 3 \times ((3+3) \times 3^3 + 3) + 3$.
$499 = (3 \times 3 \times 333 - 3)/(3+3)$.
$500 = (3+3/3) \times (3+3-3/3)^3$.
$501 = (3+3) \times (3 \times 3^3 + 3) - 3$.
$502 = (3 \times 3 \times 333 - 3)/(3+3) + 3$.
$503 = (3-3/3)^{(3\times3)} - 3 \times 3$.
$504 = (3+3) \times (3 \times 3^3 + 3)$.
$505 = (3+3) \times (3 \times 3^3 + 3) + 3/3$.
$506 = (3-3/3)^{(3\times3)} - 3 - 3$.
$507 = (3+3) \times (3 \times 3^3 + 3) + 3$.
$508 = (3-3/3)^{(3\times3)} - 3 - 3/3$.
$509 = (3-3/3)^{(3\times3)} - 3$.
$510 = 3^{(3+3)} - (3+3)^3 - 3$.
$511 = (3-3/3)^{(3\times3)} - 3/3$.
$512 = (3-3/3)^{(3\times3)}$.
$513 = (3-3/3)^{(3\times3)} + 3/3$.
$514 = (3-3/3)^{(3\times3)} + 3 - 3/3$.
$515 = (3-3/3)^{(3\times3)} + 3$.
$516 = 3^{(3+3)} - (3+3)^3 + 3$.
$517 = (3-3/3)^{(3\times3)} + 3 + 3 - 3/3$.
$518 = (3-3/3)^{(3\times3)} + 3 + 3$.
$519 = 3 \times (3+3) \times 3^3 + 33$.
$520 = 3 \times 3 + (3-3/3)^{(3\times3)} - 3/3$.
$521 = 3 \times 3 + (3-3/3)^{(3\times3)}$.
$522 = (3+3) \times (3 \times 3^3 + 3 + 3)$.
$523 = (3-3/3)^{(3\times3)} + 33/3$.
$524 = 3 \times 3 + (3-3/3)^{(3\times3)} + 3$.
$525 = (3+3) \times (3 \times 3^3 + 3 + 3) + 3$.
$526 = (3-3/3)^{(3\times3)} + 3 + 33/3$.
$527 = 3 \times 3 + (3-3/3)^{(3\times3)} + 3 + 3$.
$528 = 33 \times (3^3 - 33/3)$.
$529 = (3^3 - 3 - 3/3)^{(3-3/3)}$.
$530 = 3 \times (3+3) + (3-3/3)^{(3\times3)}$.
$531 = 3 \times (3 \times (3^3 + 33) - 3)$.
$532 = (3^3 - 3 - 3/3)^{(3-3/3)} + 3$.
$533 = 3 \times (3+3) + (3-3/3)^{(3\times3)} + 3$.
$534 = 33 \times (3+3) + 333 + 3$.
$535 = (3333 - (3 \times 3 + 3)^3)/3$.
$536 = 3^3 + (3-3/3)^{(3\times3)} - 3$.
$537 = 3 \times 3 \times (3^3 + 33) - 3$.
$538 = 3^3 + (3-3/3)^{(3\times3)} - 3/3$.
$539 = 3^3 + (3-3/3)^{(3\times3)}$.
$540 = 3 \times 3 \times (3^3 + 33)$.
$541 = 3 \times 3 \times (3^3 + 33) + 3/3$.
$542 = 3^3 + (3-3/3)^{(3\times3)} + 3$.
$543 = 3 \times 3 \times (3^3 + 33) + 3$.
$544 = ((3 \times 3 + 3)^3 + 3)/3 - 33$.
$545 = (3-3/3)^{(3\times3)} + 33$.
$546 = (3+3)^3 + 333 - 3$.
$547 = ((3 \times 3 + 3)^3 + 3)/3 - 33 + 3$.
$548 = (3-3/3)^{(3\times3)} + 33 + 3$.
$549 = 3 \times ((3+3)^3 - 33)$.
$550 = 3 \times ((3+3)^3 - 33) + 3/3$.
$551 = (3333 - 3^3)/(3+3)$.
$552 = (3+3)^3 + 333 + 3$.
$553 = (3333 + 3)/(3+3) - 3$.
$554 = (3333 - 3 \times 3)/(3+3)$.
$555 = (3333 - 3)/(3+3)$.
$556 = (3333 + 3)/(3+3)$.
$557 = (3333 + 3 \times 3)/(3+3)$.
$558 = 3 \times ((3+3)^3 + 3 - 33)$.
$559 = (3333 + 3)/(3+3) + 3$.
$560 = (3333 + 3^3)/(3+3)$.
$561 = 33 \times (3 + 3 + 33/3)$.
$562 = ((3 \times 3 + 3 + 3)^3 - 3)/(3+3)$.
$563 = ((3 \times 3 + 3 + 3)^3 + 3)/(3+3)$.
$564 = 3 \times ((3+3)^3 - 3^3) - 3$.
$565 = ((3 \times 3 + 3)^3 - 33)/3$.
$566 = 3 \times ((3+3)^3 - 3^3) - 3/3$.
$567 = 3 \times ((3+3)^3 - 3^3)$.
$568 = ((3 \times 3 + 3)^3 - 33)/3 + 3$.
$569 = ((3 \times 3 + 3)^3 - 3)/3 - 3 - 3$.
$570 = 3 \times ((3+3)^3 - 3^3) + 3$.
$571 = ((3 \times 3 + 3)^3 + 3)/3 - 3 - 3$.
$572 = ((3 \times 3 + 3)^3 - 3)/3 - 3$.
$573 = ((3 \times 3 + 3)^3)/3 - 3$.
$574 = ((3 \times 3 + 3)^3 + 3)/3 - 3$.
$575 = ((3 \times 3 + 3)^3 - 3)/3$.
$576 = (3 \times 3 + 3)^3/3$.
$577 = ((3 \times 3 + 3)^3 + 3)/3$.
$578 = ((3 \times 3 + 3)^3 - 3)/3 + 3$.
$579 = (3 \times 3 + 3)^3/3 + 3$.
$580 = ((3 \times 3 + 3)^3 + 3)/3 + 3$.
$581 = ((3 \times 3 + 3)^3 - 3)/3 + 3 + 3$.
$582 = (3 \times 3 + 3)^3/3 + 3 + 3$.
$583 = ((3 \times 3 + 3)^3 + 3)/3 + 3 + 3$.
$584 = 3 \times 3 + ((3 \times 3 + 3)^3 - 3)/3$.
$585 = 3 \times (33 \times (3+3) - 3)$.
$586 = 3 \times 3 + ((3 \times 3 + 3)^3 + 3)/3$.
$587 = ((3 \times 3 + 3)^3 + 33)/3$.
$588 = 3 \times (33 \times (3+3) - 3) + 3$.
$589 = 3 \times (33 \times (3+3) - 3) + 3 + 3/3$.
$590 = ((3 \times 3 + 3)^3 + 33)/3 + 3$.
$591 = 3 \times 33 \times (3+3) - 3$.
$592 = 3 \times 33 \times (3+3) - 3 + 3/3$.
$593 = 3 \times 33 \times (3+3) - 3/3$.
$594 = 3 \times 33 \times (3+3)$.
$595 = 3 \times 33 \times (3+3) + 3/3$.
$596 = 3 \times 33 \times (3+3) + 3 - 3/3$.
$597 = 3 \times 33 \times (3+3) + 3$.
$598 = 3 \times 33 \times (3+3) + 3 + 3/3$.
$599 = (33/3)^3 - 3^{(3+3)} - 3$.
$600 = 3 \times 33 \times (3+3) + 3 + 3$.
$601 = 3 \times 33 \times (3+3) + 3 + 3 + 3/3$.
$602 = (33/3)^3 - 3^{(3+3)}$.
$603 = 3 \times (33 \times (3+3) + 3)$.
$604 = 3^3 + ((3 \times 3 + 3)^3 + 3)/3$.
$605 = 3 + (33/3)^3 - 3^{(3+3)}$.
$606 = 3 \times (33 \times (3+3) + 3) + 3$.
$607 = 3 \times (33 \times (3+3) + 3) + 3 + 3/3$.
$608 = 33 + ((3 \times 3 + 3)^3 - 3)/3$.
$609 = 33 + (3 \times 3 + 3)^3/3$.
$610 = 33 + ((3 \times 3 + 3)^3 + 3)/3$.
$611 = 3 \times 33 + (3-3/3)^{(3\times3)}$.
$612 = (3+3) \times (3 \times 33 + 3)$.
$613 = (3+3) \times (3 \times 33 + 3) + 3/3$.
$614 = 3 \times (3+3)^3 - 33 - 3/3$.
$615 = 3 \times (3+3)^3 - 33$.
$616 = 3 \times (3+3)^3 - 33 + 3/3$.
$617 = 3^{(3+3)} - (333 + 3)/3$.
$618 = +3 \times (3+3)^3 + 3 - 33$.
$619 = 3^{(3+3)} - (333 - 3)/3$.
$620 = 3 \times (3+3)^3 - 3^3 - 3/3$.
$621 = 3 \times ((3+3)^3 - 3 \times 3)$.
$622 = 3 \times ((3+3)^3 - 3 \times 3) + 3/3$.
$623 = 3 \times (3+3)^3 - 3^3 + 3 - 3/3$.
$624 = 3 \times ((3+3)^3 - 3 \times 3) + 3$.
$625 = (3+3-3/3)^{(3+3/3)}$.
$626 = (3+3-3/3)^{(3+3/3)} + 3/3$.
$627 = 3 \times 33 \times (3+3) + 33$.
$628 = (3+3-3/3)^{(3+3/3)} + 3$.
$629 = 3^{(3+3)} - 3 \times 33 - 3/3$.
$630 = 3^{(3+3)} - 3 \times 33$.
$631 = 3^{(3+3)} - 3 \times 33 + 3/3$.
$632 = 3^{(3+3)} - 3 \times 33 + 3 - 3/3$.
$633 = 3^{(3+3)} - 3 \times 33 + 3$.
$634 = 3 \times (3+3)^3 - 3 - 33/3$.
$635 = 3 \times ((3+3)^3 - 3) - 3 - 3/3$.
$636 = 3 \times ((3+3)^3 - 3) - 3$.
$637 = 3 \times (3+3)^3 - 33/3$.
$638 = 3 \times ((3+3)^3 - 3) - 3/3$.
$639 = 3 \times ((3+3)^3 - 3)$.
$640 = 3 \times ((3+3)^3 - 3) + 3/3$.
$641 = 3 \times ((3+3)^3 - 3) + 3 - 3/3$.
$642 = 3 \times ((3+3)^3 - 3) + 3$.
$643 = 3 \times ((3+3)^3 - 3) + 3 + 3/3$.
$644 = 3 \times (3+3)^3 - 3 - 3/3$.
$645 = 3 \times (3+3)^3 - 3$.
$646 = 3 \times (3+3)^3 - 3 + 3/3$.
$647 = 3 \times (3+3)^3 - 3/3$.
$648 = 3 \times (3+3)^3$.
$649 = 3 \times (3+3)^3 + 3/3$.
$650 = 3 \times (3+3)^3 + 3 - 3/3$.
$651 = 3 \times (3+3)^3 + 3$.
$652 = 3 \times (3+3)^3 + 3 + 3/3$.
$653 = 3 \times (3+3)^3 + 3 + 3 - 3/3$.
$654 = 3 \times (3+3)^3 + 3 + 3$.
$655 = 3 \times ((3+3)^3 + 3) - 3 + 3/3$.
$656 = 3 \times ((3+3)^3 + 3) - 3/3$.
$657 = 3 \times ((3+3)^3 + 3)$.
$658 = 3 \times ((3+3)^3 + 3) + 3/3$.
$659 = 3 \times (3+3)^3 + 33/3$.
$660 = 3 \times ((3+3)^3 + 3) + 3$.
$661 = 3 \times ((3+3)^3 + 3) + 3 + 3/3$.
$662 = 3 \times (3+3)^3 + 3 + 33/3$.
$663 = 3 \times ((3+3)^3 + 3) + 3 + 3$.
$664 = (3-3/3) \times (333 - 3/3)$.
$665 = 3^{(3+3)} - (3+3/3)^3$.
$666 = 3 \times ((3+3)^3 + 3 + 3)$.
$667 = ((3+3) \times 333 + 3)/3$.
$668 = 3^{(3+3)} - (3+3/3)^3 + 3$.
$669 = 333 + 333 + 3$.
$670 = 3 + ((3+3) \times 333 + 3)/3$.
$671 = 33 \times ((3/3+3)^3 - 3)/3$.
$672 = 3^3 + 3 \times (3+3)^3 - 3$.
$673 = (3^3 - 3/3)^{(3-3/3)} - 3$.
$674 = 3^3 + 3 \times (3+3)^3 - 3/3$.
$675 = 3^3 + 3 \times (3+3)^3$.
$676 = (3^3 - 3/3)^{(3-3/3)}$.
$677 = ((3+3) \times 333 + 33)/3$.
$678 = 3 \times (3+3)^3 + 3^3 + 3$.
$679 = 3 + (3^3 - 3/3)^{(3-3/3)}$.
$680 = 33 + 3 \times (3+3)^3 - 3/3$.
$681 = 33 + 3 \times (3+3)^3$.
$682 = 33 + 3 \times (3+3)^3 + 3/3$.
$683 = (33/3)^3 - 3 \times (3+3)^3$.
$684 = 3 \times (3+3)^3 + 33 + 3$.
$685 = 3^{(3+3)} - 33 - 33/3$.

$686 = (3 - 3/3) \times (3 + 3 + 3/3)^3$.
$687 = 3^{(3+3)} - 33 - 3 \times 3$.
$688 = 3^{(3+3)} + 3 - 33 - 33/3$.
$689 = (3 - 3/3) \times (3 + 3 + 3/3)^3 + 3$.
$690 = 3 \times ((3 + 3)^3 + 3) + 33$.
$691 = 3^{(3+3)} - 3^3 - 33/3$.
$692 = 3^{(3+3)} - 3 - 33 - 3/3$.
$693 = 33 \times (3 \times (3 + 3) + 3)$.
$694 = 33 \times (3 \times (3 + 3) + 3) + 3/3$.
$695 = 3^{(3+3)} - 33 - 3/3$.
$696 = 3^{(3+3)} - 33$.
$697 = 3^{(3+3)} - 33 + 3/3$.
$698 = 3^{(3+3)} - 33 + 3 - 3/3$.
$699 = 3^{(3+3)} - 33 + 3$.
$700 = 3^{(3+3)} - 33 + 3 + 3/3$.
$701 = 3^{(3+3)} - 3^3 - 3/3$.
$702 = 3^{(3+3)} - 3^3$.
$703 = 3^{(3+3)} - 3^3 + 3/3$.
$704 = 33 \times (3 + 3/3)^3/3$.
$705 = 3^{(3+3)} - 3^3 + 3$.
$706 = 3^{(3+3)} - 3^3 + 3 + 3/3$.
$707 = 33 \times (3/3 + 3)^3/3 + 3$.
$708 = 3^{(3+3)} - 3^3 + 3 + 3$.
$709 = 3^{(3+3)} - 3 \times 3 - 33/3$.
$710 = 3^{(3+3)} - 3 \times (3 + 3) - 3/3$.
$711 = 3^{(3+3)} - 3 \times (3 + 3)$.
$712 = 3^{(3+3)} - 3 \times (3 + 3) + 3/3$.
$713 = 3^{(3+3)} - 3^3 + 33/3$.
$714 = 3^{(3+3)} + 3 - 3 \times (3 + 3)$.
$715 = 3^{(3+3)} - 3 - 33/3$.
$716 = 3^{(3+3)} - 3 - (33 - 3)/3$.
$717 = 3^{(3+3)} - 3 - 3 \times 3$.
$718 = 3^{(3+3)} - 33/3$.
$719 = 3^{(3+3)} - (33 - 3)/3$.
$720 = 3^{(3+3)} - 3 \times 3$.
$721 = 3^{(3+3)} + 3 - 33/3$.
$722 = 3^{(3+3)} - 3 - 3 - 3/3$.
$723 = 3^{(3+3)} - 3 - 3$.
$724 = 3^{(3+3)} - 3 - 3 + 3/3$.
$725 = 3^{(3+3)} - 3 - 3/3$.
$726 = 3^{(3+3)} - 3$.
$727 = 3^{(3+3)} - 3 + 3/3$.
$728 = 3^{(3+3)} - 3/3$.
$729 = 3^{(3+3)}$.
$730 = 3^{(3+3)} + 3/3$.
$731 = 3^{(3+3)} + 3 - 3/3$.
$732 = 3^{(3+3)} + 3$.
$733 = 3^{(3+3)} + 3 + 3/3$.
$734 = 3^{(3+3)} + 3 + 3 - 3/3$.
$735 = 3^{(3+3)} + 3 + 3$.
$736 = 3^{(3+3)} + 3 + 3 + 3/3$.
$737 = 3^{(3+3)} + 3 \times 3 - 3/3$.
$738 = 3^{(3+3)} + 3 \times 3$.
$739 = 3^{(3+3)} + 3 \times 3 + 3/3$.
$740 = 3^{(3+3)} + 33/3$.
$741 = 3^{(3+3)} + 3 \times 3 + 3$.
$742 = 3^{(3+3)} + 3 \times 3 + 3 + 3/3$.
$743 = 3^{(3+3)} + 3 + 33/3$.
$744 = 3^{(3+3)} + 3 \times 3 + 3 + 3$.
$745 = 3^{(3+3)} + 3^3 - 33/3$.
$746 = 3^{(3+3)} + 3 + 3 + 33/3$.
$747 = 3 \times ((3 + 3)^3 + 33)$.
$748 = 3 \times ((3 + 3)^3 + 33) + 3/3$.
$749 = 3^{(3+3)} + 3 \times 3 + 33/3$.
$750 = 3^{(3+3)} + 3 \times (3 + 3) + 3$.
$751 = 3^{(3+3)} + 33 - 33/3$.
$752 = 3^{(3+3)} + 3^3 - 3 - 3/3$.
$753 = 3^{(3+3)} + 3^3 - 3$.
$754 = 3^{(3+3)} + 3^3 - 3 + 3/3$.
$755 = 3^{(3+3)} + 3^3 - 3/3$.
$756 = 3^{(3+3)} + 3^3$.
$757 = 3^{(3+3)} + 3^3 + 3/3$.
$758 = 3^{(3+3)} + 3^3 + 3 - 3/3$.
$759 = 3^{(3+3)} + 3^3 + 3$.
$760 = 3^{(3+3)} + 3^3 + 3 + 3/3$.
$761 = 3^{(3+3)} + 33 - 3/3$.
$762 = 3^{(3+3)} + 33$.
$763 = 3^{(3+3)} + 33 + 3/3$.
$764 = 3^{(3+3)} + 33 + 3 - 3/3$.
$765 = 3^{(3+3)} + 33 + 3$.
$766 = 3^{(3+3)} + 33 + 3 + 3/3$.
$767 = 3^{(3+3)} + 3^3 + 33/3$.
$768 = 3^{(3+3)} + 33 + 3 + 3$.
$769 = 3^{(3+3)} + 33 + 3 + 3 + 3/3$.
$770 = 3^{(3+3)} + 3^3 + 3 + 33/3$.
$771 = 3^{(3+3)} + 3 \times 3 + 33$.
$772 = 3^{(3+3)} + 3 \times 3 + 33 + 3/3$.
$773 = 3^{(3+3)} + 33 + 33/3$.
$774 = 3^{(3+3)} + 3 \times 3 + 33 + 3$.
$775 = 3333/3 - 333 - 3$.
$776 = 3^{(3+3)} + 33 + 3 + 33/3$.
$777 = 3^3 \times (3^3 + 3) - 33$.
$778 = 3333/3 - 333$.
$779 = 33 \times 3^3 - (333 + 3)/3$.
$780 = (3^3 + 3) \times (3^3 - 3/3)$.
$781 = 33 \times ((3 + 3)^3 - 3)/(3 \times 3)$.
$782 = 3^{(3+3)} + 3^3 + 3^3 - 3/3$.
$783 = 3 \times 3 \times (3 \times 3^3 + 3 + 3)$.
$784 = (3^3 + 3/3)^{(3-3/3)}$.
$785 = 33 \times (3^3 - 3) - 3 - 3 - 3/3$.
$786 = 33 \times (3^3 - 3) - 3 - 3$.
$787 = (3^3 + 3/3)^{(3-3/3)} + 3$.
$788 = 33 \times (3^3 - 3) - 3 - 3/3$.
$789 = 33 \times (3^3 - 3) - 3$.
$790 = 33 \times (3^3 - 3) - 3 + 3/3$.
$791 = 33 \times (3^3 - 3) - 3/3$.
$792 = 33 \times (3^3 - 3)$.
$793 = 33 \times (3^3 - 3) + 3/3$.
$794 = 33 \times (3^3 - 3) + 3 - 3/3$.
$795 = 33 \times (3^3 - 3) + 3$.
$796 = 3 + 33 \times (3^3 - 3) + 3/3$.
$797 = 33 \times (3^3 - 3) + 3 + 3 - 3/3$.
$798 = 33 \times (3^3 - 3) + 3 + 3$.
$799 = 3^3 \times (3^3 + 3) - 33/3$.
$800 = 3^{(3+3)} + ((3 + 3)^3 - 3)/3$.
$801 = 3 \times (3 \times 3 \times (3^3 + 3) - 3)$.
$802 = 3^{(3+3)} + ((3 + 3)^3 + 3)/3$.
$803 = 33 \times (3^3 - 3) + 33/3$.
$804 = 3^3 \times (3^3 + 3) - 3 - 3$.
$805 = 3^{(3+3)} + 3 + ((3 + 3)^3 + 3)/3$.
$806 = 3^3 \times (3^3 + 3) - 3 - 3/3$.
$807 = 3^3 \times (3^3 + 3) - 3$.
$808 = 3^3 \times (3^3 + 3) - 3 + 3/3$.
$809 = 3^3 \times (3^3 + 3) - 3/3$.
$810 = 3^3 \times (3^3 + 3)$.
$811 = 3^3 \times (3^3 + 3) + 3/3$.
$812 = 3^3 \times (3^3 + 3) + 3 - 3/3$.
$813 = 3^3 \times (3^3 + 3) + 3$.
$814 = 3^3 \times (3^3 + 3) + 3 + 3/3$.
$815 = 3^3 \times (3^3 + 3) + 3 + 3 - 3/3$.
$816 = 3^3 \times (3^3 + 3) + 3 + 3$.
$817 = 3^3 \times (3^3 + 3) + 3 + 3 + 3/3$.
$818 = 3^3 + 33 \times (3^3 - 3) - 3/3$.
$819 = 3^3 + 33 \times (3^3 - 3)$.
$820 = 3^3 + 33 \times (3^3 - 3) + 3/3$.
$821 = 3^3 \times (3^3 + 3) + 33/3$.
$822 = 3^3 + 33 \times (3^3 - 3) + 3$.
$823 = 3^3 + 33 \times (3^3 - 3) + 3 + 3/3$.
$824 = 3^3 \times (3^3 + 3) + 3 + 33/3$.
$825 = 33 + 33 \times (3^3 - 3)$.
$826 = 33 + 33 \times (3^3 - 3) + 3/3$.
$827 = 3 \times 33 + 3^{(3+3)} - 3/3$.
$828 = 3 \times 33 + 3^{(3+3)}$.
$829 = 3 \times 33 + 3^{(3+3)} + 3/3$.
$830 = 3 \times 33 + 3^{(3+3)} + 3 - 3/3$.
$831 = 3 \times 33 + 3^{(3+3)} + 3$.
$832 = (3^3 - 3/3) \times (33 - 3/3)$.
$833 = (3333 - 3/3)/(3 + 3/3)$.
$834 = 3 \times 33 + 3^{(3+3)} + 3 + 3$.
$835 = (3^3 - 3/3) \times (33 - 3/3) + 3$.
$836 = 3^3 + 3^3 \times (3^3 + 3) - 3/3$.
$837 = 3^3 + 3^3 \times (3^3 + 3)$.
$838 = 3^3 + 3^3 \times (3^3 + 3) + 3/3$.
$839 = 3^{(3+3)} + (333 - 3)/3$.
$840 = 3^{(3+3)} + 333/3$.
$841 = 3^{(3+3)} + (333 + 3)/3$.
$842 = 3^{(3+3)} + 3 + (333 - 3)/3$.
$843 = 3^3 \times (3^3 + 3) + 33$.
$844 = 3^{(3+3)} + 3 + (333 + 3)/3$.
$845 = (3 - 3/3)^{(3\times3)} + 333$.
$846 = 3^3 \times (3^3 + 3) + 33 + 3$.
$847 = 33 \times (3 \times 3^3 - 3 - 3/3)/3$.
$848 = (3 - 3/3)^{(3\times3)} + 3 + 333$.
$849 = 33 \times 3^3 - 3 \times 3 - 33$.
$850 = 3^{(3+3)} + (33/3)^{(3-3/3)}$.
$851 = 3^{(3+3)} + (3^{(3+3)} + 3)/(3 + 3)$.
$852 = (3 + 3/3) \times ((3 + 3)^3 - 3)$.
$853 = (3+3/3) \times ((3+3)^3 - 3) + 3/3$.
$854 = 3^{(3+3)} + (3 + 3 - 3/3)^3$.
$855 = 3 \times (3 \times (3 \times 33 - 3) - 3)$.
$856 = 3 \times 3^{(3+3)} - (33/3)^3$.
$857 = 33 \times 3^3 - 33 - 3/3$.
$858 = 33 \times (3^3 - 3/3)$.
$859 = 33 \times (3^3 - 3/3) + 3/3$.
$860 = (3 + 3/3) \times ((3 + 3)^3 - 3/3)$.
$861 = 33 \times (3^3 - 3/3) + 3$.
$862 = 33 \times (3^3 - 3/3) + 3 + 3/3$.
$863 = 33 \times 3^3 - 3^3 - 3/3$.
$864 = 3 \times 3 \times (3 \times 33 - 3)$.
$865 = 3 \times 3 \times (3 \times 33 - 3) + 3/3$.
$866 = 33 \times 3^3 - 3^3 + 3 - 3/3$.
$867 = 33 \times 3^3 - 3^3 + 3$.
$868 = (3 + 3/3) \times ((3 + 3)^3 + 3/3)$.
$869 = 33 \times (3^3 - 3/3) + 33/3$.
$870 = 3 \times 3 \times (3 \times 33 - 3) + 3 + 3$.
$871 = (3+3/3) \times ((3+3)^3 + 3/3) + 3$.
$872 = (3+3/3) \times ((3+3)^3 + 3 - 3/3)$.
$873 = 3 \times (3 \times (3 \times 33 - 3) + 3)$.
$874 = 3 \times (3 \times (3 \times 33 - 3) + 3) + 3/3$.
$875 = 3 \times 3 \times (3 \times 33 - 3) + 33/3$.
$876 = (3 + 3/3) \times ((3 + 3)^3 + 3)$.
$877 = 33 \times 3^3 - 3 - 33/3$.
$878 = 33 \times 3^3 - 3 - (33 - 3)/3$.
$879 = 33 \times 3^3 - 3 \times 3 - 3$.
$880 = 33 \times 3^3 - 33/3$.
$881 = 33 \times 3^3 - (33 - 3)/3$.
$882 = 3 \times (3 \times 3 \times 33 - 3)$.
$883 = 33 \times 3^3 + 3 - 33/3$.

$884 = (3^3 - 3/3) \times (33 + 3/3)$.
$885 = 33 \times 3^3 - 3 - 3$.
$886 = 33 \times 3^3 - 3 - 3 + 3/3$.
$887 = 33 \times 3^3 - 3 - 3/3$.
$888 = 33 \times 3^3 - 3$.
$889 = 33 \times 3^3 - 3 + 3/3$.
$890 = 33 \times 3^3 - 3/3$.
$891 = 33 \times 3^3$.
$892 = 33 \times 3^3 + 3/3$.
$893 = 33 \times 3^3 + 3 - 3/3$.
$894 = 33 \times 3^3 + 3$.
$895 = 33 \times 3^3 + 3 + 3/3$.
$896 = 33 \times 3^3 + 3 + 3 - 3/3$.
$897 = 33 \times 3^3 + 3 + 3$.
$898 = 33 \times 3^3 + 3 + 3 + 3/3$.
$899 = 3 \times 3 + 33 \times 3^3 - 3/3$.
$900 = 3 \times 3 + 33 \times 3^3$.
$901 = 33 \times 3^3 + 3 \times 3 + 3/3$.
$902 = 33 \times 3^3 + 33/3$.
$903 = 33 \times 3^3 + 3 \times 3 + 3$.
$904 = 33 \times 3^3 + 3 \times 3 + 3 + 3/3$.
$905 = 33 \times 3^3 + 3 + 33/3$.
$906 = 33 \times 3^3 + 3 \times 3 + 3 + 3$.
$907 = 33 \times 3^3 + 3^3 - 33/3$.
$908 = 33 \times 3^3 + 3 + 3 + 33/3$.
$909 = 3 \times (3 \times 3 \times 33 + 3 + 3)$.
$910 = 33 \times 3^3 + 3 \times (3 + 3) + 3/3$.
$911 = 33 \times 3^3 + 3 \times 3 + 33/3$.
$912 = 3 \times (3 \times 3 \times 33 + 3 + 3) + 3$.
$913 = 33 \times 3^3 + 33 - 33/3$.
$914 = 33 \times 3^3 + 3^3 - 3 - 3/3$.
$915 = 33 \times 3^3 + 3^3 - 3$.
$916 = 33 \times 3^3 + 3^3 - 3 + 3/3$.
$917 = 33 \times 3^3 + 3^3 - 3/3$.
$918 = 3 \times 3 \times (3 \times 33 + 3)$.
$919 = 33 \times 3^3 + 3^3 + 3/3$.
$920 = 33 \times 3^3 + 3^3 + 3 - 3/3$.
$921 = 33 \times 3^3 + 3^3 + 3$.
$922 = 33 \times 3^3 + 3^3 + 3 + 3/3$.
$923 = 33 + 33 \times 3^3 - 3/3$.
$924 = 33 + 33 \times 3^3$.
$925 = 33 + 33 \times 3^3 + 3/3$.
$926 = 33 + 33 \times 3^3 + 3 - 3/3$.
$927 = 33 + 33 \times 3^3 + 3$.
$928 = 33 + 33 \times 3^3 + 3 + 3/3$.
$929 = 33 \times 3^3 + 3^3 + 33/3$.
$930 = 33 + 33 \times 3^3 + 3 + 3$.
$931 = 33 + 33 \times 3^3 + 3 + 3 + 3/3$.
$932 = 3 \times 333 - 3 - (3 + 3/3)^3$.
$933 = 33 \times 3^3 + 33 + 3 \times 3$.
$934 = 3^{(3+3)} + (3 + 3)^3 - 33/3$.
$935 = 3 \times 333 - (3 + 3/3)^3$.
$936 = (3 \times 3 + 3) \times (3 \times 3^3 - 3)$.
$937 = (3 \times 3 + 3) \times (3 \times 3^3 - 3) + 3/3$.
$938 = 3 \times 333 + 3 - (3 + 3/3)^3$.
$939 = 3^3 \times (33 + 3) - 33$.
$940 = 3^3 \times (33 + 3) - 33 + 3/3$.
$941 = 3^{(3+3)} + (3 + 3)^3 - 3 - 3/3$.
$942 = 3^{(3+3)} + (3 + 3)^3 - 3$.
$943 = 3^{(3+3)} + (3 + 3)^3 - 3 + 3/3$.
$944 = 3^{(3+3)} + (3 + 3)^3 - 3/3$.
$945 = 3^{(3+3)} + (3 + 3)^3$.
$946 = 3^{(3+3)} + (3 + 3)^3 + 3/3$.
$947 = 3^{(3+3)} + (3 + 3)^3 + 3 - 3/3$.
$948 = 3^{(3+3)} + (3 + 3)^3 + 3$.
$949 = 3^{(3+3)} + (3 + 3)^3 + 3 + 3/3$.
$950 = 3^{(3+3)} + (3 + 3)^3 + 3 + 3 - 3/3$.
$951 = 3^{(3+3)} + (3 + 3)^3 + 3 + 3$.
$952 = (3^3 + 3/3) \times (33 + 3/3)$.
$953 = (3 + 3) \times ((3 + 3) \times 3^3 - 3) - 3/3$.
$954 = (3 + 3) \times ((3 + 3) \times 3^3 - 3)$.
$955 = 33 \times 3^3 + (3 + 3/3)^3$.
$956 = 3^{(3+3)} + (3 + 3)^3 + 33/3$.
$957 = 33 \times (3^3 + 3 - 3/3)$.
$958 = 3 + 33 \times 3^3 + (3 + 3/3)^3$.
$959 = (3 + 3^3) \times (33 - 3/3) - 3/3$.
$960 = (3 + 3^3) \times (33 - 3/3)$.
$961 = (3^3 + 3 + 3/3)^{(3-3/3)}$.
$962 = 33 \times 3^3 + ((3 + 3)^3 - 3)/3$.
$963 = 3 \times (333 - 3 \times 3 - 3)$.
$964 = (3 \times 3 + 3/3)^3 - 33 - 3$.
$965 = 3 \times 333 - 33 - 3/3$.
$966 = 3 \times 333 - 33$.
$967 = (3 \times 3 + 3/3)^3 - 33$.
$968 = (3 + 3/3) \times (3^{(3+3)} - 3)/3$.
$969 = 3^3 \times (33 + 3) - 3$.
$970 = 3^3 \times (33 + 3) - 3 + 3/3$.
$971 = 3^3 \times (33 + 3) - 3/3$.
$972 = 3^3 \times (33 + 3)$.
$973 = 3^3 \times (33 + 3) + 3/3$.
$974 = 3^3 \times (33 + 3) + 3 - 3/3$.
$975 = 3^3 \times (33 + 3) + 3$.
$976 = 3^3 \times (33 + 3) + 3 + 3/3$.
$977 = 3^3 \times (33 + 3) + 3 + 3 - 3/3$.
$978 = 3^3 \times (33 + 3) + 3 + 3$.
$979 = 3 \times (333 - 3) - 33/3$.
$980 = 3 \times (333 - 3 - 3) - 3/3$.
$981 = 3 \times (333 - 3 - 3)$.
$982 = 3 \times (333 - 3 - 3) + 3/3$.
$983 = 3^3 \times (33 + 3) + 33/3$.
$984 = 3 \times (333 - 3 - 3) + 3$.
$985 = 3 \times 333 - 3 - 33/3$.
$986 = 3 \times (333 - 3) - 3 - 3/3$.
$987 = 3 \times (333 - 3) - 3$.
$988 = 3 \times 333 - 33/3$.
$989 = 3 \times (333 - 3) - 3/3$.
$990 = 3 \times (333 - 3)$.
$991 = 3 \times (333 - 3) + 3/3$.
$992 = 3 \times (333 - 3) + 3 - 3/3$.
$993 = 3 \times (333 - 3) + 3$.
$994 = (3 \times 3 + 3/3)^3 - 3 - 3$.
$995 = 3 \times 333 - 3 - 3/3$.
$996 = 3 \times 333 - 3$.
$997 = (3 \times 3 + 3/3)^3 - 3$.
$998 = 3 \times 333 - 3/3$.
$999 = 3 \times 333$.
$1000 = (3 \times 3 + 3/3)^3$.

7. Representations Using Number 4

$101 = 4444/44$.
$102 = (444 - 4)/4 - 4 - 4$.
$103 = 444/4 - 4 - 4$.
$104 = 4 \times 4 + 44 + 44$.
$105 = 4 + 4444/44$.
$106 = (444 - 4)/4 - 4$.
$107 = 444/4 - 4$.
$108 = 44 + 4 \times 4 \times 4$.
$109 = 44 + (4^4 + 4)/4$.
$110 = (444 - 4)/4$.
$111 = 444/4$.
$112 = 4 \times (44 - 4 \times 4)$.
$113 = (444 + 4 + 4)/4$.
$114 = 4 + (444 - 4)/4$.
$115 = 4 + 444/4$.
$116 = 4 + 4 \times (44 - 4 \times 4)$.
$117 = 4 + (444 + 4 + 4)/4$.
$118 = 4 + 4 + (444 - 4)/4$.
$119 = 4 + 4 + 444/4$.
$120 = (4 + 4) \times (44/4 + 4)$.
$121 = (44/4)^{((4+4)/4)}$.
$122 = (444 + 44)/4$.
$123 = 4 + 4 + 4 + 444/4$.
$124 = 4 \times 4 \times (4 + 4) - 4$.
$125 = 44 + (4 - 4/4)^4$.
$126 = 4 \times (4^4 - 4)/(4 + 4)$.
$127 = 4 \times 4 + 444/4$.
$128 = 4 \times 4 \times (4 + 4)$.
$129 = 4 \times 4 \times (4 + 4) + 4/4$.
$130 = 4 \times (4^4 + 4)/(4 + 4)$.
$131 = 4 \times 4 + 4 + 444/4$.
$132 = 4 \times 4 \times (4 + 4) + 4$.
$133 = 4 \times 4 \times (4 + 4) + 4 + 4/4$.
$134 = 4 + 4 \times (4^4 + 4)/(4 + 4)$.
$135 = (4 - 4/4) \times (44 + 4/4)$.
$136 = 4 \times 4 \times (4 + 4) + 4 + 4$.
$137 = 4 \times 4 \times (4 + 4) + 4 + 4 + 4/4$.
$138 = 4 \times 4 \times (4 + 4) + (44 - 4)/4$.
$139 = 4 \times 4 \times (4 + 4) + 44/4$.
$140 = 4 \times (4 \times (4 + 4) + 4) - 4$.
$141 = 4^4 - 4 - 444/4$.
$142 = 4 \times (4 + 4) + (444 - 4)/4$.
$143 = 4 \times (4 + 4) + 444/4$.
$144 = 4 \times (4 \times (4 + 4) + 4)$.
$145 = 4^4 - 444/4$.
$146 = 4^4 + (4 - 444)/4$.
$147 = 4 \times (4 + 4) + 4 + 444/4$.
$148 = 4 \times (4 \times (4 + 4) + 4) + 4$.
$149 = 4^4 + 4 - 444/4$.
$150 = 4 \times (44 + 4^4)/(4 + 4)$.
$151 = 44 - 4 + 444/4$.
$152 = 4 \times (44 - 4) - 4 - 4$.
$153 = 4^4 + 4 + 4 - 444/4$.
$154 = 44 + (444 - 4)/4$.
$155 = 44 + 444/4$.
$156 = 4 \times (44 - 4) - 4$.
$157 = 4 \times (44 - 4) - 4 + 4/4$.
$158 = 4 \times (44 - 4) - (4 + 4)/4$.
$159 = 4 \times (44 - 4) - 4/4$.
$160 = 4 \times (44 - 4)$.
$161 = 4 \times (44 - 4) + 4/4$.
$162 = 4 \times (44 - 4) + (4 + 4)/4$.
$163 = 4 \times (44 - 4) + 4 - 4/4$.
$164 = 4 \times (44 - 4) + 4$.
$165 = 4 \times 44 - 44/4$.
$166 = 4 \times 44 - (44 - 4)/4$.
$167 = 4 \times 44 - 4 - 4 - 4/4$.
$168 = 4 \times 44 - 4 - 4$.
$169 = 4 \times 44 + 4 - 44/4$.

$170 = 4 \times 44 - 4 - (4 + 4)/4.$
$171 = 4 \times 44 - 4 - 4/4.$
$172 = 4 \times 44 - 4.$
$173 = 4 \times 44 - 4 + 4/4.$
$174 = 4 \times 44 - (4 + 4)/4.$
$175 = 4 \times 44 - 4/4.$
$176 = 4 \times 44.$
$177 = 4 \times 44 + 4/4.$
$178 = 4 \times 44 + (4 + 4)/4.$
$179 = 4 \times 44 + 4 - 4/4.$
$180 = 4 \times 44 + 4.$
$181 = 4 \times 44 + 4 + 4/4.$
$182 = 4 \times 44 + 4 + (4 + 4)/4.$
$183 = 4 \times 44 + 4 + 4 - 4/4.$
$184 = 4 \times 44 + 4 + 4.$
$185 = 4 \times 44 + 4 + 4 + 4/4.$
$186 = 4 \times 44 + (44 - 4)/4.$
$187 = 4 \times 44 + 44/4.$
$188 = 444 - 4^4.$
$189 = 444 - 4^4 + 4/4.$
$190 = 4^4 - (4^4 + 4 + 4)/4.$
$191 = 4^4 - (4^4 + 4)/4.$
$192 = 4 \times (44 + 4).$
$193 = 4 \times (44 + 4) + 4/4.$
$194 = 4^4 - (4^4 - 4 - 4)/4.$
$195 = 4^4 + 4 - (4^4 + 4)/4.$
$196 = 4 \times (44 + 4) + 4.$
$197 = 4^4 + 4 - (4^4 - 4)/4.$
$198 = 4^4 + 4 - (4^4 - 4 - 4)/4.$
$199 = 4^4 + 4 + 4 - (4^4 + 4)/4.$
$200 = 4 \times (44 + 4) + 4 + 4.$
$201 = 4^4 - 44 - 44/4.$
$202 = 4^4 - 44 + (44 - 4)/4.$
$203 = 4^4 - (4^4 - 44)/4.$
$204 = 44 + 4 \times (44 - 4).$
$205 = ((4 + 4)^4 + 4)/(4 \times 4 + 4).$
$206 = 4^4 - 4 - 44 - (4 + 4)/4.$
$207 = 4^4 - 4 - 44 - 4/4.$
$208 = 4 \times (44 + 4 + 4).$
$209 = 4 \times (44 + 4 + 4) + 4/4.$
$210 = 4^4 - 44 - (4 + 4)/4.$
$211 = 4^4 - 44 - 4/4.$
$212 = 4^4 - 44.$
$213 = 4^4 - 44 + 4/4.$
$214 = 4^4 - 44 + (4 + 4)/4.$
$215 = 4^4 + 4 - 44 - 4/4.$
$216 = 4^4 + 4 - 44.$
$217 = 4^4 + 4 - 44 + 4/4.$
$218 = 4 \times 444/(4 + 4) - 4.$
$219 = 44 + 4 \times 44 - 4/4.$
$220 = 44 + 4 \times 44.$
$221 = 44 + 4 \times 44 + 4/4.$
$222 = 4 \times 444/(4 + 4).$
$223 = 4^4 - 44 + 44/4.$
$224 = 4^4 - 4 \times (4 + 4).$
$225 = 4^4 - 4 \times (4 + 4) + 4/4.$
$226 = 4 + 4 \times 444/(4 + 4).$
$227 = 4^4 + 4 - 44 + 44/4.$
$228 = 4^4 + 4 - 4 \times (4 + 4).$
$229 = 4^4 - 4 \times 4 - 44/4.$
$230 = 4 + 4 + 4 \times 444/(4 + 4).$
$231 = 44 + 4 \times 44 + 44/4.$
$232 = 4^4 - 4 \times 4 - 4 - 4.$
$233 = 4 + 4^4 - 4 \times 4 - 44/4.$
$234 = 4^4 - 4 \times 44/(4 + 4).$
$235 = 4^4 - 4 - 4 \times 4 - 4/4.$
$236 = 4^4 - 4 \times 4 - 4.$
$237 = 4^4 - 4 \times 4 - 4 + 4/4.$
$238 = 4^4 - 4 \times 4 - (4 + 4)/4.$
$239 = 4^4 - 4 \times 4 - 4/4.$
$240 = 4^4 - 4 \times 4.$
$241 = 4^4 - 4 \times 4 + 4/4.$
$242 = 44 \times 44/(4 + 4).$
$243 = (4 - 4/4)^{(4+4/4)}.$
$244 = 4^4 - 4 \times 4 + 4.$
$245 = 4^4 - 44/4.$
$246 = 4^4 - (44 - 4)/4.$
$247 = 4^4 - 4 - 4 - 4/4.$
$248 = 4^4 - 4 - 4.$
$249 = 4^4 + 4 - 44/4.$
$250 = 4^4 - 4 - (4 + 4)/4.$
$251 = 4^4 - 4 - 4/4.$
$252 = 4^4 - 4.$
$253 = 4^4 - 4 + 4/4.$
$254 = 4^4 - (4 + 4)/4.$
$255 = 4^4 - 4/4.$
$256 = 4^4.$
$257 = 4^4 + 4/4.$
$258 = 4^4 + (4 + 4)/4.$
$259 = 4^4 + 4 - 4/4.$
$260 = 4^4 + 4.$
$261 = 4^4 + 4 + 4/4.$
$262 = 4^4 + 4 + (4 + 4)/4.$
$263 = 4^4 + 4 + 4 - 4/4.$
$264 = 4^4 + 4 + 4.$
$265 = 4^4 + 4 + 4 + 4/4.$
$266 = 4^4 + (44 - 4)/4.$
$267 = 4^4 + 44/4.$
$268 = 4^4 + 4 + 4 + 4.$
$269 = 4^4 + 4 + 4 + 4 + 4/4.$
$270 = 4^4 + 4 + (44 - 4)/4.$
$271 = 4^4 + 4 + 44/4.$
$272 = 4^4 + 4 \times 4.$
$273 = 4^4 + 4 \times 4 + 4/4.$
$274 = 4^4 + 4 \times 4 + (4 + 4)/4.$
$275 = 4^4 + 4 + 4 + 44/4.$
$276 = 4^4 + 4 \times 4 + 4.$
$277 = 4^4 + 4 \times 4 + 4 + 4/4.$
$278 = 4^4 + 4 \times 44/(4 + 4).$
$279 = 4^4 + 4 + 4 + 4 + 44/4.$
$280 = 4^4 + 4 \times 4 + 4 + 4.$
$281 = 4^4 + 4 \times 4 + 4 + 4 + 4/4.$
$282 = 4^4 + 4 + 4 \times 44/(4 + 4).$
$283 = 4 \times 4 + 4^4 + 44/4.$
$284 = 44 + 4^4 - 4 \times 4.$
$285 = 44 + 4^4 - 4 \times 4 - 4/4.$
$286 = 44 + 44 \times 44/(4 + 4).$
$287 = 4^4 + 4 \times (4 + 4) - 4/4.$
$288 = 4^4 + 4 \times (4 + 4).$
$289 = 44 + 4^4 - 44/4.$
$290 = 44 + 4^4 - (44 - 4)/4.$
$291 = 4 \times (4 + 4) + 4^4 + 4 - 4/4.$
$292 = 4 \times (4 + 4) + 4^4 + 4.$
$293 = 4 \times (4 + 4) + 4^4 + 4 + 4/4.$
$294 = 44 + 4^4 - 4 - (4 + 4)/4.$
$295 = 44 + 4^4 - 4 - 4/4.$
$296 = 44 + 4^4 - 4.$
$297 = 44 + 4^4 - 4 + 4/4.$
$298 = 44 + 4^4 - (4 + 4)/4.$
$299 = 44 + 4^4 - 4/4.$
$300 = 44 + 4^4.$
$301 = 4^4 + 44 + 4/4.$
$302 = 4^4 + 44 + (4 + 4)/4.$
$303 = 4^4 + 44 + 4 - 4/4.$
$304 = 4^4 + 44 + 4.$
$305 = 4^4 + 44 + 4 + 4/4.$
$306 = 4^4 + 44 + 4 + (4 + 4)/4.$
$307 = 4^4 + 44 + 4 + 4 - 4/4.$
$308 = 4^4 + 44 + 4 + 4.$
$309 = 4^4 + (4^4 - 44)/4.$
$310 = 4^4 + 44 + (44 - 4)/4.$
$311 = 4^4 + 44 + 44/4.$
$312 = 4^4 + 44 + 4 + 4 + 4.$
$313 = 4 + 4^4 + (4^4 - 44)/4.$
$314 = 4^4 - 4 + (4^4 - 4 - 4)/4.$
$315 = 4^4 - 4 + (4^4 - 4)/4.$
$316 = 4^4 + 44 + 4 \times 4.$
$317 = 4^4 - 4 + (4^4 + 4)/4.$
$318 = 4^4 + (4^4 - 4 - 4)/4.$
$319 = 4^4 + (4^4 - 4)/4.$
$320 = 4 \times 4 \times (4 \times 4 + 4).$
$321 = 4^4 + (4^4 + 4)/4.$
$322 = 4^4 + (4^4 + 4 + 4)/4.$
$323 = 4^4 + 4 + (4^4 - 4)/4.$
$324 = 4 \times (4 - 4/4)^4.$
$325 = 4^4 + 4 + (4^4 + 4)/4.$
$326 = 4^4 + 4 + (4^4 + 4 + 4)/4.$
$327 = 4^4 + 4 + 4 + (4^4 - 4)/4.$
$328 = 4 + 4 \times (4 - 4/4)^4.$
$329 = 4^4 + 4 + 4 + (4^4 + 4)/4.$
$330 = 4^4 + (4^4 + 44 - 4)/4.$
$331 = 4^4 + (44 + 4^4)/4.$
$332 = 4 + 4 + 4 \times (4 - 4/4)^4.$
$333 = 4^4 - 4 + (4 - 4/4)^4.$
$334 = 444 - (444 - 4)/4.$
$335 = 4^4 + 4 + (44 + 4^4)/4.$
$336 = 4 \times (4 \times (4 \times 4 + 4) + 4).$
$337 = 4^4 + (4 - 4/4)^4.$
$338 = 4^4 + (4 - 4/4)^4 + 4/4.$
$339 = 4 \times ((4 - 4/4)^4 + 4) - 4/4.$
$340 = 4 \times ((4 - 4/4)^4 + 4).$
$341 = 4^4 + 4 + (4 - 4/4)^4.$
$342 = 44 \times (4 + 4) - (44 - 4)/4.$
$343 = (4 + 4 - 4/4)^{(4-4/4)}.$
$344 = 4^4 + 44 + 44.$
$345 = 4^4 + 44 + 44 + 4/4.$
$346 = 44 \times (4 + 4) - 4 - (4 + 4)/4.$
$347 = 44 \times (4 + 4) - 4 - 4/4.$
$348 = 44 \times (4 + 4) - 4.$
$349 = 44 \times (4 + 4) - 4 + 4/4.$
$350 = 44 \times (4 + 4) - (4 + 4)/4.$
$351 = 44 \times (4 + 4) - 4/4.$
$352 = 44 \times (4 + 4).$
$353 = 44 \times (4 + 4) + 4/4.$
$354 = 44 \times (4 + 4) + (4 + 4)/4.$
$355 = 44 \times (4 + 4) + 4 - 4/4.$
$356 = 44 \times (4 + 4) + 4.$
$357 = 44 \times (4 + 4) + 4 + 4/4.$
$358 = 44 \times (4 + 4) + 4 + (4 + 4)/4.$
$359 = 44 \times (4 + 4) + 4 + 4 - 4/4.$
$360 = 44 \times (4 + 4) + 4 + 4.$
$361 = 44 \times (4 + 4) + 4 + 4 + 4/4.$
$362 = 4^4 - 4 + (444 - 4)/4.$
$363 = 4^4 - 4 + 444/4.$
$364 = 44 \times (4 + 4) + 4 + 4 + 4.$
$365 = (4 + 4/4)^4 - 4^4 - 4.$
$366 = 4^4 + (444 - 4)/4.$
$367 = 4^4 + 444/4.$

$368 = 4 \times (44 + 44 + 4)$.
$369 = (4 + 4/4)^4 - 4^4$.
$370 = 4^4 + 4 + (444 - 4)/4$.
$371 = 4^4 + 4 + 444/4$.
$372 = 44 \times (4 + 4) + 4 \times 4 + 4$.
$373 = (4 + 4/4)^4 + 4 - 4^4$.
$374 = 44 \times (4 \times 4 \times 4 + 4)/(4 + 4)$.
$375 = 4^4 + 4 + 4 + 444/4$.
$376 = (4 + 4) \times (44 + 4 - 4/4)$.
$377 = (4 + 4/4)^4 - 4^4 + 4 + 4$.
$378 = 4^4 + (444 + 44)/4$.
$379 = 444 - (4^4 + 4)/4$.
$380 = 444 - 4 \times 4 \times 4$.
$381 = 444 + (4 - 4^4)/4$.
$382 = 4^4 + 4 \times (4^4 - 4)/(4 + 4)$.
$383 = (4 + 4) \times (44 + 4) - 4/4$.
$384 = (4 + 4) \times (44 + 4)$.
$385 = (4 + 4) \times (44 + 4) + 4/4$.
$386 = 4^4 + 4 \times (4^4 + 4)/(4 + 4)$.
$387 = (4 + 4) \times (44 + 4) + 4 - 4/4$.
$388 = (4 + 4) \times (44 + 4) + 4$.
$389 = (4 + 4) \times (44 + 4) + 4 + 4/4$.
$390 = (4 + (4 + 4)/4) \times (4^4 + 4)/4$.
$391 = 444 - (4^4 - 44)/4$.
$392 = (4 + 4) \times (44 + 4) + 4 + 4$.
$393 = (4+4) \times (44+4) + 4 + 4 + 4/4$.
$394 = (4 + (4+4)/4) \times (4^4 + 4)/4 + 4$.
$395 = 44 \times (4 + 4) + 44 - 4/4$.
$396 = 44 \times (4 + 4) + 44$.
$397 = 44 \times (4 + 4) + 44 + 4/4$.
$398 = 444 + 44 - (4 + 4)/4$.
$399 = 4 \times 4^4 - (4 + 4/4)^4$.
$400 = 444 - 44$.
$401 = 444 - 44 + 4/4$.
$402 = 444 - 44 + (4 + 4)/4$.
$403 = 4 \times 4^4 + 4 - (4 + 4/4)^4$.
$404 = 444 - 44 + 4$.
$405 = (4 + 4/4) \times (4 - 4/4)^4$.
$406 = 444 - 44 + 4 + (4 + 4)/4$.
$407 = 4 \times 4^4 + 4 + 4 - (4 + 4/4)^4$.
$408 = 444 - 44 + 4 + 4$.
$409 = (4 + 4/4) \times (4 - 4/4)^4 + 4$.
$410 = 4 \times ((4 + 4)^4 + 4)/(44 - 4)$.
$411 = 4^4 + 44 + 444/4$.
$412 = 444 - 4 \times (4 + 4)$.
$413 = 44 - 4^4 + (4 + 4/4)^4$.
$414 = 4 \times ((4 + 4)^4 + 4)/(44 - 4) + 4$.
$415 = 4^4 + 4 \times (44 - 4) - 4/4$.
$416 = 4^4 + 4 \times (44 - 4)$.
$417 = 4^4 + 4 \times (44 - 4) + 4/4$.
$418 = 4^4 + 4 \times (44 - 4) + (4 + 4)/4$.
$419 = (44 \times 44 - 4^4 - 4)/4$.
$420 = 4^4 + 4 + 4 \times (44 - 4)$.
$421 = 4^4 + 4 \times 44 - 44/4$.
$422 = 444 - 4 \times 44/(4 + 4)$.
$423 = 444 - 4 \times 4 - 4 - 4/4$.
$424 = 444 - 4 \times 4 - 4$.
$425 = 444 - 4 \times 4 - 4 + 4/4$.
$426 = 444 - 4 \times 4 - (4 + 4)/4$.
$427 = 444 - 4 \times 4 - 4/4$.
$428 = 444 - 4 \times 4$.
$429 = 444 - 4 \times 4 + 4/4$.
$430 = 4^4 + 4 \times 44 - (4 + 4)/4$.
$431 = 4^4 + 4 \times 44 - 4/4$.
$432 = 4^4 + 4 \times 44$.
$433 = 444 - 44/4$.
$434 = 444 - (44 - 4)/4$.
$435 = 444 - 4 - 4 - 4/4$.
$436 = 444 - 4 - 4$.
$437 = 444 + 4 - 44/4$.
$438 = 444 - 4 - (4 + 4)/4$.
$439 = 444 - 4 - 4/4$.
$440 = 444 - 4$.
$441 = 444 - 4 + 4/4$.
$442 = 444 - (4 + 4)/4$.
$443 = 444 - 4/4$.
$444 = 444$.
$445 = 444 + 4/4$.
$446 = 444 + (4 + 4)/4$.
$447 = 444 + 4 - 4/4$.
$448 = 444 + 4$.
$449 = 444 + 4 + 4/4$.
$450 = 444 + 4 + (4 + 4)/4$.
$451 = 444 + 4 + 4 - 4/4$.
$452 = 444 + 4 + 4$.
$453 = 444 + 4 + 4 + 4/4$.
$454 = 444 + (44 - 4)/4$.
$455 = 444 + 44/4$.
$456 = 444 + 4 + 4 + 4$.
$457 = 444 + 4 + 4 + 4 + 4/4$.
$458 = 444 + 4 + (44 - 4)/4$.
$459 = 444 + 4 + 44/4$.
$460 = 444 + 4 \times 4$.
$461 = 444 + 4 \times 4 + 4/4$.
$462 = 444 + 4 \times 4 + (4 + 4)/4$.
$463 = 444 + 4 + 4 + 44/4$.
$464 = 444 + 4 \times 4 + 4$.
$465 = 444 + 4 \times 4 + 4 + 4/4$.
$466 = 444 + 4 \times 44/(4 + 4)$.
$467 = 4^4 + 4^4 - 44 - 4/4$.
$468 = 4^4 + 4^4 - 44$.
$469 = 4^4 + 4^4 - 44 + 4/4$.
$470 = 444 + 4 + 4 \times 44/(4 + 4)$.
$471 = 444 + 4 \times 4 + 44/4$.
$472 = 4^4 + 4^4 + 4 - 44$.
$473 = 44 \times (44 - 4/4)/4$.
$474 = (44 \times (44 - 4/4) + 4)/4$.
$475 = 444 + 4 \times (4 + 4) - 4/4$.
$476 = 444 + 4 \times (4 + 4)$.
$477 = 4 + 44 \times (44 - 4/4)/4$.
$478 = 4^4 + 4 \times 444/(4 + 4)$.
$479 = (44 \times 44 - 4)/4 - 4$.
$480 = (4 + 4) \times (4 \times 4 + 44)$.
$481 = (44 \times 44 + 4)/4 - 4$.
$482 = (44 \times 44 - 4 - 4)/4$.
$483 = (44 \times 44 - 4)/4$.
$484 = 44 \times 44/4$.
$485 = (44 \times 44 + 4)/4$.
$486 = (44 \times 44 + 4 + 4)/4$.
$487 = 4 + (44 \times 44 - 4)/4$.
$488 = 44 + 444$.
$489 = 4 + (44 \times 44 + 4)/4$.
$490 = 4 + (44 \times 44 + 4 + 4)/4$.
$491 = 4 + 4 + (44 \times 44 - 4)/4$.
$492 = 444 + 44 + 4$.
$493 = 4 + 4 + (44 \times 44 + 4)/4$.
$494 = (44 \times 44 + 44 - 4)/4$.
$495 = 44 \times (44 + 4/4)/4$.
$496 = 4^4 + 4^4 - 4 \times 4$.
$497 = 4^4 + 4^4 - 4 \times 4 + 4/4$.
$498 = 4^4 + 44 \times 44/(4 + 4)$.
$499 = 4 + 44 \times (44 + 4/4)/4$.
$500 = 4^4 + 4^4 - 4 \times 4 + 4$.
$501 = 4^4 + 4^4 - 44/4$.
$502 = 4^4 + 4^4 - (44 - 4)/4$.
$503 = ((4 + 4) \times (4^4 - 4) - 4)/4$.
$504 = 4^4 + 4^4 - 4 - 4$.
$505 = ((4 + 4) \times (4^4 - 4) + 4)/4$.
$506 = 4^4 + 4^4 - 4 - (4 + 4)/4$.
$507 = 4^4 + 4^4 - 4 - 4/4$.
$508 = 4^4 + 4^4 - 4$.
$509 = 4^4 + 4^4 - 4 + 4/4$.
$510 = 4^4 + 4^4 - (4 + 4)/4$.
$511 = 4^4 + 4^4 - 4/4$.
$512 = 4^4 + 4^4$.
$513 = 4^4 + 4^4 + 4/4$.
$514 = 4^4 + 4^4 + (4 + 4)/4$.
$515 = 4^4 + 4^4 + 4 - 4/4$.
$516 = 4^4 + 4^4 + 4$.
$517 = 4^4 + 4^4 + 4 + 4/4$.
$518 = 4^4 + 4^4 + 4 + (4 + 4)/4$.
$519 = ((4 + 4) \times (4^4 + 4) - 4)/4$.
$520 = 4^4 + 4^4 + 4 + 4$.
$521 = ((4 + 4) \times (4^4 + 4) + 4)/4$.
$522 = 4^4 + 4^4 + (44 - 4)/4$.
$523 = 4^4 + 4^4 + 44/4$.
$524 = 44 \times (4 + 4 + 4) - 4$.
$525 = 444 + (4 - 4/4)^4$.
$526 = 44 \times (4 + 4 + 4) - (4 + 4)/4$.
$527 = 44 \times (4 + 4 + 4) - 4/4$.
$528 = 44 \times (4 + 4 + 4)$.
$529 = 44 \times (4 + 4 + 4) + 4/4$.
$530 = 44 \times (4 + 4 + 4) + (4 + 4)/4$.
$531 = 44 \times (4 + 4 + 4) + 4 - 4/4$.
$532 = 44 \times (4 + 4 + 4) + 4$.
$533 = 44 \times (4 + 4 + 4) + 4 + 4/4$.
$534 = (4 + 4) \times (4^4 + 44/4)/4$.
$535 = (4 + 4/4) \times (444/4 - 4)$.
$536 = 44 \times (4 + 4 + 4) + 4 + 4$.
$537 = (4 + 4/4)^4 - 44 - 44$.
$538 = (4 + 4) \times (4^4 + 44/4)/4 + 4$.
$539 = 44 \times (4 + 4 + 4) + 44/4$.
$540 = (4 - 4/4) \times (4 \times 44 + 4)$.
$541 = (4 + 4/4)^4 + 4 - 44 - 44$.
$542 = (4 + 4) \times (4^4 + 4 + 44/4)/4$.
$543 = (4+4) \times (4 \times (4 \times 4) + 4) - 4/4$.
$544 = (4 + 4) \times (4 \times (4 \times 4) + 4)$.
$545 = (4+4) \times (4 \times (4 \times 4) + 4) + 4/4$.
$546 = (44 \times 44 + 4^4 - 4 - 4)/4$.
$547 = (44 \times 44 + 4^4 - 4)/4$.
$548 = (44 \times 44 + 4^4)/4$.
$549 = (44 \times 44 + 4^4 + 4)/4$.
$550 = (4 + 4/4) \times (444 - 4)/4$.
$551 = 444 - 4 + 444/4$.
$552 = 4^4 + 4^4 + 44 - 4$.
$553 = 444 + (444 - 4 - 4)/4$.
$554 = 444 + (444 - 4)/4$.
$555 = 444 + 444/4$.
$556 = 4^4 + 4^4 + 44$.
$557 = 4^4 + 4^4 + 44 + 4/4$.
$558 = 444 + 4 + (444 - 4)/4$.
$559 = 444 + 4 + 444/4$.
$560 = 4^4 + 4^4 + 44 + 4$.
$561 = (4 + 4/4)^4 - 4 \times 4 \times 4$.
$562 = (4 + 4/4)^4 - (4^4 - 4)/4$.
$563 = (4^4 \times 44 - 4)/(4 \times 4 + 4)$.
$564 = 4 \times (4^4 - 4) - 444$.
$565 = (4 + 4/4)^4 + 4 - 4 \times 4 \times 4$.

$566 = (4 + 4/4)^4 + 4 - (4^4 - 4)/4.$
$567 = (4 + 4 + 4/4) \times (4^4 - 4)/4.$
$568 = 4 \times (4^4 - 4) + 4 - 444.$
$569 = (4 + 4/4)^4 + 4 + 4 - 4 \times 4 \times 4.$
$570 = 444 + 4 \times (4^4 - 4)/(4 + 4).$
$571 = (44 \times (44 + 4 + 4) - 4)/4.$
$572 = 44 \times (4 + 4 + 4) + 44.$
$573 = (4 + 4/4)^4 - 44 - 4 - 4.$
$574 = 4^4 + 4^4 + (4^4 - 4 - 4)/4.$
$575 = 4^4 + 4^4 + (4^4 - 4)/4.$
$576 = 4 \times 4 \times (4 \times (4 + 4) + 4).$
$577 = (4 + 4/4)^4 - 44 - 4.$
$578 = (4 + 4/4)^4 - 44 - 4 + 4/4.$
$579 = 4 \times 4^4 - 444 - 4/4.$
$580 = 4 \times 4^4 - 444.$
$581 = (4 + 4/4)^4 - 44.$
$582 = (4 + 4/4)^4 - 44 + 4/4.$
$583 = 44 \times (4^4 - 44)/(4 \times 4).$
$584 = 4 \times 4^4 - 444 + 4.$
$585 = (4 + 4/4)^4 - 44 + 4.$
$586 = (4 + 4/4)^4 - 44 + 4 + 4/4.$
$587 = 44 \times (4^4 - 44)/(4 \times 4) + 4.$
$588 = 4 \times 4^4 - 444 + 4 + 4.$
$589 = (4 + 4/4)^4 - 44 + 4 + 4.$
$590 = (44 - 4) \times ((4^4 - 4)/4 - 4)/4.$
$591 = 4 \times 4^4 - 444 + 44/4.$
$592 = 4 \times (4 \times (4 \times (4 + 4) + 4) + 4).$
$593 = (4 + 4/4)^4 - 4 \times (4 + 4).$
$594 = (4 + 4/4)^4 - 4 \times (4 + 4) + 4/4.$
$595 = (44 \times 44 + 444)/4.$
$596 = 4 \times (4^4 + 4) - 444.$
$597 = (4 + 4/4)^4 + 4 - 4 \times (4 + 4).$
$598 = (4 + 4) \times (44 + 4^4 - 4/4)/4.$
$599 = ((4 + 4) \times (44 + 4^4) - 4)/4.$
$600 = (4 + 4) \times (44 + 4^4)/4.$
$601 = (4 + 4/4)^4 - 4 \times 4 - 4 - 4.$
$602 = (4 + 4) \times (44 + 4^4 + 4/4)/4.$
$603 = 4 + ((4 + 4) \times (44 + 4^4) - 4)/4.$
$604 = 4^4 + (4 + 4) \times 44 - 4.$
$605 = (4 + 4/4)^4 - 4 \times 4 - 4.$
$606 = (4 + 4/4)^4 - 4 \times 4 - 4 + 4/4.$
$607 = 4^4 + (4 + 4) \times 44 - 4/4.$
$608 = 4^4 + (4 + 4) \times 44.$
$609 = (4 + 4/4)^4 - 4 \times 4.$
$610 = (4 + 4/4)^4 - 4 \times 4 + 4/4.$
$611 = (4 + 4) \times 44 + 4^4 + 4 - 4/4.$
$612 = (4 + 4) \times 44 + 4^4 + 4.$
$613 = (4 + 4/4)^4 + 4 - 4 \times 4.$
$614 = (4 + 4/4)^4 - 44/4.$
$615 = (4 + 4/4)^4 - (44 - 4)/4.$
$616 = (4 + 4) \times ((4 - 4/4)^4 - 4).$
$617 = (4 + 4/4)^4 - 4 - 4.$
$618 = (4 + 4/4)^4 + 4 - 44/4.$
$619 = 444 + 4 \times 44 - 4/4.$
$620 = 444 + 4 \times 44.$
$621 = (4 + 4/4)^4 - 4.$
$622 = (4 + 4/4)^4 - 4 + 4/4.$
$623 = (4 + 4/4)^4 - (4 + 4)/4.$
$624 = 4 \times (4 \times (44 - 4) - 4).$
$625 = (4 + 4/4)^4.$
$626 = (4 + 4/4)^4 + 4/4.$
$627 = (4 + 4/4)^4 + (4 + 4)/4.$
$628 = 4 \times (4 \times (44 - 4) - 4) + 4.$
$629 = (4 + 4/4)^4 + 4.$
$630 = (4 + 4/4)^4 + 4 + 4/4.$
$631 = (4 + 4/4)^4 + 4 + (4 + 4)/4.$
$632 = 4 \times 4 \times (44 - 4) - 4 - 4.$
$633 = (4 + 4/4)^4 + 4 + 4.$
$634 = (4 + 4/4)^4 + 4 + 4 + 4/4.$
$635 = (4 + 4/4)^4 + (44 - 4)/4.$
$636 = 4 \times 4 \times (44 - 4) - 4.$
$637 = (4 + 4/4)^4 + 4 + 4 + 4.$
$638 = 4 \times 4 \times (44 - 4) - (4 + 4)/4.$
$639 = 4 \times 4 \times (44 - 4) - 4/4.$
$640 = 4 \times 4 \times (44 - 4).$
$641 = 4 \times 4 + (4 + 4/4)^4.$
$642 = 4 \times 4 + (4 + 4/4)^4 + 4/4.$
$643 = 4 \times 4 \times (44 - 4) + 4 - 4/4.$
$644 = 4 \times 4 \times (44 - 4) + 4.$
$645 = 4 \times 4 + (4 + 4/4)^4 + 4.$
$646 = 4 \times 4 + (4 + 4/4)^4 + 4 + 4/4.$
$647 = (4 + 4) \times (4 - 4/4)^4 - 4/4.$
$648 = (4 + 4) \times (4 - 4/4)^4.$
$649 = 4 \times 4 + (4 + 4/4)^4 + 4 + 4.$
$650 = (44 - 4) \times (4^4 + 4)/(4 \times 4).$
$651 = 4 \times 4 \times (44 - 4) + 44/4.$
$652 = (4 + 4) \times (4 - 4/4)^4 + 4.$
$653 = (4 + 4/4)^4 + 44 - 4 \times 4.$
$654 = (44 - 4) \times (4^4 + 4)/(4 \times 4) + 4.$
$655 = 4 \times (4 \times (44 - 4) + 4) - 4/4.$
$656 = 4 \times (4 \times (44 - 4) + 4).$
$657 = 4 \times (4 + 4) + (4 + 4/4)^4.$
$658 = (4 + 4/4)^4 + 44 - 44/4.$
$659 = 4 \times 4 \times 44 - 44 - 4/4.$
$660 = 4 \times 4 \times 44 - 44.$
$661 = 4 \times (4 + 4) + 4 + (4 + 4/4)^4.$
$662 = 44 \times (4 + 44/4) + (4 + 4)/4.$
$663 = 4 \times 4 \times 44 + 4 - 44 - 4/4.$
$664 = 44 \times (4 + 44/4) + 4.$
$665 = (4 + 4/4)^4 + 44 - 4.$
$666 = 444 \times (4 + (4 + 4)/4)/4.$
$667 = 4444/4 - 444.$
$668 = 4 \times (4 \times 44 - 4 - 4) - 4.$
$669 = 44 + (4 + 4/4)^4.$
$670 = 44 + (4 + 4/4)^4 + 4/4.$
$671 = 4 \times (4 \times 44 - 4 - 4) - 4/4.$
$672 = 4 \times (4 \times 44 - 4 - 4).$
$673 = 44 + 4 + (4 + 4/4)^4.$
$674 = 44 + 4 + (4 + 4/4)^4 + 4/4.$
$675 = (4 + 44/4) \times (44 + 4/4).$
$676 = 4 + 4 \times (4 \times 44 - 4 - 4).$
$677 = 4 + 4 \times (4 \times 44 - 4 - 4) + 4/4.$
$678 = 4 \times (4 \times 44 - 4) - (44 - 4)/4.$
$679 = (4 + 44/4) \times (44 + 4/4) + 4.$
$680 = (4 + 4) \times ((4 - 4/4)^4 + 4).$
$681 = (4 + 4/4)^4 + 44 + 4 + 4 + 4.$
$682 = 44 \times (4^4 - 4 - 4)/(4 \times 4).$
$683 = 4 \times (4 \times 44 - 4) - 4 - 4/4.$
$684 = 4 \times (4 \times 44 - 4) - 4.$
$685 = 4 \times 4 + 44 + (4 + 4/4)^4.$
$686 = 4 \times (4 \times 44 - 4) - (4 + 4)/4.$
$687 = 4 \times (4 \times 44 - 4) - 4/4.$
$688 = 4 \times (4 \times 44 - 4).$
$689 = 4 \times (4 \times 44 - 4) + 4/4.$
$690 = 4 \times (4 \times 44 - 4) + (4 + 4)/4.$
$691 = 4 \times (4 \times 44 - 4) + 4 - 4/4.$
$692 = 4 \times (4 \times 44 - 4) + 4.$
$693 = 44 \times (4^4 - 4)/(4 \times 4).$
$694 = 4 \times 4 \times 44 - (44 - 4)/4.$
$695 = 4^4 + 444 - 4 - 4/4.$
$696 = 4^4 + 444 - 4.$
$697 = 4^4 + 444 - 4 + 4/4.$
$698 = 4^4 + 444 - (4 + 4)/4.$
$699 = 4^4 + 444 - 4/4.$
$700 = 4^4 + 444.$
$701 = 444 + 4^4 + 4/4.$
$702 = 4 \times 4 \times 44 - (4 + 4)/4.$
$703 = 4 \times 4 \times 44 - 4/4.$
$704 = 4 \times 4 \times 44.$
$705 = 4 \times 4 \times 44 + 4/4.$
$706 = 4 \times 4 \times 44 + (4 + 4)/4.$
$707 = 4 \times 4 \times 44 + 4 - 4/4.$
$708 = 4 \times 4 \times 44 + 4.$
$709 = 4 \times 4 \times 44 + 4 + 4/4.$
$710 = 4 \times 4 \times 44 + 4 + (4 + 4)/4.$
$711 = 4 \times 4 \times 44 + 4 + 4 - 4/4.$
$712 = 4 \times 4 \times 44 + 4 + 4.$
$713 = 4 \times 4 \times 44 + 4 + 4 + 4/4.$
$714 = 4 \times 4 \times 44 + (44 - 4)/4.$
$715 = 4 \times 4 \times 44 + 44/4.$
$716 = 4 \times (4 \times 44 + 4) - 4.$
$717 = 4 \times (4 \times 44 + 4) - 4 + 4/4.$
$718 = 4 \times (4 \times 44 + 4) - (4 + 4)/4.$
$719 = 4 \times (4 \times 44 + 4) - 4/4.$
$720 = 4 \times (4 \times 44 + 4).$
$721 = 4 \times (4 \times 44 + 4) + 4/4.$
$722 = 4 \times (4 \times 44 + 4) + (4 + 4)/4.$
$723 = 4 \times (4 \times 44 + 4) + 4 - 4/4.$
$724 = 4 \times (4 \times 44 + 4) + 4.$
$725 = 4 \times (4 \times 44 + 4) + 4 + 4/4.$
$726 = 44 \times (4^4 + 4 + 4)/(4 \times 4).$
$727 = 4 \times (4 \times 44 + 4) + 4 + 4 - 4/4.$
$728 = 4 \times (4 \times 44 + 4) + 4 + 4.$
$729 = (4 - 4/4)^{(4+(4+4)/4)}.$
$730 = 44 \times (4^4 + 4 + 4)/(4 \times 4) + 4.$
$731 = 4 \times (4 \times 44 + 4) + 44/4.$
$732 = 44 + 4 \times (4 \times 44 - 4).$
$733 = (4 - 4/4)^{(4+(4+4)/4)} + 4.$
$734 = (4 + 4) \times (4^4 + 444/4)/4.$
$735 = (4 - 4/4) \times (4^4 - 44/4).$
$736 = 4 \times (4 \times 44 + 4 + 4).$
$737 = 4 \times (4 \times 44 + 4 + 4) + 4/4.$
$738 = 4^4 + (44 \times 44 - 4 - 4)/4.$
$739 = 4^4 + (44 \times 44 - 4)/4.$
$740 = 4 \times (4 \times 44 + 4 + 4) + 4.$
$741 = 4^4 + (44 \times 44 + 4)/4.$
$742 = 4^4 + (44 \times 44 + 4 + 4)/4.$
$743 = 4^4 + 4 + (44 \times 44 - 4)/4.$
$744 = 44 + 444 + 4^4.$
$745 = 4^4 + 4 + (44 \times 44 + 4)/4.$
$746 = 44 + 4 \times 4 \times 44 - (4 + 4)/4.$
$747 = 44 + 4 \times 4 \times 44 - 4/4.$
$748 = 44 + 4 \times 4 \times 44.$
$749 = 44 + 4 \times 4 \times 44 + 4/4.$
$750 = 44 + 4 \times 4 \times 44 + (4 + 4)/4.$
$751 = 4 \times (444 - 4^4) - 4/4.$
$752 = 4 \times (444 - 4^4).$
$753 = 4 \times (444 - 4^4) + 4/4.$
$754 = 4 \times (444 - 4^4) + (4 + 4)/4.$
$755 = (4 - 4/4) \times (4^4 - 4) - 4/4.$
$756 = (4 - 4/4) \times (4^4 - 4).$
$757 = (4 - 4/4) \times (4^4 - 4) + 4/4.$
$758 = (4 - 4/4) \times (4^4 - 4) + (4 + 4)/4.$
$759 = (4 - 4/4) \times (4^4 - 4 + 4/4).$
$760 = (4 - 4/4) \times (4^4 - 4) + 4.$
$761 = (4 - 4/4) \times (4^4 - 4/4) - 4.$
$762 = (4 - 4/4) \times (4^4 - (4 + 4)/4).$
$763 = 4 \times 4^4 - 4^4 - 4 - 4/4.$

$764 = 4 \times 4^4 - 4^4 - 4.$
$765 = (4 - 4/4) \times (4^4 - 4/4).$
$766 = 4 \times 4^4 - 4^4 - (4 + 4)/4.$
$767 = 4 \times 4^4 - 4^4 - 4/4.$
$768 = 4 \times 4 \times (44 + 4).$
$769 = 4 \times 4 \times (44 + 4) + 4/4.$
$770 = 4 \times 4 \times (44 + 4) + (4 + 4)/4.$
$771 = (4 - 4/4) \times (4^4 + 4/4).$
$772 = 4 \times 4 \times (44 + 4) + 4.$
$773 = 4 \times 4 \times (44 + 4) + 4 + 4/4.$
$774 = (4 - 4/4) \times (4^4 + (4 + 4)/4).$
$775 = 4 + ((4 - 4/4) \times (4/4 + (4^4))).$
$776 = 4 \times 4 \times (44 + 4) + 4 + 4.$
$777 = (4 - 4/4) \times (((4^4) - 4/4) + 4).$
$778 = (4-4/4) \times (4^4 + (4+4)/4) + 4.$
$779 = 44/4 + 4 \times 4 \times (44 + 4).$
$780 = (4 - 4/4) \times (4^4 + 4).$
$781 = (4 - 4/4) \times (4^4 + 4) + 4/4.$
$782 = (4-4/4) \times (4^4 + 4) + (4+4)/4.$
$783 = (4 - 4/4) \times (4^4 + 4 + 4/4).$
$784 = 4 \times (4 \times (44 + 4) + 4).$
$785 = 4 \times (4 \times (44 + 4) + 4) + 4/4.$
$786 = 4 \times (4 \times (44+4)+4) + (4+4)/4.$
$787 = (4 - 4/4) \times (4^4 + 4 + 4/4) + 4.$
$788 = 4 \times (4 \times (44 + 4) + 4) + 4.$
$789 = 4 \times (4 \times (44+4)+4) + 4 + 4/4.$
$790 = (4-4/4) \times (4^4+4) + (44-4)/4.$
$791 = (4 - 4/4) \times (4^4 + 4) + 44/4.$
$792 = 44 \times (4 \times 4 + (4 + 4)/4).$
$793 = 44 \times (4 \times 4 + (4 + 4)/4) + 4/4.$
$794 = 444 + (4 + 4) \times 44 - (4 + 4)/4.$
$795 = 444 + (4 + 4) \times 44 - 4/4.$
$796 = 444 + (4 + 4) \times 44.$
$797 = 4 \times 44 - 4 + (4 + 4/4)^4.$
$798 = (4 - 4/4) \times (4^4 + (44 - 4)/4).$
$799 = (4 \times 4 + 4) \times (44 - 4) - 4/4.$
$800 = (4 \times 4 + 4) \times (44 - 4).$
$801 = 4 \times 44 + (4 + 4/4)^4.$
$802 = 4 \times 44 + (4 + 4/4)^4 + 4/4.$
$803 = (4 \times 4 + 4) \times (44 - 4) + 4 - 4/4.$
$804 = (4 \times 4 + 4) \times (44 - 4) + 4.$
$805 = 4 \times 44 + 4 + (4 + 4/4)^4.$
$806 = (44 - 4) \times (4 - 4/4)^4/4 - 4.$
$807 = (4 \times 4 + 4) \times (44 - 4) + 4 + 4 - 4/4.$
$808 = (4 \times 4 + 4) \times (44 - 4) + 4 + 4.$
$809 = 4 \times 44 + 4 + 4 + (4 + 4/4)^4.$
$810 = (44 - 4) \times (4 - 4/4)^4/4.$
$811 = 4 \times 4^4 + 44 - 4^4 - 4/4.$
$812 = 4 \times 4 \times (44 + 4) + 44.$
$813 = 4 \times 4 \times (44 + 4) + 44 + 4/4.$
$814 = (44 - 4) \times (4 - 4/4)^4/4 + 4.$
$815 = 4 \times 4 \times 44 + 444/4.$
$816 = 4 \times (4 \times (44 - 4) + 44).$
$817 = 4 \times (44 + 4) + (4 + 4/4)^4.$
$818 = (44 - 4) \times (4 - 4/4)^4/4 + 4 + 4.$
$819 = ((4 + 4)^4 - 4/4)/(4 + 4/4).$
$820 = ((4 + 4)^4 + 4)/(4 + 4/4).$
$821 = 4 \times (44 + 4) + (4 + 4/4)^4 + 4.$
$822 = (44 \times (44 + 4^4)/4 + 4)/4 - 4.$
$823 = ((4 + 4)^4 - 4/4)/(4 + 4/4) + 4.$
$824 = ((4 + 4)^4 + 4)/(4 + 4/4) + 4.$
$825 = 44 \times (44 + 4^4)/(4 \times 4).$
$826 = (44 \times (44 + 4^4)/4 + 4)/4.$
$827 = 4 \times 4 \times (44 + 4 + 4) - 4 - 4/4.$
$828 = 4 \times 4 \times (44 + 4 + 4) - 4.$
$829 = 44 \times (44 + 4^4)/(4 \times 4) + 4.$
$830 = 4 \times 4 \times (44 + 4 + 4) - (4 + 4)/4.$
$831 = 4 \times 4 \times (44 + 4 + 4) - 4/4.$
$832 = 4 \times 4 \times (44 + 4 + 4).$
$833 = 4 \times 4 \times (44 + 4 + 4) + 4/4.$
$834 = 4 \times 4 \times (44 + 4 + 4) + (4 + 4)/4.$
$835 = 4 \times 4 \times (44 + 4 + 4) + 4 - 4/4.$
$836 = 4 \times 4 \times (44 + 4 + 4) + 4.$
$837 = 4^4 - 44 + (4 + 4/4)^4.$
$838 = 4 \times (4^4 - 44) - (44 - 4)/4.$
$839 = 4444/4 - 4 \times 4 - 4^4.$
$840 = 4 \times (4^4 - 44) - 4 - 4.$
$841 = 4^4 - 44 + 4 + (4/4 + 4)^4.$
$842 = 4 \times (4^4 - 44) - 4 - (4 + 4)/4.$
$843 = 4 \times (4^4 - 44) - 4 - 4/4.$
$844 = 4 \times (4^4 - 44) - 4.$
$845 = 4 \times (4^4 - 44) - 4 + 4/4.$
$846 = 4 \times (4^4 - 44) - (4 + 4)/4.$
$847 = 4 \times (4^4 - 44) - 4/4.$
$848 = 4 \times (4^4 - 44).$
$849 = 4 \times (4^4 - 44) + 4/4.$
$850 = 4 \times (4^4 - 44) + (4 + 4)/4.$
$851 = 4 \times (4^4 - 44) + 4 - 4/4.$
$852 = 4 \times (4^4 - 44) + 4.$
$853 = 4 \times (4^4 - 44) + 4 + 4/4.$
$854 = (4444 - 4)/4 - 4^4.$
$855 = 4444/4 - 4^4.$
$856 = 4 \times (4^4 - 44) + 4 + 4.$
$857 = 4 \times (4^4 - 44) + 4 + 4 + 4/4.$
$858 = (4444 - 4)/4 - 4^4 + 4.$
$859 = 4444/4 - 4^4 + 4.$
$860 = (4 + 4/4) \times (4 \times 44 - 4).$
$861 = (4 + 4/4) \times (4 \times 44 - 4) + 4/4.$
$862 = 4 \times (4^4 - 44 + 4) - (4 + 4)/4.$
$863 = 4 \times (4^4 - 44 + 4) - 4/4.$
$864 = 4 \times (4^4 - 44 + 4).$
$865 = 4 \times (4^4 - 44 + 4) + 4/4.$
$866 = 4 \times (4^4 - 44 + 4) + (4 + 4)/4.$
$867 = 4 \times (4^4 - 44 + 4) + 4 - 4/4.$
$868 = 4 \times (4^4 - 44 + 4) + 4.$
$869 = 44 \times (4 \times 4 + 4) - 44/4.$
$870 = 4^4 + (4 + 4/4)^4 - 44/4.$
$871 = 4 \times 4 - 4^4 + 4444/4.$
$872 = 44 \times (4 \times 4 + 4) - 4 - 4.$
$873 = 4^4 + (4 + 4/4)^4 - 4 - 4.$
$874 = 44 \times (4 \times 4 + 4) - 4 - (4 + 4)/4.$
$875 = 4 \times 44 \times (4 + 4/4) - 4/4.$
$876 = 44 \times (4 \times 4 + 4) - 4.$
$877 = 4^4 + (4 + 4/4)^4 - 4.$
$878 = 44 \times (4 \times 4 + 4) - (4 + 4)/4.$
$879 = 44 \times (4 \times 4 + 4) - 4/4.$
$880 = 44 \times (4 \times 4 + 4).$
$881 = 4^4 + (4 + 4/4)^4.$
$882 = 4^4 + (4 + 4/4)^4 + 4/4.$
$883 = 44 \times (4 \times 4 + 4) + 4 - 4/4.$
$884 = 44 \times (4 \times 4 + 4) + 4.$
$885 = (4 + 4/4)^4 + 4^4 + 4.$
$886 = (4 + 4)/4 \times (444 - 4/4).$
$887 = ((4 + 4) \times 444 - 4)/4.$
$888 = (4 + 4) \times 444/4.$
$889 = ((4 + 4) \times 444 + 4)/4.$
$890 = (4 + 4) \times (444 + 4/4)/4.$
$891 = 44 \times (4 - 4/4)^4/4.$
$892 = 444 + 444 + 4.$
$893 = ((4 + 4) \times 444 + 4)/4 + 4.$
$894 = (4 + 4) \times (444 + 4/4)/4 + 4.$
$895 = 44 \times (4 - 4/4)^4/4 + 4.$
$896 = 4 \times (4^4 - 4 \times (4 + 4)).$
$897 = 4 \times 4 + 4^4 + (4 + 4/4)^4.$
$898 = 4 \times (4^4 - 4 \times (4 + 4)) + (4 + 4)/4.$
$899 = ((4 + 4) \times 444 + 44)/4.$
$900 = 4 \times (4^4 - 4 \times (4 + 4)) + 4.$
$901 = 4 \times (4^4 - 4 \times (4 + 4)) + 4 + 4/4.$
$902 = 4 \times 4^4 - (444 + 44)/4.$
$903 = ((4 + 4) \times 444 + 44)/4 + 4.$
$904 = 4 \times (4^4 - 4 \times (4 + 4)) + 4 + 4.$
$905 = 4 \times 4 + ((4 + 4) \times 444 + 4)/4.$
$906 = 4 + 4 \times 4^4 - (444 + 44)/4.$
$907 = 4 \times 4 + 44 \times (4 - 4/4)^4/4.$
$908 = 44 + 4 \times (4^4 - 44 + 4).$
$909 = 4 \times 4^4 - 4 - 444/4.$
$910 = 4 \times 4^4 - 4 - (444 - 4)/4.$
$911 = 4 \times 4^4 - (444 + 4 + 4)/4.$
$912 = 4 \times (4^4 - 4 \times (4 + 4) + 4).$
$913 = 4 \times 4^4 - 444/4.$
$914 = 4 \times 4^4 - (444 - 4)/4.$
$915 = 4 \times 4^4 - (444 - 4 - 4)/4.$
$916 = 4 \times (4^4 - 4 \times 4) - 44.$
$917 = 4 \times 4^4 - 444/4 + 4.$
$918 = 4 \times 4^4 - (444 - 4)/4 + 4.$
$919 = 4444/4 - 4 \times (44 + 4).$
$920 = (4 + 4) \times (4 + 444/4).$
$921 = 4 \times 4^4 - 444/4 + 4 + 4.$
$922 = 4 \times 4^4 - (444 - 4)/4 + 4 + 4.$
$923 = 44 + 44 \times (4 \times 4 + 4) - 4/4.$
$924 = 44 + (44 \times ((4 \times 4) + 4)).$
$925 = 44 + 4^4 + (4 + 4/4)^4.$
$926 = 44 + 4^4 + (4 + 4/4)^4 + 4/4.$
$927 = 4 \times (4^4 - 4) - (4 - 4/4)^4.$
$928 = 4 \times (4^4 - 4 \times 4 - 4 - 4).$
$929 = 4 \times (4^4 + 4) - 444/4.$
$930 = 4 \times (4^4 + 4) - (444 - 4)/4.$
$931 = 4 \times (4^4 - 4) - (4 - 4/4)^4 + 4.$
$932 = 4 \times (4^4 - 4 \times 4 - 4 - 4) + 4.$
$933 = 4 \times (4^4 + 4) + 4 - 444/4.$
$934 = (4444 - 4)/4 - 4 \times 44.$
$935 = 44 \times ((4 - 4/4)^4 + 4)/4.$
$936 = 4 \times 4^4 - 44 - 44.$
$937 = 4 \times 4^4 - 44 - 44 + 4/4.$
$938 = (4^4 \times 44 - 4 - 4)/(4 + 4 + 4).$
$939 = 4 \times 4^4 - (4 - 4/4)^4 - 4.$
$940 = 4 \times (4^4 - 4 \times 4 - 4) - 4.$
$941 = 4 \times (4^4 - 4 \times 4 - 4) - 4 + 4/4.$
$942 = 4 \times 4^4 - (4 - 4/4)^4 - 4/4.$
$943 = 4 \times 4^4 - (4 - 4/4)^4.$
$944 = 4 \times (4^4 - 4 \times 4 - 4).$
$945 = 4 \times (4^4 - 4 \times 4 - 4) + 4/4.$
$946 = 44 \times (4 \times 44 - 4)/(4 + 4).$
$947 = 4 \times 4^4 - (4 - 4/4)^4 + 4.$
$948 = 4 \times (4^4 - 4 \times 4 - 4) + 4.$
$949 = 4 \times 4^4 - (44 + 4^4)/4.$
$950 = 44 \times (4 \times 44 - 4)/(4 + 4) + 4.$
$951 = 4 \times 4^4 + 4 + 4 - (4 - 4/4)^4.$
$952 = 4 \times (4^4 - 4 \times 4) - 4 - 4.$
$953 = 4 \times 4^4 + 4 - (44 + 4^4)/4.$
$954 = 4 \times 4^4 - (4^4 + 4 + 4)/4 - 4.$
$955 = 4 \times (4^4 - 4 \times 4) - 4 - 4/4.$
$956 = 4 \times (4^4 - 4 \times 4) - 4.$
$957 = 4 \times (4^4 - 4 \times 4) - 4 + 4/4.$
$958 = 4 \times 4^4 - (4^4 + 4 + 4)/4.$
$959 = 4 \times (4^4 - 4 \times 4) - 4/4.$
$960 = 4 \times (4^4 - 4 \times 4).$

$961 = 4 \times (4^4 - 4 \times 4) + 4/4.$
$962 = 4 \times (4^4 - 4 \times 4) + (4 + 4)/4.$
$963 = 4 \times 4^4 + 4 - (4^4 + 4)/4.$
$964 = 4 \times (4^4 - 4 \times 4) + 4.$
$965 = 4 \times (4^4 - 4 \times 4) + 4 + 4/4.$
$966 = 4 \times (44 \times 44 - 4)/(4 + 4).$
$967 = (44 \times (44 + 44) - 4)/4.$
$968 = 4 \times (4^4 - 4 \times 4) + 4 + 4.$
$969 = 4 \times 4^4 - 44 - 44/4.$
$970 = 4 \times (44 \times 44 + 4)/(4 + 4).$
$971 = 4 \times (4^4 - 4 \times 4) + 44/4.$
$972 = 4 \times (4 - 4/4)^{(4+4/4)}.$
$973 = 4 \times 4^4 - 44 + 4 - 44/4.$
$974 = 4 \times (44 \times 44 + 4)/(4 + 4) + 4.$
$975 = 4 \times 4^4 - 44 - 4 - 4/4.$
$976 = 4 \times (4^4 - 4 \times 4 + 4).$
$977 = 4 \times (4^4 - 4 \times 4 + 4) + 4/4.$
$978 = 4 \times 4^4 - 44 - (4 + 4)/4.$
$979 = 4 \times 4^4 - 44 - 4/4.$
$980 = 4 \times 4^4 - 44.$
$981 = 4 \times 4^4 - 44 + 4/4.$
$982 = 4 \times 4^4 - 44 + (4 + 4)/4.$
$983 = 4 \times 4^4 - 44 + 4 - 4/4.$
$984 = 4 \times 4^4 - 44 + 4.$
$985 = 4 \times 4^4 - 44 + 4 + 4/4.$
$986 = 4 \times 4^4 - 44 + 4 + (4 + 4)/4.$
$987 = 4 \times 4^4 - 44 + 4 + 4 - 4/4.$
$988 = 4 \times (4^4 - 4 - 4) - 4.$
$989 = 4 \times (4^4 - 4 - 4) - 4 + 4/4.$
$990 = 4 \times (4^4 - 4 - 4) - (4 + 4)/4.$
$991 = 4 \times (4^4 - 4 - 4) - 4/4.$
$992 = 4 \times (4^4 - 4 - 4).$
$993 = 4 \times (4^4 - 4 - 4) + 4/4.$
$994 = 4 \times (4^4 - 4 - 4) + (4 + 4)/4.$
$995 = 4 \times (4^4 - 4 - 4) + 4 - 4/4.$
$996 = 4 \times (4^4 - 4 - 4) + 4.$
$997 = 4 \times (4^4 - 4) - 44/4.$
$998 = 4 \times (4^4 - 4) - (44 - 4)/4.$
$999 = (4 + 4 + 4/4) \times 444/4.$
$1000 = 4 \times (4^4 - 4) - 4 - 4.$

8. Representations Using Number 5

$101 = 5 \times (5 \times 5 - 5) + 5/5.$
$102 = 5 \times (5 \times 5 - 5) + (5 + 5)/5.$
$103 = 5 \times (5 \times 5 - 5) + 5 - (5 + 5)/5.$
$104 = (5^5 - 5)/(5 \times 5 + 5).$
$105 = 5 \times (5 \times 5 - 5) + 5.$
$106 = 555/5 - 5.$
$107 = (555 + 5)/5 - 5.$
$108 = 55 + 55 - (5 + 5)/5.$
$109 = 55 + 55 - 5/5.$
$110 = 55 + 55.$
$111 = 555/5.$
$112 = (555 + 5)/5.$
$113 = (555 + 5 + 5)/5.$
$114 = 5 \times 5 \times 5 - 55/5.$
$115 = 55 + 55 + 5.$
$116 = 5 + 555/5.$
$117 = 5 + (555 + 5)/5.$
$118 = 5 + (555 + 5 + 5)/5.$
$119 = 5 \times 5 \times 5 - 5 - 5/5.$
$120 = 5 \times 5 \times 5 - 5.$
$121 = 5 + 5 + 555/5.$
$122 = (555 + 55)/5.$
$123 = 5 \times 5 \times 5 - (5 + 5)/5.$
$124 = 5 \times 5 \times 5 - 5/5.$
$125 = 5 \times 5 \times 5.$
$126 = 5 \times 5 \times 5 + 5/5.$
$127 = 5 \times 5 \times 5 + (5 + 5)/5.$
$128 = 5 \times 5 \times 5 + 5 - (5 + 5)/5.$
$129 = 5 \times 5 \times 5 + 5 - 5/5.$
$130 = 5 \times 5 \times 5 + 5.$
$131 = 5 \times 5 \times 5 + 5 + 5/5.$
$132 = 5 \times 5 \times 5 + 5 + (5 + 5)/5.$
$133 = 5 \times 5 \times 5 + 5 + 5 - (5 + 5)/5.$
$134 = 5 \times 5 \times 5 + 5 + 5 - 5/5.$
$135 = 5 \times 5 \times 5 + 5 + 5.$
$136 = 5 \times 5 + 555/5.$
$137 = 5 \times 5 + (555 + 5)/5.$
$138 = 5 \times (5 \times 55 + 5)/(5 + 5).$
$139 = 5 \times (5 \times 5 + 5) - 55/5.$
$140 = 5 \times 5 \times 5 + 5 + 5 + 5.$
$141 = 5 \times 5 + 5 + 555/5.$
$142 = 5 \times 5 + 5 + (555 + 5)/5.$
$143 = 5 + (5 \times 5 \times 55 + 5)/(5 + 5).$
$144 = (5 + 5/5) \times (5 \times 5 - 5/5).$
$145 = 5 \times (5 \times 5 + 5) - 5.$
$146 = 5 \times (5 \times 5 + 5) - 5 + 5/5.$
$147 = 5 \times 5 + (555 + 55)/5.$
$148 = 5 \times (5 \times 5 + 5) - (5 + 5)/5.$
$149 = 5 \times (5 \times 5 + 5) - 5/5.$
$150 = 5 \times (5 \times 5 + 5).$
$151 = 5 \times (5 \times 5 + 5) + 5/5.$
$152 = 5 \times (5 \times 5 + 5) + (5 + 5)/5.$
$153 = 5 \times (5 \times 5 + 5) + 5 - (5 + 5)/5.$
$154 = 5 \times (5 \times 5 + 5) + 5 - 5/5.$
$155 = 5 \times (5 \times 5 + 5) + 5.$
$156 = (5^5 - 5)/(5 \times 5 - 5).$
$157 = 5 \times 5 \times 5 + ((5 + 5)/5)^5.$
$158 = 5 \times ((5 + 5)/5)^5 - (5 + 5)/5.$
$159 = (55 + 5^5)/(5 \times 5 - 5).$
$160 = 5 \times ((5 + 5)/5)^5.$
$161 = 5 + (5^5 - 5)/(5 \times 5 - 5).$
$162 = 5 \times 5 \times 5 + 5 + ((5 + 5)/5)^5.$
$163 = 55 \times 5 - (555 + 5)/5.$
$164 = 55 \times 5 - 555/5.$
$165 = 5 + 5 \times ((5 + 5)/5)^5.$
$166 = 55 + 555/5.$
$167 = 55 + (555 + 5)/5.$
$168 = 55 + (555 + 5 + 5)/5.$
$169 = 55 \times 5 + 5 - 555/5.$
$170 = 5 \times (5 \times 5 + 5 + 5) - 5.$
$171 = 55 + 5 + 555/5.$
$172 = 55 + 5 + (555 + 5)/5.$
$173 = 5 \times (5 \times 5 + 5 + 5) - (5 + 5)/5.$
$174 = 5 \times (5 \times 5 + 5 + 5) - 5/5.$
$175 = 5 \times (5 \times 5 + 5 + 5).$
$176 = 5 \times (5 \times 5 + 5 + 5) + 5/5.$
$177 = 55 + (555 + 55)/5.$
$178 = 55 + 5 \times 5 \times 5 - (5 + 5)/5.$
$179 = 55 + 5 \times 5 \times 5 - 5/5.$
$180 = 55 + 5 \times 5 \times 5.$
$181 = 55 + 5 \times 5 \times 5 + 5 + 5/5.$
$182 = 55 + 5 \times 5 \times 5 + 5 + (5 + 5)/5.$
$183 = (5 - (5 + 5)/5)^5 - 55 - 5.$
$184 = 5 \times 5 \times 5 + 5 + 55 + 5 - 5/5.$
$185 = 5 \times 5 \times 5 + 5 + 55 + 5.$
$186 = 5 \times 5 \times 5 + 5 + 55 + 5 + 5/5.$
$187 = 55 \times (5 + (55 + 5)/5)/5.$
$188 = (5 - (5 + 5)/5)^5 - 55.$
$189 = 5 \times (55 + 5) - 555/5.$
$190 = 5 \times 5 \times 5 + 5 + 55 + 5 + 5.$
$191 = 5 \times 5 + 5 + 55 + 555/5.$
$192 = (5 + 5/5) \times ((5 + 5)/5)^5.$
$193 = (5 - (5 + 5)/5)^5 - 55 + 5.$
$194 = 5 \times 5 \times (5 + 5) - 55 - 5/5.$
$195 = 5 \times 5 \times (5 + 5) - 55.$
$196 = 5 \times 5 \times (5 + 5) - 55 + 5/5.$
$197 = 5 + (5 + 5/5) \times ((5 + 5)/5)^5.$
$198 = (5 + 5) \times (5 \times 5 - 5) - (5 + 5)/5.$
$199 = (5 + 5) \times (5 \times 5 - 5) - 5/5.$
$200 = (5 + 5) \times (5 \times 5 - 5).$
$201 = (5 + 5) \times (5 \times 5 - 5) + 5/5.$
$202 = (5 + 5) \times (5 \times 5 - 5) + (5 + 5)/5.$
$203 = (5^5 - 5)/(5 + 5 + 5) - 5.$
$204 = (5 + 5) \times (5 \times 5 - 5) + 5 - 5/5.$
$205 = (5 + 5) \times (5 \times 5 - 5) + 5.$
$206 = (5 + 5) \times (5 \times 5 - 5) + 5 + 5/5.$
$207 = (5^5 - 5 \times 5 + 5)/(5 + 5 + 5).$
$208 = (5^5 - 5)/(5 + 5 + 5).$
$209 = (5^5 + 5 + 5)/(5 + 5 + 5).$
$210 = (5 + 5) \times (5 \times 5 - 5) + 5 + 5.$
$211 = 55 + (5^5 - 5)/(5 \times 5 - 5).$
$212 = (55 + 5^5)/(5 + 5 + 5).$
$213 = (5^5 - 5)/(5 + 5 + 5) + 5.$
$214 = (5^5 + 5 + 5)/(5 + 5 + 5) + 5.$
$215 = 55 \times 5 - 55 - 5.$
$216 = (5 - 5/5) \times (55 - 5/5).$
$217 = (55 + 5^5)/(5 + 5 + 5) + 5.$
$218 = (5 - (5 + 5)/5)^5 - 5 \times 5.$
$219 = 55 \times 5 - 55 - 5/5.$
$220 = 55 \times (5 - 5/5).$
$221 = 55 \times (5 - 5/5) + 5/5.$
$222 = 555 \times (5 + 5)/(5 \times 5).$
$223 = (5 - (5 + 5)/5)^5 - 5 \times 5 + 5.$
$224 = (5 - 5/5) \times (55 + 5/5).$
$225 = 5 \times (55 - 5 - 5).$
$226 = 5 \times (55 - 5 - 5) + 5/5.$
$227 = (5 + 5) \times 555/(5 \times 5) + 5.$
$228 = (5 - 5/5) \times (55 + (5 + 5)/5).$
$229 = (5 - 5/5) \times (55 + 5/5) + 5.$
$230 = 5 \times (55 - 5 - 5) + 5.$
$231 = 5 \times (55 - 5 - 5) + 5 + 5/5.$
$232 = (5 + 5) \times (5 + 555/5)/5.$
$233 = (5 - (5 + 5)/5)^5 - 5 - 5.$
$234 = (5 + 5 - 5/5) \times (5 \times 5 + 5/5).$
$235 = 5 \times (55 - 5 - 5) + 5 + 5.$
$236 = 5 \times 5 \times 5 + 555/5.$
$237 = 5 \times 5 \times 5 + (555 + 5)/5.$
$238 = (5 - (5 + 5)/5)^5 - 5.$
$239 = 5 \times 5 \times (5 + 5) - 55/5.$
$240 = (5 + 5) \times (5 \times 5 - 5/5).$
$241 = 5 \times 5 \times 5 + 5 + 555/5.$
$242 = (5 - (5 + 5)/5)^5 - 5/5.$
$243 = (5 - (5 + 5)/5)^5.$
$244 = (5 - (5 + 5)/5)^5 + 5/5.$

$245 = 5 \times 5 \times (5+5) - 5.$
$246 = 5 \times 5 \times (5+5) - 5 + 5/5.$
$247 = 5 + (5 - (5+5)/5)^5 - 5/5.$
$248 = 5 + (5 - (5+5)/5)^5.$
$249 = 5 \times 5 \times (5+5) - 5/5.$
$250 = 5 \times 5 \times (5+5).$
$251 = 5 \times 5 \times (5+5) + 5/5.$
$252 = 5 \times 5 \times (5+5) + (5+5)/5.$
$253 = (5 - (5+5)/5)^5 + 5 + 5.$
$254 = 5 \times 5 \times (5+5) + 5 - 5/5.$
$255 = 5 \times 5 \times (5+5) + 5.$
$256 = (5 - 5/5)^{(5-5/5)}.$
$257 = (5^5 - 5)/(5+5) - 55.$
$258 = (5^5 + 5)/(5+5) - 55.$
$259 = 5 \times 55 - 5 - 55/5.$
$260 = 5 \times 5 \times (5+5) + 5 + 5.$
$261 = (5 - 5/5)^{(5-5/5)} + 5.$
$262 = (5^5 - 5)/(5+5) + 5 - 55.$
$263 = 5 \times 55 - (55+5)/5.$
$264 = 5 \times 55 - 55/5.$
$265 = 5 \times 55 - 5 - 5.$
$266 = 5 \times 55 - 5 - 5 + 5/5.$
$267 = 5 \times 55 - 5 - 5 + (5+5)/5.$
$268 = 5 \times 5 + (5 - (5+5)/5)^5.$
$269 = 5 \times 55 - 5 - 5/5.$
$270 = 5 \times 55 - 5.$
$271 = 5 \times 55 - 5 + 5/5.$
$272 = 5 \times 55 - 5 + (5+5)/5.$
$273 = 5 \times 55 - ((5+5)/5).$
$274 = 5 \times 55 - 5/5.$
$275 = 5 \times 55.$
$276 = 5 \times 55 + 5/5.$
$277 = 5 \times 55 + (5+5)/5.$
$278 = 5 \times 55 + 5 - (5+5)/5.$
$279 = 5 \times 55 + 5 - 5/5.$
$280 = 5 \times 55 + 5.$
$281 = 5 \times 55 + 5 + 5/5.$
$282 = 5 \times 55 + 5 + (5+5)/5.$
$283 = 5 \times 55 + 5 + 5 - (5+5)/5.$
$284 = 5 \times 55 + 5 + 5 - 5/5.$
$285 = 5 \times 55 + 5 + 5.$
$286 = 5 \times 55 + 55/5.$
$287 = 5 \times 55 + (55+5)/5.$
$288 = (5^5 + 5)/(5+5) - 5 \times 5.$
$289 = 5 \times (55+5) - 55/5.$
$290 = 5 \times 55 + 5 + 5 + 5.$
$291 = 5 \times 55 + 5 + 55/5.$
$292 = 5 \times 55 + 5 + (55+5)/5.$
$293 = (5^5 + 5)/(5+5) + 5 - 5 \times 5.$
$294 = 5 \times (55+5) - 5 - 5/5.$
$295 = 5 \times (55+5) - 5.$
$296 = 5 \times (55+5) - 5 + 5/5.$
$297 = 5 \times 55 + (55+55)/5.$
$298 = 55 + (5 - (5+5)/5)^5.$
$299 = 5 \times (55+5) - 5/5.$
$300 = 5 \times (55+5).$
$301 = 5 \times (55+5) + 5/5.$
$302 = 5 \times (55+5) + (5+5)/5.$
$303 = (5^5 + 5)/(5+5) - 5 - 5.$
$304 = 5 \times (55+5) + 5 - 5/5.$
$305 = 5 \times (55+5) + 5.$
$306 = 5 \times (55+5) + 5 + 5/5.$
$307 = (5^5 - 55)/(5+5).$
$308 = (5^5 + 5)/(5+5) - 5.$
$309 = 5 \times (55+5) + 5 + 5 - 5/5.$
$310 = 5 \times (55+5) + 5 + 5.$
$311 = 5 \times (55+5) + 55/5.$
$312 = (5^5 - 5)/(5+5).$
$313 = (5^5 + 5)/(5+5).$
$314 = (5^5 + 5)/(5+5) + 5/5.$
$315 = (5 \times 5 + 5^5)/(5+5).$
$316 = 5 \times (55+5) + 5 + 55/5.$
$317 = (5^5 - 5)/(5+5) + 5.$
$318 = (5^5 + 5)/(5+5) + 5.$
$319 = (5^5 + 5)/(5+5) + 5 + 5/5.$
$320 = (5+5) \times ((5+5)/5)^5.$
$321 = (5+5) \times ((5+5)/5)^5 + 5/5.$
$322 = (5^5 - 5)/(5+5) + 5 + 5.$
$323 = (5^5 + 5)/(5+5) + 5 + 5.$
$324 = (5+5/5) \times (55 - 5/5).$
$325 = 5 \times (55+5+5).$
$326 = 5 \times (55+5+5) + 5/5.$
$327 = 5 + 5 + 5 + (5^5 - 5)/(5+5).$
$328 = 5 + 5 + 5 + (5^5 + 5)/(5+5).$
$329 = 55 + 5 \times 55 - 5/5.$
$330 = 55 + 5 \times 55.$
$331 = 55 + 5 \times 55 + 5/5.$
$332 = 5 \times 5 + (5^5 - 55)/(5+5).$
$333 = 5 \times 5 - 5 + (5^5 + 5)/(5+5).$
$334 = 5 \times 55 + 55 + 5 - 5/5.$
$335 = 5 \times 55 + 55 + 5.$
$336 = (5+5/5) \times (55 + 5/5).$
$337 = 5 \times 5 + (5^5 - 5)/(5+5).$
$338 = 5 \times 5 + (5^5 + 5)/(5+5).$
$339 = (5^5 - 55)/5 - 5 \times 55.$
$340 = 5 \times 55 + 55 + 5 + 5.$
$341 = 5 + (5+5/5) \times (55 + 5/5).$
$342 = 5 \times 5 + 5 + (5^5 - 5)/(5+5).$
$343 = 5 \times 5 + 5 + (5^5 + 5)/(5+5).$
$344 = (5^5 - 5)/5 - 5 \times 55 - 5.$
$345 = 5^5 - 5 \times 555 - 5.$
$346 = (5^5 + 5)/5 - 5 \times 55 - 5.$
$347 = 55 \times ((5+5)/5)^5/5 - 5.$
$348 = (5^5 - 5 - 5)/5 - 5 \times 55.$
$349 = (5^5 - 5)/5 - 5 \times 55.$
$350 = 5 \times (55+5+5+5).$
$351 = (5^5 + 5)/5 - 5 \times 55.$
$352 = 55 \times ((5+5)/5)^5/5.$
$353 = (55 \times ((5+5)/5)^5 + 5)/5.$
$354 = (5^5 - 5)/5 + 5 - 5 \times 55.$
$355 = 55 + 5 \times (55+5).$
$356 = (5^5 + 5)/5 + 5 - 5 \times 55.$
$357 = 55 \times ((5+5)/5)^5/5 + 5.$
$358 = (55 \times ((5+5)/5)^5 + 5)/5 + 5.$
$359 = (5+5/5) \times (55+5) - 5/5.$
$360 = (5+5/5) \times (55+5).$
$361 = (5+5/5) \times (55+5) + 5/5.$
$362 = 55 + (5^5 - 55)/(5+5).$
$363 = 55 - 5 + (5^5 + 5)/(5+5).$
$364 = 5 \times 5 \times (5+5+5) - 55/5.$
$365 = (5+5/5) \times (55+5) + 5.$
$366 = (5+5/5) \times (55+5+5/5).$
$367 = 55 + (5^5 - 5)/(5+5).$
$368 = 55 + (5^5 + 5)/(5+5).$
$369 = 5 \times 5 \times (5+5+5) - 5 - 5/5.$
$370 = 5 \times 5 \times (5+5+5) - 5.$
$371 = 5 \times 5 \times (5+5+5) - 5 + 5/5.$
$372 = 55 + 5 + (5^5 - 5)/(5+5).$
$373 = 55 + 5 + (5^5 + 5)/(5+5).$
$374 = 5 \times 5 \times (5+5+5) - 5/5.$
$375 = 5 \times 5 \times (5+5+5).$
$376 = 5 \times 5 \times (5+5+5) + 5/5.$
$377 = 5 \times 5 \times (5+5+5) + (5+5)/5.$
$378 = (5 + (5+5)/5) \times (55 - 5/5).$
$379 = 5 \times 5 \times (5+5+5) + 5 - 5/5.$
$380 = 5 \times 5 \times (5+5+5) + 5.$
$381 = 5 \times 5 \times (5+5+5) + 5 + 5/5.$
$382 = 5^5/5 - (5 - (5+5)/5)^5.$
$383 = (5+(5+5)/5) \times (55-5/5) + 5.$
$384 = (55+5) \times ((5+5)/5)^5/5.$
$385 = 55 \times (5 + (5+5)/5).$
$386 = 5 \times 55 + 555/5.$
$387 = 5 \times 55 + (555+5)/5.$
$388 = 5 \times 55 + (555+5+5)/5.$
$389 = 5 \times (5 \times 5 + 55) - 55/5.$
$390 = 55 \times (5 + (5+5)/5) + 5.$
$391 = 5 \times 55 + 5 + 555/5.$
$392 = (5 + (5+5)/5) \times (55 + 5/5).$
$393 = 5 \times 5 + 55 + (5^5 + 5)/(5+5).$
$394 = (5 - 5/5)^5 - 5^5/5 - 5.$
$395 = 5 \times (5 \times 5 + 55) - 5.$
$396 = 5 \times (5 \times 5 + 55) - 5 + 5/5.$
$397 = (5+(5+5)/5) \times (55+5/5) + 5.$
$398 = (5 - 5/5)^5 - (5^5 + 5)/5.$
$399 = (5 - 5/5)^5 - 5^5/5.$
$400 = 5 \times (5 \times 5 + 55).$
$401 = 5 \times (5 \times 5 + 55) + 5/5.$
$402 = 5 \times (5 \times 5 + 55) + (5+5)/5.$
$403 = 5 + (5 - 5/5)^5 - (5^5 + 5)/5.$
$404 = 5 + (5 - 5/5)^5 - 5^5/5.$
$405 = 5 \times (5 \times 5 + 55) + 5.$
$406 = 5 \times (5 \times 5 + 55) + 5 + 5/5.$
$407 = 55 \times (((5+5)/5)^5 + 5)/5.$
$408 = (5 \times 5 - 5/5) \times (5 + (55+5)/5).$
$409 = 5 + 5 + (5 - 5/5)^5 - 5^5/5.$
$410 = 5 \times (5 \times 5 + 55) + 5 + 5.$
$411 = 5 \times (5 \times 5 + 55) + 55/5.$
$412 = 55 \times (5 + ((5+5)/5)^5)/5 + 5.$
$413 = 5 \times (5 \times 5 - 5) + (5^5 + 5)/(5+5).$
$414 = (5 - 5/5)^5 - 555 - 55.$
$415 = 5 \times (5 \times 5 + 55) + 5 + 5 + 5.$
$416 = (5 + 55/5) \times (5 \times 5 + 5/5).$
$417 = (5^5 + 5^5 + 5)/(5+5+5).$
$418 = 55 + 55 - 5 + (5^5 + 5)/(5+5).$
$419 = 555 - 5 \times 5 - 555/5.$
$420 = (55+5) \times (5 + (5+5)/5).$
$421 = 5 + (5 + 55/5) \times (5 \times 5 + 5/5).$
$422 = 5 + (5^5 + 5^5 + 5)/(5+5+5).$
$423 = 55 + 55 + (5^5 + 5)/(5+5).$
$424 = (5 - 5/5) \times (555/5 - 5).$
$425 = 5 \times (5 \times 5 + 55 + 5).$
$426 = 5 \times (5 \times 5 + 55 + 5) + 5/5.$
$427 = 5 \times (5 \times 5 + 55 + 5) + (5+5)/5.$
$428 = (5 - 5/5) \times ((555+5)/5 - 5).$
$429 = 555 - 5 \times 5 \times 5 - 5/5.$
$430 = 555 - 5 \times 5 \times 5.$
$431 = 555 - 5 \times 5 \times 5 + 5/5.$
$432 = 5 \times 5 \times 5 + (5^5 - 55)/(5+5).$
$433 = 5 \times 5 \times 5 - 5 + (5^5 + 5)/(5+5).$
$434 = 555 - 5 \times 5 \times 5 + 5 - 5/5.$
$435 = 555 - 5 \times 5 \times 5 + 5.$
$436 = 555 - 5 \times 5 \times 5 + 5 + 5/5.$
$437 = 5 \times 5 \times 5 + (5^5 - 5)/(5+5).$
$438 = 5 \times 5 \times 5 + (5^5 + 5)/(5+5).$
$439 = 555 - 5 - 555/5.$
$440 = (5+5) \times (55 - 55/5).$
$441 = (5 + 5 + 55/5)^{((5+5)/5)}.$
$442 = 5 \times 5 \times 5 + 5 + (5^5 - 5)/(5+5).$

$443 = 555 - (555 + 5)/5.$
$444 = (5 - 5/5) \times 555/5.$
$445 = 555 - 55 - 55.$
$446 = 5 + (55/5 + 5 + 5)^{((5+5)/5)}.$
$447 = (5^5 + 5 - 5/5)/(5 + (5 + 5)/5).$
$448 = (5 - 5/5) \times (555 + 5)/5.$
$449 = 5 + (5 - 5/5) \times 555/5.$
$450 = (5 + 5) \times (55 - 5 - 5).$
$451 = (5 + 5) \times (55 - 5 - 5) + 5/5.$
$452 = (5+5)\times(55-5-5)+(5+5)/5.$
$453 = 5 + (5 - 5/5) \times (555 + 5)/5.$
$454 = 5 + 5 + (5 - 5/5) \times 555/5.$
$455 = (5 + 5) \times (55 - 5 - 5) + 5.$
$456 = (5+5)\times(55-5-5)+5+5/5.$
$457 = ((5 + 5)/5)^{(5+5-5/5)} - 55.$
$458 = (5\times5\times5\times55-5)/(5+5+5).$
$459 = (5^5 - 555)/5 - 55.$
$460 = (5 + 5) \times (55 - 5 - 5) + 5 + 5.$
$461 = (5 + 5) \times (55 - 5 - 5) + 55/5.$
$462 = 55 \times (((5 + 5)/5)^5 + 5 + 5)/5.$
$463 = 5\times(5\times5+5)+(5^5+5)/(5+5).$
$464 = (5 - 5/5) \times (5 + 555/5).$
$465 = 5 \times (5 \times 5 \times 5 - ((5 + 5)/5)^5).$
$466 = (5^5 + 5)/5 - 5 \times ((5 + 5)/5)^5.$
$467 = 5 \times (5 \times 5 + 5) + 5 + (5^5 - 5)/(5 + 5).$
$468 = (5 - 5/5) \times (5 + (555 + 5)/5).$
$469 = (5 - 5/5)^5 - 555.$
$470 = 5 \times (5 \times (5 \times 5 - 5) - 5) - 5.$
$471 = 5\times(5\times(5\times5-5)-5)-5+5/5.$
$472 = 55 + (5^5 + 5^5 + 5)/(5 + 5 + 5).$
$473 = 55 \times (55 - (55 + 5)/5)/5.$
$474 = 5 + (5 - 5/5)^5 - 555.$
$475 = 5 \times (5 \times (5 \times 5 - 5) - 5).$
$476 = 5\times(5\times(5\times5-5)-5)+5/5.$
$477 = 5 \times (5 \times (5 \times 5 - 5) - 5) + (5 + 5)/5.$
$478 = 5 + 55 \times (55 - (55 + 5)/5)/5.$
$479 = (5 - 5/5)^5 + 5 + 5 - 555.$
$480 = 5 \times (5 \times (5 \times 5 - 5) - 5) + 5.$
$481 = (5555 - 5^5)/5 - 5.$
$482 = (5555 - 5^5 + 5)/5 - 5.$
$483 = 5 \times 55 + (5^5 - 5)/(5 + 5 + 5).$
$484 = 55 \times (55 - 55/5)/5.$
$485 = 5\times(5\times(5\times5-5)-5)+5+5.$
$486 = (5555 - 5^5)/5.$
$487 = (5555 + 5 - 5^5)/5.$
$488 = (5 - 5/5) \times (555 + 55)/5.$
$489 = 555 - 55 - 55/5.$
$490 = 555 - 55 - 5 - 5.$
$491 = 5 + (5555 - 5^5)/5.$
$492 = 5 + (5555 - 5^5 + 5)/5.$
$493 = 555 - 55 - 5 - (5 + 5)/5.$
$494 = 555 - 55 - 5 - 5/5.$
$495 = 555 - 55 - 5.$
$496 = 555 - 55 - 5 + 5/5.$
$497 = 555 - 55 - 5 + (5 + 5)/5.$
$498 = 555 - 55 - (5 + 5)/5.$
$499 = 555 - 55 - 5/5.$
$500 = 555 - 55.$
$501 = 5 \times 5 \times (5 \times 5 - 5) + 5/5.$
$502 = 555 - 55 + (5 + 5)/5.$
$503 = (5^5 - 555 - 55)/5.$
$504 = 555 - 55 + 5 - 5/5.$
$505 = 5 \times 5 \times (5 \times 5 - 5) + 5.$
$506 = 5 \times 5 \times (5 \times 5 - 5) + 5 + 5/5.$
$507 = ((5 + 5)/5)^{(5+5-5/5)} - 5.$
$508 = (5^5 - 555 - 5)/5 - 5.$
$509 = (5^5 - 555)/5 - 5.$
$510 = 5 \times 5 \times (5 \times 5 - 5) + 5 + 5.$
$511 = 555 - 55 + 55/5.$
$512 = ((5 + 5)/5)^{(5+5-5/5)}.$
$513 = (5^5 - 555 - 5)/5.$
$514 = (5^5 - 555)/5.$
$515 = 5^5/5 - 55 - 55.$
$516 = (5^5 + 5)/5 - 55 - 55.$
$517 = 5 + ((5 + 5)/5)^{(5+5-5/5)}.$
$518 = 5 + (5^5 - 555 - 5)/5.$
$519 = 5 + (5^5 - 555)/5.$
$520 = (5^5 - 5)/(5 + 5/5).$
$521 = (5^5 + 5/5)/(5 + 5/5).$
$522 = 5 + 5 + ((5 + 5)/5)^{(5+5-5/5)}.$
$523 = 555 - ((5 + 5)/5)^5.$
$524 = 5 + 5 + (5^5 - 555)/5.$
$525 = 5 \times (5 \times (5 \times 5 - 5) + 5).$
$526 = 5 + (5^5 + 5/5)/(5 + 5/5).$
$527 = 555 - 5 \times 5 - 5 + (5 + 5)/5.$
$528 = 555 + 5 - ((5 + 5)/5)^5.$
$529 = 555 - 5 \times 5 - 5/5.$
$530 = 555 - 5 \times 5.$
$531 = 555 - 5 \times 5 + 5/5.$
$532 = 555 - 5 \times 5 + (5 + 5)/5.$
$533 = 555 - (55 + 55)/5.$
$534 = 555 - 5 \times 5 + 5 - 5/5.$
$535 = 555 - 5 \times 5 + 5.$
$536 = 555 - 5 \times 5 + 5 + 5/5.$
$537 = 555 - 5 \times 5 + 5 + (5 + 5)/5.$
$538 = 555 - 5 - (55 + 5)/5.$
$539 = 555 - 5 - 55/5.$
$540 = (5 + 5) \times (55 - 5/5).$
$541 = (5 + 5) \times (55 - 5/5) + 5/5.$
$542 = 555 - ((55 + 5 + 5)/5).$
$543 = 555 - (55 + 5)/5.$
$544 = 555 - 55/5.$
$545 = 555 - 5 - 5.$
$546 = 555 - 5 - 5 + 5/5.$
$547 = 555 - 5 - 5 + (5 + 5)/5.$
$548 = 555 - 5 - (5 + 5)/5.$
$549 = 555 - 5 - 5/5.$
$550 = 555 - 5.$
$551 = 555 - 5 + 5/5.$
$552 = 555 - 5 + (5 + 5)/5.$
$553 = 555 - (5 + 5)/5.$
$554 = 555 - 5/5.$
$555 = 555.$
$556 = 555 + 5/5.$
$557 = 555 + (5 + 5)/5.$
$558 = 555 + 5 - (5 + 5)/5.$
$559 = 555 + 5 - 5/5.$
$560 = 555 + 5.$
$561 = 555 + 5 + 5/5.$
$562 = 555 + 5 + (5 + 5)/5.$
$563 = 555 + 5 + 5 - (5 + 5)/5.$
$564 = 555 + 5 + 5 - 5/5.$
$565 = 555 + 5 + 5.$
$566 = 555 + 55/5.$
$567 = 555 + (55 + 5)/5.$
$568 = (5^5 - 5 - 5)/5 - 55.$
$569 = (5^5 - 5)/5 - 55.$
$570 = 5^5/5 - 55.$
$571 = (5^5 + 5)/5 - 55.$
$572 = (5^5 + 5 + 5)/5 - 55.$
$573 = 5 - 55 + (5^5 - 5 - 5)/5.$
$574 = 5 - 55 + (5^5 - 5)/5.$
$575 = 5 - 55 + 5^5/5.$
$576 = 5 - 55 + (5^5 + 5)/5.$
$577 = 5 - 55 + (5^5 + 5 + 5)/5.$
$578 = 5 \times 5 + 555 - (5 + 5)/5.$
$579 = 5 \times 5 + 555 - 5/5.$
$580 = 5 \times 5 + 555.$
$581 = 5 \times 5 + 555 + 5/5.$
$582 = 5 \times 5 + 555 + (5 + 5)/5.$
$583 = 55 \times (55 - (5 + 5)/5)/5.$
$584 = 555 + 5 \times 5 + 5 - 5/5.$
$585 = 555 + 5 \times 5 + 5.$
$586 = 555 + 5 \times 5 + 5 + 5/5.$
$587 = 555 + ((5 + 5)/5)^5.$
$588 = 5 \times 55 + (5^5 + 5)/(5 + 5).$
$589 = (5^5 - 55)/5 - 5 \times 5.$
$590 = 555 + 5 \times 5 + 5 + 5.$
$591 = 555 + 5 \times 5 + 55/5.$
$592 = 555 + 5 + ((5 + 5)/5)^5.$
$593 = 5^5/5 - ((5 + 5)/5)^5.$
$594 = 55 \times (55 - 5/5)/5.$
$595 = 5^5/5 - 5 \times 5 - 5.$
$596 = (5^5 + 5)/5 - 5 \times 5 - 5.$
$597 = (5^5 + 5 + 5)/5 - 5 \times 5 - 5.$
$598 = 5\times(5\times5\times5-5)-(5+5)/5.$
$599 = 5 \times (5 \times 5 \times 5 - 5) - 5/5.$
$600 = 5 \times (5 \times 5 \times 5 - 5).$
$601 = (5^5 + 5)/5 - 5 \times 5.$
$602 = (5^5 + 5 + 5)/5 - 5 \times 5.$
$603 = (5^5 - 55 - 55)/5.$
$604 = (55 \times 55 - 5)/5.$
$605 = 55 \times 55/5.$
$606 = (55 \times 55 + 5)/5.$
$607 = (55 \times 55 + 5 + 5)/5.$
$608 = (5^5 - 55 - 5)/5 - 5.$
$609 = (5^5 - 55)/5 - 5.$
$610 = 555 + 55.$
$611 = 5 + (55 \times 55 + 5)/5.$
$612 = (5^5 - 55 - 5 - 5)/5.$
$613 = (5^5 - 55 - 5)/5.$
$614 = (5^5 - 55)/5.$
$615 = 5^5/5 - 5 - 5.$
$616 = (5^5 + 5)/5 - 5 - 5.$
$617 = (5^5 + 5 + 5)/5 - 5 - 5.$
$618 = (5^5 - 5 - 5)/5 - 5.$
$619 = (5^5 - 5)/5 - 5.$
$620 = 5^5/5 - 5.$
$621 = (5^5 + 5)/5 - 5.$
$622 = (5^5 + 5 + 5)/5 - 5.$
$623 = (5^5 - 5 - 5)/5.$
$624 = (5^5 - 5)/5.$
$625 = 5^5/5.$
$626 = (5^5 + 5)/5.$
$627 = (5^5 + 5 + 5)/5.$
$628 = 5 + (5^5 - 5 - 5)/5.$
$629 = 5 + (5^5 - 5)/5.$
$630 = 5 + 5^5/5.$
$631 = 5 + (5^5 + 5)/5.$
$632 = 5 + (5^5 + 5 + 5)/5.$
$633 = 5 + 5 + (5^5 - 5 - 5)/5.$
$634 = 5 + 5 + (5^5 - 5)/5.$
$635 = 5 + 5 + 5^5/5.$
$636 = (55 + 5^5)/5.$
$637 = (55 + 5^5 + 5)/5.$
$638 = (55 + 5^5 + 5 + 5)/5.$

$639 = 5+5+5+(5^5-5)/5.$
$640 = 5+5+5+5^5/5.$
$641 = 5+(55+5^5)/5.$
$642 = 5+(55+5^5+5)/5.$
$643 = 5+(55+5^5+5+5)/5.$
$644 = 5\times5-5+(5^5-5)/5.$
$645 = 5\times5-5+5^5/5.$
$646 = 5+5+(55+5^5)/5.$
$647 = (55+55+5^5)/5.$
$648 = 5\times5+(5^5-5-5)/5.$
$649 = 5\times5+(5^5-5)/5.$
$650 = 5\times(5\times5\times5+5).$
$651 = 5\times5+(5^5+5)/5.$
$652 = 5\times5+(5^5+5+5)/5.$
$653 = 5+5\times5+(5^5-5-5)/5.$
$654 = 5+5\times5+(5^5-5)/5.$
$655 = 5+5\times5+5^5/5.$
$656 = 5+5\times5+(5^5+5)/5.$
$657 = 5^5/5+((5+5)/5)^5.$
$658 = (5^5+5)/5+((5+5)/5)^5.$
$659 = (55\times(55+5)-5)/5.$
$660 = 55\times(55+5)/5.$
$661 = 5\times5+(55+5^5)/5.$
$662 = 5+((5+5)/5)^5+5^5/5.$
$663 = 5+(5^5+5)/5+((5+5)/5)^5.$
$664 = 5+(55\times(55+5)-5)/5.$
$665 = 5+55\times(55+5)/5.$
$666 = 555+555/5.$
$667 = 555+(555+5)/5.$
$668 = 55+(5^5-55-5)/5.$
$669 = 55+(5^5-55)/5.$
$670 = 55-5-5+5^5/5.$
$671 = 5+555+555/5.$
$672 = (5+5/5)\times(555+5)/5.$
$673 = 55-5+(5^5-5-5)/5.$
$674 = 55-5+(5^5-5)/5.$
$675 = 5\times(5\times5\times5+5+5).$
$676 = 55-5+(5^5+5)/5.$
$677 = 55-5+(5^5+5+5)/5.$
$678 = 55+(5^5-5-5)/5.$
$679 = 55+(5^5-5)/5.$
$680 = 55+5^5/5.$
$681 = 55+(5^5+5)/5.$
$682 = 55+(5^5+5+5)/5.$
$683 = 55+5+(5^5-5-5)/5.$
$684 = 55+5+(5^5-5)/5.$
$685 = 55+5+5^5/5.$
$686 = 55+5+(5^5+5)/5.$
$687 = 55+5+(5^5+5+5)/5.$
$688 = (55\times5\times5\times5+5)/(5+5).$
$689 = 55+5+5+(5^5-5)/5.$
$690 = 55+5+5+5^5/5.$
$691 = 55+(55+5^5)/5.$
$692 = 55+(55+5^5+5)/5.$
$693 = 5+(5\times5\times5\times55+5)/(5+5).$
$694 = 55+5+5+5+(5^5-5)/5.$
$695 = 5\times5\times(5\times5+5)-55.$
$696 = 55+5+(55+5^5)/5.$
$697 = 55+5+(55+5^5+5)/5.$
$698 = 5\times(5+5+5)+(5^5-5-5)/5.$
$699 = 5\times(5+5+5)+(5^5-5)/5.$
$700 = 5\times(5\times5\times5+5+5+5).$
$701 = 5\times(5+5+5)+(5^5+5)/5.$
$702 = 55+(55+55+5^5)/5.$
$703 = 5\times5+55+(5^5-5-5)/5.$
$704 = 5\times5+55+(5^5-5)/5.$
$705 = 5\times5+55+5^5/5.$
$706 = 5\times5+55+(5^5+5)/5.$
$707 = 5\times5+55+(5^5+5+5)/5.$
$708 = (55+5)\times(55+5-5/5)/5.$
$709 = 5\times5+55+5+(5^5-5)/5.$
$710 = 5\times5+55+5+5^5/5.$
$711 = (555+5^5)/5-5\times5.$
$712 = 55+((5+5)/5)^5+5^5/5.$
$713 = (55\times(55+5+5)-5-5)/5.$
$714 = (55\times(55+5+5)-5)/5.$
$715 = 55\times(55+5+5)/5.$
$716 = (55\times(55+5+5)+5)/5.$
$717 = (55\times(55+5+5)+5+5)/5.$
$718 = 5\times5\times(5\times5+5)-((5+5)/5)^5.$
$719 = ((55+5)^{((5+5)/5)}-5)/5.$
$720 = (5\times5\times5-5)\times(5+5/5).$
$721 = ((55+5)^{((5+5)/5)}+5)/5.$
$722 = ((55+5)^{((5+5)/5)}+5+5)/5.$
$723 = 5\times(5\times5-5)+(5^5-5-5)/5.$
$724 = 5\times(5\times5-5)+(5^5-5)/5.$
$725 = 5\times(5\times(5\times5+5)-5).$
$726 = 5\times(5\times(5\times5+5)-5)+5/5.$
$727 = (555+5^5+5)/5-5-5.$
$728 = (55+5/5)\times(55+5+5)/5.$
$729 = (5-(5+5)/5)^{(5+5/5)}.$
$730 = 5+5\times(5\times(5\times5+5)-5).$
$731 = (555+5^5)/5-5.$
$732 = (555+5^5+5)/5-5.$
$733 = 55+55+(5^5-5-5)/5.$
$734 = 5+(5-(5+5)/5)^{(5+5/5)}.$
$735 = 55+55+5^5/5.$
$736 = (555+5^5)/5.$
$737 = (555+5^5+5)/5.$
$738 = (555+5^5+5+5)/5.$
$739 = 5\times5\times5\times5+(5^5-55)/5.$
$740 = 5\times5\times(5\times5+5)-5-5.$
$741 = 5+(555+5^5)/5.$
$742 = 5+(555+5^5+5)/5.$
$743 = 5+(555+5^5+5+5)/5.$
$744 = 5\times5\times5\times5-5+(5^5-5)/5.$
$745 = 5\times5\times(5\times5+5)-5.$
$746 = 5+5+(555+5^5)/5.$
$747 = (555+55+5^5)/5.$
$748 = 5\times5\times5\times5+(5^5-5-5)/5.$
$749 = 5\times5\times5\times5+(5^5-5)/5.$
$750 = 5\times5\times(5\times5+5).$
$751 = 5\times5\times(5\times5+5)+5/5.$
$752 = 5\times5\times5\times5+(5^5+5+5)/5.$
$753 = 5\times5\times5+5+5+(5^5-5-5)/5.$
$754 = 5\times5\times5\times5+5+(5^5-5)/5.$
$755 = 5+5\times5\times5\times(5\times5+5).$
$756 = 5+5\times5\times5\times(5\times5+5)+5/5.$
$757 = 5+5\times5\times5\times(5\times5+5)+(5+5)/5.$
$758 = 5\times5\times5+5+5+(5^5-5-5)/5.$
$759 = 5\times5\times5+5+5+5+(5^5-5)/5.$
$760 = 5+5+5\times5\times5\times(5\times5+5).$
$761 = 5\times5+(555+5^5)/5.$
$762 = 5\times5+(555+5^5+5)/5.$
$763 = 555+(5^5-5)/(5+5+5).$
$764 = 5\times(5\times5+5)+(5^5-55)/5.$
$765 = 5+5+5+5\times5\times5\times(5\times5+5).$
$766 = 5+5\times5\times5+(555+5^5)/5.$
$767 = 5+5\times5\times5+(555+5^5+5)/5.$
$768 = (5\times5-5/5)\times((5+5)/5)^5.$
$769 = (5-5/5)^5-5\times(55-5)-5.$
$770 = 55\times(5+5+5-5/5).$
$771 = 55\times(5+5+5-5/5)+5/5.$
$772 = 555\times(5+(5+5)/5)/5-5.$
$773 = 5+(5\times5-5/5)\times((5+5)/5)^5.$
$774 = (5-5/5)^5-5\times(55-5).$
$775 = 5\times(5\times(5\times5+5)+5).$
$776 = 5\times(5\times(5\times5+5)+5)+5/5.$
$777 = 555\times(5+(5+5)/5)/5.$
$778 = (5^5-5)/(5-5/5)-(5+5)/5.$
$779 = (5^5-5)/(5-5/5)-5/5.$
$780 = (5^5-5)/(5-5/5).$
$781 = (5^5-5/5)/(5-5/5).$
$782 = 5+555\times(5+(5+5)/5)/5.$
$783 = (5^5-5/5)/(5-5/5)+(5+5)/5.$
$784 = (5^5+55/5)/(5-5/5).$
$785 = 5+(5^5-5)/(5-5/5).$
$786 = 5+(5^5-5/5)/(5-5/5).$
$787 = 5+5+555\times(5+(5+5)/5)/5.$
$788 = 5+(5^5+5+(5+5)/5)/(5-5/5).$
$789 = 5+(5^5+55/5)/(5-5/5).$
$790 = 5+5+(5^5-5)/(5-5/5).$
$791 = 55+(555+5^5)/5.$
$792 = 55+(555+5^5+5)/5.$
$793 = 555-5+(5-(5+5)/5)^5.$
$794 = 5\times5\times((5+5)/5)^5-5-5/5.$
$795 = (55+5^5)/(5-5/5).$
$796 = 55+5+(555+5^5)/5.$
$797 = 55+5+(555+5^5+5)/5.$
$798 = 555+(5-(5+5)/5)^5.$
$799 = 5\times5\times((5+5)/5)^5-5/5.$
$800 = 5\times5\times((5+5)/5)^5.$
$801 = 5\times5\times((5+5)/5)^5+5/5.$
$802 = 5\times5\times((5+5)/5)^5+(5+5)/5.$
$803 = 5+555+(5-(5+5)/5)^5.$
$804 = 5+5\times5\times((5+5)/5)^5-5/5.$
$805 = 5+5\times5\times((5+5)/5)^5.$
$806 = 5+5\times5\times((5+5)/5)^5+5/5.$
$807 = 5+5\times5\times((5+5)/5)^5+(5+5)/5.$
$808 = 555+5+5+(5-(5+5)/5)^5.$
$809 = 55\times(5+5+5)-5-55/5.$
$810 = (5+5+5)\times(55-5/5).$
$811 = (5+5+5)\times(55-5/5)+5/5.$
$812 = (5+(5+5)/5)\times(5+555/5).$
$813 = 55\times(5+5+5)-(55+5)/5.$
$814 = 55\times(5+5+5)-55/5.$
$815 = 55\times(5+5+5)-5-5.$
$816 = 55\times(5+5+5)-5-5+5/5.$
$817 = 55\times(5+5+5)-5-5+(5+5)/5.$
$818 = 55\times(5+5+5)-5-(5+5)/5.$
$819 = 55\times(5+5+5)-5-5/5.$
$820 = 55\times(5+5+5)-5.$
$821 = 55\times(5+5+5)-5+5/5.$
$822 = 55\times(5+5+5)-5+(5+5)/5.$
$823 = 55\times(5+5+5)-(5+5)/5.$
$824 = 55\times(5+5+5)-5/5.$
$825 = 55\times(5+5+5).$
$826 = 55\times(5+5+5)+5/5.$
$827 = 55\times(5+5+5)+(5+5)/5.$
$828 = 55\times(5+5+5)+5-(5+5)/5.$
$829 = 55\times(5+5+5)+5-5/5.$
$830 = 55\times(5+5+5)+5.$
$831 = 55\times(5+5+5)+5+5/5.$
$832 = (5\times5+5/5)\times((5+5)/5)^5.$
$833 = 5^5/5+(5^5-5)/(5+5+5).$
$834 = 55\times(5+5+5)+5+5-5/5.$

$835 = 55 \times (5+5+5) + 5 + 5.$
$836 = 55 \times (5+5+5) + 55/5.$
$837 = 55 \times (5+5+5) + (55+5)/5.$
$838 = 5 + 5^5/5 + (5^5-5)/(5+5+5).$
$839 = (5+5+5) \times (55+5/5) - 5/5.$
$840 = (5+5+5) \times (55+5/5).$
$841 = (5 \times 5 + 5 - 5/5)^{((5+5)/5)}.$
$842 = 5 + 5 + (5 \times 5 + 5/5) \times ((5+5)/5)^5.$
$843 = 5^5/5 - 5 \times 5 + (5-(5+5)/5)^5.$
$844 = 5 \times 55 - 55 + (5^5-5)/5.$
$845 = (5+5+5) \times (55+5/5) + 5.$
$846 = (5 \times 5 + 5 - 5/5)^{((5+5)/5)} + 5.$
$847 = (555 + 555 + 5^5)/5.$
$848 = (5 + 55/5) \times (55 - (5+5)/5).$
$849 = 5 \times 5 + 55 \times (5+5+5) - 5/5.$
$850 = 5 \times (5 \times (5 \times 5 + 5 + 5) - 5).$
$851 = 5 \times 5 + 55 \times (5+5+5) + 5/5.$
$852 = 5 + (555 + 555 + 5^5)/5.$
$853 = 5 + (55/5+5) \times (55 - (5+5)/5).$
$854 = 555 + 5 \times (55+5) - 5/5.$
$855 = 555 + 5 \times (55+5).$
$856 = 555 + 5 \times (55+5) + 5/5.$
$857 = 55 \times (5+5+5) + ((5+5)/5)^5.$
$858 = 5^5/5 + (5-(5+5)/5)^5 - 5 - 5.$
$859 = (5 + 55/5) \times (55 - 5/5) - 5.$
$860 = 5 + 5 \times (55+5) + 555.$
$861 = 5 \times 5 \times 5 + (555 + 5^5)/5.$
$862 = 555 + (5^5 - 55)/(5+5).$
$863 = 5^5/5 + (5 - (5+5)/5)^5 - 5.$
$864 = (5 + 55/5) \times (55 - 5/5).$
$865 = 5 \times 5 \times (5 \times 5 + 5 + 5) - 5 - 5.$
$866 = 5 \times 5 \times 5 + 5 + (555 + 5^5)/5.$
$867 = 555 + (5^5 - 5)/(5+5).$
$868 = 5^5/5 + (5 - (5+5)/5)^5.$
$869 = 5 + (5 + 55/5) \times (55 - 5/5).$
$870 = 5 \times 5 \times (5 \times 5 + 5 + 5) - 5.$
$871 = 5 \times 5 \times (5 \times 5 + 5 + 5) - 5 + 5/5.$
$872 = 555 + 5 + (5^5 - 5)/(5+5).$
$873 = 5^5/5 + 5 + (5 - (5+5)/5)^5.$
$874 = 5 \times 5 \times (5+5) + (5^5 - 5)/5.$
$875 = 5 \times 5 \times (5 \times 5 + 5 + 5).$
$876 = 5 \times 5 \times (5 \times 5 + 5 + 5) + 5/5.$
$877 = 5 \times 5 \times (5 \times 5 + 5 + 5) + (5+5)/5.$
$878 = 55 \times (5 + 55/5) - (5+5)/5.$
$879 = 55 \times (5 + 55/5) - 5/5.$
$880 = 55 \times (5 + 55/5).$
$881 = 55 \times (5 + 55/5) + 5/5.$
$882 = 55 \times (5 + 55/5) + (5+5)/5.$
$883 = 55 \times (5 + 55/5) + 5 - (5+5)/5.$
$884 = 55 \times (5 + 55/5) + 5 - 5/5.$
$885 = 55 \times (5 + 55/5) + 5.$
$886 = 55 \times (5 + 55/5) + 5 + 5/5.$
$887 = 55 \times (5 + 55/5) + 5 + (5+5)/5.$
$888 = 5 \times 55 + (5^5 - 55 - 5)/5.$
$889 = 5 \times 55 + (5^5 - 55)/5.$
$890 = 5 + 5 + 55 \times (5 + 55/5).$
$891 = 5 \times 55 - 5 - 5 + (5^5+5)/5.$
$892 = 5 \times 5 + 555 + (5^5-5)/(5+5).$
$893 = 5 \times 55 - 5 + (5^5 - 5 - 5)/5.$
$894 = 5 \times 55 - 5 + (5^5 - 5)/5.$
$895 = 5 \times 55 - 5 + 5^5/5.$
$896 = 5 \times 55 - 5 + (5^5+5)/5.$
$897 = 5 \times 55 - 5 + (5^5+5+5)/5.$
$898 = 5 \times 55 + (5^5 - 5 - 5)/5.$
$899 = 5 \times 55 + (5^5 - 5)/5.$
$900 = 5 \times (5 \times 5 \times 5 + 55).$
$901 = 5 \times 55 + (5^5+5)/5.$
$902 = 5 \times 55 + (5^5+5+5)/5.$
$903 = 5 \times 55 + 5 + (5^5 - 5 - 5)/5.$
$904 = 5 \times 55 + 5 + (5^5 - 5)/5.$
$905 = 5 \times 55 + 5 + 5^5/5.$
$906 = 5 \times 55 + 5 + (5^5+5)/5.$
$907 = 5 \times 55 + 5 + (5^5+5+5)/5.$
$908 = (5-5/5)^5 - 5 - 555/5.$
$909 = 5 \times 55 + 5 + 5 + (5^5 - 5)/5.$
$910 = 5 \times 55 + 5 + 5 + 5^5/5.$
$911 = 5 \times 55 + (55 + 5^5)/5.$
$912 = 5 \times 55 + (55 + 5^5 + 5)/5.$
$913 = (5-5/5)^5 - 555/5.$
$914 = (5-5/5)^5 - 55 - 55.$
$915 = (5+5+5) \times (55 + 5 + 5/5).$
$916 = 5 \times 55 + 5 + (55 + 5^5)/5.$
$917 = 5 \times 55 + 5 + (55 + 5^5 + 5)/5.$
$918 = (5-5/5)^5 - 555/5 + 5.$
$919 = (5-5/5)^5 - 55 - 55 + 5.$
$920 = 5 \times (55+5) - 5 + 5^5/5.$
$921 = 5 \times (55+5) - 5 + (5^5+5)/5.$
$922 = 555 + 55 + (5^5 - 5)/(5+5).$
$923 = 5 \times (55+5) + (5^5 - 5 - 5)/5.$
$924 = (5-5/5)^5 - 5 \times (5 \times 5 - 5).$
$925 = 5 \times (5 \times 5 \times 5 + 55 + 5).$
$926 = 5 \times (55+5) + (5^5+5)/5.$
$927 = 5 \times (55+5) + (5^5+5+5)/5.$
$928 = ((5+5)/5)^5 \times (5 \times 5 + 5 - 5/5).$
$929 = 5 - 5 \times (5 \times 5 - 5) + (5 - 5/5)^5.$
$930 = 5 + 5 \times (55+5) + 5^5/5.$
$931 = 5 + 5 \times (55+5) + (5^5+5)/5.$
$932 = 5^5/5 + (5^5 - 55)/(5+5).$
$933 = 5^5/5 + (5^5+5)/(5+5) - 5.$
$934 = 55 \times (5 + (55+5)/5) - 5/5.$
$935 = 55 \times (5 + (55+5)/5).$
$936 = 55 \times (5 + (55+5)/5) + 5/5.$
$937 = (5^5 - 5)/(5+5) + 5^5/5.$
$938 = (5^5+5)/(5+5) + 5^5/5.$
$939 = (5^5+5)/5 + (5^5+5)/(5+5).$
$940 = 55 \times (5 + (55+5)/5) + 5.$
$941 = 55 \times (5 + (55+5)/5) + 5 + 5/5.$
$942 = (5^5 - 5)/(5+5) + 5^5/5 + 5.$
$943 = (5^5+5)/(5+5) + 5^5/5 + 5.$
$944 = (5-5/5)^5 - 5 \times 5 - 55.$
$945 = 5 \times 5 \times (55+5) - 555.$
$946 = 55 \times (555/5 - 5 \times 5)/5.$
$947 = (5^5 - 5)/(5+5) + 5^5/5 + 5 + 5.$
$948 = (5^5+5)/(5+5) + 5^5/5 + 5 + 5.$
$949 = (5-5/5)^5 - 5 \times (5+5+5).$
$950 = (5+5) \times (5 \times (5 \times 5 - 5) - 5).$
$951 = (5+5) \times (5 \times (5 \times 5 - 5) - 5) + 5/5.$
$952 = (5-5/5) \times ((5-(5+5)/5)^5 - 5).$
$953 = 55 + 5 \times 55 + (5^5 - 5 - 5)/5.$
$954 = (5-5/5)^5 + 5 - 5 \times (5+5+5).$
$955 = 5 + (5+5) \times (5 \times (5 \times 5 - 5) - 5).$
$956 = 55 + 5 \times 55 + (5^5+5)/5.$
$957 = 55 \times (55 + ((5+5)/5)^5)/5.$
$958 = (5-5/5)^5 - 55 - 55/5.$
$959 = (5-5/5)^5 - 55 - 5 - 5.$
$960 = (5 \times 5 + 5) \times ((5+5)/5)^5.$
$961 = (5 \times 5 + 5 + 5/5)^{((5+5)/5)}.$
$962 = (5 \times 5 + 5/5) \times (5 + ((5+5)/5)^5).$
$963 = (5-5/5)^5 - 55 - 5 - 5/5.$
$964 = (5-5/5)^5 - 55 - 5.$
$965 = 5 + (5 \times 5 + 5) \times ((5+5)/5)^5.$
$966 = 5 + (5 \times 5 + 5 + 5/5)^{((5+5)/5)}.$
$967 = (5-5/5)^5 - (55 + (5+5)/5).$
$968 = (5-5/5)^5 - 55 - 5/5.$
$969 = (5-5/5)^5 - 55.$
$970 = (5-5/5)^5 - 55 + 5/5.$
$971 = (5-5/5)^{(5+5/5)} - 5^5.$
$972 = (5-5/5) \times (5 - (5+5)/5)^5.$
$973 = (5-5/5)^5 + 5 - 55 - 5/5.$
$974 = (5-5/5)^5 + 5 - 55.$
$975 = 5 \times (5 \times 5 \times (5+5) - 55).$
$976 = 5 - 5^5 + (5-5/5)^{(5+5/5)}.$
$977 = 5 + (5-5/5) \times (5 - (5+5)/5)^5.$
$978 = (5-5/5)^5 + 5 + 5 - 55 - 5/5.$
$979 = (5-5/5)^5 + 5 + 5 - 55.$
$980 = 5 + 5 \times (5 \times 5 \times (5+5) - 55).$
$981 = 5555/5 - 5 \times 5 \times 5 - 5.$
$982 = (5-5/5) \times (5 - (5+5)/5)^5 + 5 + 5.$
$983 = (5-5/5)^5 - 55/5 - 5 \times 5 - 5.$
$984 = (5-5/5)^5 - 55 + 5 + 5 + 5.$
$985 = 5 + 5 \times (5 \times 5 \times (5+5) - 55) + 5.$
$986 = 5555/5 - 5 \times 5 \times 5.$
$987 = (5-5/5)^5 - 5 - ((5+5)/5)^5.$
$988 = (5-5/5)^5 - 5 \times 5 - 55/5.$
$989 = (5-5/5)^5 - 5 \times 5 - 5 - 5.$
$990 = (5+5) \times (5 \times (5 \times 5 - 5) - 5/5).$
$991 = 5 + 5555/5 - 5 \times 5 \times 5.$
$992 = (5-5/5)^5 - ((5+5)/5)^5.$
$993 = (5-5/5)^5 - 5 \times 5 - 5 - 5/5.$
$994 = (5-5/5)^5 - 5 \times 5 - 5.$
$995 = 5 \times (5+5) \times (5 \times 5 - 5) - 5.$
$996 = 5 \times (5+5) \times (5 \times 5 - 5) - 5 + 5/5.$
$997 = (5-5/5)^5 - ((5+5)/5)^5 + 5.$
$998 = (5-5/5)^5 - 5 \times 5 - 5/5.$
$999 = (5-5/5)^5 - 5 \times 5.$
$1000 = 5 \times (5+5) \times (5 \times 5 - 5).$

9. Representations Using Number 6

$101 = 66 + 6 \times 6 - 6/6.$
$102 = 66 + 6 \times 6.$
$103 = 66 + 6 \times 6 + 6/6.$
$104 = (666 - 6)/6 - 6.$
$105 = 666/6 - 6.$
$106 = (666 + 6)/6 - 6.$
$107 = 6 \times (6+6+6) - 6/6.$
$108 = 6 \times (6+6+6).$
$109 = (666 - 6 - 6)/6.$
$110 = (666 - 6)/6.$
$111 = 666/6.$
$112 = (666 + 6)/6.$
$113 = (666 + 6 + 6)/6.$
$114 = 6 \times (6+6+6) + 6.$
$115 = 6 \times (6+6+6) + 6 + 6/6.$

$116 = 6 + (666 - 6)/6.$
$117 = 6 + 666/6.$
$118 = 6 + (666 + 6)/6.$
$119 = 6 + (666 + 6 + 6)/6.$
$120 = 6 \times (6 + 6 + 6) + 6 + 6.$
$121 = 66 \times 66/(6 \times 6).$
$122 = (666 + 66)/6.$
$123 = 6 + 6 + 666/6.$
$124 = 6 + 6 + (666 + 6)/6.$
$125 = 66 + 66 - 6 - 6/6.$
$126 = 66 + 66 - 6.$
$127 = 6 + 66 \times 66/(6 \times 6).$
$128 = ((6 + 6)/6)^{(6+6/6)}.$
$129 = 6 + 6 + 6 + 666/6.$
$130 = 66 + ((6 + 6)/6)^6.$
$131 = 66 + 66 - 6/6.$
$132 = 66 + 66.$
$133 = 66 + 66 + 6/6.$
$134 = 66 + 66 + (6 + 6)/6.$
$135 = 6 + 6 + 6 + 6 + 666/6.$
$136 = 66 + 6 + ((6 + 6)/6)^6.$
$137 = 66 + 6 + 66 - 6/6.$
$138 = 66 + 66 + 6.$
$139 = 66 + 66 + 6 + 6/6.$
$140 = 66 + 66 + 6 + (6 + 6)/6.$
$141 = 6 \times 6 - 6 + 666/6.$
$142 = (6 + 6) \times (6 + 6) - (6 + 6)/6.$
$143 = (6 + 6) \times (6 + 6) - 6/6.$
$144 = (6 + 6) \times (6 + 6).$
$145 = (6 + 6) \times (6 + 6) + 6/6.$
$146 = 6 \times 6 + (666 - 6)/6.$
$147 = 66 + 6 \times 66/6.$
$148 = 6 \times 6 + (666 + 6)/6.$
$149 = (6 + 6) \times (6 + 6) + 6 - 6/6.$
$150 = (6 + 6) \times (6 + 6) + 6.$
$151 = (6 + 6) \times (6 + 6) + 6 + 6/6.$
$152 = 6 \times 6 \times 6 - ((6 + 6)/6)^6.$
$153 = 6 \times 6 + 6 + 666/6.$
$154 = 6 \times 6 + 6 + (666 + 6)/6.$
$155 = (6 + 6) \times (6 + 6) + 66/6.$
$156 = (6 + 6) \times (6 + 6) + 6 + 6.$
$157 = (6+6) \times (6+6) + 6 + 6 + 6/6.$
$158 = 6 \times 6 \times 6 + 6 - ((6 + 6)/6)^6.$
$159 = 6 \times 6 + 6 + 6 + 666/6.$
$160 = 6 \times 6 + 6 + 6 + (666 + 6)/6.$
$161 = (6 + 6) \times (6 + 6) + 6 + 66/6.$
$162 = (6 + 6) \times (6 + 6) + 6 + 6 + 6.$
$163 = 6 \times (6 \times 6 - 6) - 6 - 66/6.$
$164 = 6 \times 6 + ((6 + 6)/6)^{(6+6/6)}.$
$165 = 66 \times (6 \times 6 - 6)/(6 + 6).$
$166 = 66 + 6 \times 6 + ((6 + 6)/6)^6.$
$167 = 66 + 6 \times 6 + 66 - 6/6.$
$168 = 66 + 6 \times 6 + 66.$
$169 = (6 + 6 + 6/6)^{((6+6)/6)}.$
$170 = 66 - 6 + (666 - 6)/6.$
$171 = 66 - 6 + 666/6.$
$172 = 66 - 6 + (666 + 6)/6.$
$173 = 6 \times (6 \times 6 - 6) - 6 - 6/6.$
$174 = 6 \times (6 \times 6 - 6) - 6.$
$175 = 6 \times (6 \times 6 - 6) - 6 + 6/6.$
$176 = 66 + (666 - 6)/6.$
$177 = 66 + 666/6.$
$178 = 66 + (666 + 6)/6.$
$179 = 6 \times (6 \times 6 - 6) - 6/6.$
$180 = 6 \times (6 \times 6 - 6).$
$181 = 6 \times (6 \times 6 - 6) + 6/6.$
$182 = 6 \times (6 \times 6 - 6) + (6 + 6)/6.$
$183 = 66 + 6 + 666/6.$
$184 = 66 + 6 + (666 + 6)/6.$
$185 = 6 \times (6 \times 6 - 6) + 6 - 6/6.$
$186 = 6 \times (6 \times 6 - 6) + 6.$
$187 = 6 \times (6 \times 6 - 6) + 6 + 6/6.$
$188 = 6 \times (6 \times 6 - 6) + 6 + (6 + 6)/6.$
$189 = 66 + 6 + 6 + 666/6.$
$190 = (6 - 6/6) \times (6 \times 6 + (6 + 6)/6).$
$191 = 6 \times (6 \times 6 - 6) + 66/6.$
$192 = 6 \times (6 \times 6 - 6) + 6 + 6.$
$193 = 6 \times (6 \times 6 - 6) + 6 + 6 + 6/6.$
$194 = 66 + ((6 + 6)/6)^{(6+6/6)}.$
$195 = 6 \times (6 \times 66 - 6)/(6 + 6).$
$196 = 66 + 66 + ((6 + 6)/6)^6.$
$197 = (66 \times (6 + 6 + 6) - 6)/6.$
$198 = 6 \times 6 \times 66/(6 + 6).$
$199 = 6 \times 6 \times 6 - 6 - 66/6.$
$200 = 6 \times 6 \times 6 - 6 - (66 - 6)/6.$
$201 = 6 \times (6 \times 66 + 6)/(6 + 6).$
$202 = 6 \times 6 \times 6 - 6 - 6 - (6 + 6)/6.$
$203 = 6 \times 6 \times 6 - 6 - 6 - 6/6.$
$204 = 6 \times 6 \times 6 - 6 - 6.$
$205 = 6 \times 6 \times 6 - 66/6.$
$206 = 6 \times 6 \times 6 - (66 - 6)/6.$
$207 = 6 + 6 \times (6 \times 66 + 6)/(6 + 6).$
$208 = 6 \times 6 \times 6 - 6 - (6 + 6)/6.$
$209 = 6 \times 6 \times 6 - 6 - 6/6.$
$210 = 6 \times 6 \times 6 - 6.$
$211 = 6 \times 6 \times 6 - 6 + 6/6.$
$212 = 6 \times 6 \times 6 - 6 + (6 + 6)/6.$
$213 = 6 \times 6 \times 6 - 6 \times 6/(6 + 6).$
$214 = 6 \times 6 \times 6 - (6 + 6)/6.$
$215 = 6 \times 6 \times 6 - 6/6.$
$216 = 6 \times 6 \times 6.$
$217 = 6 \times 6 \times 6 + 6/6.$
$218 = 6 \times 6 \times 6 + (6 + 6)/6.$
$219 = 6 \times 6 \times 6 + 6 \times 6/(6 + 6).$
$220 = 6 + 6 \times 6 \times 6 - (6 + 6)/6.$
$221 = 6 + 6 \times 6 \times 6 - 6/6.$
$222 = 6 + 6 \times 6 \times 6.$
$223 = 6 + 6 \times 6 \times 6 + 6/6.$
$224 = 6 + 6 \times 6 \times 6 + (6 + 6)/6.$
$225 = 6 \times 6 \times 6 + 6 + 6 \times 6/(6 + 6).$
$226 = 6 \times 6 \times 6 + (66 - 6)/6.$
$227 = 6 \times 66 + 6 \times 6/6.$
$228 = 6 \times 6 \times 6 + 6 + 6.$
$229 = 6 \times 6 \times 6 + 6 + 6 + 6/6.$
$230 = 6 \times 6 \times 6 + 6 + 6 + (6 + 6)/6.$
$231 = 66 \times (6 \times 6 + 6)/(6 + 6).$
$232 = 6 \times 6 \times 6 + 6 + (66 - 6)/6.$
$233 = 6 \times 6 \times 6 + 6 + 66/6.$
$234 = 6 \times 6 \times 6 + 6 + 6 + 6.$
$235 = 6 \times 6 \times 6 + 6 + 6 + 6 + 6/6.$
$236 = 66 \times 66/(6 + 6 + 6) - 6.$
$237 = 66 \times (6 \times 6 + 6)/(6 + 6) + 6.$
$238 = 6 \times 6 \times 6 + (66 + 66)/6.$
$239 = 6 \times 6 \times 6 + 6 + 6 + 66/6.$
$240 = 6 \times (6 \times 6 + 6) - 6 - 6.$
$241 = 6 \times (6 \times 6 + 6) - 66/6.$
$242 = 66 \times 66/(6 + 6 + 6).$
$243 = (6 \times 6/(6 + 6))(6 - 6/6).$
$244 = 6 \times 6 \times 6 - 6 + ((6 + 6)/6)^6.$
$245 = (6 + 6/6) \times (6 \times 6 - 6/6).$
$246 = 6 \times (6 \times 6 + 6) - 6.$
$247 = 6 \times (6 \times 6 + 6) - 6 + 6/6.$
$248 = 66 \times 66/(6 + 6 + 6) + 6.$
$249 = (6 \times 6/(6 + 6))(6 - 6/6) + 6.$
$250 = 6 \times (6 \times 6 + 6) - (6 + 6)/6.$
$251 = 6 \times (6 \times 6 + 6) - 6/6.$
$252 = 6 \times (6 \times 6 + 6).$
$253 = 6 \times (6 \times 6 + 6) + 6/6.$
$254 = 6 \times (6 \times 6 + 6) + (6 + 6)/6.$
$255 = 6 \times (6 \times 6 + 6) + 6 \times 6/(6 + 6).$
$256 = ((6 + 6)/6)^{(6+(6+6)/6)}.$
$257 = 6 \times (6 \times 6 + 6) + 6 - 6/6.$
$258 = 6 \times (6 \times 6 + 6) + 6.$
$259 = 6 \times (6 \times 6 + 6) + 6 + 6/6.$
$260 = 6 \times (6 \times 6 + 6) + 6 + (6 + 6)/6.$
$261 = 6 \times (6 \times 6 + 6) + 6 + 6 \times 6/(6 + 6).$
$262 = ((6 + 6)/6)^{(6+(6+6)/6)} + 6.$
$263 = 6 \times (6 \times 6 + 6) + 66/6.$
$264 = 6 \times (6 \times 6 + 6) + 6 + 6.$
$265 = 6 \times (6 \times 6 + 6) + 6 + 6 + 6/6.$
$266 = (6 + 6/6) \times (6 \times 6 + (6 + 6)/6).$
$267 = 6 \times 666/(6 + 6) - 66.$
$268 = (66 + 6/6) \times (6 - (6 + 6)/6).$
$269 = 6 \times (6 \times 6 + 6) + 6 + 66/6.$
$270 = 666 - 6 \times 66.$
$271 = 66 + 6 \times 6 \times 6 - 66/6.$
$272 = (6 + 6/6) \times (6 \times 6 + (6 + 6)/6) + 6.$
$273 = 6 - 66 + 6 \times 666/(6 + 6).$
$274 = 6 \times 6 \times 6 - 6 + ((6 + 6)/6)^6.$
$275 = 66 + 6 \times 6 \times 6 - 6 - 6/6.$
$276 = 66 + 6 \times 6 \times 6 - 6.$
$277 = 66 + 6 \times 6 \times 6 - 6 + 6/6.$
$278 = 66 + 6 \times 6 \times 66/(6 + 6 + 6).$
$279 = 6 \times 66 - 6 - 666/6.$
$280 = 6 \times 6 \times 6 + ((6 + 6)/6)^6.$
$281 = 66 + 6 \times 6 \times 6 - 6/6.$
$282 = 66 + 6 \times 6 \times 6.$
$283 = 66 + 6 \times 6 \times 6 + 6/6.$
$284 = 66 + 6 \times 6 \times 6 + (6 + 6)/6.$
$285 = 6 \times 66 - 666/6.$
$286 = 6 \times 6 \times 6 + ((6 + 6)/6)^6 + 6.$
$287 = 6 \times (6 \times 6 + 6 + 6) - 6/6.$
$288 = 6 \times (6 \times 6 + 6 + 6).$
$289 = 6 \times (6 \times 6 + 6 + 6) + 6/6.$
$290 = 6 \times (6 \times 6 + 6 + 6) + (6 + 6)/6.$
$291 = 6 + 6 \times 66 - 666/6.$
$292 = 6 \times 6 \times 6 + 6 + 6 + ((6 + 6)/6)^6.$
$293 = 6 \times (6 \times 6 + 6 + 6) + 6 - 6/6.$
$294 = 6 \times (6 \times 6 + 6 + 6) + 6.$
$295 = 6 \times (6 \times 6 + 6 + 6) + 6 + 6/6.$
$296 = (6 + (6 + 6)/6) \times (6 \times 6 + 6/6).$
$297 = 6 \times 6 \times 66/(6 + (6 + 6)/6).$
$298 = 6 \times (6 \times 6 + 6 + 6) + (66 - 6)/6.$
$299 = 6 \times (6 \times 6 + 6 + 6) + 66/6.$
$300 = (66 - 6) \times (6 - 6/6).$
$301 = (66 - 6) \times (6 - 6/6) + 6/6.$
$302 = (6 + (6 + 6)/6) \times (6 \times 6 + 6/6) + 6.$
$303 = 6 \times 6 \times 66/(6 + (6 + 6)/6) + 6.$
$304 = (6 + (6 + 6)/6) \times (6 \times 6 + (6 + 6)/6).$
$305 = (6 - 6/6) \times (66 - 6 + 6/6).$
$306 = (66 - 6) \times (6 - 6/6) + 6.$
$307 = (66 - 6) \times (6 - 6/6) + 6 + 6/6.$
$308 = 66 + 66 \times 66/(6 + 6 + 6).$
$309 = 66 + (6 \times 6/(6 + 6))(6 - 6/6).$
$310 = (6 - 6/6) \times (66 - 6 + (6 + 6)/6).$
$311 = (6 - 6/6) \times (66 - 6 + 6/6) + 6.$
$312 = 6 \times (((6 + 6)/6)^6 - 6 - 6).$

$313 = 6 \times (66 - 6 - 6) - 66/6.$
$314 = (6 - 6/6) \times ((6 + 6)/6)^6 - 6.$
$315 = 6 \times (666 - 6 \times 6)/(6 + 6).$
$316 = 6 \times (6 \times 6 + 6) + ((6 + 6)/6)^6.$
$317 = 66 + 6 \times (6 \times 6 + 6) - 6/6.$
$318 = 66 + 6 \times (6 \times 6 + 6).$
$319 = 66 + 6 \times (6 \times 6 + 6) + 6/6.$
$320 = (6 - 6/6) \times ((6 + 6)/6)^6.$
$321 = 6 \times 6 \times 6 - 6 + 666/6.$
$322 = 6 \times (66 - 6 - 6) - (6 + 6)/6.$
$323 = 6 \times (66 - 6 - 6) - 6/6.$
$324 = 6 \times (66 - 6 - 6).$
$325 = 6 \times (66 - 6 - 6) + 6/6.$
$326 = (6 - 6/6) \times ((6 + 6)/6)^6 + 6.$
$327 = 6 \times 66 + 6 \times 66/6.$
$328 = 6 \times 6 \times 6 + (666 + 6)/6.$
$329 = 6 \times 66 - 66 - 6/6.$
$330 = 6 \times 66 - 66.$
$331 = 6 \times 66 - 66 + 6/6.$
$332 = 6 \times 66 - ((6 + 6)/6)^6.$
$333 = 6 \times 666/(6 + 6).$
$334 = 6 \times 666/(6 + 6) + 6/6.$
$335 = (6 - 6/6) \times (66 + 6/6).$
$336 = 66 \times (6 - 6/6) + 6.$
$337 = 66 \times (6 - 6/6) + 6 + 6/6.$
$338 = 6 \times 66 + 6 - ((6 + 6)/6)^6.$
$339 = 6 \times 666/(6 + 6) + 6.$
$340 = (6 - 6/6) \times (66 + (6 + 6)/6).$
$341 = (6 - 6/6) \times (66 + 6/6) + 6.$
$342 = 66 \times (6 - 6/6) + 6 + 6.$
$343 = (6 + 6/6)(6 \times 6/(6 + 6)).$
$344 = 6 \times 66 + 6 + 6 - ((6 + 6)/6)^6.$
$345 = 6 \times 666/(6 + 6) + 6 + 6.$
$346 = (6 - 6/6) \times (66 + (6 + 6)/6) + 6.$
$347 = 6 \times (66 - 6) - 6 - 6 - 6/6.$
$348 = 6 \times (66 - 6) - 6 - 6.$
$349 = 6 \times (66 - 6) - 66/6.$
$350 = (6 - 6/6) \times (6 + ((6 + 6)/6)^6).$
$351 = 6 \times (666 + 6 \times 6)/(6 + 6).$
$352 = 6 \times (66 - 6) - 6 - (6 + 6)/6.$
$353 = 6 \times (66 - 6) - 6 - 6/6.$
$354 = 6 \times (66 - 6) - 6.$
$355 = 6 \times (66 - 6) - 6 + 6/6.$
$356 = 6 \times (66 - 6) - 6 + (6 + 6)/6.$
$357 = 66 \times 66/(6 + 6) - 6.$
$358 = 6 \times (66 - 6) - (6 + 6)/6.$
$359 = 6 \times (66 - 6) - 6/6.$
$360 = 6 \times (66 - 6).$
$361 = 6 \times (66 - 6) + 6/6.$
$362 = 6 \times (66 - 6) + (6 + 6)/6.$
$363 = 66 \times 66/(6 + 6).$
$364 = 6 \times (66 - 6) + 6 - (6 + 6)/6.$
$365 = 6 \times (66 - 6) + 6 - 6/6.$
$366 = 6 \times (66 - 6) + 6.$
$367 = 6 \times (66 - 6) + 6 + 6/6.$
$368 = 6 \times (66 - 6) + 6 + (6 + 6)/6.$
$369 = 66 \times 66/(6 + 6) + 6.$
$370 = 6 \times (66 - 6) + (66 - 6)/6.$
$371 = 6 \times (66 - 6) + 66/6.$
$372 = 6 \times (66 - 6) + 6 + 6.$
$373 = 6 \times (66 - 6) + 6 + 6 + 6/6.$
$374 = 66 \times (6 \times 6 - (6 + 6)/6)/6.$
$375 = 66 \times 66/(6 + 6) + 6 + 6.$
$376 = 6 \times (66 - 6) + 6 + (66 - 6)/6.$
$377 = 6 \times (66 - 6) + 6 + 66/6.$
$378 = 6 \times 66 - 6 - 6 - 6.$
$379 = 6 \times 66 - 6 - 66/6.$
$380 = 6 \times 66 - 6 - (66 - 6)/6.$
$381 = 66 \times 66/(6 + 6) + 6 + 6 + 6.$
$382 = 6 \times 66 - 6 - 6 - (6 + 6)/6.$
$383 = 6 \times 66 - 6 - 6 - 6/6.$
$384 = 6 \times ((6 + 6)/6)^6.$
$385 = 6 \times 66 - 66/6.$
$386 = 6 \times 66 - (66 - 6)/6.$
$387 = 6 \times 66 - (66 - 6 - 6)/6.$
$388 = 6 \times 66 - 6 - (6 + 6)/6.$
$389 = 6 \times 66 - 6 - 6/6.$
$390 = 6 \times 66 - 6.$
$391 = 6 \times 66 - 6 + 6/6.$
$392 = 6 \times 66 - 6 + (6 + 6)/6.$
$393 = 6 \times 66 - 6 \times 6/(6 + 6).$
$394 = 6 \times 66 - (6 + 6)/6.$
$395 = 6 \times 66 - 6/6.$
$396 = 6 \times 66.$
$397 = 6 \times 66 + 6/6.$
$398 = 6 \times 66 + (6 + 6)/6.$
$399 = 6 \times 66 + 6 \times 6/(6 + 6).$
$400 = 6 \times 66 + 6 - (6 + 6)/6.$
$401 = 6 \times 66 + 6 - 6/6.$
$402 = 6 \times 66 + 6.$
$403 = 6 + 6 \times 66 + 6/6.$
$404 = 6 + 6 \times 66 + (6 + 6)/6.$
$405 = 6 + 6 \times 66 + 6 \times 6/(6 + 6).$
$406 = 6 \times 66 + (66 - 6)/6.$
$407 = 6 \times 66 + 66/6.$
$408 = 6 \times 66 + 6 + 6.$
$409 = 6 \times 66 + 6 + 6 + 6/6.$
$410 = 6 \times 66 + 6 + 6 + (6 + 6)/6.$
$411 = 6 \times 66 + 6 + 6 + 6 \times 6/(6 + 6).$
$412 = 6 \times 66 + 6 + (66 - 6)/6.$
$413 = 6 \times 66 + 6 + 66/6.$
$414 = 6 \times 66 + 6 + 6 + 6.$
$415 = 6 \times 66 + 6 + 6 + 6 + 6/6.$
$416 = 6 \times 66 + 6 + 6 + 6 + (6 + 6)/6.$
$417 = 6 \times (66 + (6 \times 6 + 6)/(6 + 6)).$
$418 = 6 \times 66 + (66 + 66)/6.$
$419 = 6 \times 66 + 6 + 6 + 66/6.$
$420 = 6 \times (6 + ((6 + 6)/6)^6).$
$421 = 6 \times (66 + 6) - 66/6.$
$422 = 6 \times (66 + 6) + (6 - 66)/6.$
$423 = 66 - 6 + 66 \times 66/(6 + 6).$
$424 = 6 \times (66 - 6) + ((6 + 6)/6)^6.$
$425 = 6 \times (66 + 6) - 6 - 6/6.$
$426 = 6 \times (66 + 6) - 6.$
$427 = 6 \times (66 + 6) - 6 + 6/6.$
$428 = 6 \times (66 + 6) - 6 + (6 + 6)/6.$
$429 = 66 + 66 \times 66/(6 + 6).$
$430 = 6 \times (66 + 6) - (6 + 6)/6.$
$431 = 6 \times (66 + 6) - 6/6.$
$432 = 6 \times (66 + 6).$
$433 = 6 \times (66 + 6) + 6/6.$
$434 = 6 \times (66 + 6) + (6 + 6)/6.$
$435 = 6 \times (66 + 6) + 6 \times 6/(6 + 6).$
$436 = 6 \times (66 + 6) + 6 - (6 + 6)/6.$
$437 = 6 \times (66 + 6) + 6 - 6/6.$
$438 = 6 \times (66 + 6) + 6.$
$439 = 6 \times (66 + 6) + 6 + 6/6.$
$440 = 6 \times (66 + 6) + 6 + (6 + 6)/6.$
$441 = 6 \times (66 + 6) + 6 + 6 \times 6/(6 + 6).$
$442 = 6 \times (66 + 6) + (66 - 6)/6.$
$443 = 6 \times (66 + 6) + 66/6.$
$444 = 6 \times (66 + 6) + 6 + 6.$
$445 = 6 \times (66 + 6) + 6 + 6 + 6/6.$
$446 = 6 \times (66 + 6) + 6 + 6 + (6 + 6)/6.$
$447 = (6 + 6/6) \times ((6 + 6)/6)^6 - 6/6.$
$448 = (6 + 6/6) \times ((6 + 6)/6)^6.$
$449 = 6 \times (66 + 6) + 6 + 66/6.$
$450 = 666 - 6 \times 6 \times 6.$
$451 = 66 + 6 \times 66 - 66/6.$
$452 = 66 + 6 \times 66 - (66 - 6)/6.$
$453 = 66 + 6 \times 66 - (66 - 6 - 6)/6.$
$454 = (6 + 6/6) \times ((6 + 6)/6)^6 + 6.$
$455 = (6/6 + 6) \times (66 - 6/6).$
$456 = 66 + 6 \times 66 - 6.$
$457 = 66 + 6 \times 66 - 6 + 6/6.$
$458 = 66 + 6 \times 66 - 6 + (6 + 6)/6.$
$459 = 66 + 6 \times 66 - 6 \times 6/(6 + 6).$
$460 = 6 \times 66 + ((6 + 6)/6)^6.$
$461 = 66 + 6 \times 66 - 6/6.$
$462 = 66 + 6 \times 66.$
$463 = 66 + 6 \times 66 + 6/6.$
$464 = 66 + 6 \times 66 + (6 + 6)/6.$
$465 = 66 + 6 \times 66 + 6 \times 6/(6 + 6).$
$466 = 6 \times 66 + 6 + ((6 + 6)/6)^6.$
$467 = 6 \times (66 + 6 + 6) - 6/6.$
$468 = 6 \times (66 + 6 + 6).$
$469 = 6 \times (66 + 6 + 6) + 6/6.$
$470 = 6 \times (66 + 6 + 6) + (6 + 6)/6.$
$471 = 6 \times (66 - 6) + 666/6.$
$472 = 6 \times 66 + 6 + 6 + ((6 + 6)/6)^6.$
$473 = 6 \times (66 + 6 + 6) + 6 - 6/6.$
$474 = 6 \times (66 + 6 + 6) + 6.$
$475 = 6 \times (66 + 6 + 6) + 6 + 6/6.$
$476 = (6 + 6/6) \times (66 + (6 + 6)/6).$
$477 = 6 \times (66 - 6) + 6 + 666/6.$
$478 = 6 \times (66 + 6 + 6) + (66 - 6)/6.$
$479 = 6 \times (66 + 6 + 6) + 66/6.$
$480 = 6 \times (66 + 6 + 6) + 6 + 6.$
$481 = (6 + 6 + 6/6) \times (6 \times 6 + 6/6).$
$482 = (6 + 6/6) \times (66 + (6 + 6)/6) + 6.$
$483 = (6 + 6/6) \times (66 + 6 \times 6/(6 + 6)).$
$484 = ((66 + 66)/6)^{((6+6)/6)}.$
$485 = 6 \times (66 + 6 + 6) + 6 + 66/6.$
$486 = 666 - 6 \times (6 \times 6 - 6).$
$487 = (6 + 6 + 6/6) \times (6 \times 6 + 6/6) + 6.$
$488 = (6 + (6 + 6)/6) \times (66 - 6 + 6/6).$
$489 = 666 - 66 - 666/6.$
$490 = (6 + 6/6) \times (6 + ((6 + 6)/6)^6).$
$491 = 6 \times 6 + (6 + 6/6) \times (66 - 6/6).$
$492 = 66 + 6 \times (66 + 6) - 6.$
$493 = (6 + 6) \times (6 \times 6 + 6) - 66/6.$
$494 = (6 + 6) \times (6 \times 6 + 6) - (66 - 6)/6.$
$495 = 6 \times 66 - 6 - 6 + 666/6.$
$496 = ((6 + 6)/6)^6 + 6 \times (66 + 6).$
$497 = 66 + 6 \times (66 + 6) - 6/6.$
$498 = 66 + 6 \times (66 + 6).$
$499 = 66 + 6 \times (66 + 6) + 6/6.$
$500 = 66 + 6 \times (66 + 6) + (6 + 6)/6.$
$501 = 6 \times 66 - 6 + 666/6.$
$502 = (6 + 6) \times (6 \times 6 + 6) - (6 + 6)/6.$
$503 = (6 + 6) \times (6 \times 6 + 6) - 6/6.$
$504 = (6 + 6) \times (6 \times 6 + 6).$
$505 = (6 + 6) \times (6 \times 6 + 6) + 6/6.$
$506 = (6 + 6) \times (6 \times 6 + 6) + (6 + 6)/6.$
$507 = 6 \times 66 + 666/6.$
$508 = 6 \times 66 + (666 + 6)/6.$
$509 = (6 + 6) \times (6 \times 6 + 6) + 6 - 6/6.$
$510 = (6 + 6) \times (6 \times 6 + 6) + 6.$

$511 = (6+6)\times(6\times6+6)+6+6/6.$
$512 = ((6+6)/6)^{(6+6\times6/(6+6))}.$
$513 = 6\times66+6+666/6.$
$514 = 6\times66+6+(666+6)/6.$
$515 = (6+6)\times(6\times6+6)+66/6.$
$516 = (6+6)\times(6\times6+6)+6+6.$
$517 = 66\times(66+6\times6/6)/6.$
$518 = ((6+6)/6)^{(6+6\times6/(6+6))}+6.$
$519 = 6\times66+6+6+666/6.$
$520 = (6+(6+6)/6)\times(66-6/6).$
$521 = (6+6)\times(6\times6+6)+6+66/6.$
$522 = 666-(6+6)\times(6+6).$
$523 = 6+66\times(66+6\times6/6)/6.$
$524 = 6\times66+((6+6)/6)^{(6+6/6)}.$
$525 = (6-6/6)\times(666/6-6).$
$526 = (6+(6+6)/6)\times(66-6/6)+6.$
$527 = 66\times(6+(6+6)/6)-6/6.$
$528 = 66\times(6+(6+6)/6).$
$529 = 66\times(6+(6+6)/6)+6/6.$
$530 = 66\times(6+(6+6)/6)+(6+6)/6.$
$531 = (6-6/6)\times(666/6-6)+6.$
$532 = (6/6+6)\times(6+6+((6+6)/6)^6).$
$533 = 66\times(6+(6+6)/6)+6-6/6.$
$534 = 66\times(6+(6+6)/6)+6.$
$535 = 66\times(6+(6+6)/6)+6+6/6.$
$536 = (6+(6+6)/6)\times(66+6/6).$
$537 = 6\times(66+6)-6+666/6.$
$538 = 666-((6+6)/6)^{(6+6/6)}.$
$539 = (6+6/6)\times(66+66/6).$
$540 = (6+6+6)\times(6\times6-6).$
$541 = (6+6+6)\times(6\times6-6)+6/6.$
$542 = (6+(6+6)/6)\times(66+6/6)+6.$
$543 = 6\times(66+6)+666/6.$
$544 = 666-(666+66)/6.$
$545 = (6+6/6)\times(66+66/6)+6.$
$546 = (6+6+6)\times(6\times6-6)+6.$
$547 = (6+6+6)\times(6\times6-6)+6+6/6.$
$548 = 666-6-(666+6)/6.$
$549 = 666-6-666/6.$
$550 = (6-6/6)\times(666-6)/6.$
$551 = (6+6+6)\times(6\times6-6)+66/6.$
$552 = (6+6+6)\times(6\times6-6)+6+6.$
$553 = (6+6/6)\times(66+6+6+6/6).$
$554 = 666-(666+6)/6.$
$555 = 666-666/6.$
$556 = (6666+6)/(6+6).$
$557 = (6666+6)/(6+6)+6/6.$
$558 = 666-6\times(6+6+6).$
$559 = 666-6\times(6+6+6)+6/6.$
$560 = (6-6/6)\times(666+6)/6.$
$561 = 666\times(6-6/6)/6+6.$
$562 = (6666+6)/(6+6)+6.$
$563 = 666-66-6\times6-6/6.$
$564 = (6+6)\times(66+6\times6/6).$
$565 = (6+6)\times(66+6\times6/6)+6/6.$
$566 = (6-6/6)\times(666+6)/6+6.$
$567 = 666\times(6-6/6)/6+6+6.$
$568 = (6666+6)/(6+6)+6+6.$
$569 = 66+(6+6)\times(6\times6+6)-6/6.$
$570 = 66+(6+6)\times(6\times6+6).$
$571 = 66+(6+6)\times(6\times6+6)+6/6.$
$572 = 66\times(((6+6)/6)^6-6-6)/6.$
$573 = 66+6\times66+666/6.$
$574 = 6\times(66+6\times6-6)-(6+6)/6.$
$575 = 6\times(66+6\times6-6)-6/6.$
$576 = 6\times(66+6\times6-6).$
$577 = 6\times(66+6\times6-6)+6/6.$
$578 = 6\times(66+6\times6-6)+(6+6)/6.$
$579 = 6\times66+6\times6\times66/(6+6).$
$580 = (6-6/6)\times(6+(666-6)/6).$
$581 = 6\times(66+6\times6-6)+6-6/6.$
$582 = 6\times(66+6\times6-6)+6.$
$583 = 6\times(66+6\times6-6)+6+6/6.$
$584 = (6+(6+6)/6)\times(66+6+6/6).$
$585 = (6-6/6)\times(6+666/6).$
$586 = (((6+6)/6)^{(6+6)}+6)/(6+6/6).$
$587 = 666-66-6-6-6/6.$
$588 = 666-66-6-6.$
$589 = 666-66-66/6.$
$590 = 666-66-(66-6)/6.$
$591 = (6-6/6)\times(6+666/6)+6.$
$592 = 6\times6+(6666+6)/(6+6).$
$593 = 666-66-6-6/6.$
$594 = 666-66-6.$
$595 = 666-66-6+6/6.$
$596 = 666-6-((6+6)/6)^6.$
$597 = 666-66-6\times6/(6+6).$
$598 = 666-66-(6+6)/6.$
$599 = 666-66-6/6.$
$600 = 666-66.$
$601 = 666-66+6/6.$
$602 = 666-((6+6)/6)^6.$
$603 = 666-((6+6)/6)^6+6/6.$
$604 = 666-66+6-(6+6)/6.$
$605 = 666-66+6-6/6.$
$606 = 666-66+6.$
$607 = 666-66+6+6/6.$
$608 = 666+6-((6+6)/6)^6.$
$609 = 6\times(66+6\times6)-6\times6/(6+6).$
$610 = 6\times(66+6\times6)-(6+6)/6.$
$611 = 6\times(66+6\times6)-6/6.$
$612 = 6\times(66+6\times6).$
$613 = 6\times(66+6\times6)+6/6.$
$614 = 6\times(66+6\times6)+(6+6)/6.$
$615 = (66\times66-666)/6.$
$616 = 6\times(66+6\times6)+6-(6+6)/6.$
$617 = 6\times(66+6\times6)+6-6/6.$
$618 = 6\times(66+6\times6)+6.$
$619 = 6\times(66+6\times6)+6+6/6.$
$620 = 6\times(66+6\times6)+6+(6+6)/6.$
$621 = 6+(66\times66-666)/6.$
$622 = 66+(6666+6)/(6+6).$
$623 = 6\times(66+6\times6)+66/6.$
$624 = 666-6\times6-6.$
$625 = (6-6/6)^{(6-(6+6)/6)}.$
$626 = (6-6/6)^{(6-(6+6)/6)}+6/6.$
$627 = 666-6-6\times66/(6+6).$
$628 = 666-6\times6-(6+6)/6.$
$629 = 666-6\times6-6/6.$
$630 = 666-6\times6.$
$631 = 666-6\times6+6/6.$
$632 = 666-6\times6+(6+6)/6.$
$633 = 666-6\times66/(6+6).$
$634 = 666-6\times6+6-(6+6)/6.$
$635 = 666-6\times6+6-6/6.$
$636 = 666-6\times6+6.$
$637 = 666-6\times6+6+6/6.$
$638 = 66\times(((6+6)/6)^6-6)/6.$
$639 = 666-6\times66/(6+6)+6.$
$640 = (66-6)\times((6+6)/6)^6/6.$
$641 = 666-66+6\times6/6.$
$642 = 6\times6\times(6+6+6)-6.$
$643 = 6\times6\times(6+6+6)-6+6/6.$
$644 = 666-(66+66)/6.$
$645 = 6\times(6\times6\times6\times6-6)/(6+6).$
$646 = 6\times6\times(6+6+6)-(6+6)/6.$
$647 = 6\times6\times(6+6+6)-6/6.$
$648 = 6\times6\times(6+6+6).$
$649 = 666-6-66/6.$
$650 = 666-6-(66-6)/6.$
$651 = 6\times(6\times6\times6\times6+6)/(6+6).$
$652 = 666-6-6-(6+6)/6.$
$653 = 666-6-6-6/6.$
$654 = 666-6-6.$
$655 = 666-66/6.$
$656 = 666-(66-6)/6.$
$657 = 666-(66-6-6)/6.$
$658 = 666-6-(6+6)/6.$
$659 = 666-6-6/6.$
$660 = 666-6.$
$661 = 666-6+6/6.$
$662 = 666-6+(6+6)/6.$
$663 = 666-6\times6/(6+6).$
$664 = 666-(6+6)/6.$
$665 = 666-6/6.$
$666 = 666.$
$667 = 666+6/6.$
$668 = 666+(6+6)/6.$
$669 = 666+6\times6/(6+6).$
$670 = 666+6-(6+6)/6.$
$671 = 666+6-6/6.$
$672 = 666+6.$
$673 = 666+6+6/6.$
$674 = 666+6+(6+6)/6.$
$675 = 666+6+6\times6/(6+6).$
$676 = 666+(66-6)/6.$
$677 = 666+66/6.$
$678 = 666+6+6.$
$679 = 666+6+6+6/6.$
$680 = 666+6+6+(6+6)/6.$
$681 = 66\times(6+6)-666/6.$
$682 = 666+6+(66-6)/6.$
$683 = 666+6+66/6.$
$684 = 666+6+6+6.$
$685 = 666+6+6+6+6/6.$
$686 = 666+6+6+6+(6+6)/6.$
$687 = (6\times6/(6+6))^6-6\times6-6.$
$688 = 666+(66+66)/6.$
$689 = 666+6+6+66/6.$
$690 = 666+6+6+6+6.$
$691 = 66+6\times66-66/6.$
$692 = 66+6\times66-(66-6)/6.$
$693 = (6\times6/(6+6))^6-6\times6.$
$694 = 666+6+(66+66)/6.$
$695 = 66+6\times66-6-6/6.$
$696 = 66+6\times66-6.$
$697 = 66+6\times66-6+6/6.$
$698 = 66\times((6+6)/6)^6/6-6.$
$699 = (6\times6/(6+6))^6-6\times6+6.$
$700 = 66+6\times66-(6+6)/6.$
$701 = 66+6\times66-6/6.$
$702 = 66+6\times66.$
$703 = 66+6\times66+6/6.$
$704 = 66\times((6+6)/6)^6/6.$
$705 = (66\times((6+6)/6)^6+6)/6.$
$706 = 666+6\times6+6-(6+6)/6.$
$707 = 666+6\times6+6-6/6.$
$708 = 666+6\times6+6.$

$709 = 666 + 6 \times 6 + 6 + 6/6.$
$710 = 66 \times ((6 + 6)/6)^6/6 + 6.$
$711 = (6 \times 6/(6 + 6))^6 - 6 - 6 - 6.$
$712 = 66 + 6 \times 66 + (66 - 6)/6.$
$713 = 66 + 6 \times 66 + 66/6.$
$714 = (6 + 6) \times (66 - 6) - 6.$
$715 = 66 \times (66 - 6/6)/6.$
$716 = (66 \times (66 - 6/6) + 6)/6.$
$717 = (6 \times 6/(6 + 6))^6 - 6 - 6.$
$718 = (6 + 6) \times (66 - 6) - (6 + 6)/6.$
$719 = (6 + 6) \times (66 - 6) - 6/6.$
$720 = (6 + 6) \times (66 - 6).$
$721 = (6 + 6) \times (66 - 6) + 6/6.$
$722 = (6 + 6) \times (66 - 6) + (6 + 6)/6.$
$723 = (6 \times 6/(6 + 6))^6 - 6.$
$724 = (66 \times 66 - 6 - 6)/6.$
$725 = (66 \times 66 - 6)/6.$
$726 = 66 \times 66/6.$
$727 = (66 \times 66 + 6)/6.$
$728 = (6 \times 6/(6 + 6))^6 - 6/6.$
$729 = (6 \times 6/(6 + 6))^6.$
$730 = (6 \times 6/(6 + 6))^6 + 6/6.$
$731 = 6 + (66 \times 66 - 6)/6.$
$732 = 66 + 666.$
$733 = (66 \times 66 + 6)/6 + 6.$
$734 = (66 \times 66 + 6 + 6)/6 + 6.$
$735 = (6 \times 6/(6 + 6))^6 + 6.$
$736 = (6 \times 6/(6 + 6))^6 + 6 + 6/6.$
$737 = 66 \times (66 + 6/6)/6.$
$738 = 666 + 66 + 6.$
$739 = (66 \times 66 + 6)/6 + 6 + 6.$
$740 = (6 \times 6/(6 + 6))^6 + 66/6.$
$741 = (6 \times 6/(6 + 6))^6 + 6 + 6.$
$742 = (6 \times 6/(6 + 6))^6 + 6 + 6 + 6/6.$
$743 = 66 \times (66 + 6/6)/6 + 6.$
$744 = 666 + 66 + 6 + 6.$
$745 = (66 \times 66 + 6)/6 + 6 + 6 + 6.$
$746 = (6 \times 6/(6 + 6))^6 + 6 + 66/6.$
$747 = (6 \times 6/(6 + 6))^6 + 6 + 6 + 6.$
$748 = 66 \times (66 + (6 + 6)/6)/6.$
$749 = 66 \times (66 + 6/6)/6 + 6 + 6.$
$750 = 66 \times (6 + 6) - 6 \times 6 - 6.$
$751 = 66 + 6 \times 6 \times (66 - 6/6)/6.$
$752 = (6 \times 6/(6 + 6))^6 + 6 + 6 + 66/6.$
$753 = (6 \times 6/(6 + 6))^6 + 6 + 6 + 6 + 6.$
$754 = 66 \times (66 + (6 + 6)/6)/6 + 6.$
$755 = 66 \times (6 + 6) - 6 \times 6 - 6/6.$
$756 = 6 \times (66 + 66 - 6).$
$757 = 6 \times (66 + 66 - 6) + 6/6.$
$758 = 6 \times (66 + 66 - 6) + (6 + 6)/6.$
$759 = 6 \times 6 - 6 + (6 \times 6/(6 + 6))^6.$
$760 = 6 \times 6 + (66 \times 66 - 6 - 6)/6.$
$761 = 6 \times 6 + (66 \times 66 - 6)/6.$
$762 = 6 \times (66 + 66 - 6) + 6.$
$763 = 6 \times 6 + (66 \times 66 + 6)/6.$
$764 = 6 \times 6 + (6 \times 6/(6 + 6))^6 - 6/6.$
$765 = 6 \times 6 + (6 \times 6/(6 + 6))^6.$
$766 = 6 \times 6 + (6 \times 6/(6 + 6))^6 + 6/6.$
$767 = (6 + 6) \times ((6 + 6)/6)^6 - 6/6.$
$768 = (6 + 6) \times ((6 + 6)/6)^6.$
$769 = (6 + 6) \times ((6 + 6)/6)^6 + 6/6.$
$770 = (6 + 6/6) \times (666 - 6)/6.$
$771 = 666 - 6 + 666/6.$
$772 = 666 - 6 + (666 + 6)/6.$
$773 = (6+6) \times ((6+6)/6)^6 + 6 - 6/6.$
$774 = (6 + 6) \times ((6 + 6)/6)^6 + 6.$
$775 = 66 \times (6 + 6) - 6 - 66/6.$
$776 = 666 + (666 - 6)/6.$
$777 = 666 + 666/6.$
$778 = 666 + (666 + 6)/6.$
$779 = 66 \times (6 + 6) - 6 - 6 - 6/6.$
$780 = (6 + 6) \times (66 - 6/6).$
$781 = 66 \times (6 + 6) - 66/6.$
$782 = 66 \times (6 + 6) - (66 - 6)/6.$
$783 = 666 + 6 + 666/6.$
$784 = (6 + 6/6) \times (666 + 6)/6.$
$785 = 66 \times (6 + 6) - 6 - 6/6.$
$786 = 66 \times (6 + 6) - 6.$
$787 = 66 \times (6 + 6) - 6 + 6/6.$
$788 = 66 \times (6 + 6) - 6 + (6 + 6)/6.$
$789 = 66 - 6 + (6 \times 6/(6 + 6))^6.$
$790 = 66 \times (6 + 6) - (6 + 6)/6.$
$791 = 66 \times (6 + 6) - 6/6.$
$792 = 66 \times (6 + 6).$
$793 = 66 \times (6 + 6) + 6/6.$
$794 = 66 \times (6 + 6) + (6 + 6)/6.$
$795 = 66 + (6 \times 6/(6 + 6))^6.$
$796 = 66 \times (6 + 6) + 6 - (6 + 6)/6.$
$797 = 66 \times (6 + 6) + 6 - 6/6.$
$798 = 66 \times (6 + 6) + 6.$
$799 = 66 \times (6 + 6) + 6 + 6/6.$
$800 = 66 \times (6 + 6) + 6 + (6 + 6)/6.$
$801 = (6 \times 6/(6 + 6))^6 + 66 + 6.$
$802 = 66 \times (6 + 6) + (66 - 6)/6.$
$803 = 66 \times (6 + 6) + 66/6.$
$804 = 66 \times (6 + 6) + 6 + 6.$
$805 = 66 \times (6 + 6) + 6 + 6 + 6/6.$
$806 = 66 \times (6+6) + 6 + 6 + (6+6)/6.$
$807 = 66 + 6 + 6 + (6 \times 6/(6 + 6))^6.$
$808 = 66 \times (6 + 6) + 6 + (66 - 6)/6.$
$809 = 66 \times (6 + 6) + 6 + 66/6.$
$810 = 66 \times (6 + 6) + 6 + 6 + 6.$
$811 = 66 \times (6 + 6) + 6 + 6 + 6 + 6/6.$
$812 = (6 + 6/6) \times (6 + (666 - 6)/6).$
$813 = 66 + 6 \times 66 + 666/6.$
$814 = 66 \times (66 + 6 + (6 + 6)/6)/6.$
$815 = 66 \times (6 + 6) + 6 + 6 + 66/6.$
$816 = (6 + 6) \times (66 + (6 + 6)/6).$
$817 = 66 + 6 \times 6 \times (6 + 6) - 66/6.$
$818 = (((6 + 6)/6)^{(6+6)} - 6)/(6 - 6/6).$
$819 = (6 + 6/6) \times (6 + 666/6).$
$820 = 66 \times (6 + 6) + 6 + (66 + 66)/6.$
$821 = 66 + 6 \times 6 \times (6 + 6) - 6 - 6/6.$
$822 = 66 + 6 \times 6 \times (6 + 6) - 6.$
$823 = 66 + 6 \times 6 \times (6 + 6) - 6 + 6/6.$
$824 = 6 + (((6 + 6)/6)^{(6+6)} - 6)/(6 - 6/6).$
$825 = (6 + 6/6) \times (6 + 666/6) + 6.$
$826 = 66 + 6 \times 6 \times (6 + 6) - (6 + 6)/6.$
$827 = 66 + 6 \times 6 \times (6 + 6) - 6/6.$
$828 = 6 \times (66 + 66 + 6).$
$829 = 66 + 6 \times 6 \times (6 + 6) + 6/6.$
$830 = 66 + 6 \times 6 \times (6 + 6) + (6 + 6)/6.$
$831 = 66 + 6 \times 6 + (6 \times 6/(6 + 6))^6.$
$832 = (6 + 6 + 6/6) \times ((6 + 6)/6)^6.$
$833 = 66 \times (6 + 6) + 6 \times 6 + 6 - 6/6.$
$834 = 66 \times (6 + 6) + 6 \times 6 + 6.$
$835 = 66 \times (6 + 6) + 6 \times 6 + 6 + 6/6.$
$836 = (66 \times 66 + 666 - 6)/6.$
$837 = (66 \times 66 + 666)/6.$
$838 = (66 \times 66 + 666 + 6)/6.$
$839 = 66 + 6 \times 6 \times (6 + 6) + 66/6.$
$840 = (6 + 6) \times (6 + ((6 + 6)/6)^6).$
$841 = (6 \times 6 - 6 - 6/6)^{((6+6)/6)}.$
$842 = (66 \times (66 + 66/6) + 6)/6 - 6.$
$843 = (66 \times 66 + 666)/6 + 6.$
$844 = 66 \times (6+6) - 6 - 6 + ((6+6)/6)^6.$
$845 = (6 + 6 + 6/6) \times (66 - 6/6).$
$846 = 666 + 6 \times (6 \times 6 - 6).$
$847 = 66 \times (66 + 66/6)/6.$
$848 = (66 \times (66 + 66/6) + 6)/6.$
$849 = (66 \times 66 + 666)/6 + 6 + 6.$
$850 = 66 \times (6 + 6) - 6 + ((6 + 6)/6)^6.$
$851 = (6 + 6 + 6/6) \times (66 - 6/6) + 6.$
$852 = 66 + 66 \times (6 + 6) - 6.$
$853 = 6 \times (6 + 6) \times (6 + 6) - 66/6.$
$854 = (6 + 6/6) \times (666 + 66)/6.$
$855 = 6 \times 6 + (6 + 6/6) \times (6 + 666/6).$
$856 = 66 \times (6 + 6) + ((6 + 6)/6)^6.$
$857 = 66 + 66 \times (6 + 6) - 6/6.$
$858 = 66 + 66 \times (6 + 6).$
$859 = 66 + 66 \times (6 + 6) + 6/6.$
$860 = 66 + 66 \times (6 + 6) + (6 + 6)/6.$
$861 = 66 + (((6/((6 + 6)/6))^6) + 66).$
$862 = 6 \times (6+6) \times (6+6) - (6+6)/6.$
$863 = 6 \times (6 + 6) \times (6 + 6) - 6/6.$
$864 = 6 \times (6 + 6) \times (6 + 6).$
$865 = 6 \times (6 + 6) \times (6 + 6) + 6/6.$
$866 = 6 \times (6+6) \times (6+6) + (6+6)/6.$
$867 = 6 \times (6 + 6) \times (6 + 6) + 6 \times 6/(6 + 6).$
$868 = 6 \times (6 + 6) \times (6 + 6) + 6 - (6 + 6)/6.$
$869 = 6 \times (6 + 6) \times (6 + 6) + 6 - 6/6.$
$870 = 6 \times (6 + 6) \times (6 + 6) + 6.$
$871 = 6 \times (6 + 6) \times (6 + 6) + 6 + 6/6.$
$872 = 6 \times (6 + 6) \times (6 + 6) + 6 + (6 + 6)/6.$
$873 = (6+6) \times (6+6) + (6 \times 6/(6+6))^6.$
$874 = 6 \times (6+6) \times (6+6) + (66-6)/6.$
$875 = 6 \times (6 + 6) \times (6 + 6) + 66/6.$
$876 = 6 \times (6 + 6) \times (6 + 6) + 6 + 6.$
$877 = 6 \times (6+6) \times (6+6) + 6 + 6 + 6/6.$
$878 = 6 \times (6 + 6) \times (6 + 6) + 6 + 6 + (6 + 6)/6.$
$879 = (6 + 6) \times (6 + 6) + 6 + (6 \times 6/(6 + 6))^6.$
$880 = 666 + 6 \times 6 \times 6 - (6 + 6)/6.$
$881 = 666 + 6 \times 6 \times 6 - 6/6.$
$882 = 666 + 6 \times 6 \times 6.$
$883 = 666 + 6 \times 6 \times 6 + 6/6.$
$884 = 666 + 6 \times 6 \times 6 + (6 + 6)/6.$
$885 = (6 - 6/6) \times (66 + 666/6).$
$886 = 666 + 6 \times 6 \times 6 + 6 - (6 + 6)/6.$
$887 = 666 + 6 \times 6 \times 6 + 6 - 6/6.$
$888 = 666 + 6 \times 6 \times 6 + 6.$
$889 = 666 + 6 \times 6 \times 6 + 6 + 6/6.$
$890 = 666 + 6 \times 6 \times 6 + 6 + (6 + 6)/6.$
$891 = (6 - 6/6) \times (66 + 666/6) + 6.$
$892 = 66 + 6 \times 6 \times (6+6) + ((6+6)/6)^6.$
$893 = 666 + 6 \times 66 + 6 \times 6/6.$
$894 = 6 \times ((6 + 6) \times (6 + 6) + 6) - 6.$
$895 = 6666/6 - 6 \times 6 \times 6.$
$896 = (6/6 + 6) \times ((6 + 6)/6)^{(6+6/6)}.$
$897 = 66 \times (6 + 6) - 6 + 666/6.$
$898 = 6 \times ((6 + 6) \times (6 + 6) + 6) - (6 + 6)/6.$
$899 = 6 \times ((6+6) \times (6+6) + 6) - 6/6.$

$900 = 6 \times ((6 + 6) \times (6 + 6) + 6)$.
$901 = 6 \times ((6+6) \times (6+6)+6)+6/6$.
$902 = 6 \times ((6 + 6) \times (6 + 6) + 6) + (6 + 6)/6$.
$903 = 66 \times (6 + 6) + 666/6$.
$904 = 66 \times (6 + 6) + (666 + 6)/6$.
$905 = 6 \times ((6 + 6) \times (6 + 6) + 6) + 6 - 6/6$.
$906 = 6 \times ((6 + 6) \times (6 + 6) + 6) + 6$.
$907 = 6 \times ((6 + 6) \times (6 + 6) + 6) + 6 + 6/6$.
$908 = 6 \times ((6 + 6) \times (6 + 6) + 6) + 6 + (6 + 6)/6$.
$909 = 66 \times (6 + 6) + 6 + 666/6$.
$910 = (6 + 6/6) \times (66 + ((6 + 6)/6)^6)$.
$911 = 6 \times ((6+6) \times (6+6)+6)+66/6$.
$912 = 6 \times ((6+6) \times (6+6)+6)+6+6$.
$913 = 66 \times (66 + 6 + 66/6)/6$.
$914 = 66 \times (6 + 6) + (666 + 66)/6$.
$915 = 66 \times (6 + 6) + 6 + 6 + 666/6$.
$916 = (6+6/6) \times (66+((6+6)/6)^6)+6$.
$917 = 666 + 6 \times (6 \times 6 + 6) - 6/6$.
$918 = 666 + 6 \times (6 \times 6 + 6)$.
$919 = 666 + 6 \times (6 \times 6 + 6) + 6/6$.
$920 = 666+6 \times (6 \times 6+6)+(6+6)/6$.
$921 = 66 \times (6+6)+6+6+6+666/6$.
$922 = 66+66 \times (6+6)+((6+6)/6)^6$.
$923 = (6 + 6 + 6/6) \times (66 + 6 - 6/6)$.
$924 = 66 \times (6 + 6 + (6 + 6)/6)$.
$925 = 66 \times (6 + 6 + (6 + 6)/6) + 6/6$.
$926 = 66 \times (6 + 6 + (6 + 6)/6) + (6 + 6)/6$.
$927 = 66+66+66+(6 \times 6/(6+6))^6$.
$928 = 6 \times (6+6) \times (6+6)+((6+6)/6)^6$.
$929 = 66+6 \times (6+6) \times (6+6)-6/6$.
$930 = 66 + 6 \times (6 + 6) \times (6 + 6)$.
$931 = 66+6 \times (6+6) \times (6+6)+6/6$.
$932 = 66 + 6 \times (6 + 6) \times (6 + 6) + (6 + 6)/6$.
$933 = 6 \times 6 \times 6-6-6+(6 \times 6/(6+6))^6$.
$934 = (6+6) \times (66+6+6)-(6+6)/6$.
$935 = (6 + 6) \times (66 + 6 + 6) - 6/6$.
$936 = (6 + 6) \times (66 + 6 + 6)$.
$937 = (6 + 6) \times (66 + 6 + 6) + 6/6$.
$938 = (6+6) \times (66+6+6)+(6+6)/6$.
$939 = 6 \times 6 \times 6+(6 \times 6/(6+6))^6-6$.
$940 = (6 + 6) \times (66 + 6 + 6) + 6 - (6 + 6)/6$.
$941 = (6+6) \times (66+6+6)+6-6/6$.
$942 = (6 + 6) \times (66 + 6 + 6) + 6$.
$943 = (6+6) \times (66+6+6)+6+6/6$.
$944 = (6 + 6) \times (66 + 6 + 6) + 6 + (6 + 6)/6$.
$945 = 6 \times 6 \times 6 + (6 \times 6/(6 + 6))^6$.
$946 = 6 \times 6 \times 6+(6 \times 6/(6+6))^6+6/6$.
$947 = (6 + 6) \times (66 + 6 + 6) + 66/6$.
$948 = (6 + 6) \times (66 + 6 + 6) + 6 + 6$.
$949 = (6 + 6 + 6/6) \times (66 + 6 + 6/6)$.
$950 = (6 \times 6 - 66/6) \times (6 \times 6 + (6 + 6)/6)$.
$951 = 6 \times 6 \times 6+6+(6 \times 6/(6+6))^6$.
$952 = 6 \times 66 + (6666 + 6)/(6 + 6)$.
$953 = (6+6) \times (66+6+6)+6+66/6$.
$954 = 666 + 6 \times (6 \times 6 + 6 + 6)$.
$955 = (6 \times 6 - 6 + 6/6)^{((6+6)/6)} - 6$.
$956 = (6 \times 6 - 66/6) \times (6 \times 6 + (6 + 6)/6) + 6$.
$957 = 66 \times (6 \times (6 \times 6-6)-6)/(6+6)$.
$958 = ((6 + 6)/6)^{((66-6)/6)} - 66$.
$959 = (6+6/6) \times (66+66+6-6/6)$.
$960 = (66 - 6) \times (6 + (66 - 6)/6)$.
$961 = (6 \times 6 - 6 + 6/6)^{((6+6)/6)}$.
$962 = (6 \times 6 - 6 + 6/6)^{((6+6)/6)} + 6/6$.
$963 = 66 \times (6 \times (6 \times 6 - 6) - 6)/(6 + 6) + 6$.
$964 = ((6 + 6)/6)^{((66-6)/6)} - 66 + 6$.
$965 = 66 + 6 \times (6 + 6) \times (6 + 6) + 6 - 6/6$.
$966 = 66 + 6 \times (6 + 6) \times (6 + 6) + 6$.
$967 = (6 \times 6 - 6 + 6/6)^{((6+6)/6)} + 6$.
$968 = 66 \times (66 + (66 + 66)/6)/6$.
$969 = 6 \times 6 \times (6 \times 6 - 6) - 666/6$.
$970 = 6 \times 6 \times (6 \times 6-6)-(666-6)/6$.
$971 = (6+6+6) \times (66-6-6)-6/6$.
$972 = (6 + 6 + 6) \times (66 - 6 - 6)$.
$973 = (6+6+6) \times (66-6-6)+6/6$.
$974 = (6 + 6 + 6) \times (66 - 6 - 6) + (6 + 6)/6$.
$975 = 6 \times (6 + 6) \times (6 + 6) + 666/6$.
$976 = (666 + 66) \times (6 + (6 + 6)/6)/6$.
$977 = (6 + 6 + 6) \times (66 - 6 - 6) + 6 - 6/6$.
$978 = (6 + 6 + 6) \times (66 - 6 - 6) + 6$.
$979 = 6666/6 - 66 - 66$.
$980 = (6 \times 6-6/6) \times (6+(66+66)/6)$.
$981 = 6 \times (6 \times 6+6)+(6 \times 6/(6+6))^6$.
$982 = ((6 + 6)/6)^{((66-6)/6)} - 6 \times 6 - 6$.
$983 = (6+6+6) \times (66-6-6)+66/6$.
$984 = (6+6+6) \times (66-6-6)+6+6$.
$985 = 6 - 66 - 66 + 6666/6$.
$986 = (6 + 66/6) \times (((6 + 6)/6)^6 - 6)$.
$987 = 6 \times (66 \times (6 \times 6-6)-6)/(6+6)$.
$988 = ((6 + 6)/6)^{((66-6)/6)} - 6 \times 6$.
$989 = 666 + 6 \times (66 - 6 - 6) - 6/6$.
$990 = 666 + 6 \times (66 - 6 - 6)$.
$991 = 666 + 6 \times (66 - 6 - 6) + 6/6$.
$992 = (6+66/6) \times (((6+6)/6)^6-6)+6$.
$993 = 6 \times (66 \times (6 \times 6-6)+6)/(6+6)$.
$994 = ((66 - 6)/6)^{(6 \times 6/(6 + 6))} - 6$.
$995 = 666 + 6 \times 66 - 66 - 6/6$.
$996 = (6 + 6) \times (66 + 6 + 66/6)$.
$997 = 6 \times 6+(6 \times 6-6+6/6)^{((6+6)/6)}$.
$998 = 666 + 6 \times 66 - ((6 + 6)/6)^6$.
$999 = 6 \times 666/(6 - (6 + 6)/6)$.
$1000 = ((66 - 6)/6)^{(6 \times 6/(6 + 6))}$.

10. Representations Using Number 7

$101 = 7777/77$.
$102 = 77 + 7 + 7 + 77/7$.
$103 = (777 - 7)/7 - 7$.
$104 = 777/7 - 7$.
$105 = 7 \times (7 + 7) + 7$.
$106 = 7 \times (7 + 7) + 7 + 7/7$.
$107 = (777 - 77)/7 + 7$.
$108 = 7777/77 + 7$.
$109 = (777 - 7 - 7)/7$.
$110 = (777 - 7)/7$.
$111 = 777/7$.
$112 = (777 + 7)/7$.
$113 = (7 + 7 + 777)/7$.
$114 = ((7 + 7)/7)^7 - 7 - 7$.
$115 = (777 + 77)/7 - 7$.
$116 = 7 \times (7 + 7) + 7 + 77/7$.
$117 = (777 - 7)/7 + 7$.
$118 = 7 + 777/7$.
$119 = 7 \times 7 + 77 - 7$.
$120 = 77 + 7 \times 7 - 7 + 7/7$.
$121 = ((7 + 7)/7)^7 - 7$.
$122 = (777 + 77)/7$.
$123 = (777 + 77 + 7)/7$.
$124 = 7 + 7 + (777 - 7)/7$.
$125 = 7 + 7 + 777/7$.
$126 = 7 \times 7 + 77$.
$127 = 77 + 7 \times 7 + 7/7$.
$128 = ((7 + 7)/7)^7$.
$129 = 7 + (777 + 77)/7$.
$130 = ((7 + 7)/7)^7 + (7 + 7)/7$.
$131 = 7 + 7 + 7 + (777 - 7)/7$.
$132 = 7 + 7 + 7 + 777/7$.
$133 = 7 \times 7 + 77 + 7$.
$134 = 77 + 7 \times 7 + 7 + 7/7$.
$135 = 7 + ((7 + 7)/7)^7$.
$136 = 7 + 7/7 + ((7 + 7)/7)^7$.
$137 = 7 \times 7 + 77 + 77/7$.
$138 = 7 \times 7 + 77 + (77 + 7)/7$.
$139 = 7 \times (7 + 7 + 7) - 7 - 7/7$.
$140 = 7 \times (7 + 7 + 7) - 7$.
$141 = ((7 + 7) \times (77 - 7) + 7)/7$.
$142 = 7 + 7 + ((7 + 7)/7)^7$.
$143 = 77 + 77 - 77/7$.
$144 = (7 + 7/7) \times (7 + 77/7)$.
$145 = 7 \times (7 + 7 + 7) - (7 + 7)/7$.
$146 = 7 \times (7 + 7 + 7) - 7/7$.
$147 = 7 \times (7 + 7 + 7)$.
$148 = 7 \times (7 + 7 + 7) + 7/7$.
$149 = 7 \times (7 + 7 + 7) + (7 + 7)/7$.
$150 = 777 + 7 \times 77/77$.
$151 = 7 + (7 + 77/7) \times (7 + 7/7)$.
$152 = 77 + 77 - (7 + 7)/7$.
$153 = 77 + 77 - 7/7$.
$154 = 77 + 77$.
$155 = 77 + 77 + 7/7$.
$156 = 77 + 77 + (7 + 7)/7$.
$157 = 77 + 77 + (7 + 7 + 7)/7$.
$158 = 7 \times (7 + 7 + 7) + 77/7$.
$159 = 7 \times 7 + (777 - 7)/7$.
$160 = 777 + 7 \times 7/7$.
$161 = 77 + 77 + 7$.
$162 = 77 + 77 + 7 + 7/7$.
$163 = 7 + (7 + 7) \times (77 + 7/7)/7$.
$164 = 77 + 77 + (77 - 7)/7$.
$165 = 77 \times (7 + 7 + 7/7)/7$.
$166 = 7 \times 7 + 7 + (777 - 7)/7$.
$167 = 7 \times 7 + 7 + 777/7$.
$168 = 77 + 77 + 7 + 7$.
$169 = 77 + 77 + 7 + 7 + 7/7$.

$170 = 7 \times 7 - 7 + ((7 + 7)/7)^7.$
$171 = 7 \times 7 + (777 + 77)/7.$
$172 = 77 + 77 + 7 + 77/7.$
$173 = 77 + 7 \times (7 + 7) + (7 + 7)/7.$
$174 = 77 + 7 \times (7 + 7) - 7/7.$
$175 = 77 + 7 \times (7 + 7).$
$176 = 77 + 7 \times (7 + 7) + 7/7.$
$177 = 7 \times 7 + ((7 + 7)/7)^7.$
$178 = 77 + 7777/77.$
$179 = ((7 + 7)/7)^{(7+7/7)} - 77.$
$180 = 77 - 7 + (777 - 7)/7.$
$181 = 77 - 7 + 777/7.$
$182 = 77 + 7 + 7 \times (7 + 7).$
$183 = 7 \times (7 + 7) + 77 + 7 + 7/7.$
$184 = 7 \times 7 + 7 + ((7 + 7)/7)^7.$
$185 = (7 + 7) \times (7 + 7) - 77/7.$
$186 = (7 + 7) \times (7 + 7) - (77 - 7)/7.$
$187 = 77 + (777 - 7)/7.$
$188 = 77 + 777/7.$
$189 = (7 + 7) \times (7 + 7) - 7.$
$190 = (7 + 7) \times (7 + 7) - 7 + 7/7.$
$191 = 77 + ((7 + 7)/7)^7 - 7 - 7.$
$192 = (7 \times 7 - 7/7) \times (77/7 - 7).$
$193 = (7+7) \times (7+7) - (7+7+7)/7.$
$194 = (7 + 7) \times (7 + 7) - (7 + 7)/7.$
$195 = (7 + 7) \times (7 + 7) - 7/7.$
$196 = (7 + 7) \times (7 + 7).$
$197 = (7 + 7) \times (7 + 7) + 7/7.$
$198 = 77/7 \times (7 + 77/7).$
$199 = 77 + (777 + 77)/7.$
$200 = (7 + 7) \times (7 + 7) + 77/7 - 7.$
$201 = (7+7) \times (7+7) + 7 - (7+7)/7.$
$202 = (7 + 7) \times (7 + 7) + 7 - 7/7.$
$203 = (7 + 7) \times (7 + 7) + 7.$
$204 = (7 + 7) \times (7 + 7) + 7 + 7/7.$
$205 = 77 + ((7 + 7)/7)^7.$
$206 = (7 + 7) \times (7 + 7) + (77 - 7)/7.$
$207 = (7 + 7) \times (7 + 7) + 77/7.$
$208 = 7 \times (7 + 7) + (777 - 7)/7.$
$209 = 7 \times (7 + 7) + 777/7.$
$210 = (7 + 7) \times (7 + 7 + 7/7).$
$211 = (7+7) \times (7+7) + 7 + 7 + 7/7.$
$212 = 77 + ((7 + 7)/7)^7 + 7.$
$213 = 7 \times (7 + 7 + 7) + 77 - 77/7.$
$214 = (7 + 7) \times (7 + 7) + 7 + 77/7.$
$215 = 7 \times 7 \times 7 - ((7 + 7)/7)^7.$
$216 = (7 - 7/7)^{((7+7+7)/7)}.$
$217 = 7 \times (7 \times 7 - 7) - 77.$
$218 = 7 \times (7 \times 7 - 7) - 77 + 7/7.$
$219 = 77 + 7 + 7 + ((7 + 7)/7)^7.$
$220 = 77 \times (7 + 7 + 7 - 7/7)/7.$
$221 = 77 + (7 + 77/7) \times (7 + 7/7).$
$222 = 777 \times (7 + 7)/(7 \times 7).$
$223 = 77 + 7 \times (7 + 7 + 7) - 7/7.$
$224 = 77 + 7 \times (7 + 7 + 7).$
$225 = (7 + 7 + 7/7)^{((7+7)/7)}.$
$226 = 7 \times (7 + 7) + ((7 + 7)/7)^7.$
$227 = 7 \times (7 \times 7 - 7 - 7) - 7 - 77/7.$
$228 = (7 \times 7 - 77/7) \times (7 - 7/7).$
$229 = (7 + 7) \times 777/(7 \times 7) + 7.$
$230 = (77 \times (7 + 7 + 7) - 7)/7.$
$231 = 77 + 77 + 77.$
$232 = 7 \times 7 \times 7 - 777/7.$
$233 = 7 \times 7 \times 7 - (777 - 7)/7.$
$234 = (7 + 7 + 7)/7 \times (77 + 7/7).$
$235 = 7 \times (7 + 7 + 7) + 77 + 77/7.$
$236 = (7 + 7) \times (7 + 777/7)/7.$
$237 = (777 - 7/7) - 7 \times 77.$
$238 = 777 - 77 \times 7.$
$239 = 777 - 77 \times 7 + 7/7.$
$240 = (7 - (7 + 7)/7) \times (7 \times 7 - 7/7).$
$241 = (7 - 7/7) \times (7 \times 7 - 7) - 77/7.$
$242 = 77 \times (7 + 7 + 7 + 7/7)/7.$
$243 = 7 \times (7 \times 7 - 7 - 7) - (7 + 7)/7.$
$244 = 7 \times (7 \times 7 - 7 - 7) - 7/7.$
$245 = 7 \times (7 \times 7 - 7 - 7).$
$246 = 7 \times (7 \times 7 - 7 - 7) + 7/7.$
$247 = 7 \times (7 \times 7 - 7 - 7) + (7 + 7)/7.$
$248 = 77 + (7 \times 7 \times 7 \times 7 - 7)/(7 + 7).$
$249 = ((7 + 7)/7)^{(7+7/7)} - 7.$
$250 = (7 \times 7 + 7/7) \times (7 - (7 + 7)/7).$
$251 = 7 \times (7 \times 7 - 7 - 7) + 7 - 7/7.$
$252 = (7 + 7) \times (7 + 77/7).$
$253 = 7 \times (7 \times 7 - 7 - 7) + 7 + 7/7.$
$254 = 7 \times 7 + 77 + ((7 + 7)/7)^7.$
$255 = 7 \times 7 \times 7 - 77 - 77/7.$
$256 = ((7 + 7)/7)^{(7+7/7)}.$
$257 = ((7 + 7)/7)^{(7+7/7)} + 7/7.$
$258 = (7 - 7/7) \times (7 \times 7 - 7 + 7/7).$
$259 = 7 \times 7 \times 7 - 77 - 7.$
$260 = 7 \times 7 \times 7 - 77 - 7 + 7/7.$
$261 = 7 \times 7 \times 7 - 77 - 7 + (7 + 7)/7.$
$262 = 7 \times 7 \times 7 - 77 + 7 - 77/7.$
$263 = 7 + ((7 + 7)/7)^{(7+7/7)}.$
$264 = 7 \times 7 \times 7 - 77 - (7 + 7)/7.$
$265 = 7 \times 7 \times 7 - 77 - 7/7.$
$266 = 7 \times 7 \times 7 - 77.$
$267 = 7 \times 7 \times 7 - 77 + 7/7.$
$268 = 7 \times 7 \times 7 - 77 + (7 + 7)/7.$
$269 = 7 \times (7 \times 77 - 7/7)/(7 + 7).$
$270 = (7 + 7 + 7/7) \times (7 + 77/7).$
$271 = 7 \times 7 \times 7 + 7 - 77 - (7 + 7)/7.$
$272 = 7 \times 7 \times 7 - 77 + 7 - 7/7.$
$273 = 7 \times 7 \times 7 - 77 + 7.$
$274 = 7 \times 7 \times 7 - 77 + 7 + 7/7.$
$275 = (7 + 7 + 77/7) \times 77/7.$
$276 = 7 \times (7 \times 7 - 7) - 7 - 77/7.$
$277 = 7 \times 7 \times 7 - 77 + 77/7.$
$278 = 7 \times 7 \times 7 - 77 + (77 + 7)/7.$
$279 = 7 \times (7 \times 7 - 7) - 7 - 7 - 7/7.$
$280 = 7 \times (7 \times 7 - 7) - 7 - 7.$
$281 = 7 \times (7 \times 7 - 7) - 7 - 7 + 7/7.$
$282 = (7 \times 7 - (7 + 7)/7) \times (7 - 7/7).$
$283 = 7 \times (7 \times 7 - 7) - 77/7.$
$284 = 7 \times (7 \times 7 - 7) - (77 - 7)/7.$
$285 = 7 \times (7 \times 7 - 7) - 7 - (7 + 7)/7.$
$286 = 7 \times (7 \times 7 - 7) - 7 - 7/7.$
$287 = 7 \times (7 \times 7 - 7) - 7.$
$288 = 7 \times (7 \times 7 - 7) - 7 + 7/7.$
$289 = 7 \times (7 \times 7 - 7) - 7 + (7 + 7)/7.$
$290 = 7 \times (7 \times 7 - 7) + 7 - 77/7.$
$291 = 7 \times (7 \times 7 - 7) - (7 + 7 + 7)/7.$
$292 = 7 \times (7 \times 7 - 7) - (7 + 7)/7.$
$293 = 7 \times (7 \times 7 - 7) - 7/7.$
$294 = 7 \times (7 \times 7 - 7).$
$295 = 7 \times (7 \times 7 - 7) + 7/7.$
$296 = 7 \times (7 \times 7 - 7) + (7 + 7)/7.$
$297 = 7 \times (7 \times 7 - 7) + (7 + 7 + 7)/7.$
$298 = 7 \times (7 \times 7 - 7) - 7 + 77/7.$
$299 = 7 \times (7 \times 7 - 7) + 7 - (7 + 7)/7.$
$300 = 7 \times (7 \times 7 - 7) + 7 - 7/7.$
$301 = 7 \times (7 \times 7 - 7) + 7.$
$302 = 7 \times (7 \times 7 - 7) + 7 + 7/7.$
$303 = 7 \times (7 \times 7 - 7) + 7 + (7 + 7)/7.$
$304 = (7 \times 7 - 77/7) \times (7 + 7/7).$
$305 = 7 \times (7 \times 7 - 7) + 77/7.$
$306 = 7 \times (7 \times 7 - 7) + (77 + 7)/7.$
$307 = 7 \times (7 \times 7 - 7) + 7 + 7 - 7/7.$
$308 = 77 \times (77/7 - 7).$
$309 = 7 \times (7 \times 7 - 7) + 7 + 7 + 7/7.$
$310 = 7 \times (7 \times 7 - 7) + 7 + 7 + (7 + 7)/7.$
$311 = 7 \times 7 \times 7 - 7 - 7 - 7 - 77/7.$
$312 = 7 \times (7 \times 7 - 7) + 7 + 77/7.$
$313 = 7 \times (7 \times 7 - 7) + 7 + (77 + 7)/7.$
$314 = 7 \times (7 \times 7 + 7) - 77 - 7/7.$
$315 = 7 \times (7 \times 7 + 7) - 77.$
$316 = 7 \times (7 \times 7 + 7) - 77 + 7/7.$
$317 = (7 + 77/7)^{((7+7)/7)} - 7.$
$318 = 7 \times 7 \times 7 - 7 - 7 - 77/7.$
$319 = 7 \times 7 \times 7 - 7 - 7 - (77 - 7)/7.$
$320 = (7 + 7/7) \times (7 \times 7 - 7 - (7 + 7)/7).$
$321 = 7 \times 7 \times 7 - (77 + 77)/7.$
$322 = 7 \times 7 \times 7 - 7 - 7 - 7.$
$323 = 7 \times 7 \times 7 - 7 - 7 - 7 + 7/7.$
$324 = (77/7 + 7)^{((7+7)/7)}.$
$325 = 7 \times 7 \times 7 - 7 - 77/7.$
$326 = 7 \times 7 \times 7 - 7 - (77 - 7)/7.$
$327 = 7 \times 7 \times 7 - 7 - 7 - (7 + 7)/7.$
$328 = 7 \times 7 \times 7 - 7 - 7 - 7/7.$
$329 = 7 \times 7 \times 7 - 7 - 7.$
$330 = 7 \times 7 \times 7 - 7 - 7 + 7/7.$
$331 = 7 \times 7 \times 7 - (77 + 7)/7.$
$332 = 7 \times 7 \times 7 - 77/7.$
$333 = 7 \times 7 \times 7 - (77 - 7)/7.$
$334 = 7 \times 7 \times 7 - 7 - (7 + 7)/7.$
$335 = 7 \times 7 \times 7 - 7 - 7/7.$
$336 = 7 \times 7 \times 7 - 7.$
$337 = 7 \times 7 \times 7 - 7 + 7/7.$
$338 = 7 \times 7 \times 7 - 7 + (7 + 7)/7.$
$339 = 7 \times 7 \times 7 + 7 - 77/7.$
$340 = 7 \times 7 \times 7 - (7 + 7 + 7)/7.$
$341 = 7 \times 7 \times 7 - (7 + 7)/7.$
$342 = 7 \times 7 \times 7 - 7/7.$
$343 = 7 \times 7 \times 7.$
$344 = 7 \times 7 \times 7 + 7/7.$
$345 = 7 \times 7 \times 7 + (7 + 7)/7.$
$346 = 7 \times 7 \times 7 + (7 + 7 + 7)/7.$
$347 = 7 \times 7 \times 7 - 7 + 77/7.$
$348 = 7 \times 7 \times 7 + 7 - (7 + 7)/7.$
$349 = 7 \times 7 \times 7 + 7 - 7/7.$
$350 = 7 \times 7 \times 7 + 7.$
$351 = 7 \times 7 \times 7 + 7 + 7/7.$
$352 = 7 \times 7 \times 7 + 7 + (7 + 7)/7.$
$353 = 7 \times 7 \times 7 + (77 - 7)/7.$
$354 = 7 \times 7 \times 7 + 77/7.$
$355 = 7 \times 7 \times 7 + (77 + 7)/7.$
$356 = 7 \times 7 \times 7 + 7 + 7 - 7/7.$
$357 = 7 \times 7 \times 7 + 7 + 7.$
$358 = 7 \times 7 \times 7 + 7 + 7 + 7/7.$
$359 = 7 \times 7 \times 7 + 7 + 7 + (7 + 7)/7.$
$360 = (7 \times 7 + 77/7) \times (7 - 7/7).$
$361 = 7 \times 7 \times 7 + 7 + 77/7.$
$362 = 7 \times 7 \times 7 + 7 + (77 + 7)/7.$
$363 = 7 \times 7 \times 7 + 7 + 7 + 7 - 7/7.$
$364 = 7 \times 7 \times 7 + 7 + 7 + 7.$
$365 = 7 \times 7 \times 7 + (77 + 77)/7.$
$366 = 7 \times 7 \times 7 + 7 + 7 + 7 + (7 + 7)/7.$
$367 = 7 \times 7 \times 7 + 7 + 7 + (77 - 7)/7.$

$368 = 7 \times 7 \times 7 + 7 + 7 + 77/7.$
$369 = 7 \times 7 \times 7 + 7 + 7 + (77 + 7)/7.$
$370 = 7 \times (7 \times 7 - 7) + 77 - 7/7.$
$371 = 7 \times (7 \times 7 - 7) + 77.$
$372 = 7 \times (7 \times 7 - 7) + 77 + 7/7.$
$373 = 7 \times (7 \times 7 + 7) - 7 - (77 + 7)/7.$
$374 = 7 \times (7 \times 7 + 7) - 7 - 77/7.$
$375 = 7 \times 7 \times 7 + 7 + 7 + 7 + 77/7.$
$376 = (7 \times 7 - (7 + 7)/7) \times (7 + 7/7).$
$377 = 7 \times (7 \times 7 + 7) - 7 - 7 - 7/7.$
$378 = 7 \times (7 \times 7 + 7) - 7 - 7.$
$379 = 7 \times (7 \times 7 + 7) - 7 - 7 + 7/7.$
$380 = (7 - (7 + 7)/7) \times (77 - 7/7).$
$381 = 7 \times (7 \times 7 + 7) - 77/7.$
$382 = 7 \times (7 \times 7 + 7) - (77 - 7)/7.$
$383 = 7 \times (7 \times 7 + 7) - 7 - (7 + 7)/7.$
$384 = 7 \times (7 \times 7 + 7) - 7 - 7/7.$
$385 = 7 \times (7 \times 7 + 7) - 7.$
$386 = 7 \times (7 \times 7 + 7) - 7 + 7/7.$
$387 = 7 \times (7 \times 7 + 7) - 7 + (7 + 7)/7.$
$388 = 7 \times (7 \times 7 + 7) + 7 - 77/7.$
$389 = 7 \times (7 \times 7 + 7) - (7 + 7 + 7)/7.$
$390 = 7 \times (7 \times 7 + 7) - (7 + 7)/7.$
$391 = 7 \times (7 \times 7 + 7) - 7/7.$
$392 = 7 \times (7 \times 7 + 7).$
$393 = 7 \times (7 \times 7 + 7) + 7/7.$
$394 = 7 \times (7 \times 7 + 7) + (7 + 7)/7.$
$395 = 7 \times (7 \times 7 + 7) + (7 + 7 + 7)/7.$
$396 = 7 \times (7 \times 7 + 7) - 7 + 77/7.$
$397 = 7 \times (7 \times 7 + 7) + 7 - (7 + 7)/7.$
$398 = 7 \times (7 \times 7 + 7) + 7 - 7/7.$
$399 = 7 \times (7 \times 7 + 7) + 7.$
$400 = 7 \times (7 \times 7 + 7) + 7 + 7/7.$
$401 = 7 \times (7 \times 7 + 7) + (7 + 7)/7 + 7.$
$402 = 7 \times (7 \times 7 + 7) + (77 - 7)/7.$
$403 = 7 \times (7 \times 7 + 7) + 77/7.$
$404 = 7 \times (7 \times 7 + 7) + (77 + 7)/7.$
$405 = 7 \times (7 \times 7 + 7) + 7 + 7 - 7/7.$
$406 = 7 \times (7 \times 7 + 7) + 7 + 7.$
$407 = 7 \times (7 \times 7 + 7) + 7 + 7 + 7/7.$
$408 = (7 \times 7 + (7 + 7)/7) \times (7 + 7/7).$
$409 = 7 \times 7 \times 7 + 77 - 77/7.$
$410 = 7 \times (7 \times 7 + 7) + 7 + 77/7.$
$411 = 7 \times 77 - ((7 + 7)/7)^7.$
$412 = 7 \times 7 \times 7 - 7 + 77 - 7/7.$
$413 = 7 \times (77 - 7) - 77.$
$414 = 7 \times (77 - 7) - 77 + 7/7.$
$415 = (77 + 7 - 7/7) \times (7 - (7 + 7)/7).$
$416 = (77 \times 77 - 7)/(7 + 7) - 7.$
$417 = 77 \times 7 - (777 + 77)/7.$
$418 = 77/7 \times (7 \times 7 - 77/7).$
$419 = 7 \times 7 \times 7 + 77 - 7/7.$
$420 = 7 \times 7 \times 7 + 77.$
$421 = 7 \times 7 \times 7 + 77 + 7/7.$
$422 = 7 \times 7 \times 7 + 77 + (7 + 7)/7.$
$423 = 7 \times 7 \times 7 + 77 + (7 + 7 + 7)/7.$
$424 = 7 \times (77 - 7) - 77 + 77/7.$
$425 = 7 + 7 \times 7 \times 7 + 77 - (7 + 7)/7.$
$426 = 7 \times 7 \times 7 + 77 + 7 - 7/7.$
$427 = 7 \times 7 \times 7 + 77 + 7.$
$428 = 77 \times 7 - 777/7.$
$429 = 77 \times 7 - (777 - 7)/7.$
$430 = 7 \times (7 \times 7 + 7 + 7) - 77/7.$
$431 = 7 \times 7 \times 7 + 77 + 77/7.$
$432 = (7 \times 7 - 7/7) \times (7 + (7 + 7)/7).$
$433 = 7 \times (77 - 7 - 7) - 7 - 7/7.$
$434 = 7 \times (77 - 7 - 7) - 7.$
$435 = 7 \times 77 - (777/7 - 7).$
$436 = 7 \times 77 + 7 - (777 - 7)/7.$
$437 = 7 \times (77 - 7 - 7) + 7 - 77/7.$
$438 = 7 \times 7 \times 7 + 77 + 7 + 77/7.$
$439 = 7 \times (77 - 7 - 7) - (7 + 7)/7.$
$440 = 7 \times (77 - 7 - 7) - 7/7.$
$441 = 7 \times (77 - 7 - 7).$
$442 = 7 \times (77 - 7) - 7 \times 7 + 7/7.$
$443 = 7 \times (77 - 7 - 7) + (7 + 7)/7.$
$444 = 777 \times (77/7 - 7)/7.$
$445 = 7 \times (77 - 7 - 7) - 7 + 77/7.$
$446 = (7 \times 7 + 7) \times (7 + 7/7) - (7 + 7)/7.$
$447 = 7 \times (77 - 7 - 7) + 7 - 7/7.$
$448 = 7 \times (77 - 7 - 7) + 7.$
$449 = 7 \times (77 - 7 - 7) + 7 + 7/7.$
$450 = (7 \times 7 + 7/7) \times (7 + (7 + 7)/7).$
$451 = 7 \times 77 - 77 - 77/7.$
$452 = 7 \times (7 \times 7 + 7 + 7) + 77/7.$
$453 = 7 \times 7 \times 7 + (777 - 7)/7.$
$454 = 7 \times 777 + 7 \times 7/7.$
$455 = 7 \times 77 - 77 - 7.$
$456 = (7 - 7/7) \times (77 - 7/7).$
$457 = 7 \times 77 - 77 - 7 + (7 + 7)/7.$
$458 = 7 \times 77 - 77 + 7 - 77/7.$
$459 = 7 \times 77 - 77 - (7 + 7 + 7)/7.$
$460 = 7 \times 77 - 77 - (7 + 7)/7.$
$461 = 7 \times 77 - 77 - 7/7.$
$462 = 7 \times 77 - 77.$
$463 = 7 \times 77 - 77 + 7/7.$
$464 = 7 \times 77 - 77 + (7 + 7)/7.$
$465 = (77 - 7) \times 7 - 7 - 7 - 77/7.$
$466 = 7 \times 77 + 77/7 - 77 - 7.$
$467 = 7 \times 77 - 77 + 7 - (7 + 7)/7.$
$468 = (77 + 7/7) \times (7 - 7/7).$
$469 = 7 \times 77 - 77 + 7.$
$470 = 7 \times 77 - 77 + 7 + 7/7.$
$471 = 7 \times 7 \times 7 + ((7 + 7)/7)^7.$
$472 = 7 \times (77 - 7) - 7 - 77/7.$
$473 = 7 \times 77 - 77 + 77/7.$
$474 = (77 + (7 + 7)/7) \times (7 - 7/7).$
$475 = 7 \times (77 - 7) - 7 - 7 - 7/7.$
$476 = 7 \times (77 - 7) - 7 - 7.$
$477 = 7 \times (77 - 7) - 7 - 7 + 7/7.$
$478 = 7 + ((7 + 7)/7)^7 + 7 \times 7 \times 7.$
$479 = 7 \times (77 - 7) - 77/7.$
$480 = (7 \times 7 - 7/7) \times (77 - 7)/7.$
$481 = 7 \times (77 - 7) - 7 - (7 + 7)/7.$
$482 = 7 \times (77 - 7) - 7 - 7/7.$
$483 = 7 \times (77 - 7) - 7.$
$484 = 7 \times (77 - 7) - 7 + 7/7.$
$485 = 7 \times (77 - 7) - 7 + (7 + 7)/7.$
$486 = 7 \times (77 - 7) + 7 - 77/7.$
$487 = 7 \times (77 - 7) - (7 + 7 + 7)/7.$
$488 = 7 \times (77 - 7) - (7 + 7)/7.$
$489 = 7 \times (77 - 7) - 7/7.$
$490 = 7 \times (77 - 7).$
$491 = 7 \times (77 - 7) + 7/7.$
$492 = 7 \times (77 - 7) + (7 + 7)/7.$
$493 = 7 \times (77 - 7) + (7 + 7 + 7)/7.$
$494 = 7 \times (77 - 7) - 7 + 77/7.$
$495 = 7 \times (77 - 7) + 7 - (7 + 7)/7.$
$496 = 7 \times (77 - 7) + 7 - 7/7.$
$497 = 7 \times (77 - 7) + 7.$
$498 = 7 \times (77 - 7) + 7 + 7/7.$
$499 = 7 \times (77 - 7) + 7 + (7 + 7)/7.$
$500 = 7 \times (77 - 7) + (77 - 7)/7.$
$501 = 7 \times (77 - 7) + 77/7.$
$502 = 7 \times (77 - 7) + (7 + 77)/7.$
$503 = 7 \times (7 \times 7 + 7) + 777/7.$
$504 = 7 \times (77 - 7) + 7 + 7.$
$505 = 7 \times (77 - 7) + 7 + 7 + 7/7.$
$506 = 7 \times (77 - 7) + 7 + 7 + (7 + 7)/7.$
$507 = 7 \times 77 - 7 - 7 - 7 - 77/7.$
$508 = 7 \times (77 - 7) + 7 + 77/7.$
$509 = 7 \times (77 + 7) - 77 - (7 + 7)/7.$
$510 = 7 \times (77 + 7) - 77 - 7/7.$
$511 = 7 \times (77 + 7) - 77.$
$512 = ((7 + 7)/7)^{(7+(7+7)/7)}.$
$513 = 7 \times (77 + 7) - 77 + (7 + 7)/7.$
$514 = 7 \times 77 - 7 - 7 - 77/7.$
$515 = 7 \times (77 - 7) + 7 + 7 + 77/7.$
$516 = 7 \times 77 - 7 - 7 - 7 - (7 + 7)/7.$
$517 = 7 \times 77 - 7 - 7 - 7 - 7/7.$
$518 = 7 \times 77 - 7 - 7 - 7.$
$519 = 7 \times 77 - 7 - 7 - 7 + 7/7.$
$520 = 7 \times 77 - 7 - (77 + 7)/7.$
$521 = 7 \times 77 - 7 - 77/7.$
$522 = 7 \times 77 - 7 - (77 - 7)/7.$
$523 = 7 \times 77 - 7 - 7 - (7 + 7)/7.$
$524 = 7 \times 77 - 7 - 7 - 7/7.$
$525 = 7 \times 77 - 7 - 7.$
$526 = 7 \times 77 - 7 - 7 + 7/7.$
$527 = 77 \times 7 - (77 + 7)/7.$
$528 = 7 \times 77 - 77/7.$
$529 = 7 \times 77 + (7 - 77)/7.$
$530 = 7 \times 77 - 7 - (7 + 7)/7.$
$531 = 7 \times 77 - 7 - 7/7.$
$532 = 7 \times 77 - 7.$
$533 = 7 \times 77 - 7 + 7/7.$
$534 = 7 \times 77 - 7 + (7 + 7)/7.$
$535 = 7 \times 77 + 7 - 77/7.$
$536 = 7 \times 77 - (7 + 7 + 7)/7.$
$537 = 7 \times 77 - (7 + 7)/7.$
$538 = 7 \times 77 - 7/7.$
$539 = 7 \times 77.$
$540 = 7 \times 77 + 7/7.$
$541 = 7 \times 77 + (7 + 7)/7.$
$542 = 7 \times 77 + (7 + 7 + 7)/7.$
$543 = 7 \times 77 - 7 + 77/7.$
$544 = 7 \times 77 + 7 - (7 + 7)/7.$
$545 = 7 \times 77 + 7 - 7/7.$
$546 = 7 \times 77 + 7.$
$547 = 7 \times 77 + 7 + 7/7.$
$548 = 7 \times 77 + 7 + (7 + 7)/7.$
$549 = 7 \times 77 + (77 - 7)/7.$
$550 = 7 \times 77 + 77/7.$
$551 = 7 \times 77 + (77 + 7)/7.$
$552 = 7 \times 77 + 7 + 7 - 7/7.$
$553 = 7 \times 77 + 7 + 7.$
$554 = 7 \times 77 + 7 + 7 + 7/7.$
$555 = 7 \times 77 + 7 + 7 + (7 + 7)/7.$
$556 = 7 \times 77 + 7 + (77 - 7)/7.$
$557 = 7 \times 77 + 7 + 77/7.$
$558 = 7 \times 7 \times (7 + 7) - ((7 + 7)/7)^7.$
$559 = 7 \times 77 + 7 + 7 + 7 - 7/7.$
$560 = (77 - 7) \times (7 + 7/7).$
$561 = 7 \times 77 + 7 + 7 + 7 + 7/7.$
$562 = 7 + (7777 - 7)/(7 + 7).$
$563 = 7 + (7777 + 7)/(7 + 7).$
$564 = 7 \times 77 + 7 + 7 + 77/7.$
$565 = 7 \times 77 + 7 + 7 + (77 + 7)/7.$

$566 = 7 \times (77 - 7) + 77 - 7/7.$
$567 = 7 \times (77 - 7) + 77.$
$568 = 7 \times (77 - 7) + 77 + 7/7.$
$569 = 7 \times (77 + 7) - 7 - (77 + 7)/7.$
$570 = 7 \times (77 + 7) - 7 - 77/7.$
$571 = 7 \times 77 + 7 + 7 + 7 + 77/7.$
$572 = 7777/7 - 7 \times 77.$
$573 = 7 \times (77 + 7) - 7 - 7 - 7/7.$
$574 = 7 \times (77 + 7) - 7 - 7.$
$575 = 7 \times (77 + 7) - 7 - 7 + 7/7.$
$576 = 7 \times (77 + 7) - (77 + 7)/7.$
$577 = 7 \times (77 + 7) - 77/7.$
$578 = 7 \times (77 + 7) - (77 - 7)/7.$
$579 = 7 \times (77 + 7) - 7 - (7 + 7)/7.$
$580 = 7 \times (77 + 7) - 7 - 7/7.$
$581 = 7 \times (77 + 7) - 7.$
$582 = 7 \times (77 + 7) - 7 + 7/7.$
$583 = 7 \times (77 + 7) - 7 + (7 + 7)/7.$
$584 = 7 \times (77 + 7) + 7 - 77/7.$
$585 = 7 \times (77 + 7) - (7 + 7 + 7)/7.$
$586 = 7 \times (77 + 7) - (7 + 7)/7.$
$587 = 7 \times (77 + 7) - 7/7.$
$588 = 7 \times (77 + 7).$
$589 = 7 \times (77 + 7) + 7/7.$
$590 = 7 \times (77 + 7) + (7 + 7)/7.$
$591 = 7 \times (77 + 7) + (7 + 7 + 7)/7.$
$592 = 7 \times (77 + 7) - 7 + 77/7.$
$593 = 7 \times (77 + 7) + 7 - (7 + 7)/7.$
$594 = 7 \times (77 + 7) + 7 - 7/7.$
$595 = 7 \times (77 + 7) + 7.$
$596 = 7 \times (77 + 7) + 7 + 7/7.$
$597 = 7 \times (77 + 7) + 7 + (7 + 7)/7.$
$598 = 7 \times (77 + 7) + (77 - 7)/7.$
$599 = 7 \times (77 + 7) + 77/7.$
$600 = (7 + 7/7) \times (77 - (7 + 7)/7).$
$601 = 7 \times (77 + 7) + 7 + 7 - 7/7.$
$602 = 7 \times (77 + 7) + 7 + 7.$
$603 = 7 \times (77 + 7) + 7 + 7 + 7/7.$
$604 = 7 \times (77 + 7) + 7 + 7 + (7 + 7)/7.$
$605 = 7 \times 77 + 77 - 77/7.$
$606 = 7 \times (77 + 7) + 7 + 77/7.$
$607 = 7 \times (77 + 7) + 7 + (77 + 7)/7.$
$608 = (7 + 7/7) \times (77 - 7/7).$
$609 = 7 \times 77 + 77 - 7.$
$610 = 77 \times (7 + 7/7) - 7 + 7/7.$
$611 = 7 \times 77 + 77 - 7 + (7 + 7)/7.$
$612 = 7 \times 77 + 77 + 7 - 77/7.$
$613 = 7 \times (77 + 7) + 7 + 7 + 77/7.$
$614 = 7 \times 77 + 77 - (7 + 7)/7.$
$615 = 7 \times 77 + 77 - 7/7.$
$616 = 7 \times 77 + 77.$
$617 = 7 \times 77 + 77 + 7/7.$
$618 = 7 \times 77 + 77 + (7 + 7)/7.$
$619 = 7 \times 77 + 77 + (7 + 7 + 7)/7.$
$620 = 7 \times 77 + 77 - 7 + 77/7.$
$621 = (77 - 7 - 7/7) \times (7 + (7 + 7)/7).$
$622 = 7 \times 77 + 77 + 7 - 7/7.$
$623 = 7 \times 77 + 77 + 7.$
$624 = (77 + 7/7) \times (7 + 7/7).$
$625 = (7 - (7 + 7)/7)^{(}77/7 - 7).$
$626 = 7 \times (77 + 7 + 7) - 77/7.$
$627 = 7 \times 77 + 77 + 77/7.$
$628 = 7 \times (7 + 7 + 77) - 7 - (7 + 7)/7.$
$629 = 7 \times (77 + 7 + 7) - 7 - 7/7.$
$630 = 7 \times (77 + 7 + 7) - 7.$
$631 = 7 \times (7 \times (7 + 7) - 7) - 7 + 7/7.$
$632 = (7 + 7/7) \times (77 + (7 + 7)/7).$
$633 = 7 \times (77 + 7 + 7) + 7 - 77/7.$
$634 = 7 \times 77 + 77 + 7 + 77/7.$
$635 = 7 \times (77 + 7 + 7) - (7 + 7)/7.$
$636 = 7 \times (77 + 7 + 7) - 7/7.$
$637 = 7 \times (77 + 7 + 7).$
$638 = 7 \times (77 + 7 + 7) + 7/7.$
$639 = 7 \times (77 + 7 + 7) + (7 + 7)/7.$
$640 = (7 - (7 + 7)/7) \times ((7 + 7)/7)^7.$
$641 = 7 \times (77 + 7 + 7) - 7 + 77/7.$
$642 = 777 - ((7 + 7)/7)^7 - 7.$
$643 = 7 \times 77 - 7 + 777/7.$
$644 = 7 \times (77 + 7 + 7) + 7.$
$645 = 7 \times (77 + 7 + 7) + 7 + 7/7.$
$646 = 7 \times (77 + 7 + 7) + 7 + (7 + 7)/7.$
$647 = 7 + (7 - (7 + 7)/7) \times ((7 + 7)/7)^7.$
$648 = 7 \times (77 + 7 + 7) + 77/7.$
$649 = 777 - ((7 + 7)/7)^7.$
$650 = 7 \times 77 + 777/7.$
$651 = 777 - 7 \times 7 - 77.$
$652 = 777 - 7 - 7 - 777/7.$
$653 = 77 \times (77/7 + 7 \times 7)/7 - 7.$
$654 = 7 \times (77 + 7) + 77 - 77/7.$
$655 = 7 + 7 \times (77 + 7 + 7) + 77/7.$
$656 = 777 + 7 - ((7 + 7)/7)^7.$
$657 = 77 \times 7 + 7 + 777/7.$
$658 = 7 \times (77 + 7) - 7 + 77.$
$659 = 777 - 7 - 777/7.$
$660 = 77/7 \times (7 \times 7 + 77/7).$
$661 = 77 \times 7 + (777 + 77)/7.$
$662 = 77 + 7 \times (77 + 7) - (7 + 7 + 7)/7.$
$663 = 77 + 7 \times (77 + 7) - (7 + 7)/7.$
$664 = 77 + 7 \times (77 + 7) - 7/7.$
$665 = (77 + ((77 + 7) \times 7)).$
$666 = 777 - 777/7.$
$667 = ((7 \times 77) + (((7 + 7)/7)^7)).$
$668 = (777 + (((7 - 777) + 7)/7)).$
$669 = 7 \times 7 \times (7 + 7) - 7 - (77 - 7)/7.$
$670 = 7 \times 7 \times (7 + 7) - 7 - 7 - (7 + 7)/7.$
$671 = 7 \times 7 \times (7 + 7) - 7 - 7 - 7/7.$
$672 = (77 + 7) \times (7 + 7/7).$
$673 = 777 + 7 - 777/7.$
$674 = 7 \times 77 + 7 + ((7 + 7)/7)^7.$
$675 = 7 \times 7 \times (7 + 7) - 77/7.$
$676 = 7 \times 7 \times (7 + 7) - (77 - 7)/7.$
$677 = 7 \times 7 \times (7 + 7) - 7 - (7 + 7)/7.$
$678 = 7 \times 7 \times (7 + 7) - 7 - 7/7.$
$679 = 7 \times 7 \times (7 + 7) - 7.$
$680 = 7 \times 7 \times (7 + 7) - 7 + 7/7.$
$681 = 7 \times 7 \times (7 + 7) - 7 + (7 + 7)/7.$
$682 = 7 \times 7 \times (7 + 7) + 7 - 77/7.$
$683 = 7 \times 7 \times (7 + 7) - (7 + 7 + 7)/7.$
$684 = 7 \times 7 \times (7 + 7) - (7 + 7)/7.$
$685 = 7 \times 7 \times (7 + 7) - 7/7.$
$686 = 7 \times 7 \times (7 + 7).$
$687 = 7 \times 7 \times (7 + 7) + 7/7.$
$688 = 7 \times 7 \times (7 + 7) + (7 + 7)/7.$
$689 = 777 - 77 - 77/7.$
$690 = 7 \times 7 \times (7 + 7) - 7 + 77/7.$
$691 = 7 \times 7 \times (7 + 7) + 7 - (7 + 7)/7.$
$692 = 7 \times 7 \times (7 + 7) + 7 - 7/7.$
$693 = 7 \times 7 \times (7 + 7) + 7.$
$694 = 7 \times 7 \times (7 + 7) + 7 + 7/7.$
$695 = 7 \times 7 \times (7 + 7) + 7 + (7 + 7)/7.$
$696 = 7 \times 7 \times (7 + 7) + (77 - 7)/7.$
$697 = 7 \times 7 \times (7 + 7) + 77/7.$
$698 = 777 - 77 - (7 + 7)/7.$
$699 = 777 - 77 - 7/7.$
$700 = 777 - 77.$
$701 = 777 - 77 + 7/7.$
$702 = (77 + 7/7) \times (7 + (7 + 7)/7).$
$703 = 7 \times 7 \times (7 + 7) + 7 - (7 - 77)/7.$
$704 = 7 \times 7 \times (7 + 7) + 7 + 77/7.$
$705 = 777 - 77 + 7 - (7 + 7)/7.$
$706 = 777 - 77 + 7 - 7/7.$
$707 = 777 - 77 + 7.$
$708 = 777 - 77 + 7 + 7/7.$
$709 = 777 - 77 + 7 + (7 + 7)/7.$
$710 = 777 - 7 \times 7 - 7 - 77/7.$
$711 = 777 - 77 + 77/7.$
$713 = 777 + 7 + 7 - 77 - 7/7.$
$713 = 777 - 77 + 7 + 7 - 7/7.$
$714 = 777 - 77 + 7 + 7.$
$715 = 777 - 77 + 7 + 7 + 7/7.$
$716 = 7 \times (77 + 7) + ((7 + 7)/7)^7.$
$717 = 777 - 7 \times 7 - 77/7.$
$718 = 777 - 77 + 7 + 77/7.$
$719 = 777 - 7 - 7 \times 7 - (7 + 7)/7.$
$720 = 777 - 7 \times 7 - 7 - 7/7.$
$721 = 777 - 7 \times 7 - 7.$
$722 = 777 - 7 \times 7 - 7 + 7/7.$
$723 = 777 - 7 \times 7 - 7 + (7 + 7)/7.$
$724 = 7 \times ((7 + 7) \times 7 + 7) - 77/7.$
$725 = 777 - 7 \times 7 - (7 + 7 + 7)/7.$
$726 = 777 - 7 \times 7 - (7 + 7)/7.$
$727 = 777 - 7 \times 7 - 7/7.$
$728 = 777 - 7 \times 7.$
$729 = 777 - 7 \times 7 + 7/7.$
$730 = 777 - 7 \times 7 + (7 + 7)/7.$
$731 = 777 - 7 \times 7 + (7 + 7 + 7)/7.$
$732 = 777 - 7 \times 7 - 7 + 77/7.$
$733 = 7 \times (7 \times (7 + 7) + 7) - (7 + 7)/7.$
$734 = 7 \times (7 \times (7 + 7) + 7) - 7/7.$
$735 = 7 \times (7 \times (7 + 7) + 7).$
$736 = 7 \times (7 \times (7 + 7) + 7) + 7/7.$
$737 = 7 \times (7 \times (7 + 7) + 7) + (7 + 7)/7.$
$738 = 777 - 7 \times 7 + (77 - 7)/7.$
$739 = 777 - 7 \times 7 + 77/7.$
$740 = 7 \times (7 \times (7 + 7) + 7) + 7 - (7 + 7)/7.$
$741 = 7 \times (7 \times (7 + 7) + 7) + 7 - 7/7.$
$742 = 7 \times (7 \times (7 + 7) + 7) + 7.$
$743 = 7 \times (7 \times (7 + 7) + 7) + 7 + 7/7.$
$744 = 7 \times 77 + 77 + ((7 + 7)/7)^7.$
$745 = 777 - 7 - 7 - 7 - 77/7.$
$746 = 7 \times (7 \times (7 + 7) + 7) + 77/7.$
$747 = 7 \times (7 \times (7 + 7) + 7) + (77 + 7)/7.$
$748 = 777 - 77 + 7 \times 7 - 7/7.$
$749 = 777 + 7 \times 7 - 77.$
$750 = (7 + 7 + 7/7) \times (7 \times 7 + 7/7).$
$751 = 777 - 7 - 7 - (77 + 7)/7.$
$752 = 777 - 7 - 7 - 77/7.$
$753 = 777 - (7 \times 7 \times 7 - 7)/(7 + 7).$
$754 = 777 - 7 - 7 - 7 - (7 + 7)/7.$
$755 = 777 - 7 - 7 - 7 - 7/7.$
$756 = 777 - 7 - 7 - 7.$
$757 = 777 - 7 - 7 - 7 + 7/7.$
$758 = 777 - 7 - (77 + 7)/7.$
$759 = 777 - 7 - 77/7.$
$760 = 777 - 7 - (77 - 7)/7.$
$761 = 777 - 7 - 7 - (7 + 7)/7.$
$762 = 777 - 7 - 7 - 7/7.$

$763 = 777 - 7 - 7.$
$764 = 777 - 7 - 7 + 7/7.$
$765 = 777 - (77 + 7)/7.$
$766 = 777 - 77/7.$
$767 = 777 - (77 - 7)/7.$
$768 = 777 - 7 - (7 + 7)/7.$
$769 = 777 - 7 - 7/7.$
$770 = 777 - 7.$
$771 = 777 - 7 + 7/7.$
$772 = 777 - 7 + (7 + 7)/7.$
$773 = 777 + 7 - 77/7.$
$774 = 777 - (7 + 7 + 7)/7.$
$775 = 777 - (7 + 7)/7.$
$776 = 777 - 7/7.$
$777 = 777.$
$778 = 777 + 7/7.$
$779 = 777 + (7 + 7)/7.$
$780 = 777 + 7 + 7 - 77/7.$
$781 = 777 - 7 + 77/7.$
$782 = 777 + 7 - (7 + 7)/7.$
$783 = 777 + 7 - 7/7.$
$784 = 777 + 7.$
$785 = 777 + 7 + 7/7.$
$786 = 777 + 7 + (7 + 7)/7.$
$787 = 777 + (77 - 7)/7.$
$788 = 777 + 77/7.$
$789 = 777 + (77 + 7)/7.$
$790 = 777 + 7 + 7 - 7/7.$
$791 = 777 + 7 + 7.$
$792 = 777 + 7 + 7 + 7/7.$
$793 = 777 + 7 + 7 + (7 + 7)/7.$
$794 = 777 + 7 + (77 - 7)/7.$
$795 = 777 + 7 + 77/7.$
$796 = 777 + 7 + (77 + 7)/7.$
$797 = 777 + 7 + 7 + 7 - 7/7.$
$798 = 777 + 7 + 7 + 7.$
$799 = 777 + 7 + 7 + 7 + 7/7.$
$800 = (7 \times 7 + 7/7) \times (7 + 7 + (7 + 7)/7).$
$801 = 777 + 7 + 7 + (77 - 7)/7.$
$802 = 777 + 7 + 7 + 77/7.$
$803 = 777 + 7 + 7 + (77 + 7)/7.$
$804 = 777 + 77 - 7 \times 7 - 7/7.$
$805 = 777 + 77 - 7 \times 7.$
$806 = 777 + 77 - 7 \times 7 + 7/7.$
$807 = 7 \times 7 \times (7 + 7) + ((7 + 7)/7)^7 - 7.$
$808 = 777 + 7 \times 7 - 7 - 77/7.$
$809 = 777 + 7 + 7 + 7 + 77/7.$
$810 = (7 - 7/7) \times (7 + ((7 + 7)/7)^7).$
$811 = 777 - 77 + 777/7.$
$812 = 777 + 7 \times 7 - 7 - 7.$
$813 = 777 + 7 \times 7 - 7 - 7 + 7/7.$
$814 = 7 \times 7 \times (7 + 7) + ((7 + 7)/7)^7.$
$815 = 777 + 7 \times 7 - 77/7.$
$816 = 777 + 7 \times 7 - (77 - 7)/7.$
$817 = 777 + 7 \times 7 - 7 - (7 + 7)/7.$
$818 = 777 + 7 \times 7 - 7 - 7/7.$
$819 = 777 + 7 \times 7 - 7.$
$820 = 777 + 7 \times 7 - 7 + 7/7.$
$821 = 777 + 7 \times 7 - 7 + (7 + 7)/7.$
$822 = 777 + 7 \times 7 + 7 - 77/7.$
$823 = 777 + 7 \times 7 - (7 + 7 + 7)/7.$
$824 = 777 + 7 \times 7 - (7 + 7)/7.$
$825 = 777 + 7 \times 7 - 7/7.$
$826 = 777 + 7 \times 7.$
$827 = 777 + 7 \times 7 + 7/7.$
$828 = 777 + 7 \times 7 + (7 + 7)/7.$
$829 = (77 - 7/7) \times 77/7 - 7.$
$830 = 777 + 7 \times 7 - 7 + 77/7.$
$831 = 777 + 7 \times 7 + 7 - (7 + 7)/7.$
$832 = 777 + 7 \times 7 + 7 - 7/7.$
$833 = 777 + 7 \times 7 + 7.$
$834 = 777 + 7 \times 7 + 7 + 7/7.$
$835 = 77 \times 77/7 - (77 + 7)/7.$
$836 = 77 \times (77 - 7/7)/7.$
$837 = 777 + 7 \times 7 + 77/7.$
$838 = (77 \times 77 - 7 - 7)/7 - 7.$
$839 = (77 \times 77 - 7)/7 - 7.$
$840 = 77 \times 77/7 - 7.$
$841 = (77 \times 77 + 7)/7 - 7.$
$842 = (77 \times 77 + 7 + 7)/7 - 7.$
$843 = 777 + 77 - 77/7.$
$844 = 777 + 7 \times 7 + 7 + 77/7.$
$845 = 77 \times 77/7 - (7 + 7)/7.$
$846 = 77 \times 77/7 - 7/7.$
$847 = 77 \times 77/7.$
$848 = 77 \times 77/7 + 7/7.$
$849 = 77 \times 77/7 + (7 + 7)/7.$
$850 = (77 - 7)/7 \times (77 + 7 + 7/7).$
$851 = 77 \times (77 + 7/7)/7 - 7.$
$852 = 777 + 77 - (7 + 7)/7.$
$853 = 777 + 77 - 7/7.$
$854 = 777 + 77.$
$855 = 777 + 77 + 7/7.$
$856 = 777 + 77 + (7 + 7)/7.$
$857 = 77 \times (77 + 7/7)/7 - 7/7.$
$858 = 77 \times (77 + 7/7)/7.$
$859 = 777 + 77 + 7 - (7 + 7)/7.$
$860 = 777 + 77 + 7 - 7/7.$
$861 = 777 + 77 + 7.$
$862 = 777 + 77 + 7 + 7/7.$
$863 = 777 + 77 + 7 + (7 + 7)/7.$
$864 = (7 + 77/7) \times (7 \times 7 - 7/7).$
$865 = 777 + 77 + 77/7.$
$866 = 777 + 77 + (77 + 7)/7.$
$867 = 7 \times (77 + 7 \times 7) - 7 - 7 - 7/7.$
$868 = 777 + 77 + 7 + 7.$
$869 = 77 \times (77 + (7 + 7)/7)/7.$
$870 = 7 \times (7 \times 7 + 77) - (77 + 7)/7.$
$871 = 7 \times (7 \times 7 + 77) - 77/7.$
$872 = 777 + 77 + 7 + 77/7.$
$873 = 7 \times (7 \times 7 + 77) - 7 - (7 + 7)/7.$
$874 = 777 + 7 \times (7 + 7) - 7/7.$
$875 = 777 + 7 \times (7 + 7).$
$876 = 777 + 7 \times (7 + 7) + 7/7.$
$877 = 7 \times (7 \times 7 + 77) - 7 + (7 + 7)/7.$
$878 = 777 + 7777/77.$
$879 = 7 \times (7 \times 7 + 77) - (7 + 7 + 7)/7.$
$880 = (7 + 7/7) \times (777 - 7)/7.$
$881 = 7 \times (7 \times 7 + 77) - 7/7.$
$882 = 7 \times (7 \times 7 + 77).$
$883 = 7 \times (7 \times 7 + 77) + 7/7.$
$884 = 7 \times (7 \times 7 + 77) + (7 + 7)/7.$
$885 = 7 \times ((7 + 7)/7)^7 - 77/7.$
$886 = 777 + (777 - 7 - 7)/7.$
$887 = 777 + (777 - 7)/7.$
$888 = 777 + 777/7.$
$889 = 7 \times ((7 + 7)/7)^7 - 7.$
$890 = 7 \times (7 \times 7 + 77) + 7 + 7/7.$
$891 = 777 - 7 - 7 + ((7 + 7)/7)^7.$
$892 = 7 - 77/7 + ((7 + 7)/7)^7 \times 7.$
$893 = 7 \times (7 \times 7 + 77) + 77/7.$
$894 = 7 \times ((7 + 7)/7)^7 - (7 + 7)/7.$
$895 = 7 \times ((7 + 7)/7)^7 - 7/7.$
$896 = 7 \times ((7 + 7)/7)^7.$
$897 = 7 \times ((7 + 7)/7)^7 + 7/7.$
$898 = 777 - 7 + ((7 + 7)/7)^7.$
$899 = 777 + (777 + 77)/7.$
$900 = (7 \times 7 + 7/7) \times (77/7 + 7).$
$901 = 7 \times ((7 + 7)/7)^7 + 7 - (7 + 7)/7.$
$902 = 7 \times ((7 + 7)/7)^7 + 7 - 7/7.$
$903 = 7 \times ((7 + 7)/7)^7 + 7.$
$904 = 7 \times ((7 + 7)/7)^7 + 7 + 7/7.$
$905 = 777 + ((7 + 7)/7)^7.$
$906 = 77 \times (77 + 7 - 7/7)/7 - 7.$
$907 = 7 \times ((7 + 7)/7)^7 + 77/7.$
$908 = 7 \times ((7 + 7)/7)^7 + (77 + 7)/7.$
$909 = 7 \times ((7 + 7)/7)^7 + 7 + 7 - 7/7.$
$910 = (77 - 7) \times (7 + 7 - 7/7).$
$911 = 7 \times ((7 + 7)/7)^7 + 7 + 7 + 7/7.$
$912 = (77 + 7) \times (77 - 7/7)/7.$
$913 = 77 \times (77 + 7 - 7/7)/7.$
$914 = 7 \times ((7 + 7)/7)^7 + 7 + 77/7.$
$915 = 7777/7 - (7 + 7) \times (7 + 7).$
$916 = (77 \times (77 + 7) - 7)/7 - 7.$
$917 = 77 \times (77 + 7)/7 - 7.$
$918 = (77 \times (77 + 7) + 7)/7 - 7.$
$919 = 777 + 7 + 7 + ((7 + 7)/7)^7.$
$920 = 77 \times (77 + 7 - 7/7)/7 + 7.$
$921 = 77 \times (77 + 7 + 7/7)/7 - 7 - 7.$
$922 = 77 \times (77 + 7)/7 - (7 + 7)/7.$
$923 = 77 \times (77 + 7)/7 - 7/7.$
$924 = 77 \times (77 + 7)/7.$
$925 = (77 \times (77 + 7) + 7)/7.$
$926 = 77 \times (77 + 7)/7 + (7 + 7)/7.$
$927 = 77 \times (77 + 7 - 7/7)/7 + 7 + 7.$
$928 = 77 \times (77 + 7 + 7/7)/7 - 7.$
$929 = 7 \times (7 \times 7 + 77 + 7) - (7 + 7)/7.$
$930 = 7 \times (7 \times 7 + 77 + 7) - 7/7.$
$931 = 7 \times (7 \times 7 + 77 + 7).$
$932 = 7 \times (7 \times 7 + 77 + 7) + 7/7.$
$933 = 7 \times (7 \times 7 + 77 + 7) + (7 + 7)/7.$
$934 = 7 \times (7 + ((7 + 7)/7)^7) - 77/7.$
$935 = 77 \times (77 + 7 + 7/7)/7.$
$936 = (77 + 7) \times (77 + 7/7)/7.$
$937 = 7 \times (7 \times 7 + 7 + 77) + 7 - 7/7.$
$938 = 7 \times (7 \times 7 + 7 + 77) + 7.$
$939 = 7 \times (7 \times 7 + 7 + 77) + 7 + 7/7.$
$940 = 7 + 7 \times (7 \times 7 + 77 + 7) + (7 + 7)/7.$
$941 = (7 \times 7 + 77 + 7) \times 7 + (77 - 7)/7.$
$942 = 7 \times (7 \times 7 + 77 + 7) + 77/7.$
$943 = 7 \times (((7 + 7)/7)^7 + 7) - (7 + 7)/7.$
$944 = (7 + 777/7) \times (7 + 7/7).$
$945 = 7 \times (((7 + 7)/7)^7 + 7).$
$946 = 7 \times (((7 + 7)/7)^7 + 7) + 7/7.$
$947 = 7 \times (((7 + 7)/7)^7 + 7) + (7 + 7)/7.$
$948 = (77 + 7) \times (77 + (7 + 7)/7)/7.$
$949 = 7 \times (7 \times 7 + 77 + 7) + 7 + 77/7.$
$950 = (7 \times 7 + 7/7) \times (7 + (77 + 7)/7).$
$951 = 7 \times 7 \times (7 + 7 + 7) - 77 - 7/7.$
$952 = 7 \times (7 + ((7 + 7)/7)^7) + 7.$
$953 = 7 \times 7 \times (7 + 7 + 7) - 77 + 7/7.$
$954 = 777 + 7 \times 7 + ((7 + 7)/7)^7.$
$955 = (7 + 7) \times (77 - 7 - 7/7) - 77/7.$
$956 = 7 \times (7 + ((7 + 7)/7)^7) + 77/7.$
$957 = (777 + 77 \times 77 - 7)/7.$
$958 = (777 + 77 \times 77)/7.$
$959 = 7 \times (7 \times 7 + 77) + 77.$

$960 = 7 \times (77 + 7 \times 7) + 77 + 7/7.$
$961 = 77 \times (77 + 77/7)/7 - 7.$
$962 = (7 + 7) \times (77 - 7) - 7 - 77/7.$
$963 = (77-7)\times(7+7)-7+(7-77)/7.$
$964 = 7777/7 - 7 \times (7 + 7 + 7).$
$965 = 777 + 77 + 777/7.$
$966 = (7 + 7) \times (77 - 7 - 7/7).$
$967 = 77 \times (7 + 7) - 777/7.$
$968 = 77 \times (77 + 77/7)/7.$
$969 = (7 + 7) \times (77 - 7) - 77/7.$
$970 = (7+7)\times(77-7)-(77-7)/7.$
$971 = (7+7)\times(77-7)-7-(7+7)/7.$
$972 = (7 + 7) \times (77 - 7) - 7 - 7/7.$
$973 = (7 + 7) \times (77 - 7) - 7.$
$974 = (7 + 7) \times (77 - 7) - 7 + 7/7.$
$975 = (7+7)\times(77-7)-7+(7+7)/7.$
$976 = (7 + 7) \times (77 - 7) + 7 - 77/7.$
$977 = (7+7)\times(77-7)-(7+7+7)/7.$
$978 = (7 + 7) \times (77 - 7) - (7 + 7)/7.$
$979 = (7 + 7) \times (77 - 7) - 7/7.$
$980 = (7 + 7) \times (77 - 7).$
$981 = (7 + 7) \times (77 - 7) + 7/7.$
$982 = (7 + 7) \times (77 - 7) + (7 + 7)/7.$
$983 = (7+7)\times(77-7)+(7+7+7)/7.$
$984 = (7 + 7) \times (77 - 7) - 7 + 77/7.$
$985 = (7+7)\times(77-7)+7-(7+7)/7.$
$986 = (7 + 7) \times (77 - 7) + 7 - 7/7.$
$987 = (7 + 7) \times (77 - 7) + 7.$
$988 = (7 + 7) \times (77 - 7) + 7 + 7/7.$
$989 = (7+7)\times(77-7)+7+(7+7)/7.$
$990 = (7 + 7 + 7/7) \times (77 - 77/7).$
$991 = (7 + 7) \times (77 - 7) + 77/7.$
$992 = (7+7)\times(77-7)+(77+7)/7.$
$993 = (7+7)\times(77-7)+7+7-7/7.$
$994 = (7 + 7) \times (77 - 7) + 7 + 7.$
$995 = (7+7)\times(77-7)+7+7+7/7.$
$996 = (7 + 77) \times (7 + 77 - 7/7)/7.$
$997 = (7+7)\times(77-7)+7+(77-7)/7.$
$998 = (7 + 7) \times (77 - 7) + 7 + 77/7.$
$999 = 777 \times (7 + (7 + 7)/7)/7.$
$1000 = (7+7+7-7/7)\times(7\times7+7/7).$

11. Representations Using Number 8

$101 = 8888/88.$
$102 = (888 - 8)/8 - 8.$
$103 = (888 - 8 \times 8)/8.$
$104 = 88 + 8 + 8.$
$105 = 88 + 8 + 8 + 8/8.$
$106 = 88 + 8 + (88 - 8)/8.$
$107 = 88 + 8 + 88/8.$
$108 = 8 + (888 - 88)/8.$
$109 = (888 - 8 - 8)/8.$
$110 = (888 - 8)/8.$
$111 = 888/8.$
$112 = (888 + 8)/8.$
$113 = (888 + 8 + 8)/8.$
$114 = (888 + 88)/8 - 8.$
$115 = 888/8 + 8 \times 8/(8 + 8).$
$116 = 8 + 8 + (888 - 88)/8.$
$117 = 8 \times (8 + 8) - 88/8.$
$118 = 8 + (888 - 8)/8.$
$119 = 8 + 888/8.$
$120 = 8 \times (8 + 8) - 8.$
$121 = 88 \times 88/(8 \times 8).$
$122 = (888 + 88)/8.$
$123 = 88 + 8 + 8 + 8 + 88/8.$
$124 = 8 \times (8 + 8) - 8 \times 8/(8 + 8).$
$125 = 8 \times (8 + 8) + 8 - 88/8.$
$126 = 8 \times (8 + 8) - (8 + 8)/8.$
$127 = 8 \times (8 + 8) - 8/8.$
$128 = 8 \times (8 + 8).$
$129 = 8 \times (8 + 8) + 8/8.$
$130 = 8 \times (8 + 8) + (8 + 8)/8.$
$131 = 8 \times (8 + 8) - 8 + 88/8.$
$132 = 8 \times (8 + 8) + 8 \times 8/(8 + 8).$
$133 = (8 + 88/8) \times (8 - 8/8).$
$134 = +8 \times (8 + 8) + 8 - (8 + 8)/8.$
$135 = 8 \times (8 + 8) + 8 - 8/8.$
$136 = 8 \times (8 + 8) + 8.$
$137 = 8 \times (8 + 8) + 8 + 8/8.$
$138 = 8 \times (8 + 8) + (88 - 8)/8.$
$139 = 8 \times (8 + 8) + 88/8.$
$140 = 8 \times (8 + 8) + (88 + 8)/8.$
$141 = 88 + 8 \times 8 - 88/8.$
$142 = 88 + 8 \times 8 - 8 - (8 + 8)/8.$
$143 = 88 + 8 \times 8 - 8 - 8/8.$
$144 = 88 + 8 \times 8 - 8.$
$145 = 88 + 8 \times 8 - 8 + 8/8.$
$146 = 88 + 8 \times 8 - 8 + (8 + 8)/8.$
$147 = 8 \times (8 + 8) + 8 + 88/8.$
$148 = 888/(8 - (8 + 8)/8).$
$149 = 88 + 8 \times 8 + 8 - 88/8.$
$150 = 88 + 8 \times 8 - (8 + 8)/8.$
$151 = 88 + 8 \times 8 - 8/8.$
$152 = 88 + 8 \times 8.$
$153 = 88 + 8 \times 8 + 8/8.$
$154 = 88 + 8 \times 8 + (8 + 8)/8.$
$155 = 88 + 8 \times 8 - 8 + 88/8.$
$156 = 88 + 8 \times 8 + 8 \times 8/(8 + 8).$
$157 = 88 + 8 \times 8 + (88 - 8)/(8 + 8).$
$158 = 88 + 8 \times 8 + 8 - (8 + 8)/8.$
$159 = 88 + 8 \times 8 + 8 - 8/8.$
$160 = 88 + 8 \times 8 + 8.$
$161 = 88 + 8 \times 8 + 8 + 8/8.$
$162 = 88 + 8 \times 8 + 8 + (8 + 8)/8.$
$163 = 88 + 8 \times 8 + 88/8.$
$164 = 88 + 88 - (88 + 8)/8.$
$165 = 88 + 88 - 88/8.$
$166 = 88 + 88 - 8 - (8 + 8)/8.$
$167 = 88 + 88 - 8 - 8/8.$
$168 = 88 + 88 - 8.$
$169 = 88 + 88 - 8 + 8/8.$
$170 = (8 + 8 + 8/8) \times (88 - 8)/8.$
$171 = (8 + 88/8) \times (8 + 8/8).$
$172 = 88 + 88 - 8 \times 8/(8 + 8).$
$173 = 88 + 88 + 8 - 88/8.$
$174 = 88 + 88 - (8 + 8)/8.$
$175 = 88 + 88 - 8/8.$
$176 = 88 + 88.$
$177 = 88 + 88 + 8/8.$
$178 = 88 + 88 + (8 + 8)/8.$
$179 = 88 + 88 - 8 + 88/8.$
$180 = (88 + (8 + 8)/8) \times (8 + 8)/8.$
$181 = 8 \times (8 + 8 + 8) - 88/8.$
$182 = 8 \times (8+8+8) - 8 - (8+8)/8.$
$183 = 88 + 88 + 8 - 8/8.$
$184 = 88 + 88 + 8.$
$185 = 88 + 88 + 8 + 8/8.$
$186 = 88 + 88 + (88 - 8)/8.$
$187 = 88 + 88 + 88/8.$
$188 = 88 + (888 - 88)/8.$
$189 = 88 + 8888/88.$
$190 = 8 \times (8 + 8 + 8) - (8 + 8)/8.$
$191 = 8 \times (8 + 8 + 8) - 8/8.$
$192 = 8 \times (8 + 8 + 8).$
$193 = 8 \times (8 + 8 + 8) + 8/8.$
$194 = 8 \times (8 + 8 + 8) + (8 + 8)/8.$
$195 = 88 + 88 + 8 + 88/8.$
$196 = 8 \times (8+8+8) + 8 \times 8/(8+8).$
$197 = 88 + (888 - 8 - 8)/8.$
$198 = 88 + (888 - 8)/8.$
$199 = 88 + 888/8.$
$200 = 8 \times (8 + 8 + 8) + 8.$
$201 = 8 \times (8 + 8 + 8) + 8 + 8/8.$
$202 = 8 \times (8 + 8 + 8) + (88 - 8)/8.$
$203 = 8 \times (8 + 8 + 8) + 88/8.$
$204 = 8 \times (8 + 8 + 8) + (88 + 8)/8.$
$205 = 8 \times (8 + 8) + 88 - 88/8.$
$206 = 88 + 8 + (888 - 8)/8.$
$207 = 88 + 8 + 888/8.$
$208 = 88 + 8 \times (8 + 8) - 8.$
$209 = 88 + 8 \times (8 + 8) - 8 + 8/8.$
$210 = 88 + (888 + 88)/8.$
$211 = 8 \times (8 + 8 + 8) + 8 + 88/8.$
$212 = 8\times(8+8+8)+8+(88+8)/8.$
$213 = 88 + 8 \times (8 + 8) + 8 - 88/8.$
$214 = 88 + 8 \times (8 + 8) - (8 + 8)/8.$
$215 = 88 + 8 \times (8 + 8) - 8/8.$
$216 = 88 + 8 \times (8 + 8).$
$217 = 88 + 8 \times (8 + 8) + 8/8.$
$218 = 88 + 8 \times (8 + 8) + (8 + 8)/8.$
$219 = 88 + 8 \times (8 + 8) - 8 + 88/8.$
$220 = (888 - 8) \times (8 + 8)/(8 \times 8).$
$221 = 888 \times (8 + 8)/(8 \times 8) - 8/8.$
$222 = 888 \times (8 + 8)/(8 \times 8).$
$223 = 88 + 8 \times (8 + 8) + 8 - 8/8.$
$224 = 88 + 8 \times (8 + 8) + 8.$
$225 = (8 + 8 - 8/8)^{((8+8)/8)}.$
$226 = (888+8+8)\times(8+8)/(8\times8).$
$227 = 88 + 8 \times (8 + 8) + 88/8.$
$228 = (8 + 88/8) \times (88 + 8)/8.$
$229 = 8 \times (8 + 8) + 8888/88.$
$230 = 8 + 888 \times (8 + 8)/(8 \times 8).$
$231 = 8 \times (8 + 8) - 8 + 888/8.$
$232 = 88 + 88 + 8 \times 8 - 8.$
$233 = 8 + (8 + 8 - 8/8)^{((8+8)/8)}.$
$234 = (8+8+8+(8+8)/8)\times(8+8/8).$
$235 = 8 \times (8 + 8) + 88 + 8 + 88/8.$
$236 = ((8 + 8)/8)^8 - 8 - (88 + 8)/8.$
$237 = ((8 + 8)/8)^8 - 8 - 88/8.$
$238 = 8 \times (8 + 8) + (888 - 8)/8.$
$239 = 8 \times (8 + 8) + 888/8.$
$240 = 88 + 88 + 8 \times 8.$
$241 = (8 + 8) \times (8 + 8 - 8/8) + 8/8.$
$242 = (88 + 88) \times 88/(8 \times 8).$
$243 = ((8 + 8 + 8)/8)^{(8-(8+8+8)/8)}.$
$244 = (8 + 8) \times (8 + 8) - (88 + 8)/8.$

$245 = (8+8)\times(8+8)-88/8.$
$246 = (8+8)\times(8+8)-(88-8)/8.$
$247 = (8+8)\times(8+8)-8-8/8.$
$248 = (8+8)\times(8+8)-8.$
$249 = (8+8)\times(8+8)-8+8/8.$
$250 = (8+8)\times(8+8)-8+(8+8)/8.$
$251 = 88+88+8\times8+88/8.$
$252 = 8\times(8\times8\times8-8)/(8+8).$
$253 = (8+8)\times(8+8)+8-88/8.$
$254 = (8+8)\times(8+8)-(8+8)/8.$
$255 = (8+8)\times(8+8)-8/8.$
$256 = (8+8)\times(8+8).$
$257 = (8+8)\times(8+8)+8/8.$
$258 = (8+8)\times(8+8)+(8+8)/8.$
$259 = (8+8)\times(8+8)+(8+8+8)/8.$
$260 = 8\times(8\times8\times8+8)/(8+8).$
$261 = (8+8+8)\times(88-8/8)/8.$
$262 = (8+8)\times(8+8)+8-(8+8)/8.$
$263 = (8+8)\times(8+8)+8-8/8.$
$264 = (8+8)\times(8+8)+8.$
$265 = (8+8)\times(8+8)+8+8/8.$
$266 = (8+8)\times(8+8)+8+(8+8)/8.$
$267 = (8+8)\times(8+8)+88/8.$
$268 = (8+8)\times(8+8)+(88+8)/8.$
$269 = 8\times(8+8+8)+88-88/8.$
$270 = (8+8)\times(8+8)+8+8-(8+8)/8.$
$271 = (8+8)\times(8+8+8/8)-8/8.$
$272 = (8+8)\times(8+8+8/8).$
$273 = (8+8)\times(8+8+8/8)+8/8.$
$274 = (8+8)\times(8+8)+8+8+(8+8)/8.$
$275 = (8+8)\times(8+8)+8+88/8.$
$276 = (8+8)\times(8+8)+8+(88+8)/8.$
$277 = 88+8\times(8+8+8)-(8+8+8)/8.$
$278 = (8\times(8+8)+88/8)\times(8+8)/8.$
$279 = 8\times(8+8+8)+88-8/8.$
$280 = 8\times(8+8+8)+88.$
$281 = 8\times(8+8+8)+88+8/8.$
$282 = 8\times(8+8+8)+88+(8+8)/8.$
$283 = 8\times(8+8+8)+88-8+88/8.$
$284 = 8\times8\times(8\times8+8-8/8)/(8+8).$
$285 = ((8+8+8)\times(88+8)-8-8-8)/8.$
$286 = ((8+8+8)\times(88+8)-8-8)/8.$
$287 = ((8+8+8)\times(88+8)-8)/8.$
$288 = (8+8+8)\times(88+8)/8.$
$289 = (8+8+8/8)^{((8+8)/8)}.$
$290 = ((8+8+8)\times(88+8)+8+8)/8.$
$291 = 8\times(8+8+8)+88+88/8.$
$292 = 8\times(8+8+8)+88+(88+8)/8.$
$293 = ((8+8)/8)^8+888/(8+8+8).$
$294 = 8+8\times8+888\times(8+8)/(8\times8).$
$295 = 8\times8\times(8\times8+8)/(8+8)+8-8/8.$
$296 = 8\times888/(8+8+8).$
$297 = (8+8+8/8)^{((8+8)/8)}+8.$
$298 = 8\times888/(8+8+8)+(8+8)/8.$
$299 = 8\times8\times(8\times8+8)/(8+8)+88/8.$
$300 = 8\times8\times(8\times8+88/8)/(8+8).$
$301 = (8+8)\times(8+8)+8\times8-8-88/8.$
$302 = (8+8)\times(8\times8+88-8/8)/8.$
$303 = (8+8)\times(8+88/8)-8/8.$
$304 = (8+8)\times(8+88/8).$
$305 = (8+8)\times(8+88/8)+8/8.$
$306 = (8+8+(8+8)/8)\times(8+8+8/8).$
$307 = 8\times(88\times8-88)/(8+8)-8/8.$
$308 = 8\times(88\times8-88)/(8+8).$
$309 = (8+8+8)\times(888/8-8)/8.$
$310 = 88+888\times(8+8)/(8\times8).$
$311 = 8\times(8+8+8)+8+888/8.$
$312 = (8+8)\times(8+8)+8\times8-8.$
$313 = (8+8)\times(8+8)+8\times8-8+8/8.$
$314 = (8+8)\times(8+8)+8\times8-8+(8+8)/8.$
$315 = (8\times8-8/8)\times(8-(8+8+8)/8).$
$316 = (8+8)\times(8+8)+8\times(8-8/(8+8)).$
$317 = (8+8)\times(8+8)+8\times8+8-88/8.$
$318 = (8+8)\times(8+8)+8\times8-(8+8)/8.$
$319 = (8+8)\times(8+8)+8\times8-8/8.$
$320 = (8+8)\times(8+8)+8\times8.$
$321 = (8+8)\times(8+8)+8\times8+8/8.$
$322 = (8+8)\times(8+8)+8\times8+(8+8)/8.$
$323 = (8+8)\times(8+8)+8\times8-8+88/8.$
$324 = (8+8+(8+8)/8)^{((8+8)/8)}.$
$325 = 888\times(8+8+8)/(8\times8)-8.$
$326 = (8+8)\times(8+8)+8\times8+8-(8+8)/8.$
$327 = 8\times(8+8)+88+888/8.$
$328 = (8+8)\times(8+8)+8\times8+8.$
$329 = (8-8/8)\times(8\times8-8-8-8/8).$
$330 = (8-(8+8)/8)\times(8\times8-8-8/8).$
$331 = (8+8)\times(8+8)+88/8+8\times8.$
$332 = (888\times(88/8-8)-8)/8.$
$333 = 888\times(88/8-8)/8.$
$334 = 8\times8\times8-88-88-(8+8)/8.$
$335 = 8\times8\times8-88-88-8/8.$
$336 = 8\times8\times8-88-88.$
$337 = 8\times(8\times8-8)-888/8.$
$338 = (8+8)\times(8+8)+88-8+(8+8)/8.$
$339 = (8+8)\times(8+8)+8\times8+8+88/8.$
$340 = 8\times8\times88/(8+8)-(88+8)/8.$
$341 = 888\times(88/8-8)/8+8.$
$342 = (8-(8+8)/8)\times(8\times8-8+8/8).$
$343 = (8-8/8)^{((8+8+8)/8)}.$
$344 = (8+8)\times(8+8)+88.$
$345 = (8+8)\times(8+8)+88+8/8.$
$346 = (8+8)\times(8+8)+88+(8+8)/8.$
$347 = 8\times8\times88/(8+8)-8-8+88/8.$
$348 = 8\times(8\times88-8)/(8+8).$
$349 = 8\times8\times88/(8+8)+8-88/8.$
$350 = 8\times8\times88/(8+8)-(8+8)/8.$
$351 = 8\times8\times88/(8+8)-8/8.$
$352 = 8\times8\times88/(8+8).$
$353 = 8\times8\times88/(8+8)+8/8.$
$354 = 8\times8\times88/(8+8)+(8+8)/8.$
$355 = 8\times8\times88/(8+8)+(8+8+8)/8.$
$356 = 8\times8\times(88+8/8)/(8+8).$
$357 = (8+8+8)\times(8+888/8)/8.$
$358 = 8\times(8\times8-8)-88-(8+8)/8.$
$359 = 8\times(8\times8-8)-88-8/8.$
$360 = 8\times(8\times8-8)-88.$
$361 = (8+88/8)^{((8+8)/8)}.$
$362 = 8\times(8\times8-8)-88+(8+8)/8.$
$363 = 8\times8\times88/(8+8)+88/8.$
$364 = 8+8\times(8\times88+8)/(8+8).$
$365 = (8+8)\times(8+8+8)-8-88/8.$
$366 = 888-8\times8\times8-8-(8+8)/8.$
$367 = (8+8)\times(8+8)+888/8.$
$368 = 888-8\times8\times8-8.$
$369 = (8+88/8)^{((8+8)/8)}+8.$
$370 = 888-8\times8\times8-8+(8+8)/8.$
$371 = 8\times(8\times8-8)-88+88/8.$
$372 = (8+8)\times(8+8+8)-(88+8)/8.$
$373 = (8+8)\times(8+8+8)-88/8.$
$374 = 888-8\times8\times8-(8+8)/8.$
$375 = 888-8\times8\times8-8/8.$
$376 = 888-8\times8\times8.$
$377 = 888-8\times8\times8+8/8.$
$378 = 888-8\times8\times8+(8+8)/8.$
$379 = 888-8\times8\times8+(8+8+8)/8.$
$380 = (8+8)\times(8+8+8)-8\times8/(8+8).$
$381 = 8\times(8\times8-8-8)+8-88/8.$
$382 = 8\times(8\times8-8-8)-(8+8)/8.$
$383 = (8+8)\times(8+8+8)-8/8.$
$384 = (8+8)\times(8+8+8).$
$385 = (8+8)\times(8+8+8)+8/8.$
$386 = (8+8)\times(8+8+8)+(8+8)/8.$
$387 = (8+8)\times(8+8+8)+(8+8+8)/8.$
$388 = (8+8)\times(8+8+8)+8\times8/(8+8).$
$389 = (8+8)\times(8+8+8)+8-(8+8+8)/8.$
$390 = (8+8)\times(8+8+8)+8-(8+8)/8.$
$391 = (8+8)\times(8+8+8)+8-8/8.$
$392 = (8+8)\times(8+8+8)+8.$
$393 = 8\times8\times8-8-888/8.$
$394 = (8+8)\times(8+8+8)+(88-8)/8.$
$395 = (8+8)\times(8+8+8)+88/8.$
$396 = (8+8)\times(8+8+8)+(88+8)/8.$
$397 = 8\times(8\times88+88)/(8+8)+8/8.$
$398 = (8+8)\times(88+888/8)/8.$
$399 = (8+8)\times(8+8+8)+8+8-8/8.$
$400 = (8+8)\times(8+8+8)+8+8.$
$401 = 8\times8\times8-888/8.$
$402 = 8\times8\times8-(888-8)/8.$
$403 = 8\times(8\times8-8-8)+8+88/8.$
$404 = 8+88\times(8\times8+8)/(8+8).$
$405 = (8+8/8)\times(8\times8-8-88/8).$
$406 = (8+8+8)\times(8+8+8/8)-(8+8)/8.$
$407 = (8+8+8)\times(8+8+8/8)-8/8.$
$408 = (8+8+8)\times(8+8+8/8).$
$409 = 8\times8\times8+8-888/8.$
$410 = 8\times8\times8+8-(888-8)/8.$
$411 = (8+8)\times(8+8+8)+8+8+88/8.$
$412 = 8\times8\times(888/8-8)/(8+8).$
$413 = 8\times8\times8-88-88/8.$
$414 = 8\times8\times8-88-(88-8)/8.$
$415 = 8\times8\times8-88-8-8/8.$
$416 = 8\times8\times8-88-8.$
$417 = 8\times8\times8-88-8+8/8.$
$418 = 8\times8\times8-88-8+(8+8)/8.$
$419 = 8\times8\times8-88-8+(8+8+8)/8.$
$420 = 8\times8\times8-88-8\times8/(8+8).$

$421 = 8\times 8\times 8-88-(8+8+8)/8.$
$422 = 8\times 8\times 8-88-(8+8)/8.$
$423 = 8\times 8\times 8-88-8/8.$
$424 = 8\times 8\times 8-88.$
$425 = 8\times 8\times 8-88+8/8.$
$426 = 8\times 8\times 8-88+(8+8)/8.$
$427 = 8\times 8\times 8-88+(8+8+8)/8.$
$428 = 8\times 8\times 8-88+8\times 8/(8+8).$
$429 = 8\times(8\times 8-8)-8-88/8.$
$430 = 8\times 8\times 8+8-88-(8+8)/8.$
$431 = 8\times 8\times 8+8-88-8/8.$
$432 = 8\times 8\times 8-88+8.$
$433 = 8\times 8\times 8-88+8+8/8.$
$434 = (8-8/8)\times(8\times 8-(8+8)/8).$
$435 = 8\times 8\times 8-88+88/8.$
$436 = 8\times 888/(8+8)-8.$
$437 = 8\times(8\times 8-8)-88/8.$
$438 = 8\times(8\times 8-8)-(88-8)/8.$
$439 = 8\times(8\times 8-8)-8-8/8.$
$440 = 8\times(8\times 8-8)-8.$
$441 = 8\times(8\times 8-8)-8+8/8.$
$442 = 8\times(8\times 8-8)-8+(8+8)/8.$
$443 = 8\times 888/(8+8)-8/8.$
$444 = 8\times 888/(8+8).$
$445 = 8\times(8\times 8-8)+8-88/8.$
$446 = 8\times(8\times 8-8)-(8+8)/8.$
$447 = 8\times(8\times 8-8)-8/8.$
$448 = 8\times(8\times 8-8).$
$449 = 8\times(8\times 8-8)+8/8.$
$450 = 8\times(8\times 8-8)+(8+8)/8.$
$451 = 8\times(8\times 8-8)-8+88/8.$
$452 = 8\times 888/(8+8)+8.$
$453 = 8\times(8\times 8-8)+8-(8+8+8)/8.$
$454 = 8\times(8\times 8-8)+8-(8+8)/8.$
$455 = 8\times(8\times 8-8)+8-8/8.$
$456 = 8\times(8\times 8-8)+8.$
$457 = 8\times(8\times 8-8)+8+8/8.$
$458 = 8\times(8\times 8-8)+8+(8+8)/8.$
$459 = 8\times(8\times 8-8)+88/8.$
$460 = 8\times(8\times 8-8)+(88+8)/8.$
$461 = 8\times(8\times 8-8)+8+8-(8+8+8)/8.$
$462 = (8\times 8+(8+8)/8)\times(8-8/8).$
$463 = 8\times(8\times 8-8)+8+8-8/8.$
$464 = 8\times(8\times 8-8)+8+8.$
$465 = 8\times(8\times 8-8)+8+8+8/8.$
$466 = 8\times(8\times 8-8)+8+8+(8+8)/8.$
$467 = 8\times(8\times 8-8)+8+88/8.$
$468 = 8\times 8\times 8-8\times 88/(8+8).$
$469 = (8-8/8)\times(8\times 8+(8+8+8)/8).$
$470 = 8\times(8\times 8-8)+(88+88)/8.$
$471 = (8+8)\times(8+8+8)+88-8/8.$
$472 = (8+8)\times(8+8+8)+88.$
$473 = (8+8)\times(8+8+8)+88+8/8.$
$474 = (88-8-8/8)\times(8-(8+8)/8).$
$475 = 8\times 8\times 8-888/(8+8+8).$
$476 = 8\times(8+8/(8+8))\times(8-8/8).$
$477 = 8\times 8\times 8-8-8-8-88/8.$
$478 = 8\times 8\times(8-8/(8+8))-(8+8)/8.$
$479 = 8\times 8\times(8-8/(8+8))-8/8.$
$480 = 8\times 8\times(8-8/(8+8)).$
$481 = 8\times 8\times(8-8/(8+8))+8/8.$
$482 = 8\times 8\times(8-8/(8+8))+(8+8)/8.$
$483 = 8\times 8\times(8-8/(8+8))+(8+8+8)/8.$
$484 = ((88+88)/8)^{((8+8)/8)}.$
$485 = 8\times 8\times 8-8-8-88/8.$
$486 = (88-8+8/8)\times(8-(8+8)/8).$
$487 = 8\times 8\times 8-8-8-8-8/8.$
$488 = 8\times 8\times 8-8-8-8.$
$489 = 8\times 8\times 8-8-8-8+8/8.$
$490 = 8\times 8\times 8-8-8-8+(8+8)/8.$
$491 = 8\times 8\times 8-8-8-8+(8+8+8)/8.$
$492 = 8\times(8\times 8-8/(8+8))-8-8.$
$493 = 8\times 8\times 8-8-88/8.$
$494 = 8\times 8\times 8-8-8-(8+8)/8.$
$495 = 8\times 8\times 8-8-8-8/8.$
$496 = 8\times 8\times 8-8-8.$
$497 = 8\times 8\times 8-8-8+8/8.$
$498 = 8\times 8\times 8-8-8+(8+8)/8.$
$499 = 8\times 8\times 8-(88+8+8)/8.$
$500 = 8\times 8\times 8-(88+8)/8.$
$501 = 8\times 8\times 8-88/8.$
$502 = 8\times 8\times 8-(88-8)/8.$
$503 = 8\times 8\times 8-8-8/8.$
$504 = 8\times 8\times 8-8.$
$505 = 8\times 8\times 8-8+8/8.$
$506 = 8\times 8\times 8-8+(8+8)/8.$
$507 = 8\times 8\times 8-8-8+88/8.$
$508 = 8\times(8\times 8-8/(8+8)).$
$509 = 8\times 8\times 8-(8+8+8)/8.$
$510 = 8\times 8\times 8-(8+8)/8.$
$511 = 8\times 8\times 8-8/8.$
$512 = 8\times 8\times 8.$
$513 = 8\times 8\times 8+8/8.$
$514 = 8\times 8\times 8+(8+8)/8.$
$515 = 8\times 8\times 8-8+88/8.$
$516 = 8\times(8\times 8+8/(8+8)).$
$517 = 8\times 8\times 8+8-(8+8+8)/8.$
$518 = 8\times 8\times 8+8-(8+8)/8.$
$519 = 8\times 8\times 8+8-8/8.$
$520 = 8\times 8\times 8+8.$
$521 = 8\times 8\times 8+8+8/8.$
$522 = 8\times 8\times 8+(88-8)/8.$
$523 = 8\times 8\times 8+88/8.$
$524 = 8\times 8\times 8+(88+8)/8.$
$525 = 8\times 8\times 8+8+8+8-88/8.$
$526 = 8\times 8\times 8+8+8-(8+8)/8.$
$527 = 8\times 8\times 8+8+8-8/8.$
$528 = 8\times 8\times 8+8+8.$
$529 = 8\times 8\times 8+8+8+8/8.$
$530 = 8\times 8\times 8+8+8+(8+8)/8.$
$531 = 8\times 8\times 8+8+88/8.$
$532 = 8\times 8\times 8+8+(88+8)/8.$
$533 = 8\times 8\times 8+8+(88+8+8)/8.$
$534 = 8\times 8\times 8+8+8+8-(8+8)/8.$
$535 = 8\times 8\times 8+8+8+8-8/8.$
$536 = 8\times(8\times 8-8)+88.$
$537 = 8\times(8\times 8-8)+88+8/8.$
$538 = 8\times(8\times 8-8)+88+(8+8)/8.$
$539 = 8\times 8\times 8+8+8+88/8.$
$540 = 8\times 8\times 8+8+8+(88+8)/8.$
$541 = (88-8)\times 8-88-88/8.$
$542 = 8\times 8\times(8+8/(8+8))-(8+8)/8.$
$543 = 8\times 8\times(8+8/(8+8))-8/8.$
$544 = 8\times 8\times(8+8/(8+8)).$
$545 = 8\times 8\times(8+8/(8+8))+8/8.$
$546 = 8\times 8\times(8+8/(8+8))+(8+8)/8.$
$547 = 8\times 8\times 8+8+8+8+88/8.$
$548 = 8\times(88-8-8/(8+8))-88.$
$549 = 8\times(8\times 8+8)-8-8-88/8.$
$550 = 8\times(88-8)-88-(8+8)/8.$
$551 = 8\times(88-8)-88-8/8.$
$552 = 8\times(88-8)-88.$
$553 = 8\times(88-8)-88+8/8.$
$554 = 8\times(88-8)-88+(8+8)/8.$
$555 = 888\times(8-(8+8+8)/8)/8.$
$556 = 8\times 8\times 8+8\times 88/(8+8).$
$557 = 8\times(8\times 8+8)-8-88/8.$
$558 = (8+8/8)\times(8\times 8-(8+8)/8).$
$559 = (8\times 8-8)\times 8+888/8.$
$560 = 8\times 8\times 8+8\times 8-8-8.$
$561 = 8\times 8\times 8+8\times 8-8-8+8/8.$
$562 = 8\times(8+8\times 8)-8-8+(8+8)/8.$
$563 = 8\times(8\times 8+8)-(88+8+8)/8.$
$564 = 8\times(8\times 8+8-8/(8+8))-8.$
$565 = 8\times(8\times 8+8)-88/8.$
$566 = 8\times(8\times 8+8)-8-(8+8)/8.$
$567 = (8+8/8)\times(8\times 8-8/8).$
$568 = 8\times(8\times 8+8)-8.$
$569 = 8\times(8\times 8+8)-8+8/8.$
$570 = 8\times(8\times 8+8)-8+(8+8)/8.$
$571 = 8\times(8+8\times 8)-8-8+88/8.$
$572 = 8\times(8\times 8+8-8/(8+8)).$
$573 = 8\times(8\times 8+8)-(8+8+8)/8.$
$574 = 8\times(8\times 8+8)-(8+8)/8.$
$575 = 8\times(8\times 8+8)-8/8.$
$576 = 8\times(8\times 8+8).$
$577 = 8\times(8\times 8+8)+8/8.$
$578 = 8\times(8\times 8+8)+(8+8)/8.$
$579 = 8\times(8\times 8+8)+(8+8+8)/8.$
$580 = 8\times(8\times 8+8+8/(8+8)).$
$581 = 8\times(8\times 8+8)+8+8-88/8.$
$582 = 8\times(8\times 8+8)+8-(8+8)/8.$
$583 = 8\times(8\times 8+8)+8-8/8.$
$584 = 8\times(8\times 8+8)+8.$
$585 = 8\times(8\times 8+8)+8+8/8.$
$586 = 8\times(8\times 8+8)+8+(8+8)/8.$
$587 = 8\times(8\times 8+8)+88/8.$
$588 = 8\times(8\times 8+8)+(88+8)/8.$
$589 = 8\times 8\times 8-88/8+88.$
$590 = 8\times 8\times 8+88-8-(8+8)/8.$
$591 = 8\times 8\times 8+88-8-8/8.$
$592 = 8\times 8\times 8+88-8.$
$593 = 8\times 88-888/8.$
$594 = 8\times 88-(888-8)/8.$
$595 = (8+88-88/8)\times(8-8/8).$
$596 = 8\times(8\times 8-8/(8+8))+88.$
$597 = 88\times(8-8/8)-8-88/8.$
$598 = 8\times 8\times 8+88-(8+8)/8.$
$599 = 8\times 8\times 8+88-8/8.$
$600 = 8\times 8\times 8+88.$
$601 = 8\times 8\times 8+88+8/8.$
$602 = 8\times 8\times 8+88+(8+8)/8.$
$603 = 88\times 8-8888/88.$
$604 = 8\times 8\times 8+88+8\times 8/(8+8).$
$605 = 88\times 8-88-88/8.$
$606 = 8\times 88-88-8-(8+8)/8.$
$607 = 8\times 88-88-8-8/8.$
$608 = 8\times 88-88-8.$
$609 = (8-8/8)\times(88-8/8).$
$610 = 88\times 8-88-8+(8+8)/8.$
$611 = 8\times 8\times 8+88+88/8.$
$612 = 8\times(88-8/(8+8))-88.$
$613 = 8\times(88-8)-8-8-88/8.$
$614 = 8\times 88-88-(8+8)/8.$
$615 = 8\times 88-88-8/8.$

$616 = 8 \times 88 - 88.$
$617 = 8 \times 88 - 88 + 8/8.$
$618 = 8 \times 88 - 88 + (8 + 8)/8.$
$619 = 8 \times 88 - 88 + (8 + 8 + 8)/8.$
$620 = 88 \times (8 - 8/8) + 8 \times 8/(8 + 8).$
$621 = 8 \times (88 - 8) - 8 - 88/8.$
$622 = 88 \times 8 - 88 + 8 - (8 + 8)/8.$
$623 = 8 \times 8 \times 8 + 888/8.$
$624 = 8 \times 88 - 88 + 8.$
$625 = 8 \times 88 - 88 + 8 + 8/8.$
$626 = 8 \times 88 - 88 + 8 + (8 + 8)/8.$
$627 = 8 \times 88 - 88 + 88/8.$
$628 = 8 \times (88 - 8) - (88 + 8)/8.$
$629 = 8 \times (88 - 8) - 88/8.$
$630 = 8 \times (88 - 8) - (88 - 8)/8.$
$631 = 8 \times (88 - 8) - 8 - 8/8.$
$632 = 8 \times (88 - 8) - 8.$
$633 = 8 \times (88 - 8) - 8 + 8/8.$
$634 = 8 \times (88 - 8) - 8 + (8 + 8)/8.$
$635 = 8 \times (88 - 8) - 8 - 8 + 88/8.$
$636 = 8 \times (88 - 8 - 8/(8 + 8)).$
$637 = 8 \times (88 - 8) + 8 - 88/8.$
$638 = 8 \times (88 - 8) - (8 + 8)/8.$
$639 = 8 \times (88 - 8) - 8/8.$
$640 = 8 \times (88 - 8).$
$641 = 8 \times (88 - 8) + 8/8.$
$642 = 8 \times (88 - 8) + (8 + 8)/8.$
$643 = 8 \times (88 - 8) - 8 + 88/8.$
$644 = 8 \times (88 - 8 + 8/(8 + 8)).$
$645 = 8 \times (88 - 8) + 8 - (8 + 8 + 8)/8.$
$646 = 8 \times (88 - 8) + 8 - (8 + 8)/8.$
$647 = 8 \times (88 - 8) + 8 - 8/8.$
$648 = 8 \times (88 - 8) + 8.$
$649 = 8 \times (88 - 8) + 8 + 8/8.$
$650 = 8 \times (88 - 8) + (88 - 8)/8.$
$651 = 8 \times (88 - 8) + 88/8.$
$652 = 8 \times (88 - 8) + (88 + 8)/8.$
$653 = 8 \times (88 - 8) + (88 + 8 + 8)/8.$
$654 = 8 \times (88 - 8) + 8 + 8 - (8 + 8)/8.$
$655 = 8 \times (88 - 8) + 8 + 8 - 8/8.$
$656 = 8 \times (88 - 8) + 8 + 8.$
$657 = 8 \times (88 - 8) + 8 + 8 + 8/8.$
$658 = 8 \times (88 - 8) + 8 + 8 + (8 + 8)/8.$
$659 = 8 \times (88 - 8) + 8 + 88/8.$
$660 = 8 \times 88 \times (8 - 8/(8 + 8))/8.$
$661 = 8 \times (8 \times 8 + 8) + 88 - (8 + 8 + 8)/8.$
$662 = 8 \times (8 \times 8 + 8) + 88 - (8 + 8)/8.$
$663 = 8 \times (8 \times 8 + 8) + 88 - 8/8.$
$664 = 8 \times (8 \times 8 + 8) + 88.$
$665 = 8 \times (8 \times 8 + 8) + 88 + 8/8.$
$666 = 888 \times (8 - (8 + 8)/8)/8.$
$667 = 8 \times (88 - 8) + 8 + 8 + 88/8.$
$668 = 8 \times (88 + 8) - 88 - (88 + 8)/8.$
$669 = 8 \times (88 + 8) - 88 - 88/8.$
$670 = (88 + 8) \times (8 - 8/8) - (8 + 8)/8.$
$671 = (88 + 8) \times (8 - 8/8) - 8/8.$
$672 = (88 + 8) \times (8 - 8/8).$
$673 = (8 - 8/8) \times (88 + 8) + 8/8.$
$674 = (8 - 8/8) \times (88 + 8) + (8 + 8)/8.$
$675 = (8 \times 8 + 88/8) \times (8 + 8/8).$
$676 = 8 \times 88 - 8 - 8 - (88 + 8)/8.$
$677 = 8 \times 88 - 8 - 8 - 88/8.$
$678 = 8 \times (88 + 8) - 88 - (8 + 8)/8.$
$679 = 8 \times (88 + 8) - 88 - 8/8.$
$680 = 8 \times (88 + 8) - 88.$
$681 = 8 \times (88 + 8) - 88 + 8/8.$
$682 = 8 \times 88 - (88 + 88)/8.$
$683 = 8 \times 88 - (88 + 88 - 8)/8.$
$684 = 8 \times 88 - 8 - (88 + 8)/8.$
$685 = 8 \times 88 - 8 - 88/8.$
$686 = 8 \times 88 - 8 - 8 - (8 + 8)/8.$
$687 = 8 \times 88 - 8 - 8 - 8/8.$
$688 = 8 \times 88 - 8 - 8.$
$689 = 8 \times 88 - 8 - 8 + 8/8.$
$690 = 8 \times 88 - 8 - 8 + (8 + 8)/8.$
$691 = 8 \times 88 - (88 + 8 + 8)/8.$
$692 = 8 \times 88 - (88 + 8)/8.$
$693 = 8 \times 88 - 88/8.$
$694 = 8 \times 88 - (88 - 8)/8.$
$695 = 8 \times 88 - 8 - 8/8.$
$696 = 8 \times 88 - 8.$
$697 = 8 \times 88 - 8 + 8/8.$
$698 = 8 \times 88 - 8 + (8 + 8)/8.$
$699 = 8 \times 88 - 8 + (8 + 8 + 8)/8.$
$700 = 8 \times 88 - 8 \times 8/(8 + 8).$
$701 = 8 \times 88 + 8 - 88/8.$
$702 = 8 \times 88 - (8 + 8)/8.$
$703 = 8 \times 88 - 8/8.$
$704 = 8 \times 88.$
$705 = 8 \times 88 + 8/8.$
$706 = 8 \times 88 + (8 + 8)/8.$
$707 = 8 \times 88 - 8 + 88/8.$
$708 = 8 \times (88 + 8/(8 + 8)).$
$709 = 8 \times 88 + 8 - (8 + 8 + 8)/8.$
$710 = 8 \times 88 + 8 - (8 + 8)/8.$
$711 = 8 \times 88 + 8 - 8/8.$
$712 = 8 \times 88 + 8.$
$713 = 8 \times 88 + 8 + 8/8.$
$714 = 8 \times 88 + 8 + (8 + 8)/8.$
$715 = 8 \times 88 + 88/8.$
$716 = 8 \times 88 + (88 + 8)/8.$
$717 = 8 \times 88 + (88 + 8 + 8)/8.$
$718 = 8 \times 88 + 8 + 8 - (8 + 8)/8.$
$719 = 8 \times 88 + 8 + 8 - 8/8.$
$720 = 8 \times 88 + 8 + 8.$
$721 = 8 \times 88 + 8 + 8 + 8/8.$
$722 = 8 \times 88 + 8 + 8 + (8 + 8)/8.$
$723 = 88 \times 8 + 8 + 88/8.$
$724 = 8 \times (88 + 8/(8 + 8)) + 8 + 8.$
$725 = 8 \times 88 + (88 + 88 - 8)/8.$
$726 = 8 \times 88 + (88 + 88)/8.$
$727 = 8 \times (88 - 8) + 88 - 8/8.$
$728 = 8 \times (88 - 8) + 88.$
$729 = 8 \times (88 - 8) + 88 + 8/8.$
$730 = 8 \times (88 - 8) + 88 + (8 + 8)/8.$
$731 = 8 \times (88 - 8) + 88 - 8 + 88/8.$
$732 = 8 \times (88 + 8/(8 + 8)) + 8 + 8 + 8.$
$733 = 888 - 88 - 8 \times 8 - (8 + 8 + 8)/8.$
$734 = 888 - 88 - 8 \times 8 - (8 + 8)/8.$
$735 = 888 - 88 - 8 \times 8 - 8/8.$
$736 = 888 - 88 - 8 \times 8.$
$736 = 888 - 88 - 8 \times 8.$
$737 = 888 - 88 - 8 \times 8 + 8/8.$
$738 = 888 - 88 - 8 \times 8 + (8 + 8)/8.$
$739 = 8 \times (88 - 8) + 88 + 88/8.$
$740 = 8 \times (88 - 8) + 88 + (88 + 8)/8.$
$741 = 8 \times (88 + 8) - 8 - 8 - 88/8.$
$742 = 8 \times (88 + 8) - 8 - 8 - (88 - 8)/8.$
$743 = 8 \times (88 + 8) - 8 - 8 - 8 - 8/8.$
$744 = 8 \times (88 + 8) - 8 - 8 - 8.$
$745 = 8 \times (88 + 8) - 8 - 8 - 8 + 8/8.$
$746 = 8 \times (88 + 8) - (88 + 88)/8.$
$747 = 888 - 88 - 8 \times 8 + 88/8.$
$748 = 8 \times (88 + 8) - 8 - (88 + 8)/8.$
$749 = 8 \times (88 + 8) - 8 - 88/8.$
$750 = 8 \times (88 + 8) - 8 - (88 - 8)/8.$
$751 = 8 \times (88 + 8) - 8 - 8 - 8/8.$
$752 = 8 \times (88 + 8) - 8 - 8.$
$753 = 8 \times (88 + 8) - 8 - 8 + 8/8.$
$754 = 8 \times (88 + 8) - 8 - 8 + (8 + 8)/8.$
$755 = 8 \times (88 + 8) - (88 + 8 + 8)/8.$
$756 = 8 \times (88 + 8) - (88 + 8)/8.$
$757 = 8 \times (88 + 8) - 88/8.$
$758 = 8 \times (88 + 8) - (88 - 8)/8.$
$759 = 8 \times (88 + 8) - 8 - 8/8.$
$760 = 8 \times (88 + 8) - 8.$
$761 = 8 \times (88 + 8) - 8 + 8/8.$
$762 = 8 \times (88 + 8) - 8 + (8 + 8)/8.$
$763 = 8 \times (88 + 8) - 8 + (8 + 8 + 8)/8.$
$764 = 8 \times (88 + 8 - 8/(8 + 8)).$
$765 = 8 \times (88 + 8) + 8 - 88/8.$
$766 = (88 + 8) \times 8 - (8 + 8)/8.$
$767 = (88 + 8) \times 8 - 8/8.$
$768 = (88 + 8) \times 8.$
$769 = (88 + 8) \times 8 + 8/8.$
$770 = (88 + 8) \times 8 + (8 + 8)/8.$
$771 = 8 \times (88 + 8) - 8 + 88/8.$
$772 = 8 \times (88 + 8) + 8 \times 8/(8 + 8).$
$773 = 8 \times (88 + 8) + 8 + 8 - 88/8.$
$774 = 8 \times (88 + 8) + 8 - (8 + 8)/8.$
$775 = 8 \times (88 + 8) + 8 - 8/8.$
$776 = 8 \times (88 + 8) + 8.$
$777 = 888 - 888/8.$
$778 = 8 \times (88 + 8) + 8 + (8 + 8)/8.$
$779 = 8 \times (88 + 8) + 88/8.$
$780 = 8 \times (88 + 8 + 8/(8 + 8)) + 8.$
$781 = 8 \times 88 + 88 - 88/8.$
$782 = 8 \times (88 + 8) + 8 + 8 - (8 + 8)/8.$
$783 = 8 \times (88 + 8) + 8 + 8 - 8/8.$
$784 = 8 \times 88 + 88 - 8.$
$785 = 888 + 8 - 888/8.$
$786 = 8 \times (88 + 8) + 8 + (88 - 8)/8.$
$787 = 8 \times (88 + 8) + 8 + 88/8.$
$788 = 8 \times (88 - 8/(8 + 8)) + 88.$
$789 = 888 - 88 - 88/8.$
$790 = 8 \times 88 + 88 - (8 + 8)/8.$
$791 = 8 \times 88 + 88 - 8/8.$
$792 = 8 \times 88 + 88.$
$793 = 8 \times 88 + 88 + 8/8.$
$794 = 8 \times 88 + 88 + (8 + 8)/8.$
$795 = 8 \times 88 + 88 + (8 + 8 + 8)/8.$
$796 = 888 - 88 - 8 \times 8/(8 + 8).$
$797 = 888 - 88 - (8 + 8 + 8)/8.$
$798 = 888 - 88 - (8 + 8)/8.$
$799 = 888 - 88 - 8/8.$
$800 = 888 - 88.$
$801 = 888 - 88 + 8/8.$
$802 = 888 - 88 + (8 + 8)/8.$
$803 = 88 \times (8 \times 8 + 8 + 8/8)/8.$
$804 = 88 + 8 + 8 \times (88 + 8/(8 + 8)).$
$805 = 8 \times 88 + 8888/88.$
$806 = 8 \times 88 - 8 + (888 - 8)/8.$
$807 = 888 - 88 + 8 - 8/8.$
$808 = 888 - 88 + 8.$
$809 = 888 - 88 + 8 + 8/8.$
$810 = 888 - 88 + (88 - 8)/8.$
$811 = 888 - 88 + 88/8.$

$812 = 888 - 8 \times 8 - (88 + 8)/8.$
$813 = 888 - 8 \times 8 - 88/8.$
$814 = 8 \times 88 + (888 - 8)/8.$
$815 = 8 \times 88 + 888/8.$
$816 = 888 - 8 \times 8 - 8.$
$817 = 888 - 8 \times 8 - 8 + 8/8.$
$818 = 888 - 8 \times 8 - 8 + (8 + 8)/8.$
$819 = 888 - 88 + 8 + 88/8.$
$820 = 888 - 8 \times (8 + 8/(8 + 8)).$
$821 = 888 - 8 \times 8 - (8 + 8 + 8)/8.$
$822 = 888 - 8 \times 8 - (8 + 8)/8.$
$823 = 888 - 8 \times 8 - 8/8.$
$824 = 888 - 8 \times 8.$
$825 = 888 - 8 \times 8 + 8/8.$
$826 = 888 - 8 \times 8 + (8 + 8)/8.$
$827 = 888 - 8 \times 8 + (8 + 8 + 8)/8.$
$828 = 888 - 8 \times (8 - 8/(8 + 8)).$
$829 = 8 \times (88 + 8 + 8) + 8 - 88/8.$
$830 = 8 \times (88 + 8 + 8) - (8 + 8)/8.$
$831 = 8 \times (88 + 8 + 8) - 8/8.$
$832 = 8 \times (88 + 8 + 8).$
$833 = 8 \times (88 + 8 + 8) + 8/8.$
$834 = 8 \times (88 + 8 + 8) + (8 + 8)/8.$
$835 = 888 - 8 \times 8 + 88/8.$
$836 = 8 \times (88 + 8 + 8 + 8/(8 + 8)).$
$837 = 8 \times (88 + 8 + 8) + 8 - (8 + 8 + 8)/8.$
$838 = 8 \times (88 + 8 + 8) + 8 - (8 + 8)/8.$
$839 = 8 \times (88 + 8 + 8) + 8 - 8/8.$
$840 = 8 \times (88 + 8 + 8) + 8.$
$841 = 8 \times (88 + 8 + 8) + 8 + 8/8.$
$842 = 8 \times (88 + 8 + 8) + (88 - 8)/8.$
$843 = 8 \times (88 + 8 + 8) + 88/8.$
$844 = 888 - 8 \times 88/(8 + 8).$
$845 = 8 \times (88 + 8 + 8) + (88 + 8 + 8)/8.$
$846 = (8 + 8/8) \times (88 + 8 - (8 + 8)/8).$
$847 = 8 \times (88 + 8 + 8) + 8 + 8 - 8/8.$
$848 = (8 + 8) \times (8 \times 8 - 88/8).$
$849 = 8 \times (88 + 8) + 88 - 8 + 8/8.$
$850 = 8 \times (88 + 8 + 8) + 8 + (88 - 8)/8.$
$851 = 8 \times (88 + 8 + 8) + 8 + 88/8.$
$852 = 8 \times (88 + 8 + 8) + 8 + (88 + 8)/8.$
$853 = 888 - 8 - 8 - 8 - 88/8.$
$854 = 8 \times (88 + 8) + 88 - (8 + 8)/8.$
$855 = 8 \times (88 + 8) + 88 - 8/8.$
$856 = 8 \times (88 + 8) + 88.$
$857 = 8 \times (88 + 8) + 88 + 8/8.$
$858 = 8 \times (88 + 8) + 88 + (8 + 8)/8.$
$859 = 8 \times (88 + 8) + 88 + (8 + 8 + 8)/8.$
$860 = 88 + 8 \times (88 + 8 + 8/(8 + 8)).$
$861 = 888 - 8 - 8 - 88/8.$
$862 = 888 - 8 - 8 - (88 - 8)/8.$
$863 = 888 - 8 - 8 - 8 - 8/8.$
$864 = 888 - 8 - 8 - 8.$
$865 = 888 - 8 - 8 - 8 + 8/8.$
$866 = 888 - 8 - 8 - 8 + (8 + 8)/8.$
$867 = 8 \times (88 + 8) + 88 + 88/8.$
$868 = 888 - 8 - (88 + 8)/8.$
$869 = 888 - 8 - 88/8.$
$870 = 888 - 8 - (88 - 8)/8.$
$871 = 888 - 8 - 8 - 8/8.$
$872 = 888 - 8 - 8.$
$873 = 888 - 8 - 8 + 8/8.$
$874 = 888 - 8 - 8 + (8 + 8)/8.$
$875 = 888 - (88 + 8 + 8)/8.$
$876 = 888 - (88 + 8)/8.$
$877 = 888 - 88/8.$
$878 = 888 - (88 - 8)/8.$
$879 = 888 - 8 - 8/8.$
$880 = 888 - 8.$
$881 = 888 - 8 + 8/8.$
$882 = 888 - 8 + (8 + 8)/8.$
$883 = 888 - 8 - 8 + 88/8.$
$884 = 888 - 8 \times 8/(8 + 8).$
$885 = 888 + 8 - 88/8.$
$886 = 888 - (8 + 8)/8.$
$887 = 888 - 8/8.$
$888 = 888.$
$890 = 888 + (8 + 8)/8.$
$891 = 888 - 8 + 88/8.$
$892 = 888 + 8 \times 8/(8 + 8).$
$893 = 888 + 8 + 8 - 88/8.$
$894 = 888 + 8 - (8 + 8)/8.$
$895 = 888 + 8 - 8/8.$
$896 = 888 + 8.$
$897 = 888 + 8 + 8/8.$
$898 = 888 + 8 + (8 + 8)/8.$
$899 = 888 + 88/8.$
$900 = 888 + (88 + 8)/8.$
$901 = 888 + (88 + 8 + 8)/8.$
$902 = 888 + 8 + 8 - (8 + 8)/8.$
$903 = 888 + 8 + 8 - 8/8.$
$904 = 888 + 8 + 8.$
$905 = 888 + 8 + 8 + 8/8.$
$906 = 888 + 8 + (88 - 8)/8.$
$907 = 888 + 8 + 88/8.$
$908 = 888 + 8 + (88 + 8)/8.$
$909 = 888 + 8 + (88 + 8 + 8)/8.$
$910 = 888 + (88 + 88)/8.$
$911 = 888 + 8 + 8 + 8 - 8/8.$
$912 = 888 + 8 + 8 + 8.$
$913 = 888 + 8 + 8 + 8 + 8/8.$
$914 = 888 + 8 + 8 + 8 + (8 + 8)/8.$
$915 = 888 + 8 + 8 + 88/8.$
$916 = 888 + 8 + 8 + (88 + 8)/8.$
$917 = 888 + 8 + (88 + 88 - 8)/8.$
$918 = 888 + 8 + (88 + 88)/8.$
$919 = 888 + 8 + 8 + 8 + 8 - 8/8.$
$920 = 888 + 8 + 8 + 8 + 8.$
$921 = 888 + 8 + 8 + 8 + 8 + 8/8.$
$922 = 888 + 8 + 8 + 8 + 8 + (8 + 8)/8.$
$923 = 888 + 8 + 8 + 8 + 88/8.$
$924 = 888 + 8 + 8 + 8 + (88 + 8)/8.$
$925 = 888 + 888/(8 + 8 + 8).$
$926 = 8 \times 88 + 888 \times (8 + 8)/(8 \times 8).$
$927 = (8 + 8/8) \times (888/8 - 8).$
$928 = 888 + 8 + 8 + 8 + 8 + 8.$
$929 = 888 + 8 + 8 + 8 + 8 + 8 + 8/8.$
$930 = (8 \times 8 - (8 + 8)/8) \times (8 + 8 - 8/8).$
$931 = 888 + 8 + 8 + 8 + 8 + 88/8.$
$932 = 888 + 8 \times 88/(8 + 8).$
$933 = 888 + 8 \times 8 - 8 - 88/8.$
$934 = 888 + 8 \times 8 - 8 - 8 - (8 + 8)/8.$
$935 = 888 + 8 \times 8 - 8 - 8 - 8/8.$
$936 = 888 + 8 \times 8 - 8 - 8.$
$937 = 888 + 8 \times 8 - 8 - 8 + 8/8.$
$938 = 88 \times (88 - (8 + 8)/8)/8 - 8.$
$939 = 888 + 8 \times 8 - (88 + 8 + 8)/8.$
$940 = 888 + 8 + 88 \times 8/(8 + 8).$
$941 = 888 + 8 \times 8 - 88/8.$
$942 = 888 + 8 \times 8 - 8 - (8 + 8)/8.$
$943 = 888 + 8 \times 8 - 8 - 8/8.$
$944 = 888 + 8 \times 8 - 8.$
$945 = 888 + 8 \times 8 - 8 + 8/8.$
$946 = 888 + 8 \times 8 - 8 + (8 + 8)/8.$
$947 = 888 + 8 \times 8 - 8 + (8 + 8 + 8)/8.$
$948 = 888 + 8 \times (8 - 8/(8 + 8)).$
$949 = 8 \times (8 \times (8 + 8) - 8) - 88/8.$
$950 = 888 + 8 \times 8 - (8 + 8)/8.$
$951 = 888 + 8 \times 8 - 8/8.$
$952 = 888 + 8 \times 8.$
$953 = 888 + 8 \times 8 + 8/8.$
$954 = 888 + 8 \times 8 + (8 + 8)/8.$
$955 = 888 + 8 \times 8 + (8 + 8 + 8)/8.$
$956 = 888 + 8 \times (8 + 8/(8 + 8)).$
$957 = 88 \times (88 - 8/8)/8.$
$958 = 8 \times (8 \times (8 + 8) - 8) - (8 + 8)/8.$
$959 = 8 \times (8 \times (8 + 8) - 8) - 8/8.$
$960 = 8 \times (8 \times (8 + 8) - 8).$
$961 = 8 \times (8 \times (8 + 8) - 8) + 8/8.$
$962 = 8 \times (8 \times (8 + 8) - 8) + (8 + 8)/8.$
$963 = 888 + 8 \times 8 + 88/8.$
$964 = 8 \times (8 \times (8 + 8) - 8 + 8/(8 + 8)).$
$965 = 888 + 88 - 88/8.$
$966 = (88 \times 88 - 8 - 8)/8.$
$967 = (88 \times 88 - 8)/8.$
$968 = 88 \times 88/8.$
$969 = (88 \times 88 + 8)/8.$
$970 = (88 \times 88 + 8 + 8)/8.$
$971 = (8 \times (8 + 8) - 8) \times 8 + 88/8.$
$972 = 888 + 88 - 8 \times 8/(8 + 8).$
$973 = 888 + 88 - (8 + 8 + 8)/8.$
$974 = 888 + 88 - (8 + 8)/8.$
$975 = 888 + 88 - 8/8.$
$976 = 888 + 88.$
$977 = 888 + 88 + 8/8.$
$978 = 888 + 88 + (8 + 8)/8.$
$979 = 88 \times (88 + 8/8)/8.$
$980 = 888 + 88 + 8 \times 8/(8 + 8).$
$981 = 888 + 88 + 8 - (8 + 8 + 8)/8.$
$982 = 888 + 88 + 8 - (8 + 8)/8.$
$983 = 888 + 88 + 8 - 8/8.$
$984 = 888 + 88 + 8.$
$985 = 888 + 88 + 8 + 8/8.$
$986 = 888 + 88 + 8 + (8 + 8)/8.$
$987 = 888 + 88 + 88/8.$
$988 = 888 + 88 + (88 + 8)/8.$
$989 = 888 + 8888/88.$
$990 = 88 \times (88 + (8 + 8)/8)/8.$
$991 = 888 + 888/8 - 8.$
$992 = 888 + 88 + 8 + 8.$
$993 = 888 + 88 + 8 + 8 + 8/8.$
$994 = 888 + 88 + 8 + 8 + (8 + 8)/8.$
$995 = 888 + 88 + 8 + 88/8.$
$996 = 888 + 88 + 8 + (88 + 8)/8.$
$997 = 888 + (888 - 8 - 8)/8.$
$998 = 888 + (888 - 8)/8.$
$999 = 888 + 888/8.$
$1000 = 888 + 88 + 8 + 8 + 8.$

12. Representations Using Number 9

$101 = 99 + (9 + 9)/9.$
$102 = 999/9 - 9.$
$103 = (999 + 9)/9 - 9.$
$104 = (999 + 9 + 9)/9 - 9.$
$105 = 99 + (99 + 9)/(9 + 9).$
$106 = 99 + 9 - (9 + 9)/9.$
$107 = 99 + 9 - 9/9.$
$108 = 99 + 9.$
$109 = (9 + (9/9)) + 99.$
$110 = (999 - 9)/9.$
$111 = 999/9.$
$112 = (999 + 9)/9.$
$113 = ((9 + 9) + 999)/9.$
$114 = (999 + 9 + 9 + 9)/9.$
$115 = 99 + 9 + 9 - (9 + 9)/9.$
$116 = 99 + 9 + 9 - 9/9.$
$117 = 99 + 9 + 9.$
$118 = 99 + 9 + 9 + 9/9.$
$119 = 9 + (999 - 9)/9.$
$120 = 9 + 999/9.$
$121 = 9 + (999 + 9)/9.$
$122 = (999 + 99)/9.$
$123 = (999 + 99 + 9)/9.$
$124 = 99 + 9 + 9 + 9 - (9 + 9)/9.$
$125 = 99 + 9 + 9 + 9 - 9/9.$
$126 = 99 + 9 + 9 + 9.$
$127 = 99 + 9 + 9 + 9 + 9/9.$
$128 = 99 + 9 + 9 + 99/9.$
$129 = 9 + 9 + 999/9.$
$130 = 9 + 9 + (999 + 9)/9.$
$131 = 9 + (999 + 99)/9.$
$132 = 99 \times (99 + 9)/(9 \times 9).$
$133 = 9 \times (9 + 9) - 9 - 9 - 99/9.$
$134 = 99 + 9 + 9 + 9 + 9 - 9/9.$
$135 = 99 + 9 + 9 + 9 + 9.$
$136 = (9 - 9/9) \times (9 + 9 - 9/9).$
$137 = 99 + 9 + 9 + 9 + 99/9.$
$138 = 9 + 9 + 9 + 999/9.$
$139 = 9 + 9 + 9 + (999 + 9)/9.$
$140 = 9 + 9 + (999 + 99)/9.$
$141 = 9 \times (9 + 9) - 9 - (99 + 9)/9.$
$142 = 9 \times (9 + 9) - 9 - 99/9.$
$143 = 9 \times (9 + 9) - 9 - 9 - 9/9.$
$144 = (9 + 9) \times (9 - 9/9).$
$145 = 9 \times (9 + 9) - 9 - 9 + 9/9.$
$146 = 9 \times (9 + 9) - 9 - 9 + (9 + 9)/9.$
$147 = 9 + 9 + 9 + 9 + 999/9.$
$148 = 99 + (99 \times 9 - 9)/(9 + 9).$
$149 = 9 \times (9 + 9) - (99 + 9 + 9)/9.$
$150 = 9 \times (9 + 9) - (99 + 9)/9.$
$151 = 9 \times (9 + 9) - 99/9.$
$152 = 9 \times (9 + 9) - 9 - 9/9.$
$153 = 9 \times (9 + 9) - 9.$
$154 = 9 \times (9 + 9) - 9 + 9/9.$
$155 = 9 \times (9 + 9) - 9 + (9 + 9)/9.$
$156 = 9 \times (9 + 9) - 9 + (9 + 9 + 9)/9.$
$157 = ((9 + 9)/9)^{(9-9/9)} - 99.$
$158 = 9 \times (9 + 9) - (9 \times 9 - 9)/(9 + 9).$
$159 = 9 \times (9 + 9) - (9 + 9 + 9)/9.$
$160 = 9 \times (9 + 9) - (9 + 9)/9.$
$161 = 9 \times (9 + 9) - 9/9.$
$162 = 9 \times (9 + 9).$
$163 = 9 \times (9 + 9) + 9/9.$
$164 = 9 \times (9 + 9) + (9 + 9)/9.$
$165 = 9 \times (9 + 9) + (9 + 9 + 9)/9.$
$166 = (9 + 9)/9 \times (9 \times 9 + (9 + 9)/9).$
$167 = 9 \times (9 + 9) + (99 - 9)/(9 + 9).$
$168 = 9 \times (9 + 9) + 9 - (9 + 9 + 9)/9.$
$169 = 9 \times 9 + 99 - 99/9.$
$170 = 9 \times (9 + 9) + 9 - 9/9.$
$171 = 9 \times (9 + 9) + 9.$
$172 = 9 \times (9 + 9) + 9 + 9/9.$
$173 = 9 \times (9 + 9) + 99/9.$
$174 = 9 \times (9 + 9) + (99 + 9)/9.$
$175 = ((9 + 9)/9)^{(9-9/9)} - 9 \times 9.$
$176 = (9 + 9) \times (99 - 99/9)/9.$
$177 = 99 + 9 \times 9 - (9 + 9 + 9)/9.$
$178 = 99 + 9 \times 9 - (9 + 9)/9.$
$179 = 99 + 9 \times 9 - 9/9.$
$180 = 99 + 9 \times 9.$
$181 = 99 + 9 \times 9 + 9/9.$
$182 = 9 \times (9 + 9) + 9 + 99/9.$
$183 = 9 \times 9 - 9 + 999/9.$
$184 = 9 \times (9 + 9) + (99 + 99)/9.$
$185 = 99 + 99 - (99 + 9 + 9)/9.$
$186 = 99 + 99 - (99 + 9)/9.$
$187 = 99 + 99 - 99/9.$
$188 = 99 + 99 - 9 - 9/9.$
$189 = 99 + 99 - 9.$
$190 = 99 + 99 - 9 + 9/9.$
$191 = 99 + 9 \times 9 + 99/9.$
$192 = 9 \times 9 + 999/9.$
$193 = 9 \times 9 + (999 + 9)/9.$
$194 = 9 \times 9 + (999 + 9 + 9)/9.$
$195 = 99 + 99 - (9 + 9 + 9)/9.$
$196 = 99 + 99 - (9 + 9)/9.$
$197 = 99 + 99 - 9/9.$
$198 = 99 + 99.$
$199 = 99 + 99 + 9/9.$
$200 = 99 + 99 + (9 + 9)/9.$
$201 = 99 - 9 + 999/9.$
$202 = 99 - 9 + (999 + 9)/9.$
$203 = 9 \times 9 + (999 + 99)/9.$
$204 = (9 + 9) \times (999/9 - 9)/9.$
$205 = 99 + 99 + 9 - (9 + 9)/9.$
$206 = 99 + 99 + 9 - 9/9.$
$207 = 99 + 99 + 9.$
$208 = 99 + 99 + 9 + 9/9.$
$209 = 99 + (999 - 9)/9.$
$210 = 99 + 999/9.$
$211 = 99 + (999 + 9)/9.$
$212 = 99 + (999 + 9 + 9)/9.$
$213 = (9 + 9) \times (9 + 9) - 999/9.$
$214 = 99 + (9 + 9) \times (9 - 9/9)/9.$
$215 = 99 + 99 + 9 + 9 - 9/9.$
$216 = 99 + 99 + 9 + 9.$
$217 = 9 \times 9 \times 9 - ((9 + 9)/9)^9.$
$218 = 99 + 9 + (999 - 9)/9.$
$219 = 99 + 9 + 999/9.$
$220 = 99 \times (9 + 99/9)/9.$
$221 = 99 + (999 + 99)/9.$
$222 = 999 \times (9 + 9)/(9 \times 9).$
$223 = 9 \times (9 + 9 + 9) - 9 - 99/9.$
$224 = 9 \times (9 + 9 + 9) - 9 - 9 - 9/9.$
$225 = 9 \times (9 + 9 + 9) - 9 - 9.$
$226 = (9 + 9) \times (9 + 9) - 99 + 9/9.$
$227 = 99 + 9 + 9 + (999 - 9)/9.$
$228 = 99 + 9 + 9 + 999/9.$
$229 = 9 + 99 \times (9 + 99/9)/9.$
$230 = 99 + 9 + (999 + 99)/9.$
$231 = 9 \times (9 + 9 + 9) - (99 + 9)/9.$
$232 = 9 \times (9 + 9 + 9) - 99/9.$
$233 = 9 \times (9 + 9 + 9) - 9 - 9/9.$
$234 = 9 \times (9 + 9 + 9) - 9.$
$235 = 9 \times (9 + 9 + 9) - 9 + 9/9.$
$236 = 9 \times (9 + 9 + 9) - 9 + (9 + 9)/9.$
$237 = 9 \times (9 + 9 + 9) - 9 + (9 + 9 + 9)/9.$
$238 = ((9 + 9)/9)^{(9-9/9)} - 9 - 9.$
$239 = 9 \times (9 + 9 + 9) - (9 + 9 + 9 + 9)/9.$
$240 = 9 \times (9 + 9 + 9) - (9 + 9 + 9)/9.$
$241 = 9 \times (9 + 9 + 9) - (9 + 9)/9.$
$242 = 9 \times (9 + 9 + 9) - 9/9.$
$243 = 9 \times (9 + 9 + 9).$
$244 = 9 \times (9 + 9 + 9) + 9/9.$
$245 = 9 \times (9 + 9 + 9) + (9 + 9)/9.$
$246 = 9 \times (9 \times 9 \times 9 + 9)/(9 + 9 + 9).$
$247 = ((9 + 9)/9)^{(9-9/9)} - 9.$
$248 = (9 \times 9 + 9)/(9 + 9) + 9 \times (9 + 9 + 9).$
$249 = 9 + (9 + 9) \times (9 + 999/9)/9.$
$250 = 9 \times (9 + 9) + 99 - 99/9.$
$251 = 9 \times (9 + 9 + 9) + 9 - 9/9.$
$252 = 9 \times (9 + 9 + 9) + 9.$
$253 = 9 \times (9 + 9 + 9) + 9 + 9/9.$
$254 = 9 \times (9 + 9 + 9) + 99/9.$
$255 = ((9 + 9)/9)^{(9-9/9)} - 9/9.$
$256 = ((9 + 9)/9)^{(9-9/9)}.$
$257 = ((9 + 9)/9)^{(9-9/9)} + 9/9.$
$258 = 9 \times (9 + 9) + 99 - (9 + 9 + 9)/9.$
$259 = 9 \times (9 + 9) + 99 - (9 + 9)/9.$
$260 = 9 \times (9 + 9) + 99 - 9/9.$
$261 = 9 \times (9 + 9) + 99.$
$262 = 9 \times (9 + 9) + 99 + 9/9.$
$263 = 9 \times (9 + 9 + 9) + 9 + 99/9.$
$264 = 9 \times (9 + 9) - 9 + 999/9.$
$265 = ((9 + 9)/9)^{(9-9/9)} + 9.$
$266 = ((9 + 9)/9)^{(9-9/9)} + 9 + 9/9.$
$267 = ((9 + 9)/9)^{(9-9/9)} + 99/9.$
$268 = 9 \times 9 + 99 + 99 - 99/9.$
$269 = 999 - 9 \times 9 \times 9 - 9/9.$
$270 = 999 - 9 \times 9 \times 9.$
$271 = 999 - 9 \times 9 \times 9 + 9/9.$
$272 = 9 \times (9 + 9) + 99 + 99/9.$
$273 = 9 \times (9 + 9) + 999/9.$
$274 = 9 \times (9 + 9) + (999 + 9)/9.$
$275 = 99 \times (9 + 9 + 9 - (9 + 9)/9)/9.$
$276 = (9 + 9 + 9) \times (9 \times 9 + 99/9)/9.$
$277 = 99 + 99 + 9 \times 9 - (9 + 9)/9.$
$278 = 99 + 99 + 9 \times 9 - 9/9.$
$279 = 99 + 99 + 9 \times 9.$
$280 = 99 + 99 + 9 \times 9 + 9/9.$
$281 = 999 - 9 \times 9 \times 9 + 99/9.$
$282 = 9 \times (9 + 9) + 9 + 999/9.$
$283 = 9 \times (9 + 9) + 9 + (999 + 9)/9.$
$284 = 9 \times (9 + 9) + (999 + 99)/9.$
$285 = 99 + 99 + 99 - (99 + 9)/9.$
$286 = 99/9 \times (9 + 9 + 9 - 9/9).$
$287 = 99 + 99 + 99 - 9 - 9/9.$
$288 = 99 + 99 + 99 - 9.$
$289 = (9 + 9 - 9/9)^{(}(9 + 9)/9).$
$290 = (9 + 9/9) \times (9 + 9 + 99/9).$
$291 = 99 + 9 \times 9 + 999/9.$
$292 = 99 + 9 \times 9 + (999 + 9)/9.$
$293 = (9 + 9) \times (9 + 9) - 9 - (99 + 99)/9.$
$294 = (9 + 9 + 9) \times (99 - 9/9)/9.$
$295 = (9 + 9) \times (9 + 9) - 9 - 9 - 99/9.$
$296 = 99 + 99 + 99 - 9/9.$
$297 = 99 + 99 + 99.$

$298 = 99 + 99 + 99 + 9/9.$
$299 = (99 \times (9 + 9 + 9) + 9 + 9)/9.$
$300 = (9 + 9 + 9) \times (99 + 9/9)/9.$
$301 = (9 + 99/9)^{(}(9 + 9)/9) - 99.$
$302 = (9+9) \times (9 \times (9+9) - 99/9)/9.$
$303 = (9+9) \times (9+9) - 9 - (99+9)/9.$
$304 = (9 + 9) \times (9 + 9) - 9 - 99/9.$
$305 = (9+9) \times (9+9) - 9 - 9 - 9/9.$
$306 = (9 + 9) \times (9 + 9 - 9/9).$
$307 = (9+9) \times (9+9) - 9 - 9 + 9/9.$
$308 = 99 \times (9 + 9 + 9 + 9/9)/9.$
$309 = 99 + 99 + 999/9.$
$310 = 99 + 99 + (999 + 9)/9.$
$311 = (9+9) \times (9+9) - (99+9+9)/9.$
$312 = (9 + 9) \times (9 + 9) - (99 + 9)/9.$
$313 = (9 + 9) \times (9 + 9) - 99/9.$
$314 = (9 + 9) \times (9 + 9) - 9 - 9/9.$
$315 = (9 + 9) \times (9 + 9) - 9.$
$316 = (9 + 9) \times (9 + 9) - 9 + 9/9.$
$317 = (9+9) \times (9+9) - 9 + (9+9)/9.$
$318 = 99 + 99 + 9 + 999/9.$
$319 = 99 \times (9 + 9 + 99/9)/9.$
$320 = (9+9+9+9) \times (9 \times 9 - 9/9)/9.$
$321 = (9+9) \times (9+9) - (9+9+9)/9.$
$322 = (9 + 9) \times (9 + 9) - (9 + 9)/9.$
$323 = (9 + 9) \times (9 + 9) - 9/9.$
$324 = (9 + 9) \times (9 + 9).$
$325 = (9 + 9) \times (9 + 9) + 9/9.$
$326 = (9 + 9) \times (9 + 9) + (9 + 9)/9.$
$327 = (9+9) \times (9+9) + (9+9+9)/9.$
$328 = (9 \times 9 \times 9+9) \times (9 - 9/9)/(9+9).$
$329 = (9+9) \times (9+9) + (99-9)/(9+9).$
$330 = 9 \times 99 \times (9 + 9/9)/(9 + 9 + 9).$
$331 = (9+9) \times (9+9) + 9 - (9+9)/9.$
$332 = (9 + 9) \times (9 + 9) + 9 - 9/9.$
$333 = (9 + 9) \times (9 + 9) + 9.$
$334 = (9 + 9) \times (9 + 9) + 9 + 9/9.$
$335 = (9 + 9) \times (9 + 9) + 99/9.$
$336 = (9 + 9) \times (9 + 9) + (99 + 9)/9.$
$337 = 9 \times 9 + ((9 + 9)/9)^{(9-9/9)}.$
$338 = 9 \times 9 + ((9 + 9)/9)^{(9-9/9)} + 9/9.$
$339 = 9 \times (9 + 9 + 9) + 99 - (9 + 9 + 9)/9.$
$340 = (9 + 9 - 9/9) \times (9 + 99/9).$
$341 = 9 \times (9 + 9 + 9) + 99 - 9/9.$
$342 = 9 \times (9 + 9 + 9) + 99.$
$343 = 9 \times (9 + 9 + 9) + 99 + 9/9.$
$344 = (9 + 9) \times (9 + 9) + 9 + 99/9.$
$345 = 9 \times (9 + 9 + 9) - 9 + 999/9.$
$346 = ((9+9)/9) \times ((9+9) \times 9 + 99/9).$
$347 = 9 \times (9 \times 99 + 9/9)/(9 + 9) - 99.$
$348 = (9 + 9 + 99/9) \times (99 + 9)/9.$
$349 = ((9+9)/9)^9 - 9 \times (9+9) - 9/9.$
$350 = ((9 + 9)/9)^9 - 9 \times (9 + 9).$
$351 = 9 \times (9 + 9 + 9) + 99 + 9.$
$352 = (9 + 9 + 9/9)^{(}(9 + 9)/9) - 9.$
$353 = (9+9) \times (9+9) + 9 + 9 + 99/9.$
$354 = 9 \times (9 + 9 + 9) + 999/9.$
$355 = 99 + ((9 + 9)/9)^{(9-9/9)}.$
$356 = 9 \times (9 \times 9 \times 9 + 9/9)/(9+9) - 9.$
$357 = (9 + (9+99)/9) \times (9 + 9 - 9/9).$
$358 = (9+9) \times (9 + 99/9) - (9+9)/9.$
$359 = (9 + 9) \times (9 + 99/9) - 9/9.$
$360 = (9 + 9) \times (9 + 99/9).$
$361 = (9 + 9 + 9/9)^{(}(9 + 9)/9).$
$362 = (9 + 9 + 9/9)^{(}(9 + 9)/9) + 9/9.$
$363 = 9 \times (9 + 9 + 9) + 9 + 999/9.$
$364 = 9 \times (9 \times 9 \times 9 - 9/9)/(9 + 9).$
$365 = 9 \times (9 \times 9 \times 9 + 9/9)/(9 + 9).$
$366 = 9 \times (999 + 99)/(9 + 9 + 9).$
$367 = 9 \times 9 + 99 \times (9 + 9 + 9 - 9/9)/9.$
$368 = 9 + 9 + ((9+9)/9)^9 - 9 \times (9+9).$
$369 = (9 + 9) \times (9 + 99/9) + 9.$
$370 = 9 \times 99 - 9 - ((9 + 9)/9)^9.$
$371 = (9 + 9) \times (99/9 + 9) + 99/9.$
$372 = 9 \times (9 + 9) + 99 + 999/9.$
$373 = 9999/9 - 9 \times 9 \times 9 - 9.$
$374 = (99 + 99) \times (9 + 9 - 9/9)/9.$
$375 = (9 + 9) \times (9 + 9 + 9) - 999/9.$
$376 = (9+9+9+9+99/9) \times (9 - 9/9).$
$377 = (9+9) \times (9 + (9+99)/9) - 9/9.$
$378 = ((99 + 9)/9 + 9) \times (9 + 9).$
$379 = 9 \times 99 - ((9 + 9)/9)^9.$
$380 = (99/9 + 9) \times (9 + 9 + 9/9).$
$381 = 9 \times (9 + 9) + 9 + 99 + 999/9.$
$382 = 9999/9 - 9 \times 9 \times 9.$
$383 = (9999 + 9)/9 - 9 \times 9 \times 9.$
$384 = (9 \times 9 + 999/9) \times (9 + 9)/9.$
$385 = 99 \times (9 + 9 + 9 + 9 - 9/9)/9.$
$386 = (9+9) \times (9+9+9) - 99 - 9/9.$
$387 = (9 + 9) \times (9 + 9 + 9) - 99.$
$388 = 9 \times 99 - ((9 + 9)/9)^9 + 9.$
$389 = (9 + 9 + 9/9) \times (9 + 99/9) + 9.$
$390 = (999/9 + 9 - 9 \times 9) \times (9 + 9/9).$
$391 = (9 + 99/9)^{(}(9 + 9)/9) - 9.$
$392 = (9 \times 9 - 9) \times (99 - 9/9)/(9 + 9).$
$393 = (9 + 9) \times (9 + 9) + 9 \times 9 - (99 + 9)/9.$
$394 = (9+9) \times (9+9) + 9 \times 9 - 99/9.$
$395 = ((9 + 9)/9)^9 - 9 - 99 - 9.$
$396 = (9 + 9) \times (99 + 99)/9.$
$397 = ((9 + 9) \times (99 + 99) + 9)/9.$
$398 = (9 + 9) \times (99 + 99 + 9/9)/9.$
$399 = (9 + 99/9)^{(}(9 + 9)/9) - 9/9.$
$400 = (9 + 99/9)^{(}(9 + 9)/9).$
$401 = ((9 + 9)/9)^9 - 999/9.$
$402 = ((9 + 9)/9)^9 - 99 - 99/9.$
$403 = ((9 + 9)/9)^9 - 99 - 9 - 9/9.$
$404 = ((9 + 9)/9)^9 - 99 - 9.$
$405 = (9 + 9) \times (9 + 9) + 9 \times 9.$
$406 = (9 + 9) \times (9 + 9) + 9 \times 9 + 9/9.$
$407 = 99 \times (9 + 9 + 9 + 9 + 9/9)/9.$
$408 = 99 + 99 + 99 + 999/9.$
$409 = (9 + 99/9)^{(}(9 + 9)/9) + 9.$
$410 = ((9 + 9)/9)^9 + 9 - 999/9.$
$411 = ((9 + 9)/9)^9 - 99 - (9 + 9)/9.$
$412 = ((9 + 9)/9)^9 - 99 - 9/9.$
$413 = ((9 + 9)/9)^9 - 99.$
$414 = (9 + 9) \times (9 + 9) + 99 - 9.$
$415 = (9+9) \times (9+9) + 99 - 9 + 9/9.$
$416 = (9+9) \times (9+9) + 9 \times 9 + 99/9.$
$417 = (9 + 9) \times (9 + 9) + 9 \times 9 + (99 + 9)/9.$
$418 = (9 + 99/9)^{(}(9 + 9)/9) + 9 + 9.$
$419 = ((9+9)/9)^9 - 9 \times 9 - (99+9)/9.$
$420 = (9 + 9) \times (99 + 999/9)/9.$
$421 = ((9 + 9)/9)^9 - 99 + 9 - 9/9.$
$422 = ((9 + 9)/9)^9 - 99 + 9.$
$423 = (9 + 9) \times (9 + 9) + 99.$
$424 = (9 + 9) \times (9 + 9) + 99 + 9/9.$
$425 = (9+9) \times (9+9) + 99 + (9+9)/9.$
$426 = (9 + 9) \times (9 + 9) - 9 + 999/9.$
$427 = (9+9) \times (9+9) - 9 + (999+9)/9.$
$428 = ((9 + 9)/9)^9 - 9 \times 9 - (9 + 9 + 9)/9.$
$429 = ((9+9)/9)^9 - 9 \times 9 - (9+9)/9.$
$430 = ((9 + 9)/9)^9 - 9 \times 9 - 9/9.$
$431 = ((9 + 9)/9)^9 - 9 \times 9.$
$432 = (9 + 9) \times (9 + 9) + 99 + 9.$
$433 = (9+9) \times (9+9) + 99 + 9 + 9/9.$
$434 = (9+9) \times (9+9) + (999 - 9)/9.$
$435 = (9 + 9) \times (9 + 9) + 999/9.$
$436 = (9+9) \times (9+9) + (999+9)/9.$
$437 = 9 \times (9 \times 99 + 9/9)/(9 + 9) - 9.$
$438 = 9 \times (9 \times 9 - 9) - 99 - 999/9.$
$439 = ((9 + 9)/9)^9 + 9 - 9 \times 9 - 9/9.$
$440 = ((9 + 9)/9)^9 + 9 - 9 \times 9.$
$441 = 9 \times (99 \times 9 - 9)/(9 + 9).$
$442 = (9+9+9-9/9) \times (9+9-9/9).$
$443 = (9+9) \times (9+9) + 99 + 9 + 99/9.$
$444 = 999 \times (9 + 9 + 9 + 9)/(9 \times 9).$
$445 = 9 \times (9 \times 99 - 9/9)/(9 + 9).$
$446 = 9 \times (9 \times 99 + 9/9)/(9 + 9).$
$447 = 9 \times (9 \times 99 + 9/9)/(9+9) + 9/9.$
$448 = (9 - 9/9) \times (9 + 999)/(9 + 9).$
$449 = ((9 + 9)/9)^9 + 9 + 9 - 9 \times 9.$
$450 = 9 \times (9 \times 99 + 9)/(9 + 9).$
$451 = 9 \times (99 \times 9 + 99/9)/(9 + 9).$
$452 = 9 \times (9 \times 99 + 9)/(9+9) + (9 + 9)/9.$
$453 = 9 \times (9 + 9 + 9) + 99 + 999/9.$
$454 = 9 \times (99 \times 9 - 9/9)/(9 + 9) + 9.$
$455 = 9 \times (99 \times 9 + 9/9)/(9 + 9) + 9.$
$456 = (9+9+9+99/9) \times (9 + 99)/9.$
$457 = (9 + 9 + 9) \times (9 + 9) - 9 - 9 - 99/9.$
$458 = ((9+9)/9)^9 + 9 + 9 + 9 - 9 \times 9.$
$459 = (9 + 9 + 9) \times (9 + 9 - 9/9).$
$460 = 9 \times (99 + 9) - ((9 + 9)/9)^9.$
$461 = (9 \times 9 - 99/9) \times (9 - 9/9) - 99.$
$462 = 9 \times (9 - 9 \times 9) + (9999 - 9)/9.$
$463 = 9 \times (9 - 9 \times 9) + 9999/9.$
$464 = (9 + 9 + 99/9) \times (9 + 9 - (9 + 9)/9).$
$465 = (9 + 9) \times (9 + 9 + 9) - 9 - (99 + 9)/9.$
$466 = (9+9) \times (9+9+9) - 9 - 99/9.$
$467 = (9+9) \times (9+9+9-9/9) - 9/9.$
$468 = (9 + 9) \times (9 + 9 + 9 - 9/9).$
$469 = (9+9) \times (9+9+9) - 9 - 9 + 9/9.$
$470 = (9 + 9) \times (9 + 9 + 9) - 9 - 9 + (9 + 9)/9.$
$471 = (9+9) \times (9+9+9) - 9 - 9 + (9 + 9 + 9)/9.$
$472 = (9+99/9)^{(}(9+9)/9) + 9 \times 9 - 9.$
$473 = 9 \times 9 \times 9 - ((9 + 9)/9)^{(9-9/9)}.$
$474 = (9+9) \times (9+9+9) - (9+99)/9.$
$475 = (9 + 9) \times (9 + 9 + 9) - 99/9.$
$476 = (9+9) \times (9+9+9) - 9 - 9/9.$
$477 = (9 + 9) \times (9 + 9 + 9) - 9.$
$478 = (9+9) \times (9+9+9) - 9 + 9/9.$
$479 = (9 + 9) \times (9 + 9 + 9) - 9 + (9 + 9)/9.$
$480 = (9 + 9) \times (9 + 9 + 9) - 9 + (9 + 9 + 9)/9.$
$481 = 9 \times 9 + (9 + 99/9)^{(}(9 + 9)/9).$

$482 = (9+9) \times (9+9+9) - (9 \times 9 - 9)/(9+9)$.
$483 = (9+9+9) \times ((9+9) \times 9 - 9/9)/9$.
$484 = ((99+99)/9)^{(}(9+9)/9)$.
$485 = (9+9) \times (9+9+9) - 9/9$.
$486 = (9+9) \times (9+9+9)$.
$487 = (9+9) \times (9+9+9) + 9/9$.
$488 = (9+9) \times (9+9+9) + (9+9)/9$.
$489 = (9+9+9) \times (9 \times (9+9)+9/9)/9$.
$490 = (99 - 9/9) \times (99 - 9)/(9+9)$.
$491 = ((9+9)/9)^9 - 9 - (9+99)/9$.
$492 = ((9+9)/9)^9 - 9 - 99/9$.
$493 = ((9+9)/9)^9 - 9 - 9 - 9/9$.
$494 = ((9+9)/9)^9 - 9 - 9$.
$495 = (9+9) \times (9+9+9) + 9$.
$496 = (9+9) \times (9+9+9) + 9 + 9/9$.
$497 = (9+9) \times (9+9+9) + 99/9$.
$498 = (9+9) \times (9+9+9) + (99+9)/9$.
$499 = (99/9+9)^{(}(9+9)/9) + 99$.
$500 = ((9+9)/9)^9 - (9+99)/9$.
$501 = ((9+9)/9)^9 - 99/9$.
$502 = ((9+9)/9)^9 - 9 - 9/9$.
$503 = ((9+9)/9)^9 - 9$.
$504 = ((9+9)/9)^9 - 9 + 9/9$.
$505 = ((9+9)/9)^9 - 9 + (9+9)/9$.
$506 = ((9+9)/9)^9 - 9 + (9+9+9)/9$.
$507 = ((9+9)/9)^9 - (9 \times 9 + 9)/(9+9)$.
$508 = ((9+9)/9)^9 - (9 \times 9 - 9)/(9+9)$.
$509 = ((9+9)/9)^9 - (9+9+9)/9$.
$510 = ((9+9)/9)^9 - (9+9)/9$.
$511 = ((9+9)/9)^9 - 9/9$.
$512 = ((9+9)/9)^9$.
$513 = ((9+9)/9)^9 + 9/9$.
$514 = ((9+9)/9)^9 + (9+9)/9$.
$515 = ((9+9)/9)^9 + (9+9+9)/9$.
$516 = ((9+9)/9)^9 + (9 \times 9 - 9)/(9+9)$.
$517 = ((9+9)/9)^9 + (9 \times 9 + 9)/(9+9)$.
$518 = ((9+9)/9)^9 + 9 - (9+9+9)/9$.
$519 = ((9+9)/9)^9 + 9 - (9+9)/9$.
$520 = ((9+9)/9)^9 + 9 - 9/9$.
$521 = ((9+9)/9)^9 + 9$.
$522 = ((9+9)/9)^9 + 9 + 9/9$.
$523 = ((9+9)/9)^9 + 99/9$.
$524 = ((9+9)/9)^9 + (99+9)/9$.
$525 = ((9+9)/9)^9 + (99+9+9)/9$.
$526 = ((9+9)/9)^9 + (99+9+9+9)/9$.
$528 = ((9+9)/9)^9 + 9 + 9 - (9+9+9)/9$.
$528 = ((9+9)/9)^9 + 9 + 9 - (9+9)/9$.
$529 = ((9+9)/9)^9 + 9 + 9 - 9/9$.
$530 = ((9+9)/9)^9 + 9 + 9$.
$531 = 9 \times 9 \times 9 - 99 - 99$.
$532 = ((9+9)/9)^9 + 9 + 99/9$.
$533 = ((9+9)/9)^9 + 9 + (99+9)/9$.
$534 = ((9+9)/9)^9 + 9 + (99+9+9)/9$.
$535 = 9 \times (9 \times 9 - 9) - (999+9+9)/9$.
$536 = 9 \times (9 \times 9 - 9) - (999+9)/9$.
$537 = 9 \times (9 \times 9 - 9) - 999/9$.
$538 = ((9+9)/9)^9 + 9 + 9 + 9 - 9/9$.
$539 = ((9+9)/9)^9 + 9 + 9 + 9$.
$540 = (9+9+9) \times (9+99/9)$.
$541 = 9 \times (9 \times 9 - 9) - 9 - 99 + 9/9$.
$542 = 9 \times (9 \times 9 - 9) - 9 - 99 + (9+9)/9$.
$543 = (9+9+9) \times (99+9/9+9 \times 9)/9$.
$554 = 9 \times (9 \times 9 - 9 - 9) - (99+9+9)/9$.
$545 = 99 + 9 \times (9 \times 99 + 9/9)/(9+9)$.
$546 = 9 \times (9 \times 9 - 9) - (999/9 - 9)$.
$547 = 9 \times (9 \times 9 - 9 - 9) - 9 - 99/9$.
$548 = 9 \times (9 \times 9 - 9) - 99 - 9/9$.
$549 = 9 \times (9 \times 9 - 9) - 99$.
$550 = 9 \times (9 \times 9 - 9) - 99 + 9/9$.
$551 = 9 \times (9 \times 9 - 9) - 99 + (9+9)/9$.
$552 = (9 \times 9 - (99+9)/9) \times (9 - 9/9)$.
$553 = (9 \times 9 - (9+9)/9) \times (9 - (9+9)/9)$.
$554 = 9 \times (9 \times 9 - 9 - 9) - (99+9+9)/9$.
$555 = 9 \times (9 \times 9 - 9 - 9) - (99+9)/9$.
$556 = 9 \times (9 \times 9 - 9 - 9) - 99/9$.
$557 = 9 \times (9 \times 9 - 9 - 9) - 9 - 9/9$.
$558 = 9 \times (9 \times 9 - 9 - 9) - 9$.
$559 = 9 \times (9 \times 9 - 9 - 9) - 9 + 9/9$.
$560 = (9 \times 9 - 99/9) \times (9 - 9/9)$.
$561 = 9 \times (9 \times 9 - 9 - 9) - 9 + (9+9+9)/9$.
$562 = 9 \times (9+9) + (9 + 99/9)^{(}(9+9)/9)$.
$563 = 9 \times (9 \times 9 - 9 - 9) - (9+9+9+9)/9$.
$564 = 9 \times (9 \times 9 - 9 - 9) - (9+9+9)/9$.
$565 = 9 \times (9 \times 9 - 9 - 9) - (9+9)/9$.
$566 = 9 \times (9 \times 9 - 9 - 9) - 9/9$.
$567 = 9 \times (9 \times 9 - 9 - 9)$.
$568 = 9 \times (9 \times 9 - 9 - 9) + 9/9$.
$569 = 9 \times (9 \times 9 - 9 - 9) + (9+9)/9$.
$570 = 9 \times (9 \times 9 - 9 - 9) + (9+9+9)/9$.
$571 = 9 \times (9 \times 9 - 9 - 9) + (9+9+9+9)/9$.
$572 = (9+9+9-9/9) \times (99+99)/9$.
$573 = 9 \times 9 + ((9+9)/9)^9 - 9 - 99/9$.
$574 = (9 - (9+9)/9) \times (9 \times 9 + 9/9)$.
$575 = (9 \times 9 - 9) \times (9 - 9/9) - 9/9$.
$576 = (9 \times 9 - 9) \times (9 - 9/9)$.
$577 = (9 \times 9 - 9) \times (9 - 9/9) + 9/9$.
$578 = 9 \times (9 \times 9 - 9 - 9) + 99/9$.
$579 = 9 \times (9 \times 9 - 9 - 9) + (99+9)/9$.
$580 = (9+9+99/9) \times (9+99/9)$.
$581 = (9 \times 9 + (9+9)/9) \times (9 - (9+9)/9)$.
$582 = 9 \times 9 + ((9+9)/9)^9 - 99/9$.
$583 = 9 \times 9 + ((9+9)/9)^9 - 9 - 9/9$.
$584 = 9 \times 9 + ((9+9)/9)^9 - 9$.
$585 = 9 \times (9 \times 9 - 9 - 9) + 9 + 9$.
$586 = 9 \times (9 \times 9 - 9 - 9) + 9 + 9 + 9/9$.
$587 = 9 \times (9 \times 9 - 9 - 9) + 9 + 99/9$.
$588 = (99 - 9/9) \times (9 - (9+9+9)/9)$.
$589 = 9 \times 9 + 9 + (9 \times 999 - 9)/(9+9)$.
$590 = 9 \times 9 + ((9+9)/9)^9 - (9+9+9)/9$.
$591 = 9 \times 9 + ((9+9)/9)^9 - (9+9)/9$.
$592 = 9 \times 9 + ((9+9)/9)^9 - 9/9$.
$593 = 9 \times 9 + ((9+9)/9)^9$.
$594 = 99 \times (99+9)/(9+9)$.
$595 = 99 \times (99+9)/(9+9) + 9/9$.
$596 = 99 \times (99+9)/(9+9) + (9+9)/9$.
$597 = (9+9) \times (9+9+9) + 999/9$.
$598 = 9 \times 9 \times 9 - 9 - (99+999)/9$.
$599 = 9999/9 - ((9+9)/9)^9$.
$600 = (99+9) \times (99+9/9)/(9+9)$.
$601 = ((9+9)/9)^9 + 99 - 9 - 9/9$.
$602 = ((9+9)/9)^9 + 99 - 9$.
$603 = ((9+9)/9)^9 + 99 - 9 + 9/9$.
$604 = ((9+9)/9)^9 + 99 - 9 + (9+9)/9$.
$605 = 99 \times (999 - 9)/(9 \times (9+9))$.
$606 = 9 \times 9 \times 9 - (999 + 99 + 9)/9$.
$607 = 9 \times 9 \times 9 - (999 + 99)/9$.
$608 = 9 \times 9 \times 9 - 99 \times 99/(9 \times 9)$.
$609 = 9 \times 9 \times 9 - 9 - 999/9$.
$610 = ((9+9)/9)^9 + 99 - 9/9$.
$611 = ((9+9)/9)^9 + 99$.
$612 = 9 \times 9 \times 9 - 9 - 9 - 99$.
$613 = 9 \times 9 \times 9 - 9 - 9 - 99 + 9/9$.
$614 = ((9+9)/9)^9 - 9 + 999/9$.
$615 = 9 \times 9 \times 9 - (999+9+9+9)/9$.
$616 = 9 \times 9 \times 9 - (999+9+9)/9$.
$617 = 9 \times 9 \times 9 - (999+9)/9$.
$618 = 9 \times 9 \times 9 - 999/9$.
$619 = 9 \times 9 \times 9 - 99 - 99/9$.
$620 = 9 \times 9 \times 9 - 99 - 9 - 9/9$.
$621 = 9 \times 9 \times 9 - 99 - 9$.
$622 = 9 \times 9 \times 9 - 9 - 99 + 9/9$.
$623 = ((9+9)/9)^9 + 999/9$.
$624 = (9 - 9/9) \times (9 \times 9 - (9+9+9)/9)$.
$625 = (9+9+9-(9+9)/9)^{(}(9+9)/9)$.
$626 = 9 + 9 \times 9 \times 9 - (999+9)/9$.
$627 = 9 \times 9 \times 9 + 9 - 999/9$.
$628 = 9 \times 9 \times 9 - 99 - (9+9)/9$.
$629 = 9 \times 9 \times 9 - 99 - 9/9$.
$630 = 9 \times 9 \times 9 - 99$.
$631 = 9 \times 9 \times 9 - 99 + 9/9$.
$632 = 9 \times 9 \times 9 - 99 + (9+9)/9$.
$633 = 9 \times 9 \times 9 - 99 + (9+9+9)/9$.
$634 = 9 \times 9 \times 9 - 99 + (9+9+9+9)/9$.
$635 = 9 \times 99 - ((9+9)/9)^{(9-9/9)}$.
$636 = 9 \times (9 \times 9 - 9) - (99+9)/9$.
$637 = 9 \times (9 \times 9 - 9) - 99/9$.
$638 = 9 \times (9 \times 9 - 9) - 9 - 9/9$.
$639 = 9 \times (9 \times 9 - 9) - 9$.
$640 = 9 \times (9 \times 9 - 9) - 9 + 9/9$.
$641 = 9 \times (9 \times 9 - 9) - 9 + (9+9)/9$.
$642 = 9 \times (9 \times 9 - 9) - 9 + (9+9+9)/9$.
$643 = 9 \times (9 \times 9 - 9) - (99 - 9)/(9+9)$.
$644 = (9 \times 9 + 99/9) \times (9 - (9+9)/9)$.
$645 = 9 \times (9 \times 9 - 9) - (9+9+9)/9$.
$646 = 9 \times (9 \times 9 - 9) - (9+9)/9$.
$647 = 9 \times (9 \times 9 - 9) - 9/9$.
$648 = 9 \times (9 \times 9 - 9)$.
$649 = 9 \times (9 \times 9 - 9) + 9/9$.
$650 = 9 \times (9 \times 9 - 9) + (9+9)/9$.
$651 = 9 \times (9 \times 9 - 9) + (9+9+9)/9$.
$652 = 9 \times (9 \times 9 - 9) + (9 \times 9 - 9)/(9+9)$.
$653 = 9 \times (9 \times 9 - 9) + (99 - 9)/(9+9)$.
$654 = 9 \times (9 \times 9 - 9) + 9 - (9+9+9)/9$.
$655 = 9 \times (9 \times 9 - 9) + 9 - (9+9)/9$.
$656 = 9 \times (9 \times 9 - 9) + 9 - 9/9$.
$657 = 9 \times (9 \times 9 - 9) + 9$.
$658 = 9 \times (9 \times 9 - 9) + 9 + 9/9$.
$659 = 9 \times (9 \times 9 - 9) + 99/9$.
$660 = 9 \times (9 \times 9 - 9) + (99+9)/9$.
$661 = 9 \times (9 \times 9 - 9) + (99+9+9)/9$.
$662 = 9 \times (9 \times 9 - 9) + 9 + (99 - 9)/(9+9)$.
$663 = 9 \times (9 \times 9 - 9) + 9 + 9 - (9+9+9)/9$.

$664 = (9\times 9+(9+9)/9)\times(9-9/9).$
$665 = 9\times(9\times 9-9)+9+9-9/9.$
$666 = 9\times(9\times 9-9)+9+9.$
$667 = 9\times(9\times 9-9)+9+9+9/9.$
$668 = 9\times(9\times 9-9)+9+99/9.$
$669 = 9\times(9\times 9-9)+9+(99+9)/9.$
$670 = 9\times(9\times 9-9)+(99+99)/9.$
$671 = 99\times(9\times 9-9-99/9)/9.$
$672 = (9-9/9)\times(9\times 9+(9+9+9)/9).$
$673 = 9\times(9+9)+((9+9)/9)^9-9/9.$
$674 = 9\times(9+9)+((9+9)/9)^9.$
$675 = 9\times(9\times 9-9)+9+9+9.$
$676 = (9+9+9-9/9)^{((9+9)/9)}.$
$677 = 9\times(9\times 9-9)+9+9+99/9.$
$678 = 999/9+9\times(9\times 9-9-9).$
$679 = 9\times 9\times 9-(9\times 99+9)/(9+9).$
$680 = 9\times 9\times 9-(9\times 99-9)/(9+9).$
$681 = -999/9+99\times(9-9/9).$
$682 = (9-(9+9)/9)\times 99-99/9.$
$683 = ((9+9)/9)^9+9+9\times(9+9).$
$684 = 99\times(9-(9+9)/9)-9.$
$685 = (9-9/9)\times(99-9/9)-99.$
$686 = (9-(9+9)/9)\times(99-9/9).$
$687 = (99-(99+9)/9)\times(9-9/9)-9.$
$688 = 9\times 9\times 9-(9\times 9\times 9+9)/(9+9).$
$689 = 9\times 9\times 9-(9\times 9\times 9-9)/(9+9).$
$690 = 9\times(99-9)-9-999/9.$
$691 = 9\times 9\times 9-9-9-9-99/9.$
$692 = 99\times(9-(9+9)/9)-9/9.$
$693 = 99\times(9-(9+9)/9).$
$694 = 99\times(9-(9+9)/9)+9/9.$
$695 = 99\times(9-(9+9)/9)+(9+9)/9.$
$696 = (9-9/9)\times(99-(99+9)/9).$
$697 = 9\times(99-9)-(999+9+9)/9.$
$698 = 9\times(99-9)-(999+9)/9.$
$699 = 9\times(9\times 9+9)-999/9.$
$700 = 9\times 9\times 9-9-9-99/9.$
$701 = 9\times 9\times 9-9-9-9-9/9.$
$702 = 9\times(99-9)-99-9.$
$703 = 9\times 9\times 9-9-9-9+9/9.$
$704 = (99-99/9)\times(9-9/9).$
$705 = 9\times 9\times 9-(99+99+9+9)/9.$
$706 = 9\times 9\times 9-(99+99+9)/9.$
$707 = 9\times 9\times 9-(99+99)/9.$
$708 = 9\times 9\times 9-9-(99+9)/9.$
$709 = 9\times 9\times 9-9-99/9.$
$710 = 9\times 9\times 9-9-9-9/9.$
$711 = 9\times 9\times 9-9-9.$
$712 = 9\times 9\times 9-9-9+9/9.$
$713 = 9\times 9\times 9-9-9+(9+9)/9.$
$714 = 9\times 9\times 9-9-9+(9+9+9)/9.$
$715 = 9\times 9\times 9-9-(99-9)/(9+9).$
$716 = 9\times 9\times 9-(99+9+9)/9.$
$717 = 9\times 9\times 9-(99+9)/9.$
$718 = 9\times 9\times 9-9-(9+9)/9.$
$719 = 9\times 9\times 9-9-9/9.$
$720 = 9\times 9\times 9-9.$
$721 = 9\times 9\times 9-9+9/9.$
$722 = 9\times 9\times 9-9+(9+9)/9.$
$723 = 9\times 9\times 9-9+(9+9+9)/9.$
$724 = 9\times 9\times 9-(99-9)/(9+9).$
$725 = 9\times 9\times 9-(9+9+9+9+9)/9.$
$726 = 9\times 9\times 9-(9+9+9)/9.$
$727 = 9\times 9\times 9-(9+9)/9.$
$728 = 9\times 9\times 9-9/9.$
$729 = 9\times 9\times 9.$
$730 = 9\times 9\times 9+9/9.$
$731 = 9\times 9\times 9+(9+9)/9.$
$732 = 9\times 9\times 9+(9+9+9)/9.$
$733 = 9\times 9\times 9+(9\times 9-9)/(9+9).$
$734 = 9\times 9\times 9+(99-9)/(9+9).$
$735 = 9\times 9\times 9+(99+9)/(9+9).$
$736 = 9\times 9\times 9+9-(9+9)/9.$
$737 = 9\times 9\times 9+9-9/9.$
$738 = 9\times 9\times 9+9.$
$739 = 9\times 9\times 9+9+9/9.$
$740 = 9\times 9\times 9+99/9.$
$741 = 9\times 9\times 9+(99+9)/9.$
$742 = 9\times 9\times 9+(99+9+9)/9.$
$743 = 9\times 9\times 9+9+(99-9)/(9+9).$
$744 = 9\times 9\times 9+9+9-(9+9+9)/9.$
$745 = 9\times 9\times 9+9+9-(9+9)/9.$
$746 = 9\times 9\times 9+9+9-9/9.$
$747 = 9\times 9\times 9+9+9.$
$748 = 9\times 9\times 9+9+9+9/9.$
$749 = 9\times 9\times 9+9+99/9.$
$750 = 9\times 9\times 9+9+(99+9)/9.$
$751 = 9\times 9\times 9+(99+99)/9.$
$752 = 9\times 9\times 9+(99+99+9)/9.$
$753 = 9\times 99-999/9-9-9-9.$
$754 = 9\times 9\times 9+9+9+9-(9+9)/9.$
$755 = 9\times 9\times 9+9+9+9-9/9.$
$756 = 9\times 9\times 9+9+9+9.$
$757 = 9\times 9\times 9+9+9+9+9/9.$
$758 = 9\times 9\times 9+9+9+99/9.$
$759 = 9\times(9\times 9-9)+999/9.$
$760 = 9\times 9\times 9+9+(99+99)/9.$
$761 = 99\times(9\times 9-99/9)/9-9.$
$762 = 9\times 99-9-9-999/9.$
$763 = (9/9+99+9)\times(9-(9+9)/9).$
$764 = 9\times 9\times 9+9+9+9+9-9/9.$
$765 = 9\times 9\times 9+9+9+9+9.$
$766 = 9\times 9\times 9+9+9+9+9+9/9.$
$767 = 9\times 9\times 9+9+9+9+99/9.$
$768 = (9-9/9)\times(99-(9+9+9)/9).$
$769 = 9\times 99-(99+999)/9.$
$770 = 99\times(9\times 9-99/9)/9.$
$771 = 9\times 99-9-999/9.$
$772 = 9\times 99-9-99-99/9.$
$773 = 9\times 99-99-9-9-9/9.$
$774 = 9\times 99-99-9-9.$
$775 = (99-9/9)\times(9-9/9)-9.$
$776 = (9-9/9)\times(99-(9+9)/9).$
$777 = 999\times(9-(9+9)/9)/9.$
$778 = 9\times 9\times 9+(9\times 99-9)/(9+9).$
$779 = 9\times 99-(999+9)/9.$
$780 = 9\times 99-999/9.$
$781 = 9\times 99-99-99/9.$
$782 = 9\times 99-99-9-9/9.$
$783 = 9\times 99-99-9.$
$784 = 9\times 99-99-9+9/9.$
$785 = 9\times 99-99-9+(9+9)/9.$
$786 = 9\times 99-99-9+(9+9+9)/9.$
$787 = 9999/9-(9+9)\times(9+9).$
$788 = 9\times 99+9-(999+9)/9.$
$789 = 9\times 99+9-999/9.$
$790 = 9\times(9\times 9+9)-9-99/9.$
$791 = 9\times 99-99-9/9.$
$792 = 9\times 99-99.$
$793 = 9\times 99-99+9/9.$
$794 = 9\times 99-99+(9+9)/9.$
$795 = 9\times 99-99+(9+9+9)/9.$
$796 = 9\times 99-99+(9+9+9+9)/9.$
$797 = 9\times(99-9)-(99+9+9)/9.$
$798 = 9\times(99-9)-(99+9)/9.$
$799 = 9\times(99-9)-99/9.$
$800 = 9\times(99-9)-9-9/9.$
$801 = 9\times(99-9)-9.$
$802 = 9\times(99-9)-9+9/9.$
$803 = 9\times 99-99+99/9.$
$804 = 9\times(99-9)-9+(9+9+9)/9.$
$805 = 9\times(99-9)-(99-9)/(9+9).$
$806 = 9\times(99-9)-(9+9+9+9)/9.$
$807 = 9\times(99-9)-(9+9+9)/9.$
$808 = 9\times(99-9)-(9+9)/9.$
$809 = 9\times(99-9)-9/9.$
$810 = 9\times(99-9).$
$811 = 9\times(99-9)+9/9.$
$812 = 9\times(99-9)+(9+9)/9.$
$813 = 9\times(99-9)+(9+9+9)/9.$
$814 = 9\times(99-9)+(9\times 9-9)/(9+9).$
$815 = 9\times(99-9)+(99-9)/(9+9).$
$816 = 9\times 9\times 9+99-(99+9)/9.$
$817 = 9\times 9\times 9+99-99/9.$
$818 = 9\times(99-9)+9-9/9.$
$819 = 9\times 9\times 9+99-9.$
$820 = 9\times 9\times 9+99-9+9/9.$
$821 = 9\times(99-9)+99/9.$
$822 = 9\times(99-9)+(99+9)/9.$
$823 = 9\times(99-9)+(99+9+9)/9.$
$824 = ((999+9)/9-9)\times(9-9/9).$
$825 = (999/9-9)\times(9-9/9)+9.$
$826 = 9\times 9\times 9+99-(9+9)/9.$
$827 = 9\times 9\times 9+99-9/9.$
$828 = 9\times 9\times 9+99.$
$829 = 9\times 9\times 9+99+9/9.$
$830 = 9\times(9\times 9+9)+9+99/9.$
$831 = 9\times 9\times 9-9+999/9.$
$832 = 9\times 9\times 9-9+(999+9)/9.$
$833 = 9\times 9\times 9-9+(999+9+9)/9.$
$834 = 9\times 9\times 9+99+9-(9+9+9)/9.$
$835 = 9\times 9\times 9+99+9-(9+9)/9.$
$836 = 999-9\times(9+9)-9/9.$
$837 = 999-9\times(9+9).$
$838 = 9\times 9\times 9+99+9+9/9.$
$839 = 9\times 9\times 9+99+99/9.$
$840 = 9\times 9\times 9+999/9.$
$841 = (9+9+99/9)^{(9+9)/9)}.$
$842 = 9\times 99-(99\times 9-9)/(9+9).$
$843 = 9\times(99-9)+9\times 99/(9+9+9).$
$844 = 9\times 99-9-9-9-9-99/9.$
$845 = 9\times 9\times 9+99+9+9-9/9.$
$846 = 9\times 9\times 9+99+9+9.$
$847 = 9\times 9\times 9+99+9+9+9/9.$
$848 = 9\times 9\times 9+9+(999-9)/9.$
$849 = 9\times 9\times 9+9+999/9.$
$850 = 9\times 9\times 9+99\times 99/(9\times 9).$
$851 = 9\times 9\times 9+(99+999)/9.$
$852 = 9\times(99+9)-9-999/9.$
$853 = 9\times 99-9-9-9-99/9.$
$854 = 9\times 99-9-9-9-9-9/9.$
$855 = 9\times 99-9-9-9-9.$
$856 = 9\times 99-9-9-9-9+9/9.$
$857 = 9\times 9\times 9+99+9+9+99/9.$
$858 = 9\times 9\times 9+9+9+999/9.$
$859 = 9\times 99-9-(99+99+9)/9.$
$860 = 9\times 99-9-(99+99)/9.$
$861 = 9\times(99+9)-999/9.$

$862 = 9 \times 99 - 9 - 9 - 99/9.$
$863 = 9 \times 99 - 9 - 9 - 9 - 9/9.$
$864 = (99 + 9) \times (9 - 9/9).$
$865 = 9 \times (99 + 9) - 99 - 9 + 9/9.$
$866 = 9 \times 99 - 9 - 9 - 9 - 9 + 99/9.$
$867 = 9 \times 9 \times 9 + 9 + 9 + 9 + 999/9.$
$868 = 9 \times 99 - (99 + 99 + 9)/9.$
$869 = 9 \times 99 - (99 + 99)/9.$
$870 = 9 \times 99 - 9 - (99 + 9)/9.$
$871 = 9 \times 99 - 9 - 99/9.$
$872 = 9 \times 99 - 9 - 9 - 9/9.$
$873 = 9 \times (99 + 9) - 99.$
$874 = 9 \times 99 - 9 - 9 + 9/9.$
$875 = 9 \times 99 - 9 - 9 + (9 + 9)/9.$
$876 = 9 \times 99 - 9 - 9 + (9 + 9 + 9)/9.$
$877 = 9 \times 99 - 9 - (99 - 9)/(9 + 9).$
$878 = 9 \times 99 - (99 + 9 + 9)/9.$
$879 = 9 \times 99 - (99 + 9)/9.$
$880 = 9 \times 99 - 99/9.$
$881 = 9 \times 99 - 9 - 9/9.$
$882 = 9 \times 99 - 9.$
$883 = 9 \times 99 - 9 + 9/9.$
$884 = 9 \times 99 - 9 + (9 + 9)/9.$
$885 = 9 \times 99 - 9 + (9 + 9 + 9)/9.$
$886 = 9 \times 99 - (99 - 9)/(9 + 9).$
$887 = 9 \times 99 - (9 \times 9 - 9)/(9 + 9).$
$888 = 999 - 999/9.$
$889 = 9 \times 99 - (9 + 9)/9.$
$890 = 9 \times 99 - 9/9.$
$891 = 9 \times 99.$
$892 = 9 \times 99 + 9/9.$
$893 = 9 \times 99 + (9 + 9)/9.$
$894 = 9 \times 99 + (9 + 9 + 9)/9.$
$895 = 9 \times 99 + (9 \times 9 - 9)/(9 + 9).$
$896 = (999 + 9) \times (9 - 9/9)/9.$
$897 = 9 \times 99 + 9 - (9 + 9 + 9)/9.$
$898 = 9 \times 99 + 9 - (9 + 9)/9.$
$899 = 9 \times 99 + 9 - 9/9.$
$900 = 9 \times 99 + 9.$
$901 = 9 \times 99 + 9 + 9/9.$
$902 = 9 \times 99 + 99/9.$
$903 = 9 \times 99 + (99 + 9)/9.$
$904 = 9 \times 99 + (99 + 9 + 9)/9.$
$905 = 9 \times 99 + 9 + (99 - 9)/(9 + 9).$
$906 = 9 \times 99 + 9 + 9 - (9 + 9 + 9)/9.$
$907 = 9 \times 99 + 9 + 9 - (9 + 9)/9.$
$908 = 9 \times 99 + 9 + 9 - 9/9.$
$909 = 9 \times 99 + 9 + 9.$
$910 = 9 \times 99 + 9 + 9 + 9/9.$
$911 = 9 \times 99 + 9 + 99/9.$
$912 = 9 \times 99 + 9 + (99 + 9)/9.$
$913 = 9 \times 99 + (99 + 99)/9.$
$914 = 9 \times 99 + (99 + 99 + 9)/9.$
$915 = 999 - 9 \times 9 - (9 + 9 + 9)/9.$
$916 = 999 - 9 \times 9 - (9 + 9)/9.$
$917 = 999 - 9 \times 9 - 9/9.$
$918 = 999 - 9 \times 9.$
$919 = 999 - 9 \times 9 + 9/9.$
$920 = 999 - 9 \times 9 + (9 + 9)/9.$
$921 = 9 \times (9 \times 9 + 9) + 999/9.$
$922 = 9 \times (99 - 9) + (999 + 9)/9.$
$923 = 9 \times 99 + 9 + (99 + 99 + 9)/9.$
$924 = 9 \times (99 + 99/(9 + 9 + 9)).$
$925 = ((9 + 9)/9)^{(9 + 9/9)} - 99.$
$926 = 999 - 9 \times 9 + 9 - 9/9.$
$927 = 999 - 9 \times 9 + 9.$
$928 = 999 - 9 \times 9 + 9 + 9/9.$
$929 = 999 - 9 \times 9 + 99/9.$
$930 = (999/9 - 9 - 9) \times (9/9 + 9).$
$931 = 9999/9 - 9 \times 9 - 99.$
$932 = 9 \times 99 + (9 \times 9 \times 9 + 9)/(9 + 9).$
$933 = 999 - 9 \times 9 + 9 + 9 - (9 + 9 + 9)/9.$
$934 = ((9 + 9)/9)^{(9 + 9/9)} - 9 \times 9 - 9.$
$935 = 999 - 9 \times 9 + 9 + 9 - 9/9.$
$936 = 999 - 9 \times 9 + 9 + 9.$
$937 = 999 - 9 \times 9 + 9 + 9 + 9/9.$
$938 = 999 - 9 \times 9 + 9 + 99/9.$
$939 = 9 \times 9 \times 9 + 99 + 999/9.$
$940 = 9 \times 99 + (9 \times 99 - 9)/(9 + 9).$
$941 = 9 \times 99 + (9 \times 99 + 9)/(9 + 9).$
$942 = 9 \times (99 + 9 + 9) - 999/9.$
$943 = ((9 + 9)/9)^{(9 + 9/9)} - 9 \times 9.$
$944 = 9 \times (9 + 99) - 9 - 9 - 9 - 9/9.$
$945 = 9 \times (9 + 99) - 9 - 9 - 9.$
$946 = 9 \times (9 + 99) - 9 - 9 - 9 + 9/9.$
$947 = 9 \times 99 + (999 + 9)/(9 + 9).$
$948 = (99 + 9) \times (9 \times 9 - (9 + 9)/9)/9.$
$949 = 9999/9 - 9 \times (9 + 9).$
$950 = 9 \times (99 + 9) - (99 + 99)/9.$
$951 = 9 \times (99 + 9) - 9 - (99 + 9)/9.$
$952 = 9 \times (9 + 99) - 9 - 99/9.$
$953 = 9 \times (9 + 99) - 9 - 9 - 9/9.$
$954 = 9 \times (9 + 99) - 9 - 9.$
$955 = 9 \times (9 + 99) - 9 - 9 + 9/9.$
$956 = 9 \times (9 + 99) - 9 - 9 + (9 + 9)/9.$
$957 = 99 \times (99 - (99 + 9)/9)/9.$
$958 = 9 + 9999/9 - 9 \times (9 + 9).$
$959 = 9 \times (99 + 9) - (99 + 9 + 9)/9.$
$960 = (99 + 9) \times (9 \times 9 - 9/9)/9.$
$961 = 9 \times (99 + 9) - 99/9.$
$962 = 9 \times (99 + 9) - 9 - 9/9.$
$963 = 9 \times (99 + 9) - 9.$
$964 = 9 \times (99 + 9) - 9 + 9/9.$
$965 = 9 \times (99 + 9) - 9 + (9 + 9)/9.$
$966 = 9 \times (99 + 9) - 9 + (9 + 9 + 9)/9.$
$967 = 9 \times (99 + 9) - (99 - 9)/(9 + 9).$
$968 = 99 \times (99 - 99/9)/9.$
$969 = 9 \times (99 + 9) - (9 + 9 + 9)/9.$
$970 = 9 \times (99 + 9) - (9 + 9)/9.$
$971 = 9 \times (99 + 9) - 9/9.$
$972 = 9 \times (99 + 9).$
$973 = 9 \times (99 + 9) + 9/9.$
$974 = 9 \times (99 + 9) + (9 + 9)/9.$
$975 = 9 \times (99 + 9) + (9 + 9 + 9)/9.$
$976 = 999 - (99 + 99 + 9)/9.$
$977 = 999 - (99 + 99)/9.$
$978 = 999 - 9 - (99 + 9)/9.$
$979 = 999 - 9 - 99/9.$
$980 = (9 + 9/9) \times (99 - 9/9).$
$981 = 999 - 9 - 9.$
$982 = 999 - 9 - 9 + 9/9.$
$983 = 9 \times (99 + 9) + 99/9.$
$984 = (99 + 9) \times (9 \times 9 + 9/9)/9.$
$985 = 999 - (99 + 9 + 9 + 9)/9.$
$986 = 999 - (99 + 9 + 9)/9.$
$987 = 999 - (99 + 9)/9.$
$988 = 999 - 99/9.$
$989 = 999 - 9 - 9/9.$
$990 = 999 - 9.$
$991 = 999 - 9 + 9/9.$
$992 = 999 - 9 + (9 + 9)/9.$
$993 = 999 - 9 + (9 + 9 + 9)/9.$
$994 = 999 - (99 - 9)/(9 + 9).$
$995 = 999 - (9 + 9 + 9 + 9)/9.$
$996 = 999 - (9 + 9 + 9)/9.$
$997 = 999 - (9 + 9)/9.$
$998 = 999 - 9/9.$
$999 = 999.$
$1000 = 999 + 9/9.$

13. Acknowledgement

The author is thankful to T.J. Eckman, Georgia, USA (email: jeek@jeek.net) in programming the script to develop these representations.

References

[1] ABRAHAMS, M, Lots of numbers, plain and almost simple, IMPROBABLE RESEACH, http://www.improbable.com/2013/02/12/lots-of-numbers-plain-and-almost-simple.

[2] ABRAHAMS, M, Lots more numbers, deemed "crazy sequential", IMPROBABLE RESEACH, http://www.improbable.com/2013/06/08/lots-more-numbers-deemed-crazy-sequential.

[3] DUDENEY, H.E., Amusements in Mathematics, EBD E-Books Directory.com, 1917.

[4] MADACHY, J.S., Mathematics on Vacations, Charlers Scriber's Son, New York, 1966.

[5] NEBUS, J., Counting To 52, nebusresearch, *http://nebusresearch.wordpress.com/2013/02/17/counting-to-52/*

[6] NEBUS, J., Counting From 52 to 11,108, nebusresearch, *http://nebusresearch.wordpress.com/2013/06/10/counting-from-52-to-11108/*

[7] TANEJA, I.J., Crazy Sequential Representation: Numbers from 0 to 11111 in terms of Increasing and Decreasing Orders of 1 to 9, *http://arxiv.org/abs/1302.1479*.

[8] TANEJA, I.J., Selfie Numbers: Consecutive Representations in Increasing and Decreasing Orders, *http://rgmia.org/papers/v17/v17a140.pdf*, 2014