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, 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:

[*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,

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

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

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

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

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

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

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

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

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

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

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

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

$\dots$

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

$0 = 1 - 1$
$ = 2 - 2$
$ = 3 - 3$
$ = 4 - 4$
$ = 5 - 5$
$ = 6 - 6$
$ = 7 - 7$
$ = 8 - 8$
$ = 9 - 9.$

$1 = 1$
$ = 2/2$
$ = 3/3$
$ = 4/4$
$ = 5/5$
$ = 6/6$
$ = 7/7$
$ = 8/8$
$ = 9/9.$

$2 = 1 + 1$
$ = 2$
$ = 3 - 3/3$
$ = (4 + 4)/4$
$ = (5 + 5)/5$
$ = (6 + 6)/6$
$ = (7 + 7)/7$
$ = (8 + 8)/8$
$ = (9 + 9)/9.$

$3 = 1 + 1 + 1$
$ = 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.$

$4 = 1 + 1 + 1 + 1$
$ = 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).$

$5 = (11 - 1)/(1 + 1)$
$ = 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).$

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

$7 = (1 + 1) \times (1 + 1 + 1) + 1$
$ = 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.$

$8 = (1 + 1)^{(1+1+1)}$
$ = 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.$

$9 = 11 - 1 - 1$
$ = (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.$

$10 = 11 - 1$
$ = 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.$

$11 = 11$
$ = 22/2$
$ = 33/3$
$ = 44/4$
$ = 55/5$
$ = 66/6$
$ = 77/7$
$ = 88/8$
$ = 99/9.$

$12 = 11 + 1$
$ = 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.$

$13 = 11 + 1 + 1$
$ = 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.$

$14 = 11 + 1 + 1 + 1$
$ = 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).$

$15 = 11 + 1 + 1 + 1 + 1$
$ = 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).$

$16 = (1 + 1)^{(1+1+1+1)}$
$ = 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.$

$17 = (1 + 1)^{(1+1+1+1)} + 1$
$ = 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.$

$18 = (1 + 1) \times (11 - 1 - 1)$
$ = 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.$

$19 = (1 + 1) \times (11 - 1) - 1$
$ = 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.$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$163 = (1 + 1) \times (11 - 1 - 1)^{(1+1)} + 1.$
$164 = (1 + 1) \times ((11 - 1 - 1)^{(1+1)} + 1).$
$165 = 11 \times (11 + 1 + 1 + 1 + 1).$
$166 = 11 \times (11 + 1 + 1 + 1 + 1) + 1.$
$167 = (11 + 1 + 1)^{(1+1)} - 1 - 1.$
$168 = (11 + 1 + 1)^{(1+1)} - 1.$
$169 = (11 + 1 + 1)^{(1+1)}.$
$170 = (11 + 1 + 1)^{(1+1)} + 1.$
$171 = (11 + 1 + 1)^{(1+1)} + 1 + 1.$
$172 = (11 + 1 + 1)^{(1+1)} + 1 + 1 + 1.$
$173 = (11 + 1 + 1)^{(1+1)} + 1 + 1 + 1 + 1.$
$174 = (1 + 1) \times (111 - (1 + 1) \times (11 + 1)).$
$175 = 11 \times (1 + 1)^{(1+1+1+1)} - 1.$
$176 = 11 \times (1 + 1)^{(1+1+1+1)}.$
$177 = 11 \times (1 + 1)^{(1+1+1+1)} + 1.$
$178 = (1 + 1) \times (111 - 11 - 11).$
$179 = (11 + 1 + 1)^{(1+1)} + 11 - 1.$
$180 = (11 + 1 + 1)^{(1+1)} + 11.$
$181 = (11 + 1 + 1)^{(1+1)} + 11 + 1.$
$182 = (11 + 1 + 1) \times (11 + 1 + 1 + 1).$
$183 = (11 + 1 + 1) \times (11 + 1 + 1 + 1) + 1.$
$184 = (1 + 1) \times ((11 - 1 - 1)^{(1+1)} + 11).$
$185 = (11 + 1 + 1 + 1)^{(1+1)} - 11.$
$186 = ((1 + 1)^{11} - 1 - 1)/11.$
$187 = ((1 + 1)^{11} - 1 - 1)/11 + 1.$
$188 = ((1 + 1)^{11} - 1 - 1)/11 + 1 + 1.$
$189 = (11 - 1 - 1) \times (11 + 11 - 1).$
$190 = (11 - 1) \times ((1 + 1) \times (11 - 1) - 1).$
$191 = (11 - 1) \times ((1 + 1) \times (11 - 1) - 1) + 1.$
$192 = (11 - 1 - 1)^{(1+1)} + 111.$
$193 = (11 - 1 - 1)^{(1+1)} + 111 + 1.$
$194 = (11 + 1 + 1 + 1)^{(1+1)} - 1 - 1.$
$195 = (11 + 1 + 1 + 1)^{(1+1)} - 1.$
$196 = (11 + 1 + 1 + 1)^{(1+1)}.$
$197 = (11 + 1 + 1 + 1)^{(1+1)} + 1.$
$198 = (1 + 1) \times 11 \times (11 - 1 - 1).$
$199 = (1 + 1) \times (11 - 1)^{(1+1)} - 1.$
$200 = (1 + 1) \times (11 - 1)^{(1+1)}.$
$201 = (1 + 1) \times (11 - 1)^{(1+1)} + 1.$
$202 = (1 + 1) \times ((11 - 1)^{(1+1)} + 1).$
$203 = (1 + 1) \times ((11 - 1)^{(1+1)} + 1) + 1.$
$204 = (1 + 1) \times ((11 - 1)^{(1+1)} + 1 + 1).$
$205 = ((1 + 1)^{11} + 1 + 1)/(11 - 1).$
$206 = ((1 + 1)^{11} + 1 + 1)/(11 - 1) + 1.$
$207 = (11 + 1 + 1 + 1)^{(1+1)} + 11.$
$208 = (1 + 1) \times (111 - 1) - 11 - 1.$
$209 = 11 \times ((1 + 1) \times (11 - 1) - 1).$
$210 = (11 - 1) \times (11 + 11 - 1).$
$211 = (1 + 1) \times 111 - 11.$
$212 = (1 + 1) \times 111 - 11 + 1.$
$213 = (1 + 1) \times (111 + 1) - 11.$
$214 = (1 + 1) \times (111 + 1) - 11 + 1.$
$215 = (1 + 1) \times (111 + 1 + 1) - 11.$
$216 = (1 + 1) \times (111 - 1 - 1 - 1).$
$217 = (1 + 1) \times (111 - 1 - 1) - 1.$
$218 = (1 + 1) \times (111 - 1 - 1).$
$219 = (1 + 1) \times (111 - 1) - 1.$
$220 = (1 + 1) \times (111 - 1).$
$221 = (1 + 1) \times 111 - 1.$
$222 = (1 + 1) \times 111.$
$223 = (1 + 1) \times 111 + 1.$
$224 = (1 + 1) \times (111 + 1).$
$225 = (1 + 1) \times (111 + 1) + 1.$
$226 = (1 + 1) \times (111 + 1 + 1).$
$227 = (1 + 1) \times (111 + 1 + 1) + 1.$
$228 = (1 + 1) \times (111 + 1 + 1 + 1).$

$229 = (1 + 1) \times (111 + 1 + 1 + 1) + 1.$
$230 = (11 - 1) \times (11 + 11 + 1).$
$231 = 11 \times (11 + 11 - 1).$
$232 = 11^{(1+1)} + 111.$
$233 = (1 + 1) \times 111 + 11.$
$234 = (1 + 1) \times 111 + 11 + 1.$
$235 = (1 + 1) \times (111 + 1) + 11.$
$236 = (1 + 1) \times (111 + 1) + 11 + 1.$
$237 = (1 + 1) \times (111 + 1 + 1) + 11.$
$238 = (1 + 1) \times (11^{(1+1)} - 1 - 1).$
$239 = (1 + 1) \times (11^{(1+1)} - 1) - 1.$
$240 = (1 + 1) \times (11^{(1+1)} - 1).$
$241 = (1 + 1) \times 11^{(1+1)} - 1.$
$242 = (1 + 1) \times 11^{(1+1)}.$
$243 = (1 + 1) \times 11^{(1+1)} + 1.$
$244 = (1 + 1) \times (11^{(1+1)} + 1).$
$245 = (1 + 1) \times (11^{(1+1)} + 1) + 1.$
$246 = (1 + 1) \times (11^{(1+1)} + 1 + 1).$
$247 = (1 + 1) \times (11^{(1+1)} + 1 + 1) + 1.$
$248 = (1 + 1) \times (11^{(1+1)} + 1 + 1 + 1).$
$249 = (1 + 1) \times (11^{(1+1)} + 1 + 1 + 1) + 1.$
$250 = (11 - 1) \times ((1 + 1) \times (11 + 1) + 1).$
$251 = (1 + 1) \times (11^{(1+1)} - 1) + 11.$
$252 = (11 + 1) \times (11 + 11 - 1).$
$253 = 11 \times (11 + 11 + 1).$
$254 = 11 \times (11 + 11 + 1) + 1.$
$255 = (11 + 1)^{(1+1)} + 111.$
$256 = (1 + 1)^{((1+1)^{(1+1)})}.$
$257 = (1 + 1)^{((1+1)^{(1+1)})} + 1.$
$258 = (1 + 1)^{((1+1)^{(1+1)})} + 1 + 1.$
$259 = (1 + 1)^{((1+1)^{(1+1)})} + 1 + 1 + 1.$
$260 = (1 + 1) \times (11 - 1) \times (11 + 1 + 1).$
$261 = (1 + 1) \times (11 \times (11 + 1) - 1) - 1.$
$262 = (1 + 1) \times (11 \times (11 + 1) - 1).$
$263 = (1 + 1) \times 11 \times (11 + 1) - 1.$
$264 = (1 + 1) \times 11 \times (11 + 1).$
$265 = (1 + 1) \times 11 \times (11 + 1) + 1.$
$266 = (1 + 1) \times (11 \times (11 + 1) + 1).$
$267 = (1 + 1) \times (11 \times (11 + 1) + 1) + 1.$
$268 = (1 + 1) \times (11 \times (11 + 1) + 1 + 1).$
$269 = (1 + 1) \times (11 \times (11 + 1) + 1 + 1) + 1.$
$270 = (11 - 1) \times (1 + 1 + 1)^{(1+1+1)}.$
$271 = (11 - 1) \times (1 + 1 + 1)^{(1+1+1)} + 1.$
$272 = (11 + 1 + 1) \times (11 + 11 - 1) - 1.$
$273 = (11 + 1 + 1) \times (11 + 11 - 1).$
$274 = 11 \times ((1 + 1) \times (11 + 1) + 1) - 1.$
$275 = 11 \times ((1 + 1) \times (11 + 1) + 1).$
$276 = (11 + 1) \times (11 + 11 + 1).$
$277 = (11 + 1) \times (11 + 11 + 1) + 1.$
$278 = (1111 + 1)/(1 + 1 + 1 + 1).$
$279 = (1111 + 1)/(1 + 1 + 1 + 1) + 1.$
$280 = (11 + 1 + 1)^{(1+1)} + 111.$
$281 = (11 + 1 + 1)^{(1+1)} + 111 + 1.$
$282 = (1 + 1) \times ((11 + 1)^{(1+1)} - 1 - 1 - 1).$
$283 = (1 + 1) \times ((11 + 1)^{(1+1)} - 1 - 1) - 1.$
$284 = (1 + 1) \times ((11 + 1)^{(1+1)} - 1 - 1).$
$285 = (1 + 1) \times 11 \times (11 + 1 + 1) - 1.$
$286 = (1 + 1) \times 11 \times (11 + 1 + 1).$
$287 = (1 + 1) \times (11 + 1)^{(1+1)} - 1.$
$288 = (1 + 1) \times (11 + 1)^{(1+1)}.$
$289 = (1 + 1) \times (11 + 1)^{(1+1)} + 1.$
$290 = (1 + 1) \times ((11 + 1)^{(1+1)} + 1).$
$291 = (1 + 1) \times ((11 + 1)^{(1+1)} + 1) + 1.$
$292 = (1 + 1) \times ((11 + 1)^{(1+1)} + 1) + 1 + 1.$
$293 = (1 + 1) \times ((11 + 1)^{(1+1)} + 1) + 1 + 1 + 1.$

$294 = (1 + 1) \times ((11 + 1)^{(1+1)} + 1) + 1 + 1 + 1 + 1.$

$295 = 11 \times (1 + 1 + 1)^{(1+1+1)} - 1 - 1.$

$296 = 11 \times (1 + 1 + 1)^{(1+1+1)} - 1.$

$297 = 11 \times (1 + 1 + 1)^{(1+1+1)}.$

$298 = 11 \times (1 + 1 + 1)^{(1+1+1)} + 1.$

$299 = (1 + 1) \times (11 + 1)^{(1+1)} + 11.$

$300 = (1 + 1 + 1) \times (11 - 1)^{(1+1)}.$

$301 = (1 + 1 + 1) \times (11 - 1)^{(1+1)} + 1.$

$302 = (1 + 1 + 1) \times (11 - 1)^{(1+1)} + 1 + 1.$

$303 = (1 + 1 + 1) \times ((11 - 1)^{(1+1)} + 1).$

$304 = (1 + 1 + 1) \times ((11 - 1)^{(1+1)} + 1) + 1.$

$305 = (11 \times 111 - 1)/(1 + 1 + 1 + 1).$

$306 = (1 + 1) \times (11 \times (11 + 1 + 1 + 1) - 1).$

$307 = 111 + (11 + 1 + 1 + 1)^{(1+1)}.$

$308 = 11 \times (1 + 1) \times (11 + 1 + 1 + 1).$

$309 = 11 \times (1 + 1) \times (11 + 1 + 1 + 1) + 1.$

$310 = (1 + 1) \times ((11 + 1)^{(1+1)} + 11).$

$311 = (1 + 1) \times ((11 + 1)^{(1+1)} + 11) + 1.$

$312 = (1 + 1) \times (11 + 1) \times (11 + 1 + 1).$

$313 = (1 + 1) \times (11 + 1) \times (11 + 1 + 1) + 1.$

$314 = (1 + 1) \times ((11 + 1) \times (11 + 1 + 1) + 1).$

$315 = ((1 + 1)^{(11+1)} - 1)/(11 + 1 + 1).$

$316 = (1 + 1) \times ((11 + 1 + 1)^{(1+1)} - 11).$

$317 = (1 + 1) \times ((11 + 1 + 1)^{(1+1)} - 11) + 1.$

$318 = (1 + 1 + 1) \times (111 - 1) - 11 - 1.$

$319 = 11 \times ((1 + 1 + 1) \times (11 - 1) - 1).$

$320 = (11 - 1) \times (11 \times (1 + 1 + 1) - 1).$

$321 = 111 \times (1 + 1 + 1) - 11 - 1.$

$322 = 111 \times (1 + 1 + 1) - 11.$

$323 = 111 \times (1 + 1 + 1) - 11 + 1.$

$324 = ((1 + 1) \times (11 - 1 - 1))^{(1+1)}.$

$325 = ((1 + 1) \times (11 - 1 - 1))^{(1+1)} + 1.$

$326 = (1 + 1 + 1) \times (111 - 1 - 1) - 1.$

$327 = (1 + 1 + 1) \times (111 - 1 - 1).$

$328 = (1 + 1 + 1) \times (111 - 1 - 1) + 1.$

$329 = (1 + 1 + 1) \times (111 - 1) - 1.$

$330 = (1 + 1 + 1) \times (111 - 1).$

$331 = (1 + 1 + 1) \times (111 - 1) + 1.$

$332 = (1 + 1 + 1) \times 111 - 1.$

$333 = (1 + 1 + 1) \times 111.$

$334 = (1 + 1 + 1) \times 111 + 1.$

$335 = (1 + 1 + 1) \times 111 + 1 + 1.$

$336 = (1 + 1 + 1) \times (111 + 1).$

$337 = (1 + 1 + 1) \times (111 + 1) + 1.$

$338 = (1 + 1) \times (11 + 1 + 1)^{(1+1)}.$

$339 = (1 + 1 + 1) \times (111 + 1 + 1).$

$340 = (1 + 1 + 1) \times (111 + 1 + 1) + 1.$

$341 = (1 + 1 + 1) \times (111 - 1) + 11.$

$342 = (1 + 1 + 1) \times (111 + 1 + 1 + 1).$

$343 = (1 + 1 + 1) \times 111 + 11 - 1.$

$344 = (1 + 1 + 1) \times 111 + 11.$

$345 = (1 + 1 + 1) \times 111 + 11 + 1.$

$346 = (1 + 1 + 1) \times 111 + 11 + 1 + 1.$

$347 = (1 + 1 + 1) \times (111 + 1) + 11.$

$348 = (1 + 1 + 1) \times (111 + 1) + 11 + 1.$

$349 = (1 + 1) \times (11 + 1 + 1)^{(1+1)} + 11.$

$350 = (1 + 1 + 1) \times (111 + 1 + 1) + 11.$

$351 = 11 \times (11 \times (1 + 1 + 1) - 1) - 1.$

$352 = 11 \times (11 \times (1 + 1 + 1) - 1).$

$353 = 11 \times (11 \times (1 + 1 + 1) - 1) + 1.$

$354 = 11 \times (11 \times (1 + 1 + 1) - 1) + 1 + 1.$

$355 = (1 + 1 + 1) \times 111 + 11 + 11.$

$356 = (1 + 1 + 1) \times (11^{(1+1)} - 1 - 1) - 1.$

$357 = (1 + 1 + 1) \times (11^{(1+1)} - 1 - 1).$

$358 = (1 + 1 + 1) \times (11^{(1+1)} - 1 - 1) + 1.$

$359 = (1 + 1 + 1) \times (11^{(1+1)} - 1) - 1.$

$360 = (1 + 1 + 1) \times (11^{(1+1)} - 1).$

$361 = ((1 + 1) \times (11 - 1) - 1)^{(1+1)}.$

$362 = (1 + 1 + 1) \times 11 \times 11 - 1.$

$363 = (1 + 1 + 1) \times 11 \times 11.$

$364 = (1 + 1 + 1) \times 11 \times 11 + 1.$

$365 = (1 + 1 + 1) \times 11 \times 11 + 1 + 1.$

$366 = (1 + 1 + 1) \times (11^{(1+1)} + 1).$

$367 = (1 + 1 + 1) \times (11^{(1+1)} + 1) + 1.$

$368 = (1 + 1 + 1) \times (11^{(1+1)} + 1) + 1 + 1.$

$369 = (1 + 1 + 1) \times (11^{(1+1)} + 1 + 1).$

$370 = (1111 - 1)/(1 + 1 + 1).$

$371 = (1111 - 1)/(1 + 1 + 1) + 1.$

$372 = (1111 - 1)/(1 + 1 + 1) + 1 + 1.$

$373 = (11 + 11)^{(1+1)} - 111.$

$374 = 11 \times (11 \times (1 + 1 + 1) + 1).$

$375 = 11 \times (11 \times (1 + 1 + 1) + 1) + 1.$

$376 = 11 \times (11 \times (1 + 1 + 1) + 1) + 1 + 1.$

$377 = (1 + 1 + 1) \times (11^{(1+1)} + 1) + 11.$

$378 = (1 + 1 + 1) \times (11^{(1+1)} + 1) + 11 + 1.$

$379 = (11 - 1) \times (111/(1 + 1 + 1) + 1) - 1.$

$380 = (11 - 1) \times (111/(1 + 1 + 1) + 1).$

$381 = (1111 - 1)/(1 + 1 + 1) + 11.$

$382 = (1111 - 1)/(1 + 1 + 1) + 11 + 1.$

$383 = (11 + 1) \times (11 \times (1 + 1 + 1) - 1) - 1.$

$384 = (11 + 1) \times (11 \times (1 + 1 + 1) - 1).$

$385 = 11 \times (11 \times (1 + 1 + 1) + 1 + 1).$

$386 = 11 \times (11 \times (1 + 1 + 1) + 1 + 1) + 1.$

$387 = 11 \times (11 \times (1 + 1 + 1) + 1 + 1) + 1 + 1.$

$388 = ((1 + 1) \times (11 - 1))^{(1+1)} - 11 - 1.$

$389 = ((1 + 1) \times (11 - 1))^{(1+1)} - 11.$

$390 = ((1 + 1) \times (11 - 1))^{(1+1)} - 11 + 1.$

$391 = (1 + 1)^{(11-1-1)} - 11^{(1+1)}.$

$392 = (1 + 1) \times (11 + 1 + 1 + 1)^{(1+1)}.$

$393 = (1 + 1 + 1) \times (11 \times (11 + 1) - 1).$

$394 = (1 + 1 + 1) \times (11 \times (11 + 1) - 1) + 1.$

$395 = (1 + 1 + 1) \times (11 + 1) \times 11 - 1.$

$396 = (1 + 1 + 1) \times (11 + 1) \times 11.$

$397 = (1 + 1 + 1) \times (11 + 1) \times 11 + 1.$

$398 = ((1 + 1) \times (11 - 1))^{(1+1)} - 1 - 1.$

$399 = ((1 + 1) \times (11 - 1))^{(1+1)} - 1.$

$400 = ((1 + 1) \times (11 - 1))^{(1+1)}.$

$401 = ((1 + 1) \times (11 - 1))^{(1+1)} + 1.$

$402 = ((1 + 1) \times (11 - 1))^{(1+1)} + 1 + 1.$

$403 = ((1 + 1) \times (11 - 1))^{(1+1)} + 1 + 1 + 1.$

$404 = (1 + 1) \times (1 + 1) \times ((11 - 1)^{(1+1)} + 1).$

$405 = 11 \times 111/(1 + 1 + 1) - 1 - 1.$

$406 = 11 \times 111/(1 + 1 + 1) - 1.$

$407 = 11 \times 111/(1 + 1 + 1).$

$408 = 11 \times 111/(1 + 1 + 1) + 1.$

$409 = 11 \times 111/(1 + 1 + 1) + 1 + 1.$

$410 = ((1 + 1) \times (11 - 1))^{(1+1)} + 11 - 1.$

$411 = ((1 + 1) \times (11 - 1))^{(1+1)} + 11.$

$412 = ((1 + 1) \times (11 - 1))^{(1+1)} + 11 + 1.$

$413 = ((1 + 1) \times (11 - 1))^{(1+1)} + 11 + 1 + 1.$

$414 = (1 + 1) \times ((11 + 1 + 1 + 1)^{(1+1)} + 11).$

$415 = (11 + 1 + 1) \times (11 \times (1 + 1 + 1) - 1) - 1.$

$416 = (11 + 1 + 1) \times (11 \times (1 + 1 + 1) - 1).$

$417 = 11 \times (111/(1 + 1 + 1) + 1) - 1.$

$418 = 11 \times (111/(1 + 1 + 1) + 1).$

$419 = 11 \times (111/(1 + 1 + 1) + 1) + 1.$

$420 = (1 + 1) \times (11 - 1) \times (11 + 11 - 1).$

$421 = (1 + 1 + 1) \times (11 + 1)^{(1+1)} - 11.$

$422 = (1 + 1) \times ((1 + 1) \times 111 - 11).$

$423 = (1 + 1) \times ((1 + 1) \times 111 - 11) + 1.$

$424 = (1 + 1) \times ((1 + 1) \times 111 - 11 + 1).$

$425 = (1 + 1) \times ((1 + 1) \times 111 - 11 + 1) + 1.$

$426 = (1 + 1) \times ((1 + 1) \times (111 + 1) - 11).$
$427 = (1 + 1) \times ((1 + 1) \times (111 + 1) - 11) + 1.$
$428 = (1 + 1 + 1) \times (11 + 1 + 1) \times 11 - 1.$
$429 = (1 + 1 + 1) \times (11 + 1 + 1) \times 11.$
$430 = (11 + 11 - 1)^{(1+1)} - 11.$
$431 = (1 + 1 + 1) \times (11 + 1)^{(1+1)} - 1.$
$432 = (1 + 1 + 1) \times (11 + 1)^{(1+1)}.$
$433 = (1 + 1 + 1) \times (11 + 1)^{(1+1)} + 1.$
$434 = (1 + 1 + 1) \times (11 + 1)^{(1+1)} + 1 + 1.$
$435 = (1 + 1 + 1) \times ((11 + 1)^{(1+1)} + 1).$
$436 = (1 + 1) \times (1 + 1) \times (111 - 1 - 1).$
$437 = (1 + 1) \times (1 + 1) \times (111 - 1 - 1) + 1.$
$438 = (1 + 1) \times ((1 + 1) \times (111 - 1) - 1).$
$439 = (11 + 11 - 1)^{(1+1)} - 1 - 1.$
$440 = (1 + 1) \times (1 + 1) \times (111 - 1).$
$441 = (11 + 11 - 1)^{(1+1)}.$
$442 = (11 + 11 - 1)^{(1+1)} + 1.$
$443 = (1 + 1) \times (1 + 1) \times 111 - 1.$
$444 = (1 + 1) \times (1 + 1) \times 111.$
$445 = (1 + 1) \times (1 + 1) \times 111 + 1.$
$446 = (1 + 1) \times ((1 + 1) \times 111 + 1).$
$447 = (1 + 1) \times ((1 + 1) \times 111 + 1) + 1.$
$448 = (1 + 1) \times (1 + 1) \times (111 + 1).$
$449 = (1 + 1) \times (1 + 1) \times (111 + 1) + 1.$
$450 = (1 + 1) \times ((1 + 1) \times (111 + 1) + 1).$
$451 = (1 + 1) \times ((1 + 1) \times (111 + 1) + 1) + 1.$
$452 = (11 + 11 - 1)^{(1+1)} + 11.$
$453 = (11 + 11 - 1)^{(1+1)} + 11 + 1.$
$454 = (1 + 1) \times (1 + 1) \times 111 + 11 - 1.$
$455 = (1 + 1) \times (1 + 1) \times 111 + 11.$
$456 = (1 + 1) \times (1 + 1) \times 111 + 11 + 1.$
$457 = (1 + 1) \times ((1 + 1) \times 111 + 1) + 11.$
$458 = (1 + 1) \times ((1 + 1) \times 111 + 1) + 11 + 1.$
$459 = (1 + 1) \times (1 + 1) \times (111 + 1) + 11.$
$460 = (1 + 1) \times (11 - 1) \times (11 + 11 + 1).$
$461 = (1 + 1) \times 11 \times (11 + 11 - 1) - 1.$
$462 = (1 + 1) \times 11 \times (11 + 11 - 1).$
$463 = (1 + 1) \times 11 \times (11 + 11 - 1) + 1.$
$464 = (1 + 1) \times (11^{(1+1)} + 111).$
$465 = (1 + 1) \times (11^{(1+1)} + 111) + 1.$
$466 = (1 + 1) \times ((1 + 1) \times 111 + 11).$
$467 = (1 + 1) \times ((1 + 1) \times 111 + 11) + 1.$
$468 = (1 + 1) \times ((1 + 1) \times 111 + 11 + 1).$
$469 = (1 + 1) \times ((1 + 1) \times 111 + 11 + 1) + 1.$
$470 = (1 + 1) \times ((1 + 1) \times (111 + 1) + 11).$
$471 = (11 + 11)^{(1+1)} - 11 - 1 - 1.$
$472 = (11 + 11)^{(1+1)} - 11 - 1.$
$473 = (11 + 11)^{(1+1)} - 11.$
$474 = (11 + 11)^{(1+1)} - 11 + 1.$
$475 = (11 + 11)^{(1+1)} - 11 + 1 + 1.$
$476 = (1 + 1) \times ((1 + 1) \times (11^{(1+1)} - 1 - 1)).$
$477 = (1 + 1) \times ((1 + 1) \times (11^{(1+1)} - 1 - 1)) + 1.$
$478 = (1 + 1) \times (((1 + 1) \times (11^{(1+1)} - 1 - 1)) + 1).$
$479 = (1 + 1) \times ((1 + 1) \times (11^{(1+1)} - 1)) - 1.$
$480 = (1 + 1) \times (1 + 1) \times (11^{(1+1)} - 1).$
$481 = (11 + 11)^{(1+1)} - 1 - 1 - 1.$
$482 = (11 + 11)^{(1+1)} - 1 - 1.$
$483 = (11 + 11)^{(1+1)} - 1.$
$484 = (11 + 11)^{(1+1)}.$
$485 = (11 + 11)^{(1+1)} + 1.$
$486 = (11 + 11)^{(1+1)} + 1 + 1.$
$487 = (11 + 11)^{(1+1)} + 1 + 1 + 1.$
$488 = (1 + 1) \times (1 + 1) \times (11^{(1+1)} + 1).$
$489 = (1 + 1) \times (1 + 1) \times (11^{(1+1)} + 1) + 1.$
$490 = (1 + 1) \times ((1 + 1) \times (11^{(1+1)} + 1) + 1).$
$491 = (1 + 1) \times ((1 + 1) \times (11^{(1+1)} + 1) + 1) + 1.$

$492 = (1 + 1) \times (1 + 1) \times (11^{(1+1)} + 1 + 1).$
$493 = (11 + 11)^{(1+1)} + 11 - 1 - 1.$
$494 = (11 + 11)^{(1+1)} + 11 - 1.$
$495 = (11 + 11)^{(1+1)} + 11.$
$496 = (11 + 11)^{(1+1)} + 11 + 1.$
$497 = (11 + 11)^{(1+1)} + 11 + 1 + 1.$
$498 = (11 - 1)^{(1+1+1)}/(1 + 1) - 1 - 1.$
$499 = (11 - 1)^{(1+1+1)}/(1 + 1) - 1.$
$500 = (11 - 1)^{(1+1+1)}/(1 + 1).$
$501 = (1 + 1)^{(11-1-1)} - 11.$
$502 = (1 + 1)^{(11-1-1)} - 11 + 1.$
$503 = (1 + 1)^{(11-1-1)} - 11 + 1 + 1.$
$504 = (1 + 1) \times (11 + 1) \times (11 + 11 - 1).$
$505 = (11111 - 1)/(11 + 11).$
$506 = (1 + 1) \times 11 \times (11 + 11 + 1).$
$507 = (1 + 1 + 1) \times (11 + 1 + 1)^{(1+1)}.$
$508 = (1 + 1 + 1) \times (11 + 1 + 1)^{(1+1)} + 1.$
$509 = (1 + 1)^{(11-1-1)} - 1 - 1 - 1.$
$510 = (1 + 1)^{(11-1-1)} - 1 - 1.$
$511 = (1 + 1)^{(11-1-1)} - 1.$
$512 = (1 + 1)^{(11-1-1)}.$
$513 = (1 + 1)^{(11-1-1)} + 1.$
$514 = (1 + 1)^{(11-1-1)} + 1 + 1.$
$515 = (1 + 1)^{(11-1-1)} + 1 + 1 + 1.$
$516 = (1 + 1)^{(11-1-1)} + 1 + 1 + 1 + 1.$
$517 = 11 \times ((1 + 1) \times (11 + 11 + 1) + 1).$
$518 = (11 + 11 + 1)^{(1+1)} - 11.$
$519 = (11 + 11 + 1)^{(1+1)} - 11 + 1.$
$520 = (11 + 11 + 1)^{(1+1)} - 11 + 1 + 1.$
$521 = (1 + 1)^{(11-1-1)} + 11 - 1 - 1.$
$522 = (1 + 1)^{(11-1-1)} + 11 - 1.$
$523 = (1 + 1)^{(11-1-1)} + 11.$
$524 = (1 + 1)^{(11-1-1)} + 11 + 1.$
$525 = (1 + 1)^{(11-1-1)} + 11 + 1 + 1.$
$526 = (1 + 1) \times ((1 + 1) \times 11 \times (11 + 1) - 1).$
$527 = (11 + 11 + 1)^{(1+1)} - 1 - 1.$
$528 = (11 + 11 + 1)^{(1+1)} - 1.$
$529 = (11 + 11 + 1)^{(1+1)}.$
$530 = (11 + 11 + 1)^{(1+1)} + 1.$
$531 = (11 + 11 + 1)^{(1+1)} + 1 + 1.$
$532 = (11 + 11 + 1)^{(1+1)} + 1 + 1 + 1.$
$533 = (11 + 11 + 1)^{(1+1)} + 1 + 1 + 1 + 1.$
$534 = (1 + 1)^{(11-1-1)} + 11 + 11.$
$535 = (1 + 1)^{(11-1-1)} + 11 + 11 + 1.$
$536 = (1 + 1) \times (1 + 1) \times (11 \times (11 + 1) + 1 + 1).$
$537 = (1 + 1)^{(11-1-1)} + (1 + 1) \times (11 + 1) + 1.$
$538 = (11 + 11 + 1)^{(1+1)} + 11 - 1 - 1.$
$539 = (11 + 11 + 1)^{(1+1)} + 11 - 1.$
$540 = (11 + 11 + 1)^{(1+1)} + 11.$
$541 = (11 + 11 + 1)^{(1+1)} + 11 + 1.$
$542 = (11 + 11 + 1)^{(1+1)} + 11 + 1 + 1.$
$543 = (1111 - 1)/(1 + 1) - 11 - 1.$
$544 = (1111 - 1)/(1 + 1) - 11.$
$545 = (1111 + 1)/(1 + 1) - 11.$
$546 = (1111 + 1)/(1 + 1) - 11 + 1.$
$547 = (1111 + 1)/(1 + 1) - 11 + 1 + 1.$
$548 = (1111 - 11)/(1 + 1) - 1 - 1.$
$549 = (1111 - 11)/(1 + 1) - 1.$
$550 = (1111 - 11)/(1 + 1).$
$551 = (1111 - 11)/(1 + 1) + 1.$
$552 = (1111 - 11)/(1 + 1) + 1 + 1.$
$553 = (1111 - 1)/(1 + 1) - 1 - 1.$
$554 = (1111 - 1)/(1 + 1) - 1.$
$555 = (1111 - 1)/(1 + 1).$
$556 = (1111 + 1)/(1 + 1).$
$557 = (1111 + 1)/(1 + 1) + 1.$

$558 = (1111 + 1)/(1 + 1) + 1 + 1.$

$559 = (1111 + 1)/(1 + 1) + 1 + 1 + 1.$

$560 = (11 - 1) \times (111 + 1)/(1 + 1).$

$561 = (1111 + 11)/(1 + 1).$

$562 = (1111 + 11)/(1 + 1) + 1.$

$563 = (1111 + 11)/(1 + 1) + 1 + 1.$

$564 = ((1 + 1) \times (11 + 1))^{(1+1)} - 11 - 1.$

$565 = ((1 + 1) \times (11 + 1))^{(1+1)} - 11.$

$566 = (1111 - 1)/(1 + 1) + 11.$

$567 = (1111 + 1)/(1 + 1) + 11.$

$568 = (1111 + 1)/(1 + 1) + 11 + 1.$

$569 = (1111 + 1)/(1 + 1) + 11 + 1 + 1.$

$570 = (11 - 1) \times ((111 + 1)/(1 + 1) + 1).$

$571 = (11 - 1) \times ((111 + 1)/(1 + 1) + 1) + 1.$

$572 = (1111 + 11)/(1 + 1) + 11.$

$573 = ((1 + 1) \times (11 + 1))^{(1+1)} - 1 - 1 - 1.$

$574 = ((1 + 1) \times (11 + 1))^{(1+1)} - 1 - 1.$

$575 = ((1 + 1) \times (11 + 1))^{(1+1)} - 1.$

$576 = ((1 + 1) \times (11 + 1))^{(1+1)}.$

$577 = ((1 + 1) \times (11 + 1))^{(1+1)} + 1.$

$578 = ((1 + 1) \times (11 + 1))^{(1+1)} + 1 + 1.$

$579 = ((1 + 1) \times (11 + 1))^{(1+1)} + 1 + 1 + 1.$

$580 = (1 + 1) \times (1 + 1) \times ((11 + 1)^{(1+1)} + 1).$

$581 = (1 + 1) \times (1 + 1) \times ((11 + 1)^{(1+1)} + 1) + 1.$

$582 = 11 \times ((111 - 1)/(1 + 1) - 1 - 1) - 1.$

$583 = 11 \times ((111 - 1)/(1 + 1) - 1 - 1).$

$584 = 11 \times ((111 - 1)/(1 + 1) - 1 - 1) + 1.$

$585 = ((1 + 1) \times (11 + 1))^{(1+1)} + 11 - 1 - 1.$

$586 = ((1 + 1) \times (11 + 1))^{(1+1)} + 11 - 1.$

$587 = ((1 + 1) \times (11 + 1))^{(1+1)} + 11.$

$588 = ((1 + 1) \times (11 + 1))^{(1+1)} + 11 + 1.$

$589 = ((1 + 1) \times (11 + 1))^{(1+1)} + 11 + 1 + 1.$

$590 = (11 - 1) \times ((11^{(1+1)} - 1)/(1 + 1) - 1).$

$591 = (1 + 1 + 1) \times ((11 + 1 + 1 + 1)^{(1+1)} + 1).$

$592 = (1 + 1) \times (11 \times (1 + 1 + 1)^{(1+1+1)} - 1).$

$593 = 11 \times ((111 - 1)/(1 + 1) - 1) - 1.$

$594 = 11 \times ((111 - 1)/(1 + 1) - 1).$

$595 = (11 + 11)^{(1+1)} + 111.$

$596 = (11 + 11)^{(1+1)} + 111 + 1.$

$597 = (11 + 11)^{(1+1)} + 111 + 1 + 1.$

$598 = ((1 + 1) \times (11 + 1))^{(1+1)} + 11 + 11.$

$599 = 1111 - (1 + 1)^{(11-1-1)}.$

$600 = (1 + 1) \times (1 + 1 + 1) \times (11 - 1)^{(1+1)}.$

$601 = (1 + 1) \times (1 + 1 + 1) \times (11 - 1)^{(1+1)} + 1.$

$602 = (1 + 1) \times ((1 + 1 + 1) \times (11 - 1)^{(1+1)} + 1).$

$603 = 11 \times (111 - 1)/(1 + 1) - 1 - 1.$

$604 = 11 \times (111 - 1)/(1 + 1) - 1.$

$605 = 11 \times (111 - 1)/(1 + 1).$

$606 = 11 \times (111 - 1)/(1 + 1) + 1.$

$607 = 11 \times (111 - 1)/(1 + 1) + 1 + 1.$

$608 = (11 \times 111 - 1)/(1 + 1) - 1 - 1.$

$609 = (11 \times 111 - 1)/(1 + 1) - 1.$

$610 = (11 \times 111 - 1)/(1 + 1).$

$611 = (11 \times 111 + 1)/(1 + 1).$

$612 = (11 \times 111 + 1)/(1 + 1) + 1.$

$613 = (11 \times 111 + 1)/(1 + 1) + 1 + 1.$

$614 = 11 \times (111 + 1)/(1 + 1) - 1 - 1.$

$615 = 11 \times (111 + 1)/(1 + 1) - 1.$

$616 = 11 \times (111 + 1)/(1 + 1).$

$617 = 11 \times (111 + 1)/(1 + 1) + 1.$

$618 = 11 \times (111 + 1)/(1 + 1) + 1 + 1.$

$619 = 11 \times (111 + 1)/(1 + 1) + 1 + 1 + 1.$

$620 = (11 \times 111 - 1)/(1 + 1) + 11 - 1.$

$621 = (11 \times 111 - 1)/(1 + 1) + 11.$

$622 = (11 \times 111 + 1)/(1 + 1) + 11.$

$623 = (1 + 1)^{(11-1-1)} + 111.$

$624 = ((1 + 1) \times (11 + 1) + 1)^{(1+1)} - 1.$

$625 = ((1 + 1) \times (11 + 1) + 1)^{(1+1)}.$

$626 = ((1 + 1) \times (11 + 1) + 1)^{(1+1)} + 1.$

$627 = 11 \times ((111 + 1)/(1 + 1) + 1).$

$628 = 11 \times ((111 + 1)/(1 + 1) + 1) + 1.$

$629 = 11 \times ((111 + 1)/(1 + 1) + 1) + 1 + 1.$

$630 = (1 + 1 + 1) \times (11 - 1) \times (11 + 11 - 1).$

$631 = (1 + 1 + 1) \times (11 - 1) \times (11 + 11 - 1) + 1.$

$632 = 11^{(1+1)} + (1 + 1)^{(11-1-1)} - 1.$

$633 = (1 + 1 + 1) \times ((1 + 1) \times 111 - 11).$

$634 = 11^{(1+1)} + (1 + 1)^{(11-1-1)} + 1.$

$635 = ((1 + 1) \times (11 + 1) + 1)^{(1+1)} + 11 - 1.$

$636 = ((1 + 1) \times (11 + 1) + 1)^{(1+1)} + 11.$

$637 = ((1 + 1) \times (11 + 1) + 1)^{(1+1)} + 11 + 1.$

$638 = 11 \times ((111 + 1)/(1 + 1) + 1 + 1).$

$639 = 11 \times ((111 + 1)/(1 + 1) + 1 + 1) + 1.$

$640 = (11 + 11 + 1)^{(1+1)} + 111.$

$641 = (11 + 11 + 1)^{(1+1)} + 111 + 1.$

$642 = (1 + 1) \times ((1 + 1 + 1) \times 111 - 11 - 1).$

$643 = (1 + 1) \times ((1 + 1 + 1) \times 111 - 11) - 1.$

$644 = (1 + 1) \times ((1 + 1 + 1) \times 111 - 11).$

$645 = (1 + 1) \times ((1 + 1 + 1) \times 111 - 11) + 1.$

$646 = (1 + 1) \times ((1 + 1 + 1) \times 111 - 11 + 1).$

$647 = (1 + 1) \times ((1 + 1) \times (11 - 1 - 1)^{(1+1)} - 1.$

$648 = (1 + 1) \times ((1 + 1) \times (11 - 1 - 1))^{(1+1)}.$

$649 = 11 \times ((11^{(1+1)} - 1)/(1 + 1) - 1).$

$650 = 11 \times ((11^{(1+1)} - 1)/(1 + 1) - 1) + 1.$

$651 = (1 + 1 + 1) \times ((1 + 1) \times (111 - 1 - 1) - 1).$

$652 = (1 + 1) \times ((1 + 1 + 1) \times (111 - 1 - 1) - 1).$

$653 = (11^{(1+1+1)} - 1)/(1 + 1) - 11 - 1.$

$654 = (1 + 1) \times (1 + 1 + 1) \times (111 - 1 - 1).$

$655 = (1 + 1) \times (1 + 1 + 1) \times 111 - 11.$

$656 = (1 + 1) \times (1 + 1 + 1) \times 111 - 11 + 1.$

$657 = (1 + 1 + 1) \times ((1 + 1) \times (111 - 1) - 1).$

$658 = (1 + 1) \times ((1 + 1 + 1) \times (111 - 1) - 1).$

$659 = (1 + 1) \times (1 + 1 + 1) \times (111 - 1) - 1.$

$660 = (1 + 1) \times (1 + 1 + 1) \times (111 - 1).$

$661 = (1 + 1) \times (1 + 1 + 1) \times (111 - 1) + 1.$

$662 = (1 + 1) \times ((1 + 1 + 1) \times (111 - 1) + 1).$

$663 = (1 + 1 + 1) \times ((1 + 1) \times 111 - 1).$

$664 = (1 + 1) \times ((1 + 1 + 1) \times 111 - 1).$

$665 = (11^{(1+1+1)} - 1)/(1 + 1).$

$666 = (1 + 1) \times (1 + 1 + 1) \times 111.$

$667 = (1 + 1) \times (1 + 1 + 1) \times 111 + 1.$

$668 = (1 + 1) \times ((1 + 1 + 1) \times 111 + 1).$

$669 = (1 + 1 + 1) \times ((1 + 1) \times 111 + 1).$

$670 = (1 + 1 + 1) \times ((1 + 1) \times 111 + 1) + 1.$

$671 = 11 \times (11^{(1+1)} + 1)/(1 + 1).$

$672 = (1 + 1) \times (1 + 1 + 1) \times (111 + 1).$

$673 = (1 + 1) \times (1 + 1 + 1) \times (111 + 1) + 1.$

$674 = (1 + 1) \times ((1 + 1 + 1) \times (111 + 1) + 1).$

$675 = ((1 + 1) \times (11 + 1 + 1))^{(1+1)} - 1.$

$676 = ((1 + 1) \times (11 + 1 + 1))^{(1+1)}.$

$677 = ((1 + 1) \times (11 + 1 + 1))^{(1+1)} + 1.$

$678 = ((1 + 1) \times (11 + 1 + 1))^{(1+1)} + 1 + 1.$

$679 = ((1 + 1)^{11} - 11)/(1 + 1 + 1).$

$680 = ((1 + 1)^{11} - 11)/(1 + 1 + 1) + 1.$

$681 = ((1 + 1)^{11} + 1)/(1 + 1 + 1) - 1 - 1.$

$682 = ((1 + 1)^{11} - 1 - 1)/(1 + 1 + 1).$

$683 = ((1 + 1)^{11} + 1)/(1 + 1 + 1).$

$684 = ((1 + 1)^{11} + 1)/(1 + 1 + 1) + 1.$

$685 = ((1 + 1)^{11} + 1)/(1 + 1 + 1) + 1 + 1.$

$686 = ((1 + 1)^{11} + 11 - 1)/(1 + 1 + 1).$

$687 = ((1 + 1) \times (11 + 1 + 1))^{(1+1)} + 11.$

$688 = (1 + 1) \times ((1 + 1 + 1) \times 111 + 11).$

$689 = (1 + 1) \times ((1 + 1 + 1) \times 111 + 11) + 1.$

$690 = ((1 + 1)^{11} - 11)/(1 + 1 + 1) + 11.$
$691 = (1 + 1)^{(11-1)} - (1 + 1 + 1) \times 111.$
$692 = 11 \times (1 + 1 + 1) \times (11 + 11 - 1) - 1.$
$693 = 11 \times (1 + 1 + 1) \times (11 + 11 - 1).$
$694 = ((1 + 1)^{11} + 1)/(1 + 1 + 1) + 11.$
$695 = ((1 + 1)^{11} + 1)/(1 + 1 + 1) + 11 + 1.$
$696 = (1 + 1 + 1) \times (11^{(1+1)} + 111).$
$697 = (1 + 1 + 1) \times (11^{(1+1)} + 111) + 1.$
$698 = (1 + 1 + 1) \times ((1 + 1) \times 111 + 11) - 1.$
$699 = (1 + 1 + 1) \times ((1 + 1) \times 111 + 11).$
$700 = (1 + 1 + 1) \times ((1 + 1) \times 111 + 11) + 1.$
$701 = (1 + 1 + 1) \times ((1 + 1) \times 111 + 11) + 1 + 1.$
$702 = (1 + 1) \times (11 \times (11 \times (1 + 1 + 1) - 1) - 1).$
$703 = 11 \times (1 + 1)^{((1+1) \times (1+1+1))} - 1.$
$704 = 11 \times (1 + 1)^{((1+1) \times (1+1+1))}.$
$705 = 11 \times (1 + 1)^{((1+1) \times (1+1+1))} + 1.$
$706 = 11 \times (1 + 1)^{((1+1) \times (1+1+1))} + 1 + 1.$
$707 = (11 - 1 - 1)^{(1+1+1)} - 11 - 11.$
$708 = (11 + 1) \times ((11^{(1+1)} - 1)/(1 + 1) - 1).$
$709 = 11 \times 111 - (1 + 1)^{(11-1-1)}.$
$710 = (11 - 1) \times ((11 + 1)^{(1+1)}/(1 + 1) - 1).$
$711 = 1111 - ((1 + 1) \times (11 - 1))^{(1+1)}.$
$712 = 1111 - ((1 + 1) \times (11 - 1))^{(1+1)} + 1.$
$713 = (11 + 11 + 1) \times ((1 + 1 + 1) \times (11 - 1) + 1).$
$714 = (1 + 1) \times (1 + 1 + 1) \times (11^{(1+1)} - 1 - 1).$
$715 = 11 \times ((1 + 1)^{((1+1) \times (1+1+1))} + 1).$
$716 = (1 + 1)^{11} - 11^{(1+1+1)} - 1.$
$717 = (1 + 1)^{11} - 11^{(1+1+1)}.$
$718 = (11 - 1 - 1)^{(1+1+1)} - 11.$
$719 = (11 - 1 - 1)^{(1+1+1)} - 11 + 1.$
$720 = (1 + 1) \times (1 + 1 + 1) \times (11^{(1+1)} - 1).$
$721 = (11^{(1+1+1)} + 111)/(1 + 1).$
$722 = (1 + 1) \times ((1 + 1) \times (11 - 1) - 1)^{(1+1)}.$
$723 = (1 + 1 + 1) \times ((1 + 1) \times 11^{(1+1)} - 1).$
$724 = (1 + 1) \times (11 \times 11 \times (1 + 1 + 1) - 1).$
$725 = (1 + 1) \times 11 \times 11 \times (1 + 1 + 1) - 1.$
$726 = (1 + 1) \times 11 \times 11 \times (1 + 1 + 1).$
$727 = (11 - 1 - 1)^{(1+1+1)} - 1 - 1.$
$728 = (11 - 1 - 1)^{(1+1+1)} - 1.$
$729 = (11 - 1 - 1)^{(1+1+1)}.$
$730 = (11 - 1 - 1)^{(1+1+1)} + 1.$
$731 = (11 - 1 - 1)^{(1+1+1)} + 1 + 1.$
$732 = (11 - 1 - 1)^{(1+1+1)} + 1 + 1 + 1.$
$733 = (11 - 1 - 1)^{(1+1+1)} + 1 + 1 + 1 + 1.$
$734 = (1 + 1) \times ((1 + 1 + 1) \times (11^{(1+1)} + 1) + 1).$
$735 = (1 + 1 + 1) \times ((1 + 1) \times (11^{(1+1)} + 1) + 1).$
$736 = ((1 + 1) \times (11 + 1) + 1)^{(1+1)} + 111.$
$737 = 11 \times (11 \times (1 + 1) \times (1 + 1 + 1) + 1).$
$738 = 11 \times (11 \times (1 + 1) \times (1 + 1 + 1) + 1) + 1.$
$739 = (11 - 1 - 1)^{(1+1+1)} + 11 - 1.$
$740 = (11 - 1 - 1)^{(1+1+1)} + 11.$
$741 = (11 - 1 - 1)^{(1+1+1)} + 11 + 1.$
$742 = (11 - 1 - 1)^{(1+1+1)} + 11 + 1 + 1.$
$743 = (11 - 1 - 1)^{(1+1+1)} + 11 + 1 + 1 + 1.$
$744 = (11 + 1) \times ((11^{(1+1)} + 1)/(1 + 1) + 1).$
$745 = ((1 + 1)^{(11+1+1)} + 1 + 1 + 1)/11.$
$746 = (1 + 1) \times ((11 + 11)^{(1+1)} - 111).$
$747 = (1 + 1) \times 11 \times (11 \times (1 + 1 + 1) + 1) - 1.$
$748 = (1 + 1) \times 11 \times (11 \times (1 + 1 + 1) + 1).$
$749 = (1 + 1) \times 11 \times (11 \times (1 + 1 + 1) + 1) + 1.$
$750 = (1 + 1) \times (11 \times (11 \times (1 + 1 + 1) + 1) + 1).$
$751 = (11 - 1 - 1)^{(1+1+1)} + 11 + 11.$
$752 = (11 - 1 - 1)^{(1+1+1)} + 11 + 11 + 1.$
$753 = (11 + 1)^{(1+1+1)}/(1 + 1) - 111.$
$754 = (11 + 1)^{(1+1+1)}/(1 + 1) - 111 + 1.$
$755 = 11^{(1+1+1)} - ((1 + 1) \times (11 + 1))^{(1+1)}.$

$756 = (1 + 1 + 1) \times (11 + 1) \times (11 + 11 - 1).$
$757 = (1 + 1 + 1) \times (11 + 1) \times (11 + 11 - 1) + 1.$
$758 = 11 \times (1 + 1 + 1) \times (11 + 11 + 1) - 1.$
$759 = 11 \times (1 + 1 + 1) \times (11 + 11 + 1).$
$760 = 11 \times (1 + 1 + 1) \times (11 + 11 + 1) + 1.$
$761 = 11 \times (1 + 1 + 1) \times (11 + 11 + 1) + 1 + 1.$
$762 = (1 + 1 + 1) \times (11 \times (11 + 11 + 1) + 1).$
$763 = (111 - 1 - 1) \times (11 - 1 - 1 - 1 - 1).$
$764 = (111 - 1 - 1) \times (11 - 1 - 1 - 1 - 1) + 1.$
$765 = (1 + 1 + 1) \times ((11 + 1)^{(1+1)} + 111).$
$766 = 111 \times ((1 + 1) \times (1 + 1 + 1) + 1) - 11.$
$767 = (1 + 1 + 1) \times (1 + 1)^{((1+1)^{(1+1+1)})} - 1.$
$768 = (1 + 1 + 1) \times (1 + 1)^{((1+1)^{(1+1+1)})}.$
$769 = (1 + 1 + 1) \times (1 + 1)^{((1+1)^{(1+1+1)})} + 1.$
$770 = 11 \times ((11 - 1 - 1)^{(1+1)} - 11).$
$771 = 11 \times ((11 - 1 - 1)^{(1+1)} - 11) + 1.$
$772 = 11 \times ((11 - 1 - 1)^{(1+1)} - 11) + 1 + 1.$
$773 = ((1 + 1 + 1)^{(1+1+1)} + 1)^{(1+1)} - 11.$
$774 = ((1 + 1 + 1)^{(1+1+1)} + 1)^{(1+1)} - 11 + 1.$
$775 = 1111 - (1 + 1 + 1) \times (111 + 1).$
$776 = 111 \times ((1 + 1) \times (1 + 1 + 1) + 1) - 1.$
$777 = 111 \times ((1 + 1) \times (1 + 1 + 1) + 1).$
$778 = 111 \times ((1 + 1) \times (1 + 1 + 1) + 1) + 1.$
$779 = 111 \times ((1 + 1) \times (1 + 1 + 1) + 1) + 1 + 1.$
$780 = (11 - 1) \times (111 - 11 \times (1 + 1 + 1)).$
$781 = 11 \times ((11 + 1)^{(1+1)}/(1 + 1) - 1).$
$782 = 11 \times ((11 + 1)^{(1+1)}/(1 + 1) - 1) + 1.$
$783 = ((1 + 1 + 1)^{(1+1+1)} + 1)^{(1+1)} - 1.$
$784 = ((1 + 1 + 1)^{(1+1+1)} + 1)^{(1+1)}.$
$785 = ((1 + 1 + 1)^{(1+1+1)} + 1)^{(1+1)} + 1.$
$786 = ((1 + 1 + 1)^{(1+1+1)} + 1)^{(1+1)} + 1 + 1.$
$787 = ((1 + 1) \times (11 + 1 + 1))^{(1+1)} + 111.$
$788 = 111 \times ((1 + 1) \times (1 + 1 + 1) + 1) + 11.$
$789 = (1 + 1 + 1) \times ((1 + 1) \times 11 \times (11 + 1) - 1).$
$790 = (1 + 1) \times (11 \times (1 + 1 + 1) \times (11 + 1) - 1).$
$791 = 11 \times (11 + 1)^{(1+1)}/(1 + 1) - 1.$
$792 = 11 \times (11 + 1)^{(1+1)}/(1 + 1).$
$793 = 11 \times (11 + 1)^{(1+1)}/(1 + 1) + 1.$
$794 = 11 \times (11 + 1)^{(1+1)}/(1 + 1) + 1 + 1.$
$795 = 11 + ((1 + 1 + 1)^{(1+1+1)} + 1)^{(1+1)}.$
$796 = (1 + 1) \times (((1 + 1) \times (11 - 1))^{(1+1)} - 1 - 1).$
$797 = (11 \times ((11 + 1)^{(1+1)} + 1) - 1)/(1 + 1).$
$798 = (1 + 1) \times (((1 + 1) \times (11 - 1))^{(1+1)} - 1).$
$799 = (1 + 1) \times ((1 + 1) \times (11 - 1))^{(1+1)} - 1.$
$800 = (1 + 1) \times ((1 + 1) \times (11 - 1))^{(1+1)}.$
$801 = (1 + 1) \times ((1 + 1) \times (11 - 1))^{(1+1)} + 1.$
$802 = (1 + 1) \times (((1 + 1) \times (11 - 1))^{(1+1)} + 1).$
$803 = 11 \times ((11 + 1)^{(1+1)}/(1 + 1) + 1).$
$804 = 11 \times ((11 + 1)^{(1+1)}/(1 + 1) + 1) + 1.$
$805 = (1 + 1)^{11} - 11 \times (111 + 1 + 1).$
$806 = (1 + 1)^{11} - 11 \times (111 + 1 + 1) + 1.$
$807 = (11 - 1) \times (11 - 1 - 1)^{(1+1)} - 1 - 1 - 1.$
$808 = (11 - 1) \times (11 - 1 - 1)^{(1+1)} - 1 - 1.$
$809 = (11 - 1) \times (11 - 1 - 1)^{(1+1)} - 1.$
$810 = (11 - 1) \times (11 - 1 - 1)^{(1+1)}.$
$811 = (11 - 1) \times (11 - 1 - 1)^{(1+1)} + 1.$
$812 = (11 - 1) \times (11 - 1 - 1)^{(1+1)} + 1 + 1.$
$813 = (1 + 1) \times 11 \times 111/(1 + 1 + 1) - 1.$
$814 = (1 + 1) \times 11 \times 111/(1 + 1 + 1).$
$815 = (1 + 1) \times 11 \times 111/(1 + 1 + 1) + 1.$
$816 = (1 + 1)^{11} - 11 \times (111 + 1).$
$817 = (1 + 1)^{11} - 11 \times (111 + 1) + 1.$
$818 = (1 + 1)^{11} - 11 \times (111 + 1) + 1 + 1.$
$819 = 11^{(1+1+1)} - (1 + 1)^{(11-1-1)}.$
$820 = (11 - 1) \times ((11 - 1 - 1)^{(1+1)} + 1).$

$821 = (11 - 1) \times ((11 - 1 - 1)^{(1+1)} + 1) + 1.$
$822 = (1 + 1) \times (((1 + 1) \times (11 - 1))^{(1+1)} + 11).$
$823 = 1111 - (1 + 1) \times (11 + 1)^{(1+1)}.$
$824 = 1111 - (1 + 1) \times (11 + 1)^{(1+1)} + 1.$
$825 = 11 \times ((1 + 1) \times 111/(1 + 1 + 1) + 1).$
$826 = (1 + 1)^{11} - 11 \times 111 - 1.$
$827 = (1 + 1)^{11} - 11 \times 111.$
$828 = (1 + 1)^{11} - 11 \times 111 + 1.$
$829 = (1 + 1)^{11} - 11 \times 111 + 1 + 1.$
$830 = (11 - 1) \times ((11 - 1 - 1)^{(1+1)} + 1 + 1).$
$831 = (11 - 1) \times ((11 - 1 - 1)^{(1+1)} + 1 + 1) + 1.$
$832 = (11 + 1 + 1) \times (1 + 1)^{((1+1)\times(1+1+1))}.$
$833 = (11 + 1 + 1) \times (1 + 1)^{((1+1)\times(1+1+1))} + 1.$
$834 = (1 + 1) \times (11 \times (111/(1 + 1 + 1) + 1) - 1).$
$835 = 1111 - (11 + 1) \times (11 + 11 + 1).$
$836 = (1 + 1) \times 11 \times (111/(1 + 1 + 1) + 1).$
$837 = (1 + 1)^{11} - 11 \times (111 - 1) - 1.$
$838 = (1 + 1)^{11} - 11 \times (111 - 1).$
$839 = (1 + 1)^{11} - 11 \times (111 - 1) + 1.$
$840 = (11 - 1 - 1)^{(1+1+1)} + 111.$
$841 = ((1 + 1 + 1) \times (11 - 1) - 1)^{(1+1)}.$
$842 = ((1 + 1 + 1) \times (11 - 1) - 1)^{(1+1)} + 1.$
$843 = ((1 + 1 + 1) \times (11 - 1) - 1)^{(1+1)} + 1 + 1.$
$844 = (1 + 1) \times (1 + 1) \times ((1 + 1) \times 111 - 11).$
$845 = (1 + 1 + 1 + 1 + 1) \times (11 + 1 + 1)^{(1+1)}.$
$846 = 11 \times 11 \times ((1 + 1) \times (1 + 1 + 1) + 1) - 1.$
$847 = 11 \times 11 \times ((1 + 1) \times (1 + 1 + 1) + 1).$
$848 = 11 \times 11 \times ((1 + 1) \times (1 + 1 + 1) + 1) + 1.$
$849 = ((1 + 1)^{11}) + (11 \times ((1 - 111) + 1)).$
$850 = 11^{(1+1)} + (11 - 1 - 1)^{(1+1+1)}.$
$851 = (11 + 11 + 1) \times 111/(1 + 1 + 1).$
$852 = ((1 + 1 + 1) \times (11 - 1) - 1)^{(1+1)} + 11.$
$853 = (11 + 1)^{(1+1+1)}/(1 + 1) - 11.$
$854 = (11 + 1)^{(1+1+1)}/(1 + 1) - 11 + 1.$
$855 = 1111 - (1 + 1)^{((1+1)^{(1+1+1)})}.$
$856 = (11 - 1)^{(1+1+1)} - (11 + 1)^{(1+1)}.$
$857 = (1 + 1) \times (11 + 11)^{(1+1)} - 111.$
$858 = 11 \times (111 - 11 \times (1 + 1 + 1)).$
$859 = 11 \times (111 - 11 \times (1 + 1 + 1)) + 1.$
$860 = (1 + 1) \times ((11 + 11 - 1)^{(1+1)} - 11).$
$861 = (11 + 1)^{(1+1+1)}/(1 + 1) - 1 - 1 - 1.$
$862 = (11 + 1)^{(1+1+1)}/(1 + 1) - 1 - 1.$
$863 = (11 + 1)^{(1+1+1)}/(1 + 1) - 1.$
$864 = (11 + 1)^{(1+1+1)}/(1 + 1).$
$865 = (11 + 1)^{(1+1+1)}/(1 + 1) + 1.$
$866 = (11 + 1)^{(1+1+1)}/(1 + 1) + 1 + 1.$
$867 = (11 + 1)^{(1+1+1)}/(1 + 1) + 1 + 1 + 1.$
$868 = 1111 - (1 + 1) \times 11^{(1+1)} - 1.$
$869 = 11 \times ((11 - 1 - 1)^{(1+1)} - 1 - 1).$
$870 = 11 \times ((11 - 1 - 1)^{(1+1)} - 1 - 1) + 1.$
$871 = 1111 - (1 + 1) \times (11^{(1+1)} - 1).$
$872 = (111 - 1 - 1) \times (11 - 1 - 1 - 1).$
$873 = (111 - 1 - 1) \times (11 - 1 - 1 - 1) + 1.$
$874 = 11 + ((11 + 1)^{(1+1+1)}/(1 + 1) - 1).$
$875 = 11 + (11 + 1)^{(1+1+1)}/(1 + 1).$
$876 = 11 + (11 + 1)^{(1+1+1)}/(1 + 1) + 1.$
$877 = (1 + 1)^{(1+1+1)} \times 111 - 11.$
$878 = (1 + 1)^{(1+1+1)} \times 111 - 11 + 1.$
$879 = (11 - 1)^{(1+1+1)} - 11^{(1+1)}.$
$880 = 11 \times ((11 - 1 - 1)^{(1+1)} - 1).$
$881 = 11 \times ((11 - 1 - 1)^{(1+1)} - 1) + 1.$
$882 = (1 + 1) \times (11 + 11 - 1)^{(1+1)}.$
$883 = (1 + 1) \times (11 + 11 - 1)^{(1+1)} + 1.$
$884 = (1 + 1) \times ((11 + 11 - 1)^{(1+1)} + 1).$
$885 = (1 + 1) \times ((11 + 11 - 1)^{(1+1)} + 1) + 1.$

$886 = (1 + 1) \times ((1 + 1) \times (1 + 1) \times 111 - 1).$
$887 = (1 + 1)^{(1+1+1)} \times 111 - 1.$
$888 = (1 + 1)^{(1+1+1)} \times 111.$
$889 = (1 + 1)^{(1+1+1)} \times 111 + 1.$
$890 = 11 \times (11 - 1 - 1)^{(1+1)} - 1.$
$891 = 11 \times (11 - 1 - 1)^{(1+1)}.$
$892 = 11 \times (11 - 1 - 1)^{(1+1)} + 1.$
$893 = 11 \times (11 - 1 - 1)^{(1+1)} + 1 + 1.$
$894 = 11 \times (11 - 1 - 1)^{(1+1)} + 1 + 1 + 1.$
$895 = (111 + 1) \times (1 + 1)^{(1+1+1)} - 1.$
$896 = (111 + 1) \times (1 + 1)^{(1+1+1)}.$
$897 = (111 + 1) \times (1 + 1)^{(1+1+1)} + 1.$
$898 = ((1 + 1 + 1) \times (11 - 1))^{(1+1)} - 1 - 1.$
$899 = ((1 + 1 + 1) \times (11 - 1))^{(1+1)} - 1.$
$900 = ((1 + 1 + 1) \times (11 - 1))^{(1+1)}.$
$901 = ((1 + 1 + 1) \times (11 - 1))^{(1+1)} + 1.$
$902 = 11 \times ((11 - 1 - 1)^{(1+1)} + 1).$
$903 = (1 + 1)^{(11-1)} - 11^{(1+1)}.$
$904 = (1 + 1)^{(11-1)} - 11^{(1+1)} + 1.$
$905 = (1 + 1)^{(11-1)} - 11^{(1+1)} + 1 + 1.$
$906 = (1 + 1)^{(11-1)} - 11^{(1+1)} + 1 + 1 + 1.$
$907 = (111 + 1) \times (1 + 1)^{(1+1+1)} + 11.$
$908 = (11 - 1 - 1) \times ((11 - 1)^{(1+1)} + 1) - 1.$
$909 = (11 - 1 - 1) \times ((11 - 1)^{(1+1)} + 1).$
$910 = (11 - 1 - 1) \times ((11 - 1)^{(1+1)} + 1) + 1.$
$911 = ((1 + 1 + 1) \times (11 - 1))^{(1+1)} + 11.$
$912 = (1 + 1)^{(11-1)} - 111 - 1.$
$913 = (1 + 1)^{(11-1)} - 111.$
$914 = (1 + 1)^{(11-1)} - 111 + 1.$
$915 = (1 + 1)^{(11-1)} - 111 + 1 + 1.$
$916 = (1 + 1)^{(11-1)} - 111 + 1 + 1 + 1.$
$917 = (1 + 1)^{(11-1)} - 111 + 1 + 1 + 1 + 1.$
$918 = (11 - 1 - 1) \times ((11 - 1)^{(1+1)} + 1 + 1).$
$919 = (11 - 1 - 1) \times ((11 - 1)^{(1+1)} + 1 + 1) + 1.$
$920 = (11 - 1) \times ((11 - 1 - 1)^{(1+1)} + 11).$
$921 = (11 - 1) \times ((11 - 1 - 1)^{(1+1)} + 11) + 1.$
$922 = ((1 + 1 + 1) \times (11 - 1))^{(1+1)} + 11 + 11.$
$923 = (1 + 1)^{(11-1)} + 11 - 111 - 1.$
$924 = (1 + 1)^{(11-1)} + 11 - 111.$
$925 = (11111 - 11)/(11 + 1).$
$926 = (11111 + 1)/(11 + 1).$
$927 = (11111 + 1)/(11 + 1) + 1.$
$928 = (11111 + 1)/(11 + 1) + 1 + 1.$
$929 = (11111 + 1)/(11 + 1) + 1 + 1 + 1.$
$930 = (11 - 1) \times ((1 + 1)^{(11-1)} - 1)/11.$
$931 = ((11 - 1) \times (1 + 1)^{(11-1)} + 1)/11.$
$932 = (1 + 1) \times (1 + 1) \times ((1 + 1) \times 111 + 11).$
$933 = (1 + 1) \times (1 + 1) \times ((1 + 1) \times 111 + 11) + 1.$
$934 = (1 + 1)^{11} - 1111 - 1 - 1 - 1.$
$935 = (1 + 1)^{11} - 1111 - 1 - 1.$
$936 = (1 + 1)^{11} - 1111 - 1.$
$937 = (1 + 1)^{11} - 1111.$
$938 = (1 + 1)^{11} - 1111 + 1.$
$939 = (1 + 1)^{11} - 1111 + 1 + 1.$
$940 = (1 + 1)^{11} - 1111 + 1 + 1 + 1.$
$941 = 1111 - (11 + 1 + 1)^{(1+1)} - 1.$
$942 = 1111 - (11 + 1 + 1)^{(1+1)}.$
$943 = 1111 - (11 + 1 + 1)^{(1+1)} + 1.$
$944 = (1 + 1) \times ((11 + 11)^{(1+1)} - 11 - 1).$
$945 = (1 + 1) \times ((11 + 11)^{(1+1)} - 11) - 1.$
$946 = (1 + 1) \times ((11 + 11)^{(1+1)} - 11).$
$947 = (1 + 1) \times ((11 + 11)^{(1+1)} - 11) + 1.$
$948 = (1 + 1)^{11} - 1111 + 11.$
$949 = (1 + 1)^{11} - 1111 + 11 + 1.$
$950 = ((1 + 1 + 1) \times (11 - 1) + 1)^{(1+1)} - 11.$
$951 = ((1 + 1 + 1) \times (11 - 1) + 1)^{(1+1)} - 11 + 1.$

$952 = (1 + 1)^{(1+1+1)} \times (11^{(1+1)} - 1 - 1).$
$953 = (1 + 1)^{(1+1+1)} \times (11^{(1+1)} - 1 - 1) + 1.$
$954 = (11 - 1 - 1) \times (111 - (11 - 1)/(1 + 1)).$
$955 = 1111 - (11 + 1) \times (11 + 1 + 1).$
$956 = 1111 - (11 + 1)^{(1+1)} - 11.$
$957 = 11 \times (111 - (1 + 1) \times (11 + 1)).$
$958 = 11 \times (111 - (1 + 1) \times (11 + 1)) + 1.$
$959 = (1 + 1)^{11} - (11 \times (1 + 1 + 1))^{(1+1)}.$
$960 = (11 + 1) \times ((11 - 1 - 1)^{(1+1)} - 1).$
$961 = ((1 + 1 + 1) \times (11 - 1) + 1)^{(1+1)}.$
$962 = ((1 + 1 + 1) \times (11 - 1) + 1)^{(1+1)} + 1.$
$963 = ((1 + 1 + 1) \times (11 - 1) + 1)^{(1+1)} + 1 + 1.$
$964 = (1 + 1) \times ((11 + 11)^{(1+1)} - 1 - 1).$
$965 = (1 + 1) \times ((11 + 11)^{(1+1)} - 1) - 1.$
$966 = (1 + 1) \times ((11 + 11)^{(1+1)} - 1).$
$967 = 1111 - (11 + 1)^{(1+1)}.$
$968 = (1 + 1) \times (11 + 11)^{(1+1)}.$
$969 = (1 + 1) \times (11 + 11)^{(1+1)} + 1.$
$970 = (1 + 1) \times ((11 + 11)^{(1+1)} + 1).$
$971 = (1 + 1) \times ((11 + 11)^{(1+1)} + 1) + 1.$
$972 = (11 + 1) \times (11 - 1 - 1)^{(1+1)}.$
$973 = (11 + 1) \times (11 - 1 - 1)^{(1+1)} + 1.$
$974 = (11 + 1) \times (11 - 1 - 1)^{(1+1)} + 1 + 1.$
$975 = (11 + 1)^{(1+1+1)}/(1 + 1) + 111.$
$976 = (1 + 1)^{(1+1+1)} \times (11^{(1+1)} + 1).$

$977 = (1 + 1)^{(1+1+1)} \times (11^{(1+1)} + 1) + 1.$
$978 = 11 \times (111 - 11 - 11) - 1.$
$979 = 11 \times (111 - 11 - 11).$
$980 = 11 \times (111 - 11 - 11) + 1.$
$981 = (11 - 1 - 1) \times (111 - 1 - 1).$
$982 = (11 - 1 - 1) \times (111 - 1 - 1) + 1.$
$983 = (11 - 1 - 1) \times (111 - 1 - 1) + 1 + 1.$
$984 = (11 + 1) \times ((11 - 1 - 1)^{(1+1)} + 1).$
$985 = (11 + 1) \times ((11 - 1 - 1)^{(1+1)} + 1) + 1.$
$986 = (11 - 1)^{(1+1+1)} - 11 - 1 - 1 - 1.$
$987 = (11 - 1)^{(1+1+1)} - 11 - 1 - 1.$
$988 = (11 - 1)^{(1+1+1)} - 11 - 1.$
$989 = (11 - 1)^{(1+1+1)} - 11.$
$990 = (11 - 1 - 1) \times (111 - 1).$
$991 = (11 - 1 - 1) \times (111 - 1) + 1.$
$992 = (11 - 1 - 1) \times (111 - 1) + 1 + 1.$
$993 = (11 - 1 - 1) \times (111 - 1) + 1 + 1 + 1.$
$994 = (1 + 1)^{(11-1)} - (1 + 1 + 1) \times (11 - 1).$
$995 = (11 - 1)^{(1+1+1)} - (11 - 1)/(1 + 1).$
$996 = (1 + 1 + 1) \times ((1 + 1 + 1) \times 111 - 1).$
$997 = (11 - 1)^{(1+1+1)} - 1 - 1 - 1.$
$998 = (11 - 1)^{(1+1+1)} - 1 - 1.$
$999 = 111 \times (11 - 1 - 1).$
$1000 = (11 - 1)^{(1+1+1)}.$

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

$101 = 3 + 3 \times 33 - 3/3.$
$102 = 3 + 3 \times 33.$
$103 = 3 + 3 \times 33 + 3/3.$
$104 = 3 + 3 + 3 \times 33 - 3/3.$
$105 = 3 + (3 \times 33 + 3).$
$106 = 3 + 3 + 3 \times 33 + 3/3.$
$107 = 3 \times (33 + 3) - 3/3.$
$108 = 3 \times (33 + 3).$
$109 = 3 \times (33 + 3) + 3/3.$
$110 = (333 - 3)/3.$
$111 = 333/3.$
$112 = (333 + 3)/3.$
$113 = 3 + (333 - 3)/3.$
$114 = 3 + 333/3.$
$115 = 3 + (333 + 3)/3.$
$116 = 3 + 3 + (333 - 3)/3.$
$117 = 3 \times (33 + 3 + 3).$
$118 = 3 + 3 + (333 + 3)/3.$
$119 = 3 \times 3 + (333 - 3)/3.$
$120 = 3 + 3 \times (33 + 3 + 3).$
$121 = (33/3)^{(3-3/3)}.$
$122 = (3^{(3+3)} + 3)/(3 + 3).$
$123 = 3^3 + 3 \times 33 - 3.$
$124 = 3 + (33/3)^{(3-3/3)}.$
$125 = (3 + 3 - 3/3)^3.$
$126 = 3 \times (3 \times 3 + 33).$
$127 = 3^3 + 3 \times 33 + 3/3.$
$128 = 3 + (3 + 3 - 3/3)^3.$
$129 = 3 + 3 \times 33 + 3^3.$
$130 = 3 + 3 \times 33 + 3^3 + 3/3.$
$131 = 3 + 3 + (3 + 3 - 3/3)^3.$
$132 = 33 + 3 \times 33.$
$133 = 3 \times 33 + 33 + 3/3.$
$134 = 3 \times 3 + (3 + 3 - 3/3)^3.$
$135 = 3 + 3 \times 33 + 33.$
$136 = (3 + 3/3) \times (33 + 3/3).$
$137 = 3^3 + (333 - 3)/3.$
$138 = 3^3 + 333/3.$
$139 = 3^3 + (333 + 3)/3.$
$140 = 3 + 3^3 + (333 - 3)/3.$
$141 = 33 + 3 \times (33 + 3).$
$142 = 3 + 3^3 + (333 + 3)/3.$
$143 = 33 + (333 - 3)/3.$
$144 = (3 + 3) \times (3^3 - 3).$
$145 = (3 + 3) \times (3^3 - 3) + 3/3.$
$146 = 3 + 33 + (333 - 3)/3.$
$147 = 3 + (3 + 3) \times (3^3 - 3).$
$148 = (33 \times 3^3 - 3)/(3 + 3).$
$149 = (33 \times 3^3 + 3)/(3 + 3).$
$150 = 3 + 3 + (3 + 3) \times (3^3 - 3).$
$151 = (3 + 3) \times 3^3 - 33/3.$
$152 = 3^3 + (3 + 3 - 3/3)^3.$
$153 = 3 \times (3^3 + 3^3 - 3).$
$154 = 33 \times (3 + 33/3)/3.$
$155 = 3^3 + 3 + (3 + 3 - 3/3)^3.$
$156 = (3 + 3) \times (3^3 - 3/3).$
$157 = 3 + 33 \times (3 + 33/3)/3.$
$158 = 33 + (3 + 3 - 3/3)^3.$
$159 = (3 + 3) \times 3^3 - 3.$
$160 = (3 + 3) \times 3^3 - 3 + 3/3.$
$161 = (3 + 3) \times 3^3 - 3/3.$
$162 = (3 + 3) \times 3^3.$
$163 = (3 + 3) \times 3^3 + 3/3.$

$164 = (3 + 3) \times 3^3 + 3 - 3/3.$
$165 = (3 + 3) \times 3^3 + 3.$
$166 = (3 + 3) \times 3^3 + 3 + 3/3.$
$167 = (3 \times 333 + 3)/(3 + 3).$
$168 = (3 + 3) \times 3^3 + 3 + 3.$
$169 = (3 + 3) \times 3^3 + 3 + 3 + 3/3.$
$170 = 3 + (3 \times 333 + 3)/(3 + 3).$
$171 = 3 \times (3^3 + 3^3 + 3).$
$172 = 3 \times 3 + (3 + 3) \times 3^3 + 3/3.$
$173 = (3 + 3) \times 3^3 + 33/3.$
$174 = (3 + 3) \times 3^3 + 3 \times 3 + 3.$
$175 = (3 + 3/3)^3 + 333/3.$
$176 = (3 + 3) \times 3^3 + 3 + 33/3.$
$177 = 3 \times (3^3 + 33) - 3.$
$178 = 3 \times (3^3 + 33) - 3 + 3/3.$
$179 = 3 \times (3^3 + 33) - 3/3.$
$180 = 3 \times (3^3 + 33).$
$181 = 3 \times (3^3 + 33) + 3/3.$
$182 = (3 + 3)^3 - 33 - 3/3.$
$183 = (3 + 3)^3 - 33.$
$184 = (3 + 3)^3 - 33 + 3/3.$
$185 = (3 + 3)^3 + 3 - 33 - 3/3.$
$186 = (3 + 3)^3 + 3 - 33.$
$187 = 33 \times (3 + 3) - 33/3.$
$188 = (3 + 3)^3 - 3^3 - 3/3.$
$189 = (3 + 3)^3 - 3^3.$
$190 = (3 + 3)^3 - 3^3 + 3/3.$
$191 = 3 \times (3 + 3/3)^3 - 3/3.$
$192 = 3 \times (3 + 3/3)^3.$
$193 = 3 \times (3 + 3/3)^3 + 3/3.$
$194 = 33 \times (3 + 3) - 3 - 3/3.$
$195 = 33 \times (3 + 3) - 3.$
$196 = 33 \times (3 + 3) - 3 + 3/3.$
$197 = 33 \times (3 + 3) - 3/3.$
$198 = 33 \times (3 + 3).$
$199 = 33 \times (3 + 3) + 3/3.$
$200 = 33 \times (3 + 3) + 3 - 3/3.$
$201 = 33 \times (3 + 3) + 3.$
$202 = 33 \times (3 + 3) + 3 + 3/3.$
$203 = 33 \times (3 + 3) + 3 + 3 - 3/3.$
$204 = 33 \times (3 + 3) + 3 + 3.$
$205 = (3 + 3)^3 - 33/3.$
$206 = (3 + 3)^3 - (33 - 3)/3.$
$207 = (3 + 3)^3 - 3 \times 3.$
$208 = (3 + 3)^3 - 3 \times 3 + 3/3.$
$209 = (3 + 3)^3 - 3 - 3 - 3/3.$
$210 = (3 + 3)^3 - 3 - 3.$
$211 = (3 + 3)^3 - 3 - 3 + 3/3.$
$212 = (3 + 3)^3 - 3 - 3/3.$
$213 = (3 + 3)^3 - 3.$
$214 = (3 + 3)^3 - 3 + 3/3.$
$215 = (3 + 3)^3 - 3/3.$
$216 = (3 + 3)^3.$
$217 = (3 + 3)^3 + 3/3.$
$218 = (3 + 3)^3 + 3 - 3/3.$
$219 = (3 + 3)^3 + 3.$
$220 = (3 + 3)^3 + 3 + 3/3.$
$221 = (3 + 3)^3 + 3 + 3 - 3/3.$
$222 = (3 + 3)^3 + 3 + 3.$
$223 = (3 + 3)^3 + 3 + 3 + 3/3.$
$224 = (3 + 3)^3 + 3 \times 3 - 3/3.$
$225 = (3 + 3)^3 + 3 \times 3.$
$226 = (3 + 3)^3 + 3 \times 3 + 3/3.$

$227 = (3 + 3)^3 + 33/3.$
$228 = (3 + 3)^3 + 3 \times 3 + 3.$
$229 = (3^{(3+3)} - 33)/3 - 3.$
$230 = (3 + 3)^3 + 3 + 33/3.$
$231 = 33 \times (3 + 3) + 33.$
$232 = (3^{(3+3)} - 33)/3.$
$233 = 3 \times (3 \times 3^3 - 3) - 3/3.$
$234 = 3 \times (3 \times 3^3 - 3).$
$235 = 3 + (3^{(3+3)} - 33)/3.$
$236 = (3^{(3+3)} - 3)/3 - 3 - 3.$
$237 = 3 \times (3 \times 3^3 - 3) + 3.$
$238 = (3^{(3+3)} + 3)/3 - 3 - 3.$
$239 = (3^{(3+3)} - 3)/3 - 3.$
$240 = 3 \times 3 \times 3^3 - 3.$
$241 = (3^{(3+3)} + 3)/3 - 3.$
$242 = (3^{(3+3)} - 3)/3.$
$243 = 3 \times 3 \times 3^3.$
$244 = (3^{(3+3)} + 3)/3.$
$245 = 3 + (3^{(3+3)} - 3)/3.$
$246 = 3 \times 3 \times 3^3 + 3.$
$247 = 3 + (3^{(3+3)} + 3)/3.$
$248 = 3 + 3 + (3^{(3+3)} - 3)/3.$
$249 = 33 + (3 + 3)^3.$
$250 = 3 + 3 + (3^{(3+3)} + 3)/3.$
$251 = 3 \times 3 + (3^{(3+3)} - 3)/3.$
$252 = 3 \times (3 \times 3^3 + 3).$
$253 = 3 \times 3 + (3^{(3+3)} + 3)/3.$
$254 = (3^{(3+3)} + 33)/3.$
$255 = 3 \times (3 \times 3^3 + 3) + 3.$
$256 = (3 + 3/3)^{(3+3/3)}.$
$257 = 3 + (3^{(3+3)} + 33)/3.$
$258 = 3 + 3 + 3 \times (3 \times 3^3 + 3).$
$259 = 3 + (3 + 3/3)^{(3+3/3)}.$
$260 = 3 + 3 + (3^{(3+3)} + 33)/3.$
$261 = 3 \times (3 \times 3^3 + 3 + 3).$
$262 = 3 + 3 + (3 + 3/3)^{(3+3/3)}.$
$263 = (33 \times (3^3 - 3) - 3)/3.$
$264 = 33 \times (3 \times 3 - 3/3).$
$265 = (33 \times (3^3 - 3) + 3)/3.$
$266 = 3 + (33 \times (3^3 - 3) - 3)/3.$
$267 = 3 \times 3 \times (3^3 + 3) - 3.$
$268 = 3 + (33 \times (3^3 - 3) + 3)/3.$
$269 = 3^3 + (3^{(3+3)} - 3)/3.$
$270 = 3 \times 3 \times (3^3 + 3).$
$271 = 3^3 + (3^{(3+3)} + 3)/3.$
$272 = 3^3 + 3 + (3^{(3+3)} - 3)/3.$
$273 = 3 \times 3 \times (3^3 + 3) + 3.$
$274 = 3 \times 3 \times (3^3 + 3) + 3 + 3/3.$
$275 = 33 + (3^{(3+3)} - 3)/3.$
$276 = 33 + 3 \times 3 \times 3^3.$
$277 = 33 + (3^{(3+3)} + 3)/3.$
$278 = 33 + 3 + (3^{(3+3)} - 3)/3.$
$279 = 3 \times (3 \times (3^3 + 3) + 3).$
$280 = (3 + 3)^3 + (3 + 3/3)^3.$
$281 = 3^3 + (3^{(3+3)} + 33)/3.$
$282 = 3 + 3 \times (3 \times (3^3 + 3) + 3).$
$283 = (3 + 3/3)^3 + (3 + 3)^3 + 3.$
$284 = (3 + 3/3) \times ((3 + 3)^3 - 3)/3.$
$285 = 3 \times (3 \times 33 - 3) - 3.$
$286 = 33 \times (3^3 - 3/3)/3.$
$287 = 3 \times (3 \times 33 - 3) - 3/3.$
$288 = 3 \times (3 \times 33 - 3).$
$289 = 3 \times (3 \times 33 - 3) + 3/3.$

$290 = 3 \times (3 \times 33 - 3) + 3 - 3/3.$
$291 = 3 \times (3 \times 33 - 3) + 3.$
$292 = 3 \times (3 \times 33 - 3) + 3 + 3/3.$
$293 = 3 \times 3 \times 33 - 3 - 3/3.$
$294 = 3 \times 3 \times 33 - 3.$
$295 = 3 \times 3 \times 33 - 3 + 3/3.$
$296 = 3 \times 3 \times 33 - 3/3.$
$297 = 3 \times 3 \times 33.$
$298 = 3 \times 3 \times 33 + 3/3.$
$299 = 3 \times 3 \times 33 + 3 - 3/3.$
$300 = 3 \times 3 \times 33 + 3.$
$301 = 3 \times 3 \times 33 + 3 + 3/3.$
$302 = 3 \times 3 \times 33 + 3 + 3 - 3/3.$
$303 = 3 \times 3 \times 33 + 3 + 3.$
$304 = 3 \times 3 \times 33 + 3 + 3 + 3/3.$
$305 = 333 - 3^3 - 3/3.$
$306 = 3 \times (3 \times 33 + 3).$
$307 = 3 \times (3 \times 33 + 3) + 3/3.$
$308 = 3 \times 3 \times 33 + 33/3.$
$309 = 3 \times (3 \times 33 + 3) + 3.$
$310 = (3 + 3 + 3/3)^3 - 33.$
$311 = 3 \times 3 \times 33 + 3 + 33/3.$
$312 = 3 \times (3 \times 33 + 3) + 3 + 3.$
$313 = 3 - 33 + (3 + 3 + 3/3)^3.$
$314 = 3 \times 33 + (3 + 3)^3 - 3/3.$
$315 = 3 \times (3 \times 33 + 3 + 3).$
$316 = (3 + 3 + 3/3)^3 - 3^3.$
$317 = 333 - 3^3 + 33/3.$
$318 = 3 \times 33 + (3 + 3)^3 + 3.$
$319 = 333 - 3 - 33/3.$
$320 = 333 - 3 - (33 - 3)/3.$
$321 = 333 - 3 \times 3 - 3.$
$322 = 333 - 33/3.$
$323 = 333 - (33 - 3)/3.$
$324 = 3 \times 3 \times (33 + 3).$
$325 = 3 + 333 - 33/3.$
$326 = 333 - 3 - 3 - 3/3.$
$327 = 333 - 3 - 3.$
$328 = 333 - 3 - 3 + 3/3.$
$329 = 333 - 3 - 3/3.$
$330 = 333 - 3.$
$331 = 333 - 3 + 3/3.$
$332 = 333 - 3/3.$
$333 = 333.$
$334 = 333 + 3/3.$
$335 = 333 + 3 - 3/3.$
$336 = 333 + 3.$
$337 = 333 + 3 + 3/3.$
$338 = 333 + 3 + 3 - 3/3.$
$339 = 333 + 3 + 3.$
$340 = (3 + 3 + 3/3)^3 - 3.$
$341 = 333 + 3 \times 3 - 3/3.$
$342 = 333 + 3 \times 3.$
$343 = (3 + 3 + 3/3)^3.$
$344 = 333 + 33/3.$
$345 = 333 + 3 \times 3 + 3.$
$346 = 3 + (3 + 3 + 3/3)^3.$
$347 = 3 + 333 + 33/3.$
$348 = 3 + 3 + 333 + 3 \times 3.$
$349 = 3 + 3 + (3 + 3 + 3/3)^3.$
$350 = 3 + 3 + 333 + 33/3.$
$351 = 3 \times 3 \times (33 + 3 + 3).$
$352 = 3 \times 3 + (3 + 3 + 3/3)^3.$
$353 = 3 \times 3 + 333 + 33/3.$
$354 = 3 + 333 + 3 \times (3 + 3).$
$355 = 3 + 3 \times 3 + (3 + 3 + 3/3)^3.$

$356 = 3^3 + 333 - 3 - 3/3.$
$357 = 3^3 + 333 - 3.$
$358 = 3^3 + 333 - 3 + 3/3.$
$359 = 3^3 + 333 - 3/3.$
$360 = 3^3 + 333.$
$361 = 3^3 + 333 + 3/3.$
$362 = (33 \times 33 - 3)/3.$
$363 = 33 \times 33/3.$
$364 = (33 \times 33 + 3)/3.$
$365 = 3 + (33 \times 33 - 3)/3.$
$366 = 33 + 333.$
$367 = 3 + (33 \times 33 + 3)/3.$
$368 = 3 + 3 + (33 \times 33 - 3)/3.$
$369 = 3 + 333 + 33.$
$370 = 3^3 + (3 + 3 + 3/3)^3.$
$371 = 3^3 + 333 + 33/3.$
$372 = 3 + 3 + 333 + 33.$
$373 = 3 + 3^3 + (3 + 3 + 3/3)^3.$
$374 = 33 \times (33 + 3/3)/3.$
$375 = 3 \times (3 + 3 - 3/3)^3.$
$376 = 33 + (3 + 3 + 3/3)^3.$
$377 = 3 + 33 \times (33 + 3/3)/3.$
$378 = 3 \times (3 \times 33 + 3^3).$
$379 = 3 + 33 + (3 + 3 + 3/3)^3.$
$380 = 3 + 3 + 33 \times (33 + 3/3)/3.$
$381 = 3 + 3 \times (3 \times 33 + 3^3).$
$382 = 3333/3 - 3^{(3+3)}.$
$383 = (3 + 3) \times (3 + 3/3)^3 - 3/3.$
$384 = (3 + 3) \times (3 + 3/3)^3.$
$385 = (3 + 3) \times (3 + 3/3)^3 + 3/3.$
$386 = 3^{(3+3)} - (3 + 3 + 3/3)^3.$
$387 = 3 + (3 + 3) \times (3 + 3/3)^3.$
$388 = 3 + (3 + 3) \times (3 + 3/3)^3 + 3/3.$
$389 = 3^3 + (33 \times 33 - 3)/3.$
$390 = 3^3 + 33 \times 33/3.$
$391 = 3^3 + (33 \times 33 + 3)/3.$
$392 = 33 \times (3 \times 3 + 3) - 3 - 3/3.$
$393 = 33 \times (3 \times 3 + 3) - 3.$
$394 = 33 \times (3 \times 3 + 3) - 3 + 3/3.$
$395 = 33 \times (3 \times 3 + 3) - 3/3.$
$396 = 33 \times (3 \times 3 + 3).$
$397 = 33 \times (3 \times 3 + 3) + 3/3.$
$398 = 33 \times (3 \times 3 + 3) + 3 - 3/3.$
$399 = 33 \times (3 \times 3 + 3) + 3.$
$400 = 33 \times (3 \times 3 + 3) + 3 + 3/3.$
$401 = 33 \times (3 \times 3 + 3) + 3 + 3 - 3/3.$
$402 = 33 \times (3 \times 3 + 3) + 3 + 3.$
$403 = 33 \times (3 \times 3 + 3) + 3 + 3 + 3/3.$
$404 = 333 + ((3 + 3)^3 - 3)/3.$
$405 = 3^3 \times (3 \times 3 + 3 + 3).$
$406 = 3^3 \times (3 \times 3 + 3 + 3) + 3/3.$
$407 = 33 \times 333/(3^3).$
$408 = 3^3 \times (3 \times 3 + 3 + 3) + 3.$
$409 = 3^3 \times (3 \times 3 + 3 + 3) + 3 + 3/3.$
$410 = 33 \times 333/(3^3) + 3.$
$411 = 3 \times 3^3 + 333 - 3.$
$412 = 3 \times 3^3 + 333 - 3 + 3/3.$
$413 = 3 \times 3^3 + 333 - 3/3.$
$414 = 3 \times 3^3 + 333.$
$415 = 3 \times 3^3 + 333 + 3/3.$
$416 = 3 \times 3^3 + 333 + 3 - 3/3.$
$417 = 3 \times 3^3 + 333 + 3.$
$418 = 33 \times (3^3 + 33/3)/3.$
$419 = (3^3 + 3) \times (3 + 33/3) - 3/3.$
$420 = (3^3 + 3) \times (3 + 33/3).$
$421 = ((3 + 3)^{(3+3/3)} - 33)/3.$

$422 = 3^3 + 33 \times (3 \times 3 + 3) - 3/3.$
$423 = 3 \times (3 \times (33 + 3) + 33).$
$424 = 3 \times 3^3 + (3 + 3 + 3/3)^3.$
$425 = ((3 + 3) \times ((3 + 3)^3 - 3) - 3)/3.$
$426 = (3 + 3) \times ((3 + 3)^3 - 3)/3.$
$427 = ((3 + 3) \times ((3 + 3)^3 - 3) + 3)/3.$
$428 = ((3 + 3)^{(3+3/3)} - 3)/3 - 3.$
$429 = 33 + 33 \times (3 \times 3 + 3).$
$430 = (3 - 3/3) \times ((3 + 3)^3 - 3/3).$
$431 = ((3 + 3)^{(3+3/3)} - 3)/3.$
$432 = 3 \times (3 + 3) \times (3^3 - 3).$
$433 = ((3 + 3)^{(3+3/3)} + 3)/3.$
$434 = 3 + ((3 + 3)^{(3+3/3)} - 3)/3.$
$435 = 3 + 3 \times 33 + 333.$
$436 = 3 + ((3 + 3)^{(3+3/3)} + 3)/3.$
$437 = ((3 + 3) \times ((3 + 3)^3 + 3) - 3)/3.$
$438 = (3 + 3) \times ((3 + 3)^3 + 3)/3.$
$439 = ((3 + 3) \times ((3 + 3)^3 + 3) + 3)/3.$
$440 = (3 + 3/3) \times (333 - 3)/3.$
$441 = 3 \times ((3 + 3) \times (3^3 - 3) + 3).$
$442 = 3 \times 33 + (3 + 3 + 3/3)^3.$
$443 = 333 + (333 - 3)/3.$
$444 = 333 + 333/3.$
$445 = 333 + (333 + 3)/3.$
$446 = (3 \times 33 \times 3^3 + 3)/(3 + 3).$
$447 = 3 + 333 + 333/3.$
$448 = (3 + 3/3) \times (333 + 3)/3.$
$449 = (3 \times 33 \times 3^3 + 3)/(3 + 3) + 3.$
$450 = (3 + 3) \times (3 \times (3^3 - 3) + 3).$
$451 = (3 + 3/3) \times (333 + 3)/3 + 3.$
$452 = (3 + 3/3) \times (3 + (333 - 3)/3).$
$453 = 3 \times (3 + 3) \times 3^3 - 33.$
$454 = 3 \times (3 + 3) \times 3^3 - 33 + 3/3.$
$455 = (3 + 3)^3 + (3^{(3+3)} - 3)/3 - 3.$
$456 = 3 \times (3 + 3) \times 3^3 - 33 + 3.$
$457 = (3 + 3)^3 + (3^{(3+3)} + 3)/3 - 3.$
$458 = (3 + 3)^3 + (3^{(3+3)} - 3)/3.$
$459 = 3 \times 3 \times (3^3 - 3 + 3^3).$
$460 = (3 + 3)^3 + (3^{(3+3)} + 3)/3.$
$461 = 33 \times (3 + 33/3) - 3/3.$
$462 = 33 \times (3 + 33/3).$
$463 = 33 \times (3 + 33/3) + 3/3.$
$464 = 3 + 33 \times (3 + 33/3) - 3/3.$
$465 = 3 + 33 \times (3 + 33/3).$
$466 = 3 + 33 \times (3 + 33/3) + 3/3.$
$467 = (3 + 3) \times (3 \times 3^3 - 3) - 3/3.$
$468 = (3 + 3) \times (3 \times 3^3 - 3).$
$469 = (3 + 3) \times (3 \times 3^3 - 3) + 3/3.$
$470 = (3 + 3) \times (3 \times 3^3 - 3) + 3 - 3/3.$
$471 = (3 + 3) \times (3 \times 3^3 - 3) + 3.$
$472 = (3 + 3) \times (3 \times 3^3 - 3) + 3 + 3/3.$
$473 = 33 \times (3 + 33/3) + 33/3.$
$474 = 3 \times ((3 + 3) \times 3^3 - 3) - 3.$
$475 = 3 \times (3 + 3) \times 3^3 - 33/3.$
$476 = (3 + 33/3) \times (33 + 3/3).$
$477 = 3 \times ((3 + 3) \times 3^3 - 3).$
$478 = 3 \times ((3 + 3) \times 3^3 - 3) + 3/3.$
$479 = (3 - 3/3)^{(3 \times 3)} - 33.$
$480 = 3 \times ((3 + 3) \times 3^3 - 3) + 3.$
$481 = 3 \times ((3 + 3) \times 3^3 - 3) + 3 + 3/3.$
$482 = (3 - 3/3)^{(3 \times 3)} + 3 - 33.$
$483 = 3 \times (3 + 3) \times 3^3 - 3.$
$484 = 3 \times (3 + 3) \times 3^3 - 3 + 3/3.$
$485 = (3 - 3/3)^{(3 \times 3)} - 3^3.$
$486 = 3 \times (3 + 3) \times 3^3.$
$487 = 3 \times (3 + 3) \times 3^3 + 3/3.$

$488 = (3 - 3/3)^{(3 \times 3)} + 3 - 3^3.$
$489 = 3 \times (3 + 3) \times 3^3 + 3.$
$490 = 3 \times (3 + 3) \times 3^3 + 3 + 3/3.$
$491 = (3 - 3/3)^{(3 \times 3)} + 3 + 3 - 3^3.$
$492 = 3 \times (3 + 3) \times 3^3 + 3 + 3.$
$493 = 3 \times (3 + 3) \times 3^3 + 3 + 3 + 3/3.$
$494 = (3 - 3/3)^{(3 \times 3)} - 3 \times (3 + 3).$
$495 = 3 \times ((3 + 3) \times 3^3 + 3).$
$496 = 3 \times ((3 + 3) \times 3^3 + 3) + 3/3.$
$497 = 3 \times (3 + 3) \times 3^3 + 33/3.$
$498 = 3 \times ((3 + 3) \times 3^3 + 3) + 3.$
$499 = (3 \times 3 \times 333 - 3)/(3 + 3).$
$500 = (3 + 3/3) \times (3 + 3 - 3/3)^3.$
$501 = (3 + 3) \times (3 \times 3^3 + 3) - 3.$
$502 = (3 \times 3 \times 333 - 3)/(3 + 3) + 3.$
$503 = (3 - 3/3)^{(3 \times 3)} - 3 \times 3.$
$504 = (3 + 3) \times (3 \times 3^3 + 3).$
$505 = (3 + 3) \times (3 \times 3^3 + 3) + 3/3.$
$506 = (3 - 3/3)^{(3 \times 3)} - 3 - 3.$
$507 = (3 + 3) \times (3 \times 3^3 + 3) + 3.$
$508 = (3 - 3/3)^{(3 \times 3)} - 3 - 3/3.$
$509 = (3 - 3/3)^{(3 \times 3)} - 3.$
$510 = 3^{(3+3)} - (3 + 3)^3 - 3.$
$511 = (3 - 3/3)^{(3 \times 3)} - 3/3.$
$512 = (3 - 3/3)^{(3 \times 3)}.$
$513 = (3 - 3/3)^{(3 \times 3)} + 3/3.$
$514 = (3 - 3/3)^{(3 \times 3)} + 3 - 3/3.$
$515 = (3 - 3/3)^{(3 \times 3)} + 3.$
$516 = 3^{(3+3)} - (3 + 3)^3 + 3.$
$517 = (3 - 3/3)^{(3 \times 3)} + 3 + 3 - 3/3.$
$518 = (3 - 3/3)^{(3 \times 3)} + 3 + 3.$
$519 = 3 \times (3 + 3) \times 3^3 + 33.$
$520 = 3 \times 3 + (3 - 3/3)^{(3 \times 3)} - 3/3.$
$521 = 3 \times 3 + (3 - 3/3)^{(3 \times 3)}.$
$522 = (3 + 3) \times (3 \times 3^3 + 3 + 3).$
$523 = (3 - 3/3)^{(3 \times 3)} + 33/3.$
$524 = 3 \times 3 + (3 - 3/3)^{(3 \times 3)} + 3.$
$525 = (3 + 3) \times (3 \times 3^3 + 3 + 3) + 3.$
$526 = (3 - 3/3)^{(3 \times 3)} + 3 + 33/3.$
$527 = 3 \times 3 + (3 - 3/3)^{(3 \times 3)} + 3 + 3.$
$528 = 33 \times (3^3 - 33/3).$
$529 = (3^3 - 3 - 3/3)^{(3 - 3/3)}.$
$530 = 3 \times (3 + 3) + (3 - 3/3)^{(3 \times 3)}.$
$531 = 3 \times (3 \times (3^3 + 33) - 3).$
$532 = (3^3 - 3 - 3/3)^{(3 - 3/3)} + 3.$
$533 = 3 \times (3 + 3) + (3 - 3/3)^{(3 \times 3)} + 3.$
$534 = 33 \times (3 + 3) + 333 + 3.$
$535 = (3333 - (3 \times 3 + 3)^3)/3.$
$536 = 3^3 + (3 - 3/3)^{(3 \times 3)} - 3.$
$537 = 3 \times 3 \times (3^3 + 33) - 3.$
$538 = 3^3 + (3 - 3/3)^{(3 \times 3)} - 3/3.$
$539 = 3^3 + (3 - 3/3)^{(3 \times 3)}.$
$540 = 3 \times 3 \times (3^3 + 33).$
$541 = 3 \times 3 \times (3^3 + 33) + 3/3.$
$542 = 3^3 + (3 - 3/3)^{(3 \times 3)} + 3.$
$543 = 3 \times 3 \times (3^3 + 33) + 3.$
$544 = ((3 \times 3 + 3)^3 + 3)/3 - 33.$
$545 = (3 - 3/3)^{(3 \times 3)} + 33.$
$546 = (3 + 3)^3 + 333 - 3.$
$547 = ((3 \times 3 + 3)^3 + 3)/3 - 33 + 3.$
$548 = (3 - 3/3)^{(3 \times 3)} + 33 + 3.$
$549 = 3 \times ((3 + 3)^3 - 33).$
$550 = 3 \times ((3 + 3)^3 - 33) + 3/3.$
$551 = (3333 - 3^3)/(3 + 3).$
$552 = (3 + 3)^3 + 333 + 3.$
$553 = (3333 + 3)/(3 + 3) - 3.$

$554 = (3333 - 3 \times 3)/(3 + 3).$
$555 = (3333 - 3)/(3 + 3).$
$556 = (3333 + 3)/(3 + 3).$
$557 = (3333 + 3 \times 3)/(3 + 3).$
$558 = 3 \times ((3 + 3)^3 + 3 - 33).$
$559 = (3333 + 3)/(3 + 3) + 3.$
$560 = (3333 + 3^3)/(3 + 3).$
$561 = 33 \times (3 + 3 + 33/3).$
$562 = ((3 \times 3 + 3 + 3)^3 - 3)/(3 + 3).$
$563 = ((3 \times 3 + 3 + 3)^3 + 3)/(3 + 3).$
$564 = 3 \times ((3 + 3)^3 - 3^3) - 3.$
$565 = ((3 \times 3 + 3)^3 - 33)/3.$
$566 = 3 \times ((3 + 3)^3 - 3^3) - 3/3.$
$567 = 3 \times ((3 + 3)^3 - 3^3).$
$568 = ((3 \times 3 + 3)^3 - 33)/3 + 3.$
$569 = ((3 \times 3 + 3)^3 - 3)/3 - 3 - 3.$
$570 = 3 \times ((3 + 3)^3 - 3^3) + 3.$
$571 = ((3 \times 3 + 3)^3 + 3)/3 - 3 - 3.$
$572 = ((3 \times 3 + 3)^3 - 3)/3 - 3.$
$573 = ((3 \times 3 + 3)^3)/3 - 3.$
$574 = ((3 \times 3 + 3)^3 + 3)/3 - 3.$
$575 = ((3 \times 3 + 3)^3 - 3)/3.$
$576 = (3 \times 3 + 3)^3/3.$
$577 = ((3 \times 3 + 3)^3 + 3)/3.$
$578 = ((3 \times 3 + 3)^3 - 3)/3 + 3.$
$579 = (3 \times 3 + 3)^3/3 + 3.$
$580 = ((3 \times 3 + 3)^3 + 3)/3 + 3.$
$581 = ((3 \times 3 + 3)^3 - 3)/3 + 3 + 3.$
$582 = (3 \times 3 + 3)^3/3 + 3 + 3.$
$583 = ((3 \times 3 + 3)^3 + 3)/3 + 3 + 3.$
$584 = 3 \times 3 + ((3 \times 3 + 3)^3 - 3)/3.$
$585 = 3 \times (33 \times (3 + 3) - 3).$
$586 = 3 \times 3 + ((3 \times 3 + 3)^3 + 3)/3.$
$587 = ((3 \times 3 + 3)^3 + 33)/3.$
$588 = 3 \times (33 \times (3 + 3) - 3) + 3.$
$589 = 3 \times (33 \times (3 + 3) - 3) + 3 + 3/3.$
$590 = ((3 \times 3 + 3)^3 + 33)/3 + 3.$
$591 = 3 \times 33 \times (3 + 3) - 3.$
$592 = 3 \times 33 \times (3 + 3) - 3 + 3/3.$
$593 = 3 \times 33 \times (3 + 3) - 3/3.$
$594 = 3 \times 33 \times (3 + 3).$
$595 = 3 \times 33 \times (3 + 3) + 3/3.$
$596 = 3 \times 33 \times (3 + 3) + 3 - 3/3.$
$597 = 3 \times 33 \times (3 + 3) + 3.$
$598 = 3 \times 33 \times (3 + 3) + 3 + 3/3.$
$599 = (33/3)^3 - 3^{(3+3)} - 3.$
$600 = 3 \times 33 \times (3 + 3) + 3 + 3.$
$601 = 3 \times 33 \times (3 + 3) + 3 + 3 + 3/3.$
$602 = (33/3)^3 - 3^{(3+3)}.$
$603 = 3 \times (33 \times (3 + 3) + 3).$
$604 = 3^3 + ((3 \times 3 + 3)^3 + 3)/3.$
$605 = 3 + (33/3)^3 - 3^{(3+3)}.$
$606 = 3 \times (33 \times (3 + 3) + 3) + 3.$
$607 = 3 \times (33 \times (3 + 3) + 3) + 3 + 3/3.$
$608 = 33 + ((3 \times 3 + 3)^3 - 3)/3.$
$609 = 33 + (3 \times 3 + 3)^3/3.$
$610 = 33 + ((3 \times 3 + 3)^3 + 3)/3.$
$611 = 3 \times 33 + (3 - 3/3)^{(3 \times 3)}.$
$612 = (3 + 3) \times (3 \times 33 + 3).$
$613 = (3 + 3) \times (3 \times 33 + 3) + 3/3.$
$614 = 3 \times (3 + 3)^3 - 33 - 3/3.$
$615 = 3 \times (3 + 3)^3 - 33.$
$616 = 3 \times (3 + 3)^3 - 33 + 3/3.$
$617 = 3^{(3+3)} - (333 + 3)/3.$
$618 = +3 \times (3 + 3)^3 + 3 - 33.$
$619 = 3^{(3+3)} - (333 - 3)/3.$

$620 = 3 \times (3 + 3)^3 - 3^3 - 3/3.$
$621 = 3 \times ((3 + 3)^3 - 3 \times 3).$
$622 = 3 \times ((3 + 3)^3 - 3 \times 3) + 3/3.$
$623 = 3 \times (3 + 3)^3 - 3^3 + 3 - 3/3.$
$624 = 3 \times ((3 + 3)^3 - 3 \times 3) + 3.$
$625 = (3 + 3 - 3/3)^{(3+3/3)}.$
$626 = (3 + 3 - 3/3)^{(3+3/3)} + 3/3.$
$627 = 3 \times 33 \times (3 + 3) + 33.$
$628 = (3 + 3 - 3/3)^{(3+3/3)} + 3.$
$629 = 3^{(3+3)} - 3 \times 33 - 3/3.$
$630 = 3^{(3+3)} - 3 \times 33.$
$631 = 3^{(3+3)} - 3 \times 33 + 3/3.$
$632 = 3^{(3+3)} - 3 \times 33 + 3 - 3/3.$
$633 = 3^{(3+3)} - 3 \times 33 + 3.$
$634 = 3 \times (3 + 3)^3 - 3 - 33/3.$
$635 = 3 \times ((3 + 3)^3 - 3) - 3 - 3/3.$
$636 = 3 \times ((3 + 3)^3 - 3) - 3.$
$637 = 3 \times (3 + 3)^3 - 33/3.$
$638 = 3 \times ((3 + 3)^3 - 3) - 3/3.$
$639 = 3 \times ((3 + 3)^3 - 3).$
$640 = 3 \times ((3 + 3)^3 - 3) + 3/3.$
$641 = 3 \times ((3 + 3)^3 - 3) + 3 - 3/3.$
$642 = 3 \times ((3 + 3)^3 - 3) + 3.$
$643 = 3 \times ((3 + 3)^3 - 3) + 3 + 3/3.$
$644 = 3 \times (3 + 3)^3 - 3 - 3/3.$
$645 = 3 \times (3 + 3)^3 - 3.$
$646 = 3 \times (3 + 3)^3 - 3 + 3/3.$
$647 = 3 \times (3 + 3)^3 - 3/3.$
$648 = 3 \times (3 + 3)^3.$
$649 = 3 \times (3 + 3)^3 + 3/3.$
$650 = 3 \times (3 + 3)^3 + 3 - 3/3.$
$651 = 3 \times (3 + 3)^3 + 3.$
$652 = 3 \times (3 + 3)^3 + 3 + 3/3.$
$653 = 3 \times (3 + 3)^3 + 3 + 3 - 3/3.$
$654 = 3 \times (3 + 3)^3 + 3 + 3.$
$655 = 3 \times ((3 + 3)^3 + 3) - 3 + 3/3.$
$656 = 3 \times ((3 + 3)^3 + 3) - 3/3.$
$657 = 3 \times ((3 + 3)^3 + 3).$
$658 = 3 \times ((3 + 3)^3 + 3) + 3/3.$
$659 = 3 \times (3 + 3)^3 + 33/3.$
$660 = 3 \times ((3 + 3)^3 + 3) + 3.$
$661 = 3 \times ((3 + 3)^3 + 3) + 3 + 3/3.$
$662 = 3 \times (3 + 3)^3 + 3 + 33/3.$
$663 = 3 \times ((3 + 3)^3 + 3) + 3 + 3.$
$664 = (3 - 3/3) \times (333 - 3/3).$
$665 = 3^{(3+3)} - (3 + 3/3)^3.$
$666 = 3 \times ((3 + 3)^3 + 3 + 3).$
$667 = ((3 + 3) \times 333 + 3)/3.$
$668 = 3^{(3+3)} - (3 + 3/3)^3 + 3.$
$669 = 333 + 333 + 3.$
$670 = 3 + ((3 + 3) \times 333 + 3)/3.$
$671 = 33 \times ((3/3 + 3)^3 - 3)/3.$
$672 = 3^3 + 3 \times (3 + 3)^3 - 3.$
$673 = (3^3 - 3/3)^{(3-3/3)} - 3.$
$674 = 3^3 + 3 \times (3 + 3)^3 - 3/3.$
$675 = 3^3 + 3 \times (3 + 3)^3.$
$676 = (3^3 - 3/3)^{(3-3/3)}.$
$677 = ((3 + 3) \times 333 + 33)/3.$
$678 = 3 \times (3 + 3)^3 + 3^3 + 3.$
$679 = 3 + (3^3 - 3/3)^{(3-3/3)}.$
$680 = 33 + 3 \times (3 + 3)^3 - 3/3.$
$681 = 33 + 3 \times (3 + 3)^3.$
$682 = 33 + 3 \times (3 + 3)^3 + 3/3.$
$683 = (33/3)^3 - 3 \times (3 + 3)^3.$
$684 = 3 \times (3 + 3)^3 + 33 + 3.$
$685 = 3^{(3+3)} - 33 - 33/3.$

$686 = (3 − 3/3) \times (3 + 3 + 3/3)^3.$
$687 = 3^{(3+3)} − 33 − 3 \times 3.$
$688 = 3^{(3+3)} + 3 − 33 − 33/3.$
$689 = (3 − 3/3) \times (3 + 3 + 3/3)^3 + 3.$
$690 = 3 \times ((3 + 3)^3 + 3) + 33.$
$691 = 3^{(3+3)} − 3^3 − 33/3.$
$692 = 3^{(3+3)} − 3 − 33 − 3/3.$
$693 = 33 \times (3 \times (3 + 3) + 3).$
$694 = 33 \times (3 \times (3 + 3) + 3) + 3/3.$
$695 = 3^{(3+3)} − 33 − 3/3.$
$696 = 3^{(3+3)} − 33.$
$697 = 3^{(3+3)} − 33 + 3/3.$
$698 = 3^{(3+3)} − 33 + 3 − 3/3.$
$699 = 3^{(3+3)} − 33 + 3.$
$700 = 3^{(3+3)} − 33 + 3 + 3/3.$
$701 = 3^{(3+3)} − 3^3 − 3/3.$
$702 = 3^{(3+3)} − 3^3.$
$703 = 3^{(3+3)} − 3^3 + 3/3.$
$704 = 33 \times (3 + 3/3)^3/3.$
$705 = 3^{(3+3)} − 3^3 + 3.$
$706 = 3^{(3+3)} − 3^3 + 3 + 3/3.$
$707 = 33 \times (3/3 + 3)^3/3 + 3.$
$708 = 3^{(3+3)} − 3^3 + 3 + 3.$
$709 = 3^{(3+3)} − 3 \times 3 − 33/3.$
$710 = 3^{(3+3)} − 3 \times (3 + 3) − 3/3.$
$711 = 3^{(3+3)} − 3 \times (3 + 3).$
$712 = 3^{(3+3)} − 3 \times (3 + 3) + 3/3.$
$713 = 3^{(3+3)} − 3^3 + 33/3.$
$714 = 3^{(3+3)} + 3 − 3 \times (3 + 3).$
$715 = 3^{(3+3)} − 3 − 33/3.$
$716 = 3^{(3+3)} − 3 − (33 − 3)/3.$
$717 = 3^{(3+3)} − 3 − 3 \times 3.$
$718 = 3^{(3+3)} − 33/3.$
$719 = 3^{(3+3)} − (33 − 3)/3.$
$720 = 3^{(3+3)} − 3 \times 3.$
$721 = 3^{(3+3)} + 3 − 33/3.$
$722 = 3^{(3+3)} − 3 − 3 − 3/3.$
$723 = 3^{(3+3)} − 3 − 3.$
$724 = 3^{(3+3)} − 3 − 3 + 3/3.$
$725 = 3^{(3+3)} − 3 − 3/3.$
$726 = 3^{(3+3)} − 3.$
$727 = 3^{(3+3)} − 3 + 3/3.$
$728 = 3^{(3+3)} − 3/3.$
$729 = 3^{(3+3)}.$
$730 = 3^{(3+3)} + 3/3.$
$731 = 3^{(3+3)} + 3 − 3/3.$
$732 = 3^{(3+3)} + 3.$
$733 = 3^{(3+3)} + 3 + 3/3.$
$734 = 3^{(3+3)} + 3 + 3 − 3/3.$
$735 = 3^{(3+3)} + 3 + 3.$
$736 = 3^{(3+3)} + 3 + 3 + 3/3.$
$737 = 3^{(3+3)} + 3 \times 3 − 3/3.$
$738 = 3^{(3+3)} + 3 \times 3.$
$739 = 3^{(3+3)} + 3 \times 3 + 3/3.$
$740 = 3^{(3+3)} + 33/3.$
$741 = 3^{(3+3)} + 3 \times 3 + 3.$
$742 = 3^{(3+3)} + 3 \times 3 + 3 + 3/3.$
$743 = 3^{(3+3)} + 3 + 33/3.$
$744 = 3^{(3+3)} + 3 \times 3 + 3 + 3.$
$745 = 3^{(3+3)} + 3^3 − 33/3.$
$746 = 3^{(3+3)} + 3 + 3 + 33/3.$
$747 = 3 \times ((3 + 3)^3 + 33).$
$748 = 3 \times ((3 + 3)^3 + 33) + 3/3.$
$749 = 3^{(3+3)} + 3 \times 3 + 33/3.$
$750 = 3^{(3+3)} + 3 \times (3 + 3) + 3.$
$751 = 3^{(3+3)} + 33 − 33/3.$

$752 = 3^{(3+3)} + 3^3 − 3 − 3/3.$
$753 = 3^{(3+3)} + 3^3 − 3.$
$754 = 3^{(3+3)} + 3^3 − 3 + 3/3.$
$755 = 3^{(3+3)} + 3^3 − 3/3.$
$756 = 3^{(3+3)} + 3^3.$
$757 = 3^{(3+3)} + 3^3 + 3/3.$
$758 = 3^{(3+3)} + 3^3 + 3 − 3/3.$
$759 = 3^{(3+3)} + 3^3 + 3.$
$760 = 3^{(3+3)} + 3^3 + 3 + 3/3.$
$761 = 3^{(3+3)} + 33 − 3/3.$
$762 = 3^{(3+3)} + 33.$
$763 = 3^{(3+3)} + 33 + 3/3.$
$764 = 3^{(3+3)} + 33 + 3 − 3/3.$
$765 = 3^{(3+3)} + 33 + 3.$
$766 = 3^{(3+3)} + 33 + 3 + 3/3.$
$767 = 3^{(3+3)} + 3^3 + 33/3.$
$768 = 3^{(3+3)} + 33 + 3 + 3.$
$769 = 3^{(3+3)} + 33 + 3 + 3 + 3/3.$
$770 = 3^{(3+3)} + 3^3 + 3 + 33/3.$
$771 = 3^{(3+3)} + 3 \times 3 + 33.$
$772 = 3^{(3+3)} + 3 \times 3 + 33 + 3/3.$
$773 = 3^{(3+3)} + 33 + 33/3.$
$774 = 3^{(3+3)} + 3 \times 3 + 33 + 3.$
$775 = 3333/3 − 333 − 3.$
$776 = 3^{(3+3)} + 33 + 3 + 33/3.$
$777 = 3^3 \times (3^3 + 3) − 33.$
$778 = 3333/3 − 333.$
$779 = 33 \times 3^3 − (333 + 3)/3.$
$780 = (3^3 + 3) \times (3^3 − 3/3).$
$781 = 33 \times ((3 + 3)^3 − 3)/(3 \times 3).$
$782 = 3^{(3+3)} + 3^3 + 3^3 − 3/3.$
$783 = 3 \times 3 \times (3 \times 3^3 + 3 + 3).$
$784 = (3^3 + 3/3)^{(3−3/3)}.$
$785 = 33 \times (3^3 − 3) − 3 − 3 − 3/3.$
$786 = 33 \times (3^3 − 3) − 3 − 3.$
$787 = (3^3 + 3/3)^{(3−3/3)} + 3.$
$788 = 33 \times (3^3 − 3) − 3 − 3/3.$
$789 = 33 \times (3^3 − 3) − 3.$
$790 = 33 \times (3^3 − 3) − 3 + 3/3.$
$791 = 33 \times (3^3 − 3) − 3/3.$
$792 = 33 \times (3^3 − 3).$
$793 = 33 \times (3^3 − 3) + 3/3.$
$794 = 33 \times (3^3 − 3) + 3 − 3/3.$
$795 = 33 \times (3^3 − 3) + 3.$
$796 = 3 + 33 \times (3^3 − 3) + 3/3.$
$797 = 33 \times (3^3 − 3) + 3 + 3 − 3/3.$
$798 = 33 \times (3^3 − 3) + 3 + 3.$
$799 = 3^3 \times (3^3 + 3) − 33/3.$
$800 = 3^{(3+3)} + ((3 + 3)^3 − 3)/3.$
$801 = 3 \times (3 \times 3 \times (3^3 + 3) − 3).$
$802 = 3^{(3+3)} + ((3 + 3)^3 + 3)/3.$
$803 = 33 \times (3^3 − 3) + 33/3.$
$804 = 3^3 \times (3^3 + 3) − 3 − 3.$
$805 = 3^{(3+3)} + 3 + ((3 + 3)^3 + 3)/3.$
$806 = 3^3 \times (3^3 + 3) − 3 − 3/3.$
$807 = 3^3 \times (3^3 + 3) − 3.$
$808 = 3^3 \times (3^3 + 3) − 3 + 3/3.$
$809 = 3^3 \times (3^3 + 3) − 3/3.$
$810 = 3^3 \times (3^3 + 3).$
$811 = 3^3 \times (3^3 + 3) + 3/3.$
$812 = 3^3 \times (3^3 + 3) + 3 − 3/3.$
$813 = 3^3 \times (3^3 + 3) + 3.$
$814 = 3^3 \times (3^3 + 3) + 3 + 3/3.$
$815 = 3^3 \times (3^3 + 3) + 3 + 3 − 3/3.$
$816 = 3^3 \times (3^3 + 3) + 3 + 3.$
$817 = 3^3 \times (3^3 + 3) + 3 + 3 + 3/3.$

$818 = 3^3 + 33 \times (3^3 − 3) − 3/3.$
$819 = 3^3 + 33 \times (3^3 − 3).$
$820 = 3^3 + 33 \times (3^3 − 3) + 3/3.$
$821 = 3^3 \times (3^3 + 3) + 33/3.$
$822 = 3^3 + 33 \times (3^3 − 3) + 3.$
$823 = 3^3 + 33 \times (3^3 − 3) + 3 + 3/3.$
$824 = 3^3 \times (3^3 + 3) + 3 + 33/3.$
$825 = 33 + 33 \times (3^3 − 3).$
$826 = 33 + 33 \times (3^3 − 3) + 3/3.$
$827 = 3 \times 33 + 3^{(3+3)} − 3/3.$
$828 = 3 \times 33 + 3^{(3+3)}.$
$829 = 3 \times 33 + 3^{(3+3)} + 3/3.$
$830 = 3 \times 33 + 3^{(3+3)} + 3 − 3/3.$
$831 = 3 \times 33 + 3^{(3+3)} + 3.$
$832 = (3^3 − 3/3) \times (33 − 3/3).$
$833 = (3333 − 3/3)/(3 + 3/3).$
$834 = 3 \times 33 + 3^{(3+3)} + 3 + 3.$
$835 = (3^3 − 3/3) \times (33 − 3/3) + 3.$
$836 = 3^3 + 3^3 \times (3^3 + 3) − 3/3.$
$837 = 3^3 + 3^3 \times (3^3 + 3).$
$838 = 3^3 + 3^3 \times (3^3 + 3) + 3/3.$
$839 = 3^{(3+3)} + (333 − 3)/3.$
$840 = 3^{(3+3)} + 333/3.$
$841 = 3^{(3+3)} + (333 + 3)/3.$
$842 = 3^{(3+3)} + 3 + (333 − 3)/3.$
$843 = 3^3 \times (3^3 + 3) + 33.$
$844 = 3^{(3+3)} + 3 + (333 + 3)/3.$
$845 = (3 − 3/3)^{(3 \times 3)} + 333.$
$846 = 3^3 \times (3^3 + 3) + 33 + 3.$
$847 = 33 \times (3 \times 3^3 − 3 − 3/3)/3.$
$848 = (3 − 3/3)^{(3 \times 3)} + 3 + 333.$
$849 = 33 \times 3^3 − 3 \times 3 − 33.$
$850 = 3^{(3+3)} + (33/3)^{(3−3/3)}.$
$851 = 3^{(3+3)} + (3^{(3+3)} + 3)/(3 + 3).$
$852 = (3 + 3/3) \times ((3 + 3)^3 − 3).$
$853 = (3 + 3/3) \times ((3 + 3)^3 − 3) + 3/3.$
$854 = 3^{(3+3)} + (3 + 3 − 3/3)^3.$
$855 = 3 \times (3 \times (3 \times 33 − 3) − 3).$
$856 = 3 \times 3^{(3+3)} − (33/3)^3.$
$857 = 33 \times 3^3 − 33 − 3/3.$
$858 = 33 \times (3^3 − 3/3).$
$859 = 33 \times (3^3 − 3/3) + 3/3.$
$860 = (3 + 3/3) \times ((3 + 3)^3 − 3/3).$
$861 = 33 \times (3^3 − 3/3) + 3.$
$862 = 33 \times (3^3 − 3/3) + 3 + 3/3.$
$863 = 33 \times 3^3 − 3^3 − 3/3.$
$864 = 3 \times 3 \times (3 \times 33 − 3).$
$865 = 3 \times 3 \times (3 \times 33 − 3) + 3/3.$
$866 = 33 \times 3^3 − 3^3 + 3 − 3/3.$
$867 = 33 \times 3^3 − 3^3 + 3.$
$868 = (3 + 3/3) \times ((3 + 3)^3 + 3/3).$
$869 = 33 \times (3^3 − 3/3) + 33/3.$
$870 = 3 \times 3 \times (3 \times 33 − 3) + 3 + 3.$
$871 = (3 + 3/3) \times ((3 + 3)^3 + 3/3) + 3.$
$872 = (3 + 3/3) \times ((3 + 3)^3 + 3 − 3/3).$
$873 = 3 \times (3 \times (3 \times 33 − 3) + 3).$
$874 = 3 \times (3 \times (3 \times 33 − 3) + 3) + 3/3.$
$875 = 3 \times 3 \times (3 \times 33 − 3) + 33/3.$
$876 = (3 + 3/3) \times ((3 + 3)^3 + 3).$
$877 = 33 \times 3^3 − 3 − 33/3.$
$878 = 33 \times 3^3 − 3 − (33 − 3)/3.$
$879 = 33 \times 3^3 − 3 \times 3 − 3.$
$880 = 33 \times 3^3 − 33/3.$
$881 = 33 \times 3^3 − (33 − 3)/3.$
$882 = 3 \times (3 \times 3 \times 33 − 3).$
$883 = 33 \times 3^3 + 3 − 33/3.$

$884 = (3^3 - 3/3) \times (33 + 3/3).$

$885 = 33 \times 3^3 - 3 - 3.$

$886 = 33 \times 3^3 - 3 - 3 + 3/3.$

$887 = 33 \times 3^3 - 3 - 3/3.$

$888 = 33 \times 3^3 - 3.$

$889 = 33 \times 3^3 - 3 + 3/3.$

$890 = 33 \times 3^3 - 3/3.$

$891 = 33 \times 3^3.$

$892 = 33 \times 3^3 + 3/3.$

$893 = 33 \times 3^3 + 3 - 3/3.$

$894 = 33 \times 3^3 + 3.$

$895 = 33 \times 3^3 + 3 + 3/3.$

$896 = 33 \times 3^3 + 3 + 3 - 3/3.$

$897 = 33 \times 3^3 + 3 + 3.$

$898 = 33 \times 3^3 + 3 + 3 + 3/3.$

$899 = 3 \times 3 + 33 \times 3^3 - 3/3.$

$900 = 3 \times 3 + 33 \times 3^3.$

$901 = 33 \times 3^3 + 3 \times 3 + 3/3.$

$902 = 33 \times 3^3 + 33/3.$

$903 = 33 \times 3^3 + 3 \times 3 + 3.$

$904 = 33 \times 3^3 + 3 \times 3 + 3 + 3/3.$

$905 = 33 \times 3^3 + 3 + 33/3.$

$906 = 33 \times 3^3 + 3 \times 3 + 3 + 3.$

$907 = 33 \times 3^3 + 3^3 - 33/3.$

$908 = 33 \times 3^3 + 3 + 3 + 33/3.$

$909 = 3 \times (3 \times 3 \times 33 + 3 + 3).$

$910 = 33 \times 3^3 + 3 \times (3 + 3) + 3/3.$

$911 = 33 \times 3^3 + 3 \times 3 + 33/3.$

$912 = 3 \times (3 \times 3 \times 33 + 3 + 3) + 3.$

$913 = 33 \times 3^3 + 33 - 33/3.$

$914 = 33 \times 3^3 + 3^3 - 3 - 3/3.$

$915 = 33 \times 3^3 + 3^3 - 3.$

$916 = 33 \times 3^3 + 3^3 - 3 + 3/3.$

$917 = 33 \times 3^3 + 3^3 - 3/3.$

$918 = 3 \times 3 \times (3 \times 33 + 3).$

$919 = 33 \times 3^3 + 3^3 + 3/3.$

$920 = 33 \times 3^3 + 3^3 + 3 - 3/3.$

$921 = 33 \times 3^3 + 3^3 + 3.$

$922 = 33 \times 3^3 + 3^3 + 3 + 3/3.$

$923 = 33 + 33 \times 3^3 - 3/3.$

$924 = 33 + 33 \times 3^3.$

$925 = 33 + 33 \times 3^3 + 3/3.$

$926 = 33 + 33 \times 3^3 + 3 - 3/3.$

$927 = 33 + 33 \times 3^3 + 3.$

$928 = 33 + 33 \times 3^3 + 3 + 3/3.$

$929 = 33 \times 3^3 + 3^3 + 33/3.$

$930 = 33 + 33 \times 3^3 + 3 + 3.$

$931 = 33 + 33 \times 3^3 + 3 + 3 + 3/3.$

$932 = 3 \times 333 - 3 - (3 + 3/3)^3.$

$933 = 33 \times 3^3 + 33 + 3 \times 3.$

$934 = 3^{(3+3)} + (3 + 3)^3 - 33/3.$

$935 = 3 \times 333 - (3 + 3/3)^3.$

$936 = (3 \times 3 + 3) \times (3 \times 3^3 - 3).$

$937 = (3 \times 3 + 3) \times (3 \times 3^3 - 3) + 3/3.$

$938 = 3 \times 333 + 3 - (3 + 3/3)^3.$

$939 = 3^3 \times (33 + 3) - 33.$

$940 = 3^3 \times (33 + 3) - 33 + 3/3.$

$941 = 3^{(3+3)} + (3 + 3)^3 - 3 - 3/3.$

$942 = 3^{(3+3)} + (3 + 3)^3 - 3.$

$943 = 3^{(3+3)} + (3 + 3)^3 - 3 + 3/3.$

$944 = 3^{(3+3)} + (3 + 3)^3 - 3/3.$

$945 = 3^{(3+3)} + (3 + 3)^3.$

$946 = 3^{(3+3)} + (3 + 3)^3 + 3/3.$

$947 = 3^{(3+3)} + (3 + 3)^3 + 3 - 3/3.$

$948 = 3^{(3+3)} + (3 + 3)^3 + 3.$

$949 = 3^{(3+3)} + (3 + 3)^3 + 3 + 3/3.$

$950 = 3^{(3+3)} + (3 + 3)^3 + 3 + 3 - 3/3.$

$951 = 3^{(3+3)} + (3 + 3)^3 + 3 + 3.$

$952 = (3^3 + 3/3) \times (33 + 3/3).$

$953 = (3+3) \times ((3+3) \times 3^3 - 3) - 3/3.$

$954 = (3 + 3) \times ((3 + 3) \times 3^3 - 3).$

$955 = 33 \times 3^3 + (3 + 3/3)^3.$

$956 = 3^{(3+3)} + (3 + 3)^3 + 33/3.$

$957 = 33 \times (3^3 + 3 - 3/3).$

$958 = 3 + 33 \times 3^3 + (3 + 3/3)^3.$

$959 = (3 + 3^3) \times (33 - 3/3) - 3/3.$

$960 = (3 + 3^3) \times (33 - 3/3).$

$961 = (3^3 + 3 + 3/3)^{(3-3/3)}.$

$962 = 33 \times 3^3 + ((3 + 3)^3 - 3)/3.$

$963 = 3 \times (333 - 3 \times 3 - 3).$

$964 = (3 \times 3 + 3/3)^3 - 33 - 3.$

$965 = 3 \times 333 - 33 - 3/3.$

$966 = 3 \times 333 - 33.$

$967 = (3 \times 3 + 3/3)^3 - 33.$

$968 = (3 + 3/3) \times (3^{(3+3)} - 3)/3.$

$969 = 3^3 \times (33 + 3) - 3.$

$970 = 3^3 \times (33 + 3) - 3 + 3/3.$

$971 = 3^3 \times (33 + 3) - 3/3.$

$972 = 3^3 \times (33 + 3).$

$973 = 3^3 \times (33 + 3) + 3/3.$

$974 = 3^3 \times (33 + 3) + 3 - 3/3.$

$975 = 3^3 \times (33 + 3) + 3.$

$976 = 3^3 \times (33 + 3) + 3 + 3/3.$

$977 = 3^3 \times (33 + 3) + 3 + 3 - 3/3.$

$978 = 3^3 \times (33 + 3) + 3 + 3.$

$979 = 3 \times (333 - 3) - 33/3.$

$980 = 3 \times (333 - 3 - 3) - 3/3.$

$981 = 3 \times (333 - 3 - 3).$

$982 = 3 \times (333 - 3 - 3) + 3/3.$

$983 = 3^3 \times (33 + 3) + 33/3.$

$984 = 3 \times (333 - 3 - 3) + 3.$

$985 = 3 \times 333 - 3 - 33/3.$

$986 = 3 \times (333 - 3) - 3 - 3/3.$

$987 = 3 \times (333 - 3) - 3.$

$988 = 3 \times 333 - 33/3.$

$989 = 3 \times (333 - 3) - 3/3.$

$990 = 3 \times (333 - 3).$

$991 = 3 \times (333 - 3) + 3/3.$

$992 = 3 \times (333 - 3) + 3 - 3/3.$

$993 = 3 \times (333 - 3) + 3.$

$994 = (3 \times 3 + 3/3)^3 - 3 - 3.$

$995 = 3 \times 333 - 3 - 3/3.$

$996 = 3 \times 333 - 3.$

$997 = (3 \times 3 + 3/3)^3 - 3.$

$998 = 3 \times 333 - 3/3.$

$999 = 3 \times 333.$

$1000 = (3 \times 3 + 3/3)^3.$

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

$101 = 5 \times (5 \times 5 - 5) + 5/5.$
$102 = 5 \times (5 \times 5 - 5) + (5 + 5)/5.$
$103 = 5 \times (5 \times 5 - 5) + 5 - (5 + 5)/5.$
$104 = (5^5 - 5)/(5 \times 5 + 5).$
$105 = 5 \times (5 \times 5 - 5) + 5.$
$106 = 555/5 - 5.$
$107 = (555 + 5)/5 - 5.$
$108 = 55 + 55 - (5 + 5)/5.$
$109 = 55 + 55 - 5/5.$
$110 = 55 + 55.$
$111 = 555/5.$
$112 = (555 + 5)/5.$
$113 = (555 + 5 + 5)/5.$
$114 = 5 \times 5 \times 5 - 55/5.$
$115 = 55 + 55 + 5.$
$116 = 5 + 555/5.$
$117 = 5 + (555 + 5)/5.$
$118 = 5 + (555 + 5 + 5)/5.$
$119 = 5 \times 5 \times 5 - 5 - 5/5.$
$120 = 5 \times 5 \times 5 - 5.$
$121 = 5 + 5 + 555/5.$
$122 = (555 + 55)/5.$
$123 = 5 \times 5 \times 5 - (5 + 5)/5.$
$124 = 5 \times 5 \times 5 - 5/5.$
$125 = 5 \times 5 \times 5.$
$126 = 5 \times 5 \times 5 + 5/5.$
$127 = 5 \times 5 \times 5 + (5 + 5)/5.$
$128 = 5 \times 5 \times 5 + 5 - (5 + 5)/5.$
$129 = 5 \times 5 \times 5 + 5 - 5/5.$
$130 = 5 \times 5 \times 5 + 5.$
$131 = 5 \times 5 \times 5 + 5 + 5/5.$
$132 = 5 \times 5 \times 5 + 5 + (5 + 5)/5.$
$133 = 5 \times 5 \times 5 + 5 + 5 - (5 + 5)/5.$
$134 = 5 \times 5 \times 5 + 5 + 5 - 5/5.$
$135 = 5 \times 5 \times 5 + 5 + 5.$
$136 = 5 \times 5 + 555/5.$
$137 = 5 \times 5 + (555 + 5)/5.$
$138 = 5 \times (5 \times 55 + 5)/(5 + 5).$
$139 = 5 \times (5 \times 5 + 5) - 55/5.$
$140 = 5 \times 5 \times 5 + 5 + 5 + 5.$
$141 = 5 \times 5 + 5 + 555/5.$
$142 = 5 \times 5 + 5 + (555 + 5)/5.$
$143 = 5 + (5 \times 5 \times 55 + 5)/(5 + 5).$
$144 = (5 + 5/5) \times (5 \times 5 - 5/5).$
$145 = 5 \times (5 \times 5 + 5) - 5.$
$146 = 5 \times (5 \times 5 + 5) - 5 + 5/5.$
$147 = 5 \times 5 + (555 + 55)/5.$
$148 = 5 \times (5 \times 5 + 5) - (5 + 5)/5.$

$149 = 5 \times (5 \times 5 + 5) - 5/5.$
$150 = 5 \times (5 \times 5 + 5).$
$151 = 5 \times (5 \times 5 + 5) + 5/5.$
$152 = 5 \times (5 \times 5 + 5) + (5 + 5)/5.$
$153 = 5 \times (5 \times 5 + 5) + 5 - (5 + 5)/5.$
$154 = 5 \times (5 \times 5 + 5) + 5 - 5/5.$
$155 = 5 \times (5 \times 5 + 5) + 5.$
$156 = (5^5 - 5)/(5 \times 5 - 5).$
$157 = 5 \times 5 \times 5 + ((5 + 5)/5)^5.$
$158 = 5 \times ((5 + 5)/5)^5 - (5 + 5)/5.$
$159 = (55 + 5^5)/(5 \times 5 - 5).$
$160 = 5 \times ((5 + 5)/5)^5.$
$161 = 5 + (5^5 - 5)/(5 \times 5 - 5).$
$162 = 5 \times 5 \times 5 + 5 + ((5 + 5)/5)^5.$
$163 = 55 \times 5 - (555 + 5)/5.$
$164 = 55 \times 5 - 555/5.$
$165 = 5 + 5 \times ((5 + 5)/5)^5.$
$166 = 55 + 555/5.$
$167 = 55 + (555 + 5)/5.$
$168 = 55 + (555 + 5 + 5)/5.$
$169 = 55 \times 5 + 5 - 555/5.$
$170 = 5 \times (5 \times 5 + 5 + 5) - 5.$
$171 = 55 + 5 + 555/5.$
$172 = 55 + 5 + (555 + 5)/5.$
$173 = 5 \times (5 \times 5 + 5 + 5) - (5 + 5)/5.$
$174 = 5 \times (5 \times 5 + 5 + 5) - 5/5.$
$175 = 5 \times (5 \times 5 + 5 + 5).$
$176 = 5 \times (5 \times 5 + 5 + 5) + 5/5.$
$177 = 55 + (555 + 55)/5.$
$178 = 55 + 5 \times 5 \times 5 - (5 + 5)/5.$
$179 = 55 + 5 \times 5 \times 5 - 5/5.$
$180 = 55 + 5 \times 5 \times 5.$
$181 = 55 + 5 \times 5 \times 5 + 5/5.$
$182 = 55 + 5 \times 5 \times 5 + (5 + 5)/5.$
$183 = (5 - (5 + 5)/5)^5 - 55 - 5.$
$184 = 5 \times 5 \times 5 + 55 + 5 - 5/5.$
$185 = 5 \times 5 \times 5 + 55 + 5.$
$186 = 5 \times 5 \times 5 + 55 + 5 + 5/5.$
$187 = 55 \times (5 + (55 + 5)/5)/5.$
$188 = (5 - (5 + 5)/5)^5 - 55.$
$189 = 5 \times (55 + 5) - 555/5.$
$190 = 5 \times 5 \times 5 + 55 + 5 + 5.$
$191 = 5 \times 5 + 55 + 555/5.$
$192 = (5 + 5/5) \times ((5 + 5)/5)^5.$
$193 = (5 - (5 + 5)/5)^5 - 55 + 5.$
$194 = 5 \times 5 \times (5 + 5) - 55 - 5/5.$
$195 = 5 \times 5 \times (5 + 5) - 55.$
$196 = 5 \times 5 \times (5 + 5) - 55 + 5/5.$

$197 = 5 + (5 + 5/5) \times ((5 + 5)/5)^5.$
$198 = (5 + 5) \times (5 \times 5 - 5) - (5 + 5)/5.$
$199 = (5 + 5) \times (5 \times 5 - 5) - 5/5.$
$200 = (5 + 5) \times (5 \times 5 - 5).$
$201 = (5 + 5) \times (5 \times 5 - 5) + 5/5.$
$202 = (5 + 5) \times (5 \times 5 - 5) + (5 + 5)/5.$
$203 = (5^5 - 5)/(5 + 5 + 5) - 5.$
$204 = (5 + 5) \times (5 \times 5 - 5) + 5 - 5/5.$
$205 = (5 + 5) \times (5 \times 5 - 5) + 5.$
$206 = (5 + 5) \times (5 \times 5 - 5) + 5 + 5/5.$
$207 = (5^5 - 5 \times 5 + 5)/(5 + 5 + 5).$
$208 = (5^5 - 5)/(5 + 5 + 5).$
$209 = (5^5 + 5 + 5)/(5 + 5 + 5).$
$210 = (5 + 5) \times (5 \times 5 - 5) + 5 + 5.$
$211 = 55 + (5^5 - 5)/(5 \times 5 - 5).$
$212 = (55 + 5^5)/(5 + 5 + 5).$
$213 = (5^5 - 5)/(5 + 5 + 5) + 5.$
$214 = (5^5 + 5 + 5)/(5 + 5 + 5) + 5.$
$215 = 55 \times 5 - 55 - 5.$
$216 = (5 - 5/5) \times (55 - 5/5).$
$217 = (55 + 5^5)/(5 + 5 + 5) + 5.$
$218 = (5 - (5 + 5)/5)^5 - 5 \times 5.$
$219 = 55 \times 5 - 55 - 5/5.$
$220 = 55 \times (5 - 5/5).$
$221 = 55 \times (5 - 5/5) + 5/5.$
$222 = 555 \times (5 + 5)/(5 \times 5).$
$223 = (5 - (5 + 5)/5)^5 - 5 \times 5 + 5.$
$224 = (5 - 5/5) \times (55 + 5/5).$
$225 = 5 \times (55 - 5 - 5).$
$226 = 5 \times (55 - 5 - 5) + 5/5.$
$227 = (5 + 5) \times 555/(5 \times 5) + 5.$
$228 = (5 - 5/5) \times (55 + (5 + 5)/5).$
$229 = (5 - 5/5) \times (55 + 5/5) + 5.$
$230 = 5 \times (55 - 5 - 5) + 5.$
$231 = 5 \times (55 - 5 - 5) + 5 + 5/5.$
$232 = (5 + 5) \times (5 + 555/5)/5.$
$233 = (5 - (5 + 5)/5)^5 - 5 - 5.$
$234 = (5 + 5 - 5/5) \times (5 \times 5 + 5/5).$
$235 = 5 \times (55 - 5 - 5) + 5 + 5.$
$236 = 5 \times 5 \times 5 + 555/5.$
$237 = 5 \times 5 \times 5 + (555 + 5)/5.$
$238 = (5 - (5 + 5)/5)^5 - 5.$
$239 = 5 \times 5 \times (5 + 5) - 55/5.$
$240 = (5 + 5) \times (5 \times 5 - 5/5).$
$241 = 5 \times 5 \times 5 + 5 + 555/5.$
$242 = (5 - (5 + 5)/5)^5 - 5/5.$
$243 = (5 - (5 + 5)/5)^5.$
$244 = (5 - (5 + 5)/5)^5 + 5/5.$

$245 = 5 \times 5 \times (5 + 5) - 5.$

$246 = 5 \times 5 \times (5 + 5) - 5 + 5/5.$

$247 = 5 + (5 - (5 + 5)/5)^5 - 5/5.$

$248 = 5 + (5 - (5 + 5)/5)^5.$

$249 = 5 \times 5 \times (5 + 5) - 5/5.$

$250 = 5 \times 5 \times (5 + 5).$

$251 = 5 \times 5 \times (5 + 5) + 5/5.$

$252 = 5 \times 5 \times (5 + 5) + (5 + 5)/5.$

$253 = (5 - (5 + 5)/5)^5 + 5 + 5.$

$254 = 5 \times 5 \times (5 + 5) + 5 - 5/5.$

$255 = 5 \times 5 \times (5 + 5) + 5.$

$256 = (5 - 5/5)^{(5 - 5/5)}.$

$257 = (5^5 - 5)/(5 + 5) - 55.$

$258 = (5^5 + 5)/(5 + 5) - 55.$

$259 = 5 \times 55 - 5 - 55/5.$

$260 = 5 \times 5 \times (5 + 5) + 5 + 5.$

$261 = (5 - 5/5)^{(5 - 5/5)} + 5.$

$262 = (5^5 - 5)/(5 + 5) + 5 - 55.$

$263 = 5 \times 55 - (55 + 5)/5.$

$264 = 5 \times 55 - 55/5.$

$265 = 5 \times 55 - 5 - 5.$

$266 = 5 \times 55 - 5 - 5 + 5/5.$

$267 = 5 \times 55 - 5 - 5 + (5 + 5)/5.$

$268 = 5 \times 5 + (5 - (5 + 5)/5)^5.$

$269 = 5 \times 55 - 5 - 5/5.$

$270 = 5 \times 55 - 5.$

$271 = 5 \times 55 - 5 + 5/5.$

$272 = 5 \times 55 - 5 + (5 + 5)/5.$

$273 = 5 \times 55 - ((5 + 5)/5).$

$274 = 5 \times 55 - 5/5.$

$275 = 5 \times 55.$

$276 = 5 \times 55 + 5/5.$

$277 = 5 \times 55 + (5 + 5)/5.$

$278 = 5 \times 55 + 5 - (5 + 5)/5.$

$279 = 5 \times 55 + 5 - 5/5.$

$280 = 5 \times 55 + 5.$

$281 = 5 \times 55 + 5 + 5/5.$

$282 = 5 \times 55 + 5 + (5 + 5)/5.$

$283 = 5 \times 55 + 5 + 5 - (5 + 5)/5.$

$284 = 5 \times 55 + 5 + 5 - 5/5.$

$285 = 5 \times 55 + 5 + 5.$

$286 = 5 \times 55 + 55/5.$

$287 = 5 \times 55 + (55 + 5)/5.$

$288 = (5^5 + 5)/(5 + 5) - 5 \times 5.$

$289 = 5 \times (55 + 5) - 55/5.$

$290 = 5 \times 55 + 5 + 5 + 5.$

$291 = 5 \times 55 + 5 + 55/5.$

$292 = 5 \times 55 + 5 + (55 + 5)/5.$

$293 = (5^5 + 5)/(5 + 5) + 5 - 5 \times 5.$

$294 = 5 \times (55 + 5) - 5 - 5/5.$

$295 = 5 \times (55 + 5) - 5.$

$296 = 5 \times (55 + 5) - 5 + 5/5.$

$297 = 5 \times 55 + (55 + 55)/5.$

$298 = 55 + (5 - (5 + 5)/5)^5.$

$299 = 5 \times (55 + 5) - 5/5.$

$300 = 5 \times (55 + 5).$

$301 = 5 \times (55 + 5) + 5/5.$

$302 = 5 \times (55 + 5) + (5 + 5)/5.$

$303 = (5^5 + 5)/(5 + 5) - 5 - 5.$

$304 = 5 \times (55 + 5) + 5 - 5/5.$

$305 = 5 \times (55 + 5) + 5.$

$306 = 5 \times (55 + 5) + 5 + 5/5.$

$307 = (5^5 - 55)/(5 + 5).$

$308 = (5^5 + 5)/(5 + 5) - 5.$

$309 = 5 \times (55 + 5) + 5 + 5 - 5/5.$

$310 = 5 \times (55 + 5) + 5 + 5.$

$311 = 5 \times (55 + 5) + 55/5.$

$312 = (5^5 - 5)/(5 + 5).$

$313 = (5^5 + 5)/(5 + 5).$

$314 = (5^5 + 5)/(5 + 5) + 5/5.$

$315 = (5 \times 5 + 5^5)/(5 + 5).$

$316 = 5 \times (55 + 5) + 5 + 55/5.$

$317 = (5^5 - 5)/(5 + 5) + 5.$

$318 = (5^5 + 5)/(5 + 5) + 5.$

$319 = (5^5 + 5)/(5 + 5) + 5 + 5/5.$

$320 = (5 + 5) \times ((5 + 5)/5)^5.$

$321 = (5 + 5) \times ((5 + 5)/5)^5 + 5/5.$

$322 = (5^5 - 5)/(5 + 5) + 5 + 5.$

$323 = (5^5 + 5)/(5 + 5) + 5 + 5.$

$324 = (5 + 5/5) \times (55 - 5/5).$

$325 = 5 \times (55 + 5 + 5).$

$326 = 5 \times (55 + 5 + 5) + 5/5.$

$327 = 5 + 5 + 5 + (5^5 - 5)/(5 + 5).$

$328 = 5 + 5 + 5 + (5^5 + 5)/(5 + 5).$

$329 = 55 + 5 \times 55 - 5/5.$

$330 = 55 + 5 \times 55.$

$331 = 55 + 5 \times 55 + 5/5.$

$332 = 5 \times 5 + (5^5 - 55)/(5 + 5).$

$333 = 5 \times 5 - 5 + (5^5 + 5)/(5 + 5).$

$334 = 5 \times 55 + 55 + 5 - 5/5.$

$335 = 5 \times 55 + 55 + 5.$

$336 = (5 + 5/5) \times (55 + 5/5).$

$337 = 5 \times 5 + (5^5 - 5)/(5 + 5).$

$338 = 5 \times 5 + (5^5 + 5)/(5 + 5).$

$339 = (5^5 - 55)/5 - 5 \times 55.$

$340 = 5 \times 55 + 55 + 5 + 5.$

$341 = 5 + (5 + 5/5) \times (55 + 5/5).$

$342 = 5 \times 5 + 5 + (5^5 - 5)/(5 + 5).$

$343 = 5 \times 5 + 5 + (5^5 + 5)/(5 + 5).$

$344 = (5^5 - 5)/5 - 5 \times 55 - 5.$

$345 = 5^5 - 5 \times 555 - 5.$

$346 = (5^5 + 5)/5 - 5 \times 55 - 5.$

$347 = 55 \times ((5 + 5)/5)^5/5 - 5.$

$348 = (5^5 - 5 - 5)/5 - 5 \times 55.$

$349 = (5^5 - 5)/5 - 5 \times 55.$

$350 = 5 \times (55 + 5 + 5 + 5).$

$351 = (5^5 + 5)/5 - 5 \times 55.$

$352 = 55 \times ((5 + 5)/5)^5/5.$

$353 = (55 \times ((5 + 5)/5)^5 + 5)/5.$

$354 = (5^5 - 5)/5 + 5 - 5 \times 55.$

$355 = 55 + 5 \times (55 + 5).$

$356 = (5^5 + 5)/5 + 5 - 5 \times 55.$

$357 = 55 \times ((5 + 5)/5)^5/5 + 5.$

$358 = (55 \times ((5 + 5)/5)^5 + 5)/5 + 5.$

$359 = (5 + 5/5) \times (55 + 5) - 5/5.$

$360 = (5 + 5/5) \times (55 + 5).$

$361 = (5 + 5/5) \times (55 + 5) + 5/5.$

$362 = 55 + (5^5 - 55)/(5 + 5).$

$363 = 55 - 5 + (5^5 + 5)/(5 + 5).$

$364 = 5 \times 5 \times (5 + 5 + 5) - 55/5.$

$365 = (5 + 5/5) \times (55 + 5) + 5.$

$366 = (5 + 5/5) \times (55 + 5 + 5/5).$

$367 = 55 + (5^5 - 5)/(5 + 5).$

$368 = 55 + (5^5 + 5)/(5 + 5).$

$369 = 5 \times 5 \times (5 + 5 + 5) - 5 - 5/5.$

$370 = 5 \times 5 \times (5 + 5 + 5) - 5.$

$371 = 5 \times 5 \times (5 + 5 + 5) - 5 + 5/5.$

$372 = 55 + 5 + (5^5 - 5)/(5 + 5).$

$373 = 55 + 5 + (5^5 + 5)/(5 + 5).$

$374 = 5 \times 5 \times (5 + 5 + 5) - 5/5.$

$375 = 5 \times 5 \times (5 + 5 + 5).$

$376 = 5 \times 5 \times (5 + 5 + 5) + 5/5.$

$377 = 5 \times 5 \times (5 + 5 + 5) + (5 + 5)/5.$

$378 = (5 + (5 + 5)/5) \times (55 - 5/5).$

$379 = 5 \times 5 \times (5 + 5 + 5) + 5 - 5/5.$

$380 = 5 \times 5 \times (5 + 5 + 5) + 5.$

$381 = 5 \times 5 \times (5 + 5 + 5) + 5 + 5/5.$

$382 = 5^5/5 - (5 - (5 + 5)/5)^5.$

$383 = (5 + (5 + 5)/5) \times (55 - 5/5) + 5.$

$384 = (55 + 5) \times ((5 + 5)/5)^5/5.$

$385 = 55 \times (5 + (5 + 5)/5).$

$386 = 5 \times 55 + 555/5.$

$387 = 5 \times 55 + (555 + 5)/5.$

$388 = 5 \times 55 + (555 + 5 + 5)/5.$

$389 = 5 \times (5 \times 5 + 55) - 55/5.$

$390 = 55 \times (5 + (5 + 5)/5) + 5.$

$391 = 5 \times 55 + 5 + 555/5.$

$392 = (5 + (5 + 5)/5) \times (55 + 5/5).$

$393 = 5 \times 5 + 55 + (5^5 + 5)/(5 + 5).$

$394 = (5 - 5/5)^5 - 5^5/5 - 5.$

$395 = 5 \times (5 \times 5 + 55) - 5.$

$396 = 5 \times (5 \times 5 + 55) - 5 + 5/5.$

$397 = (5 + (5 + 5)/5) \times (55 + 5/5) + 5.$

$398 = (5 - 5/5)^5 - (5^5 + 5)/5.$

$399 = (5 - 5/5)^5 - 5^5/5.$

$400 = 5 \times (5 \times 5 + 55).$

$401 = 5 \times (5 \times 5 + 55) + 5/5.$

$402 = 5 \times (5 \times 5 + 55) + (5 + 5)/5.$

$403 = 5 + (5 - 5/5)^5 - (5^5 + 5)/5.$

$404 = 5 + (5 - 5/5)^5 - 5^5/5.$

$405 = 5 \times (5 \times 5 + 55) + 5.$

$406 = 5 \times (5 \times 5 + 55) + 5 + 5/5.$

$407 = 55 \times (((5 + 5)/5)^5 + 5)/5.$

$408 = (5 \times 5 - 5/5) \times (5 + (55 + 5)/5).$

$409 = 5 + 5 + (5 - 5/5)^5 - 5^5/5.$

$410 = 5 \times (5 \times 5 + 55) + 5 + 5.$

$411 = 5 \times (5 \times 5 + 55) + 55/5.$

$412 = 55 \times (5 + ((5 + 5)/5)^5)/5 + 5.$

$413 = 5 \times (5 \times 5 - 5) + (5^5 + 5)/(5 + 5).$

$414 = (5 - 5/5)^5 - 555 - 55.$

$415 = 5 \times (5 \times 5 + 55) + 5 + 5 + 5.$

$416 = (5 + 55/5) \times (5 \times 5 + 5/5).$

$417 = (5^5 + 5^5 + 5)/(5 + 5 + 5).$

$418 = 55 + 55 - 5 + (5^5 + 5)/(5 + 5).$

$419 = 555 - 5 \times 5 - 555/5.$

$420 = (55 + 5) \times (5 + (5 + 5)/5).$

$421 = 5 + (5 + 55/5) \times (5 \times 5 + 5/5).$

$422 = 5 + (5^5 + 5^5 + 5)/(5 + 5 + 5).$

$423 = 55 + 55 + (5^5 + 5)/(5 + 5).$

$424 = (5 - 5/5) \times (555/5 - 5).$

$425 = 5 \times (5 \times 5 + 55 + 5).$

$426 = 5 \times (5 \times 5 + 55 + 5) + 5/5.$

$427 = 5 \times (5 \times 5 + 55 + 5) + (5 + 5)/5.$

$428 = (5 - 5/5) \times ((555 + 5)/5 - 5).$

$429 = 555 - 5 \times 5 \times 5 - 5/5.$

$430 = 555 - 5 \times 5 \times 5.$

$431 = 555 - 5 \times 5 \times 5 + 5/5.$

$432 = 5 \times 5 \times 5 + (5^5 - 55)/(5 + 5).$

$433 = 5 \times 5 \times 5 - 5 + (5^5 + 5)/(5 + 5).$

$434 = 555 - 5 \times 5 \times 5 + 5 - 5/5.$

$435 = 555 - 5 \times 5 \times 5 + 5.$

$436 = 555 - 5 \times 5 \times 5 + 5 + 5/5.$

$437 = 5 \times 5 \times 5 + (5^5 - 5)/(5 + 5).$

$438 = 5 \times 5 \times 5 + (5^5 + 5)/(5 + 5).$

$439 = 555 - 5 - 555/5.$

$440 = (5 + 5) \times (55 - 55/5).$

$441 = (5 + 5 + 55/5)^{((5 + 5)/5)}.$

$442 = 5 \times 5 \times 5 + 5 + (5^5 - 5)/(5 + 5).$

$443 = 555 - (555 + 5)/5.$
$444 = (5 - 5/5) \times 555/5.$
$445 = 555 - 55 - 55.$
$446 = 5 + (55/5 + 5 + 5)^{((5+5)/5)}.$
$447 = (5^5 + 5 - 5/5)/(5 + (5 + 5)/5).$
$448 = (5 - 5/5) \times (555 + 5)/5.$
$449 = 5 + (5 - 5/5) \times 555/5.$
$450 = (5 + 5) \times (55 - 5 - 5).$
$451 = (5 + 5) \times (55 - 5 - 5) + 5/5.$
$452 = (5+5) \times (55-5-5) + (5+5)/5.$
$453 = 5 + (5 - 5/5) \times (555 + 5)/5.$
$454 = 5 + 5 + (5 - 5/5) \times 555/5.$
$455 = (5 + 5) \times (55 - 5 - 5) + 5.$
$456 = (5+5) \times (55-5-5) + 5 + 5/5.$
$457 = ((5 + 5)/5)^{(5+5-5/5)} - 55.$
$458 = (5 \times 5 \times 5 \times 55 - 5)/(5 + 5 + 5).$
$459 = (5^5 - 555)/5 - 55.$
$460 = (5 + 5) \times (55 - 5 - 5) + 5 + 5.$
$461 = (5 + 5) \times (55 - 5 - 5) + 55/5.$
$462 = 55 \times (((5 + 5)/5)^5 + 5 + 5)/5.$
$463 = 5 \times (5 \times 5 + 5) + (5^5 + 5)/(5 + 5).$
$464 = (5 - 5/5) \times (5 + 555/5).$
$465 = 5 \times (5 \times 5 \times 5 - ((5 + 5)/5)^5).$
$466 = (5^5 + 5)/5 - 5 \times ((5 + 5)/5)^5.$
$467 = 5 \times (5 \times 5 + 5) + 5 + (5^5 - 5)/(5 + 5).$
$468 = (5 - 5/5) \times (5 + (555 + 5)/5).$
$469 = (5 - 5/5)^5 - 555.$
$470 = 5 \times (5 \times (5 \times 5 - 5) - 5) - 5.$
$471 = 5 \times (5 \times (5 \times 5 - 5) - 5) - 5 + 5/5.$
$472 = 55 + (5^5 + 5^5 + 5)/(5 + 5 + 5).$
$473 = 55 \times (55 - (55 + 5)/5)/5.$
$474 = 5 + (5 - 5/5)^5 - 555.$
$475 = 5 \times (5 \times (5 \times 5 - 5) - 5).$
$476 = 5 \times (5 \times (5 \times 5 - 5) - 5) + 5/5.$
$477 = 5 \times (5 \times (5 \times 5 - 5) - 5) + (5 + 5)/5.$
$478 = 5 + 55 \times (55 - (55 + 5)/5)/5.$
$479 = (5 - 5/5)^5 + 5 + 5 - 555.$
$480 = 5 \times (5 \times (5 \times 5 - 5) - 5) + 5.$
$481 = (5555 - 5^5)/5 - 5.$
$482 = (5555 - 5^5 + 5)/5 - 5.$
$483 = 5 \times 55 + (5^5 - 5)/(5 + 5 + 5).$
$484 = 55 \times (55 - 55/5)/5.$
$485 = 5 \times (5 \times (5 \times 5 - 5) - 5) + 5 + 5.$
$486 = (5555 - 5^5)/5.$
$487 = (5555 + 5 - 5^5)/5.$
$488 = (5 - 5/5) \times (555 + 55)/5.$
$489 = 555 - 55 - 55/5.$
$490 = 555 - 55 - 5 - 5.$
$491 = 5 + (5555 - 5^5)/5.$
$492 = 5 + (5555 - 5^5 + 5)/5.$
$493 = 555 - 55 - 5 - (5 + 5)/5.$
$494 = 555 - 55 - 5 - 5/5.$
$495 = 555 - 55 - 5.$
$496 = 555 - 55 - 5 + 5/5.$
$497 = 555 - 55 - 5 + (5 + 5)/5.$
$498 = 555 - 55 - (5 + 5)/5.$
$499 = 555 - 55 - 5/5.$
$500 = 555 - 55.$
$501 = 5 \times 5 \times (5 \times 5 - 5) + 5/5.$
$502 = 555 - 55 + (5 + 5)/5.$
$503 = (5^5 - 555 - 55)/5.$
$504 = 555 - 55 + 5 - 5/5.$
$505 = 5 \times 5 \times (5 \times 5 - 5) + 5.$
$506 = 5 \times 5 \times (5 \times 5 - 5) + 5 + 5/5.$

$507 = ((5 + 5)/5)^{(5+5-5/5)} - 5.$
$508 = (5^5 - 555 - 5)/5 - 5.$
$509 = (5^5 - 555)/5 - 5.$
$510 = 5 \times 5 \times (5 \times 5 - 5) + 5 + 5.$
$511 = 555 - 55 + 55/5.$
$512 = ((5 + 5)/5)^{(5+5-5/5)}.$
$513 = (5^5 - 555 - 5)/5.$
$514 = (5^5 - 555)/5.$
$515 = 5^5/5 - 55 - 55.$
$516 = (5^5 + 5)/5 - 55 - 55.$
$517 = 5 + ((5 + 5)/5)^{(5+5-5/5)}.$
$518 = 5 + (5^5 - 555 - 5)/5.$
$519 = 5 + (5^5 - 555)/5.$
$520 = (5^5 - 5)/(5 + 5/5).$
$521 = (5^5 + 5/5)/(5 + 5/5).$
$522 = 5 + 5 + ((5 + 5)/5)^{(5+5-5/5)}.$
$523 = 555 - ((5 + 5)/5)^5.$
$524 = 5 + 5 + (5^5 - 555)/5.$
$525 = 5 \times (5 \times (5 \times 5 - 5) + 5).$
$526 = 5 + (5^5 + 5/5)/(5 + 5/5).$
$527 = 555 - 5 \times 5 - 5 + (5 + 5)/5.$
$528 = 555 + 5 - ((5 + 5)/5)^5.$
$529 = 555 - 5 \times 5 - 5/5.$
$530 = 555 - 5 \times 5.$
$531 = 555 - 5 \times 5 + 5/5.$
$532 = 555 - 5 \times 5 + (5 + 5)/5.$
$533 = 555 - (55 + 55)/5.$
$534 = 555 - 5 \times 5 + 5 - 5/5.$
$535 = 555 - 5 \times 5 + 5.$
$536 = 555 - 5 \times 5 + 5 + 5/5.$
$537 = 555 - 5 \times 5 + 5 + (5 + 5)/5.$
$538 = 555 - 5 - (55 + 5)/5.$
$539 = 555 - 5 - 55/5.$
$540 = (5 + 5) \times (55 - 5/5).$
$541 = (5 + 5) \times (55 - 5/5) + 5/5.$
$542 = 555 - ((55 + 5 + 5)/5).$
$543 = 555 - (55 + 5)/5.$
$544 = 555 - 55/5.$
$545 = 555 - 5 - 5.$
$546 = 555 - 5 - 5 + 5/5.$
$547 = 555 - 5 - 5 + (5 + 5)/5.$
$548 = 555 - 5 - (5 + 5)/5.$
$549 = 555 - 5 - 5/5.$
$550 = 555 - 5.$
$551 = 555 - 5 + 5/5.$
$552 = 555 - 5 + (5 + 5)/5.$
$553 = 555 - (5 + 5)/5.$
$554 = 555 - 5/5.$
$555 = 555.$
$556 = 555 + 5/5.$
$557 = 555 + (5 + 5)/5.$
$558 = 555 + 5 - (5 + 5)/5.$
$559 = 555 + 5 - 5/5.$
$560 = 555 + 5.$
$561 = 555 + 5 + 5/5.$
$562 = 555 + 5 + (5 + 5)/5.$
$563 = 555 + 5 + 5 - (5 + 5)/5.$
$564 = 555 + 5 + 5 - 5/5.$
$565 = 555 + 5 + 5.$
$566 = 555 + 55/5.$
$567 = 555 + (55 + 5)/5.$
$568 = (5^5 - 5 - 5)/5 - 55.$
$569 = (5^5 - 5)/5 - 55.$
$570 = 5^5/5 - 55.$
$571 = (5^5 + 5)/5 - 55.$
$572 = (5^5 + 5 + 5)/5 - 55.$

$573 = 5 - 55 + (5^5 - 5 - 5)/5.$
$574 = 5 - 55 + (5^5 - 5)/5.$
$575 = 5 - 55 + 5^5/5.$
$576 = 5 - 55 + (5^5 + 5)/5.$
$577 = 5 - 55 + (5^5 + 5 + 5)/5.$
$578 = 5 \times 5 + 555 - (5 + 5)/5.$
$579 = 5 \times 5 + 555 - 5/5.$
$580 = 5 \times 5 + 555.$
$581 = 5 \times 5 + 555 + 5/5.$
$582 = 5 \times 5 + 555 + (5 + 5)/5.$
$583 = 55 \times (55 - (5 + 5)/5)/5.$
$584 = 555 + 5 \times 5 + 5 - 5/5.$
$585 = 555 + 5 \times 5 + 5.$
$586 = 555 + 5 \times 5 + 5 + 5/5.$
$587 = 555 + ((5 + 5)/5)^5.$
$588 = 5 \times 55 + (5^5 + 5)/(5 + 5).$
$589 = (5^5 - 55)/5 - 5 \times 5.$
$590 = 555 + 5 \times 5 + 5 + 5.$
$591 = 555 + 5 \times 5 + 55/5.$
$592 = 555 + 5 + ((5 + 5)/5)^5.$
$593 = 5^5/5 - ((5 + 5)/5)^5.$
$594 = 55 \times (55 - 5/5)/5.$
$595 = 5^5/5 - 5 \times 5 - 5.$
$596 = (5^5 + 5)/5 - 5 \times 5 - 5.$
$597 = (5^5 + 5 + 5)/5 - 5 \times 5 - 5.$
$598 = 5 \times (5 \times 5 \times 5 - 5) - (5 + 5)/5.$
$599 = 5 \times (5 \times 5 \times 5 - 5) - 5/5.$
$600 = 5 \times (5 \times 5 \times 5 - 5).$
$601 = (5^5 + 5)/5 - 5 \times 5.$
$602 = (5^5 + 5 + 5)/5 - 5 \times 5.$
$603 = (5^5 - 55 - 55)/5.$
$604 = (55 \times 55 - 5)/5.$
$605 = 55 \times 55/5.$
$606 = (55 \times 55 + 5)/5.$
$607 = (55 \times 55 + 5 + 5)/5.$
$608 = (5^5 - 55 - 5)/5 - 5.$
$609 = (5^5 - 55)/5 - 5.$
$610 = 555 + 55.$
$611 = 5 + (55 \times 55 + 5)/5.$
$612 = (5^5 - 55 - 5 - 5)/5.$
$613 = (5^5 - 55 - 5)/5.$
$614 = (5^5 - 55)/5.$
$615 = 5^5/5 - 5 - 5.$
$616 = (5^5 + 5)/5 - 5 - 5.$
$617 = (5^5 + 5 + 5)/5 - 5 - 5.$
$618 = (5^5 - 5 - 5)/5 - 5.$
$619 = (5^5 - 5)/5 - 5.$
$620 = 5^5/5 - 5.$
$621 = (5^5 + 5)/5 - 5.$
$622 = (5^5 + 5 + 5)/5 - 5.$
$623 = (5^5 - 5 - 5)/5.$
$624 = (5^5 - 5)/5.$
$625 = 5^5/5.$
$626 = (5^5 + 5)/5.$
$627 = (5^5 + 5 + 5)/5.$
$628 = 5 + (5^5 - 5 - 5)/5.$
$629 = 5 + (5^5 - 5)/5.$
$630 = 5 + 5^5/5.$
$631 = 5 + (5^5 + 5)/5.$
$632 = 5 + (5^5 + 5 + 5)/5.$
$633 = 5 + 5 + (5^5 - 5 - 5)/5.$
$634 = 5 + 5 + (5^5 - 5)/5.$
$635 = 5 + 5 + 5^5/5.$
$636 = (55 + 5^5)/5.$
$637 = (55 + 5^5 + 5)/5.$
$638 = (55 + 5^5 + 5 + 5)/5.$

$639 = 5 + 5 + 5 + (5^5 - 5)/5.$
$640 = 5 + 5 + 5 + 5^5/5.$
$641 = 5 + (55 + 5^5)/5.$
$642 = 5 + (55 + 5^5 + 5)/5.$
$643 = 5 + (55 + 5^5 + 5 + 5)/5.$
$644 = 5 \times 5 - 5 + (5^5 - 5)/5.$
$645 = 5 \times 5 - 5 + 5^5/5.$
$646 = 5 + 5 + (55 + 5^5)/5.$
$647 = (55 + 55 + 5^5)/5.$
$648 = 5 \times 5 + (5^5 - 5 - 5)/5.$
$649 = 5 \times 5 + (5^5 - 5)/5.$
$650 = 5 \times (5 \times 5 \times 5 + 5).$
$651 = 5 \times 5 + (5^5 + 5)/5.$
$652 = 5 \times 5 + (5^5 + 5 + 5)/5.$
$653 = 5 + 5 \times 5 + (5^5 - 5 - 5)/5.$
$654 = 5 + 5 \times 5 + (5^5 - 5)/5.$
$655 = 5 + 5 \times 5 + 5^5/5.$
$656 = 5 + 5 \times 5 + (5^5 + 5)/5.$
$657 = 5^5/5 + ((5 + 5)/5)^5.$
$658 = (5^5 + 5)/5 + ((5 + 5)/5)^5.$
$659 = (55 \times (55 + 5) - 5)/5.$
$660 = 55 \times (55 + 5)/5.$
$661 = 5 \times 5 + (55 + 5^5)/5.$
$662 = 5 + ((5 + 5)/5)^5 + 5^5/5.$
$663 = 5 + (5^5 + 5)/5 + ((5 + 5)/5)^5.$
$664 = 5 + (55 \times (55 + 5) - 5)/5.$
$665 = 5 + 55 \times (55 + 5)/5.$
$666 = 555 + 555/5.$
$667 = 555 + (555 + 5)/5.$
$668 = 55 + (5^5 - 55 - 5)/5.$
$669 = 55 + (5^5 - 55)/5.$
$670 = 55 - 5 - 5 + 5^5/5.$
$671 = 5 + 555 + 555/5.$
$672 = (5 + 5/5) \times (555 + 5)/5.$
$673 = 55 - 5 + (5^5 - 5 - 5)/5.$
$674 = 55 - 5 + (5^5 - 5)/5.$
$675 = 5 \times (5 \times 5 \times 5 + 5 + 5).$
$676 = 55 - 5 + (5^5 + 5)/5.$
$677 = 55 - 5 + (5^5 + 5 + 5)/5.$
$678 = 55 + (5^5 - 5 - 5)/5.$
$679 = 55 + (5^5 - 5)/5.$
$680 = 55 + 5^5/5.$
$681 = 55 + (5^5 + 5)/5.$
$682 = 55 + (5^5 + 5 + 5)/5.$
$683 = 55 + 5 + (5^5 - 5 - 5)/5.$
$684 = 55 + 5 + (5^5 - 5)/5.$
$685 = 55 + 5 + 5^5/5.$
$686 = 55 + 5 + (5^5 + 5)/5.$
$687 = 55 + 5 + (5^5 + 5 + 5)/5.$
$688 = (55 \times 5 \times 5 \times 5 + 5)/(5 + 5).$
$689 = 55 + 5 + 5 + (5^5 - 5)/5.$
$690 = 55 + 5 + 5 + 5^5/5.$
$691 = 55 + (55 + 5^5)/5.$
$692 = 55 + (55 + 5^5 + 5)/5.$
$693 = 5 + (5 \times 5 \times 5 \times 55 + 5)/(5 + 5).$
$694 = 55 + 5 + 5 + 5 + (5^5 - 5)/5.$
$695 = 5 \times 5 \times (5 \times 5 + 5) - 55.$
$696 = 55 + 5 + (55 + 5^5)/5.$
$697 = 55 + 5 + (55 + 5^5 + 5)/5.$
$698 = 5 \times (5 + 5 + 5) + (5^5 - 5 - 5)/5.$
$699 = 5 \times (5 + 5 + 5) + (5^5 - 5)/5.$
$700 = 5 \times (5 \times 5 \times 5 + 5 + 5 + 5).$
$701 = 5 \times (5 + 5 + 5) + (5^5 + 5)/5.$
$702 = 55 + (55 + 55 + 5^5)/5.$
$703 = 5 \times 5 + 55 + (5^5 - 5 - 5)/5.$
$704 = 5 \times 5 + 55 + (5^5 - 5)/5.$

$705 = 5 \times 5 + 55 + 5^5/5.$
$706 = 5 \times 5 + 55 + (5^5 + 5)/5.$
$707 = 5 \times 5 + 55 + (5^5 + 5 + 5)/5.$
$708 = (55 + 5) \times (55 + 5 - 5/5)/5.$
$709 = 5 \times 5 + 55 + 5 + (5^5 - 5)/5.$
$710 = 5 \times 5 + 55 + 5 + 5^5/5.$
$711 = (555 + 5^5)/5 - 5 \times 5.$
$712 = 55 + ((5 + 5)/5)^5 + 5^5/5.$
$713 = (55 \times (55 + 5 + 5) - 5 - 5)/5.$
$714 = (55 \times (55 + 5 + 5) - 5)/5.$
$715 = 55 \times (55 + 5 + 5)/5.$
$716 = (55 \times (55 + 5 + 5) + 5)/5.$
$717 = (55 \times (55 + 5 + 5) + 5 + 5)/5.$
$718 = 5 \times 5 \times (5 \times 5 + 5) - ((5 + 5)/5)^5.$
$719 = ((55 + 5)^{((5+5)/5)} - 5)/5.$
$720 = (5 \times 5 \times 5 - 5) \times (5 + 5/5).$
$721 = ((55 + 5)^{((5+5)/5)} + 5)/5.$
$722 = ((55 + 5)^{((5+5)/5)} + 5 + 5)/5.$
$723 = 5 \times (5 \times 5 - 5) + (5^5 - 5 - 5)/5.$
$724 = 5 \times (5 \times 5 - 5) + (5^5 - 5)/5.$
$725 = 5 \times (5 \times (5 \times 5 + 5) - 5).$
$726 = 5 \times (5 \times (5 \times 5 + 5) - 5) + 5/5.$
$727 = (555 + 5^5 + 5)/5 - 5 - 5.$
$728 = (55 + 5/5) \times (55 + 5 + 5)/5.$
$729 = (5 - (5 + 5)/5)^{(5+5/5)}.$
$730 = 5 + 5 \times (5 \times (5 \times 5 + 5) - 5).$
$731 = (555 + 5^5)/5 - 5.$
$732 = (555 + 5^5 + 5)/5 - 5.$
$733 = 55 + 55 + (5^5 - 5 - 5)/5.$
$734 = 5 + (5 - (5 + 5)/5)^{(5+5/5)}.$
$735 = 55 + 55 + 5^5/5.$
$736 = (555 + 5^5)/5.$
$737 = (555 + 5^5 + 5)/5.$
$738 = (555 + 5^5 + 5 + 5)/5.$
$739 = 5 \times 5 \times 5 + (5^5 - 55)/5.$
$740 = 5 \times 5 \times (5 \times 5 + 5) - 5 - 5.$
$741 = 5 + (555 + 5^5)/5.$
$742 = 5 + (555 + 5^5 + 5)/5.$
$743 = 5 + (555 + 5^5 + 5 + 5)/5.$
$744 = 5 \times 5 \times 5 - 5 + (5^5 - 5)/5.$
$745 = 5 \times 5 \times (5 \times 5 + 5) - 5.$
$746 = 5 + 5 + (555 + 5^5)/5.$
$747 = (555 + 55 + 5^5)/5.$
$748 = 5 \times 5 \times 5 + (5^5 - 5 - 5)/5.$
$749 = 5 \times 5 \times 5 + (5^5 - 5)/5.$
$750 = 5 \times 5 \times (5 \times 5 + 5).$
$751 = 5 \times 5 \times (5 \times 5 + 5) + 5/5.$
$752 = 5 \times 5 \times 5 + (5^5 + 5 + 5)/5.$
$753 = 5 \times 5 \times 5 + 5 + (5^5 - 5 - 5)/5.$
$754 = 5 \times 5 \times 5 + 5 + (5^5 - 5)/5.$
$755 = 5 + 5 \times 5 \times (5 \times 5 + 5).$
$756 = 5 + 5 \times 5 \times (5 \times 5 + 5) + 5/5.$
$757 = 5 + 5 \times 5 \times (5 \times 5 + 5) + (5 + 5)/5.$
$758 = 5 \times 5 \times 5 + 5 + 5 + (5^5 - 5 - 5)/5.$
$759 = 5 \times 5 \times 5 + 5 + 5 + (5^5 - 5)/5.$
$760 = 5 + 5 + 5 \times 5 \times (5 \times 5 + 5).$
$761 = 5 \times 5 + (555 + 5^5)/5.$
$762 = 5 \times 5 + (555 + 5^5 + 5)/5.$
$763 = 555 + (5^5 - 5)/(5 + 5 + 5).$
$764 = 5 \times (5 \times 5 + 5) + (5^5 - 55)/5.$
$765 = 5 + 5 + 5 + 5 \times 5 \times (5 \times 5 + 5).$
$766 = 5 + 5 \times 5 + (555 + 5^5)/5.$
$767 = 5 + 5 \times 5 + (555 + 5^5 + 5)/5.$
$768 = (5 \times 5 - 5/5) \times ((5 + 5)/5)^5.$
$769 = (5 - 5/5)^5 - 5 \times (55 - 5) - 5.$
$770 = 55 \times (5 + 5 + 5 - 5/5).$

$771 = 55 \times (5 + 5 + 5 - 5/5) + 5/5.$
$772 = 555 \times (5 + (5 + 5)/5)/5 - 5.$
$773 = 5 + (5 \times 5 - 5/5) \times ((5 + 5)/5)^5.$
$774 = (5 - 5/5)^5 - 5 \times (55 - 5).$
$775 = 5 \times (5 \times (5 \times 5 + 5) + 5).$
$776 = 5 \times (5 \times (5 \times 5 + 5) + 5) + 5/5.$
$777 = 555 \times (5 + (5 + 5)/5)/5.$
$778 = (5^5 - 5)/(5 - 5/5) - (5 + 5)/5.$
$779 = (5^5 - 5)/(5 - 5/5) - 5/5.$
$780 = (5^5 - 5)/(5 - 5/5).$
$781 = (5^5 - 5/5)/(5 - 5/5).$
$782 = 5 + 555 \times (5 + (5 + 5)/5)/5.$
$783 = (5^5 - 5/5)/(5 - 5/5) + (5 + 5)/5.$
$784 = (5^5 + 55/5)/(5 - 5/5).$
$785 = 5 + (5^5 - 5)/(5 - 5/5).$
$786 = 5 + (5^5 - 5/5)/(5 - 5/5).$
$787 = 5 + 5 + 555 \times (5 + (5 + 5)/5)/5.$
$788 = 5 + (5^5 + 5 + (5 + 5)/5)/(5 - 5/5).$
$789 = 5 + (5^5 + 55/5)/(5 - 5/5).$
$790 = 5 + 5 + (5^5 - 5)/(5 - 5/5).$
$791 = 55 + (555 + 5^5)/5.$
$792 = 55 + (555 + 5^5 + 5)/5.$
$793 = 555 - 5 + (5 - (5 + 5)/5)^5.$
$794 = 5 \times 5 \times ((5 + 5)/5)^5 - 5 - 5/5.$
$795 = (55 + 5^5)/(5 - 5/5).$
$796 = 55 + 5 + (555 + 5^5)/5.$
$797 = 55 + 5 + (555 + 5^5 + 5)/5.$
$798 = 555 + (5 - (5 + 5)/5)^5.$
$799 = 5 \times 5 \times ((5 + 5)/5)^5 - 5/5.$
$800 = 5 \times 5 \times ((5 + 5)/5)^5.$
$801 = 5 \times 5 \times ((5 + 5)/5)^5 + 5/5.$
$802 = 5 \times 5 \times ((5 + 5)/5)^5 + (5 + 5)/5.$
$803 = 5 + 555 + (5 - (5 + 5)/5)^5.$
$804 = 5 + 5 \times 5 \times ((5 + 5)/5)^5 - 5/5.$
$805 = 5 + 5 \times 5 \times ((5 + 5)/5)^5.$
$806 = 5 + 5 \times 5 \times ((5 + 5)/5)^5 + 5/5.$
$807 = 5 + 5 \times 5 \times ((5 + 5)/5)^5 + (5 + 5)/5.$
$808 = 555 + 5 + 5 + (5 - (5 + 5)/5)^5.$
$809 = 55 \times (5 + 5 + 5) - 5 - 55/5.$
$810 = (5 + 5 + 5) \times (55 - 5/5).$
$811 = (5 + 5 + 5) \times (55 - 5/5) + 5/5.$
$812 = (5 + (5 + 5)/5) \times (5 + 555/5).$
$813 = 55 \times (5 + 5 + 5) - (55 + 5)/5.$
$814 = 55 \times (5 + 5 + 5) - 55/5.$
$815 = 55 \times (5 + 5 + 5) - 5 - 5.$
$816 = 55 \times (5 + 5 + 5) - 5 - 5 + 5/5.$
$817 = 55 \times (5 + 5 + 5) - 5 - 5 + (5 + 5)/5.$
$818 = 55 \times (5 + 5 + 5) - 5 - (5 + 5)/5.$
$819 = 55 \times (5 + 5 + 5) - 5 - 5/5.$
$820 = 55 \times (5 + 5 + 5) - 5.$
$821 = 55 \times (5 + 5 + 5) - 5 + 5/5.$
$822 = 55 \times (5 + 5 + 5) - 5 + (5 + 5)/5.$
$823 = 55 \times (5 + 5 + 5) - (5 + 5)/5.$
$824 = 55 \times (5 + 5 + 5) - 5/5.$
$825 = 55 \times (5 + 5 + 5).$
$826 = 55 \times (5 + 5 + 5) + 5/5.$
$827 = 55 \times (5 + 5 + 5) + (5 + 5)/5.$
$828 = 55 \times (5 + 5 + 5) + 5 - (5 + 5)/5.$
$829 = 55 \times (5 + 5 + 5) + 5 - 5/5.$
$830 = 55 \times (5 + 5 + 5) + 5.$
$831 = 55 \times (5 + 5 + 5) + 5 + 5/5.$
$832 = (5 \times 5 + 5/5) \times ((5 + 5)/5)^5.$
$833 = 5^5/5 + (5^5 - 5)/(5 + 5 + 5).$
$834 = 55 \times (5 + 5 + 5) + 5 + 5 - 5/5.$

$835 = 55 \times (5 + 5 + 5) + 5 + 5.$
$836 = 55 \times (5 + 5 + 5) + 55/5.$
$837 = 55 \times (5 + 5 + 5) + (55 + 5)/5.$
$838 = 5 + 5^5/5 + (5^5 - 5)/(5 + 5 + 5).$
$839 = (5 + 5 + 5) \times (55 + 5/5) - 5/5.$
$840 = (5 + 5 + 5) \times (55 + 5/5).$
$841 = (5 \times 5 + 5 - 5/5)^{((5+5)/5)}.$
$842 = 5 + 5 + (5 \times 5 + 5/5) \times ((5 + 5)/5)^5.$
$843 = 5^5/5 - 5 \times 5 + (5 - (5+5)/5)^5.$
$844 = 5 \times 55 - 55 + (5^5 - 5)/5.$
$845 = (5 + 5 + 5) \times (55 + 5/5) + 5.$
$846 = (5 \times 5 + 5 - 5/5)^{((5+5)/5)} + 5.$
$847 = (555 + 555 + 5^5)/5.$
$848 = (5 + 55/5) \times (55 - (5 + 5)/5).$
$849 = 5 \times 5 + 55 \times (5 + 5 + 5) - 5/5.$
$850 = 5 \times (5 \times (5 \times 5 + 5 + 5) - 5).$
$851 = 5 \times 5 + 55 \times (5 + 5 + 5) + 5/5.$
$852 = 5 + (555 + 555 + 5^5)/5.$
$853 = 5 + (55/5 + 5) \times (55 - (5+5)/5).$
$854 = 555 + 5 \times (55 + 5) - 5/5.$
$855 = 555 + 5 \times (55 + 5).$
$856 = 555 + 5 \times (55 + 5) + 5/5.$
$857 = 55 \times (5 + 5 + 5) + ((5 + 5)/5)^5.$
$858 = 5^5/5 + (5 - (5+5)/5)^5 - 5 - 5.$
$859 = (5 + 55/5) \times (55 - 5/5) - 5.$
$860 = 5 + 5 \times (55 + 5) + 555.$
$861 = 5 \times 5 \times 5 + (555 + 5^5)/5.$
$862 = 555 + (5^5 - 55)/(5 + 5).$
$863 = 5^5/5 + (5 - (5 + 5)/5)^5 - 5.$
$864 = (5 + 55/5) \times (55 - 5/5).$
$865 = 5 \times 5 \times (5 \times 5 + 5 + 5) - 5 - 5.$
$866 = 5 \times 5 \times 5 + 5 + (555 + 5^5)/5.$
$867 = 555 + (5^5 - 5)/(5 + 5).$
$868 = 5^5/5 + (5 - (5 + 5)/5)^5.$
$869 = 5 + (5 + 55/5) \times (55 - 5/5).$
$870 = 5 \times 5 \times (5 \times 5 + 5 + 5) - 5.$
$871 = 5 \times 5 \times (5 \times 5 + 5 + 5) - 5 + 5/5.$
$872 = 555 + 5 + (5^5 - 5)/(5 + 5).$
$873 = 5^5/5 + 5 + (5 - (5 + 5)/5)^5.$
$874 = 5 \times 5 \times (5 + 5) + (5^5 - 5)/5.$
$875 = 5 \times 5 \times (5 \times 5 + 5).$
$876 = 5 \times 5 \times (5 \times 5 + 5 + 5) + 5/5.$
$877 = 5 \times 5 \times (5 \times 5 + 5 + 5) + (5+5)/5.$
$878 = 55 \times (5 + 55/5) - (5 + 5)/5.$
$879 = 55 \times (5 + 55/5) - 5/5.$
$880 = 55 \times (5 + 55/5).$
$881 = 55 \times (5 + 55/5) + 5/5.$
$882 = 55 \times (5 + 55/5) + (5 + 5)/5.$
$883 = 55 \times (5 + 55/5) + 5 - (5+5)/5.$
$884 = 55 \times (5 + 55/5) + 5 - 5/5.$
$885 = 55 \times (5 + 55/5) + 5.$
$886 = 55 \times (5 + 55/5) + 5 + 5/5.$
$887 = 55 \times (5 + 55/5) + 5 + (5+5)/5.$
$888 = 5 \times 55 + (5^5 - 55 - 5)/5.$
$889 = 5 \times 55 + (5^5 - 55)/5.$
$890 = 5 + 5 + 55 \times (5 + 55/5).$

$891 = 5 \times 55 - 5 - 5 + (5^5 + 5)/5.$
$892 = 5 \times 5 + 555 + (5^5 - 5)/(5 + 5).$
$893 = 5 \times 55 - 5 + (5^5 - 5 - 5)/5.$
$894 = 5 \times 55 - 5 + (5^5 - 5)/5.$
$895 = 5 \times 55 - 5 + 5^5/5.$
$896 = 5 \times 55 - 5 + (5^5 + 5)/5.$
$897 = 5 \times 55 - 5 + (5^5 + 5 + 5)/5.$
$898 = 5 \times 55 + (5^5 - 5 - 5)/5.$
$899 = 5 \times 55 + (5^5 - 5)/5.$
$900 = 5 \times (5 \times 5 \times 5 + 55).$
$901 = 5 \times 55 + (5^5 + 5)/5.$
$902 = 5 \times 55 + (5^5 + 5 + 5)/5.$
$903 = 5 \times 55 + 5 + (5^5 - 5 - 5)/5.$
$904 = 5 \times 55 + 5 + (5^5 - 5)/5.$
$905 = 5 \times 55 + 5 + 5^5/5.$
$906 = 5 \times 55 + 5 + (5^5 + 5)/5.$
$907 = 5 \times 55 + 5 + (5^5 + 5 + 5)/5.$
$908 = (5 - 5/5)^5 - 5 - 555/5.$
$909 = 5 \times 55 + 5 + 5 + (5^5 - 5)/5.$
$910 = 5 \times 55 + 5 + 5 + 5^5/5.$
$911 = 5 \times 55 + (55 + 5^5)/5.$
$912 = 5 \times 55 + (55 + 5^5 + 5)/5.$
$913 = (5 - 5/5)^5 - 555/5.$
$914 = (5 - 5/5)^5 - 55 - 55.$
$915 = (5 + 5 + 5) \times (55 + 5 + 5/5).$
$916 = 5 \times 55 + 5 + (55 + 5^5)/5.$
$917 = 5 \times 55 + 5 + (55 + 5^5 + 5)/5.$
$918 = (5 - 5/5)^5 - 555/5 + 5.$
$919 = (5 - 5/5)^5 - 55 - 55 + 5.$
$920 = 5 \times (55 + 5) - 5 + 5^5/5.$
$921 = 5 \times (55 + 5) - 5 + (5^5 + 5)/5.$
$922 = 555 + 55 + (5^5 - 5)/(5 + 5).$
$923 = 5 \times (55 + 5) + (5^5 - 5 - 5)/5.$
$924 = (5 - 5/5)^5 - 5 \times (5 \times 5 - 5).$
$925 = 5 \times (5 \times 5 \times 5 + 55 + 5).$
$926 = 5 \times (55 + 5) + (5^5 + 5)/5.$
$927 = 5 \times (55 + 5) + (5^5 + 5 + 5)/5.$
$928 = ((5+5)/5)^5 \times (5 \times 5 + 5 - 5/5).$
$929 = 5 - 5 \times (5 \times 5 - 5) + (5 - 5/5)^5.$
$930 = 5 + 5 \times (55 + 5) + 5^5/5.$
$931 = 5 + 5 \times (55 + 5) + (5^5 + 5)/5.$
$932 = 5^5/5 + (5^5 - 55)/(5 + 5).$
$933 = 5^5/5 + (5^5 + 5)/(5 + 5) - 5.$
$934 = 55 \times (5 + (55 + 5)/5) - 5/5.$
$935 = 55 \times (5 + (55 + 5)/5).$
$936 = 55 \times (5 + (55 + 5)/5) + 5/5.$
$937 = (5^5 - 5)/(5 + 5) + 5^5/5.$
$938 = (5^5 + 5)/(5 + 5) + 5^5/5.$
$939 = (5^5 + 5)/5 + (5^5 + 5)/(5 + 5).$
$940 = 55 \times (5 + (55 + 5)/5) + 5.$
$941 = 55 \times (5 + (55 + 5)/5) + 5 + 5/5.$
$942 = (5^5 - 5)/(5 + 5) + 5^5/5 + 5.$
$943 = (5^5 + 5)/(5 + 5) + 5^5/5 + 5.$
$944 = (5 - 5/5)^5 - 5 \times 5 - 55.$
$945 = 5 \times 5 \times (55 + 5) - 555.$
$946 = 55 \times (555/5 - 5 \times 5)/5.$
$947 = (5^5 - 5)/(5 + 5) + 5^5/5 + 5 + 5.$

$948 = (5^5 + 5)/(5 + 5) + 5^5/5 + 5 + 5.$
$949 = (5 - 5/5)^5 - 5 \times (5 + 5 + 5).$
$950 = (5 + 5) \times (5 \times (5 \times 5 - 5) - 5).$
$951 = (5 + 5) \times (5 \times (5 \times 5 - 5) - 5) + 5/5.$
$952 = (5 - 5/5) \times ((5 - (5+5)/5)^5 - 5).$
$953 = 55 + 5 \times 55 + (5^5 - 5 - 5)/5.$
$954 = (5 - 5/5)^5 + 5 - 5 \times (5 + 5 + 5).$
$955 = 5 + (5 + 5) \times (5 \times (5 \times 5 - 5) - 5).$
$956 = 55 + 5 \times 55 + (5^5 + 5)/5.$
$957 = 55 \times (55 + ((5 + 5)/5)^5)/5.$
$958 = (5 - 5/5)^5 - 55 - 55/5.$
$959 = (5 - 5/5)^5 - 55 - 5 - 5.$
$960 = (5 \times 5 + 5) \times ((5 + 5)/5)^5.$
$961 = (5 \times 5 + 5 + 5/5)^{((5+5)/5)}.$
$962 = (5 \times 5 + 5/5) \times (5 + ((5 + 5)/5)^5).$
$963 = (5 - 5/5)^5 - 55 - 5 - 5/5.$
$964 = (5 - 5/5)^5 - 55 - 5.$
$965 = 5 + (5 \times 5 + 5) \times ((5 + 5)/5)^5.$
$966 = 5 + (5 \times 5 + 5 + 5/5)^{((5+5)/5)}.$
$967 = (5 - 5/5)^5 - (55 + (5 + 5)/5).$
$968 = (5 - 5/5)^5 - 55 - 5/5.$
$969 = (5 - 5/5)^5 - 55.$
$970 = (5 - 5/5)^5 - 55 + 5/5.$
$971 = (5 - 5/5)^{(5 + 5/5)} - 5^5.$
$972 = (5 - 5/5) \times (5 - (5 + 5)/5)^5.$
$973 = (5 - 5/5)^5 + 5 - 55 - 5/5.$
$974 = (5 - 5/5)^5 + 5 - 55.$
$975 = 5 \times (5 \times 5 \times (5 + 5) - 55).$
$976 = 5 - 5^5 + (5 - 5/5)^{(5 + 5/5)}.$
$977 = 5 + (5 - 5/5) \times (5 - (5 + 5)/5)^5.$
$978 = (5 - 5/5)^5 + 5 + 5 - 55 - 5/5.$
$979 = (5 - 5/5)^5 + 5 + 5 - 55.$
$980 = 5 + 5 \times (5 \times 5 \times (5 + 5) - 55).$
$981 = 5555/5 - 5 \times 5 \times 5 - 5.$
$982 = (5 - 5/5) \times (5 - (5 + 5)/5)^5 + 5 + 5.$
$983 = (5 - 5/5)^5 - 55/5 - 5 \times 5 - 5.$
$984 = (5 - 5/5)^5 - 55 + 5 + 5 + 5.$
$985 = 5 + 5 \times (5 \times 5 \times (5+5) - 55) + 5.$
$986 = 5555/5 - 5 \times 5 \times 5.$
$987 = (5 - 5/5)^5 - 5 - ((5 + 5)/5)^5.$
$988 = (5 - 5/5)^5 - 5 \times 5 - 55/5.$
$989 = (5 - 5/5)^5 - 5 \times 5 - 5 - 5.$
$990 = (5 + 5) \times (5 \times (5 \times 5 - 5) - 5/5).$
$991 = 5 + 5555/5 - 5 \times 5 \times 5.$
$992 = (5 - 5/5)^5 - ((5 + 5)/5)^5.$
$993 = (5 - 5/5)^5 - 5 \times 5 - 5 - 5/5.$
$994 = (5 - 5/5)^5 - 5 \times 5 - 5.$
$995 = 5 \times (5 + 5) \times (5 \times 5 - 5) - 5.$
$996 = 5 \times (5 + 5) \times (5 \times 5 - 5) - 5 + 5/5.$
$997 = (5 - 5/5)^5 - ((5 + 5)/5)^5 + 5.$
$998 = (5 - 5/5)^5 - 5 \times 5 - 5/5.$
$999 = (5 - 5/5)^5 - 5 \times 5.$
$1000 = 5 \times (5 + 5) \times (5 \times 5 - 5).$

9. Representations Using Number 6

$101 = 66 + 6 \times 6 - 6/6.$
$102 = 66 + 6 \times 6.$
$103 = 66 + 6 \times 6 + 6/6.$
$104 = (666 - 6)/6 - 6.$
$105 = 666/6 - 6.$

$106 = (666 + 6)/6 - 6.$
$107 = 6 \times (6 + 6 + 6) - 6/6.$
$108 = 6 \times (6 + 6 + 6).$
$109 = (666 - 6 - 6)/6.$
$110 = (666 - 6)/6.$

$111 = 666/6.$
$112 = (666 + 6)/6.$
$113 = (666 + 6 + 6)/6.$
$114 = 6 \times (6 + 6 + 6) + 6.$
$115 = 6 \times (6 + 6 + 6) + 6 + 6/6.$

$116 = 6 + (666 - 6)/6.$
$117 = 6 + 666/6.$
$118 = 6 + (666 + 6)/6.$
$119 = 6 + (666 + 6 + 6)/6.$
$120 = 6 \times (6 + 6 + 6) + 6 + 6.$
$121 = 66 \times 66/(6 \times 6).$
$122 = (666 + 66)/6.$
$123 = 6 + 6 + 666/6.$
$124 = 6 + 6 + (666 + 6)/6.$
$125 = 66 + 66 - 6 - 6/6.$
$126 = 66 + 66 - 6.$
$127 = 6 + 66 \times 66/(6 \times 6).$
$128 = ((6 + 6)/6)^{(6+6/6)}.$
$129 = 6 + 6 + 6 + 666/6.$
$130 = 66 + ((6 + 6)/6)^6.$
$131 = 66 + 66 - 6/6.$
$132 = 66 + 66.$
$133 = 66 + 66 + 6/6.$
$134 = 66 + 66 + (6 + 6)/6.$
$135 = 6 + 6 + 6 + 6 + 666/6.$
$136 = 66 + 6 + ((6 + 6)/6)^6.$
$137 = 66 + 6 + 66 - 6/6.$
$138 = 66 + 66 + 6.$
$139 = 66 + 66 + 6 + 6/6.$
$140 = 66 + 66 + 6 + (6 + 6)/6.$
$141 = 6 \times 6 - 6 + 666/6.$
$142 = (6 + 6) \times (6 + 6) - (6 + 6)/6.$
$143 = (6 + 6) \times (6 + 6) - 6/6.$
$144 = (6 + 6) \times (6 + 6).$
$145 = (6 + 6) \times (6 + 6) + 6/6.$
$146 = 6 \times 6 + (666 - 6)/6.$
$147 = 66 + 6 \times 66/6.$
$148 = 6 \times 6 + (666 + 6)/6.$
$149 = (6 + 6) \times (6 + 6) + 6 - 6/6.$
$150 = (6 + 6) \times (6 + 6) + 6.$
$151 = (6 + 6) \times (6 + 6) + 6 + 6/6.$
$152 = 6 \times 6 \times 6 - ((6 + 6)/6)^6.$
$153 = 6 \times 6 + 6 + 666/6.$
$154 = 6 \times 6 + 6 + (666 + 6)/6.$
$155 = (6 + 6) \times (6 + 6) + 66/6.$
$156 = (6 + 6) \times (6 + 6) + 6 + 6.$
$157 = (6+6) \times (6+6) + 6 + 6 + 6/6.$
$158 = 6 \times 6 \times 6 + 6 - ((6 + 6)/6)^6.$
$159 = 6 \times 6 + 6 + 6 + 666/6.$
$160 = 6 \times 6 + 6 + 6 + (666 + 6)/6.$
$161 = (6 + 6) \times (6 + 6) + 6 + 66/6.$
$162 = (6 + 6) \times (6 + 6) + 6 + 6 + 6.$
$163 = 6 \times (6 \times 6 - 6) - 6 - 66/6.$
$164 = 6 \times 6 + ((6 + 6)/6)^{(6+6/6)}.$
$165 = 66 \times (6 \times 6 - 6)/(6 + 6).$
$166 = 66 + 6 \times 6 + ((6 + 6)/6)^6.$
$167 = 66 + 6 \times 6 + 66 - 6/6.$
$168 = 66 + 6 \times 6 + 66.$
$169 = (6 + 6 + 6/6)^{((6+6)/6)}.$
$170 = 66 - 6 + (666 - 6)/6.$
$171 = 66 - 6 + 666/6.$
$172 = 66 - 6 + (666 + 6)/6.$
$173 = 6 \times (6 \times 6 - 6) - 6 - 6/6.$
$174 = 6 \times (6 \times 6 - 6) - 6.$
$175 = 6 \times (6 \times 6 - 6) - 6 + 6/6.$
$176 = 66 + (666 - 6)/6.$
$177 = 66 + 666/6.$
$178 = 66 + (666 + 6)/6.$
$179 = 6 \times (6 \times 6 - 6) - 6/6.$
$180 = 6 \times (6 \times 6 - 6).$
$181 = 6 \times (6 \times 6 - 6) + 6/6.$

$182 = 6 \times (6 \times 6 - 6) + (6 + 6)/6.$
$183 = 66 + 6 + 666/6.$
$184 = 66 + 6 + (666 + 6)/6.$
$185 = 6 \times (6 \times 6 - 6) + 6 - 6/6.$
$186 = 6 \times (6 \times 6 - 6) + 6.$
$187 = 6 \times (6 \times 6 - 6) + 6 + 6/6.$
$188 = 6 \times (6 \times 6 - 6) + 6 + (6 + 6)/6.$
$189 = 66 + 6 + 6 + 666/6.$
$190 = (6 - 6/6) \times (6 \times 6 + (6 + 6)/6).$
$191 = 6 \times (6 \times 6 - 6) + 66/6.$
$192 = 6 \times (6 \times 6 - 6) + 6 + 6.$
$193 = 6 \times (6 \times 6 - 6) + 6 + 6 + 6/6.$
$194 = 66 + ((6 + 6)/6)^{(6+6/6)}.$
$195 = 6 \times (6 \times 66 - 6)/(6 + 6).$
$196 = 66 + 66 + ((6 + 6)/6)^6.$
$197 = (66 \times (6 + 6 + 6) - 6)/6.$
$198 = 6 \times 6 \times 66/(6 + 6).$
$199 = 6 \times 6 \times 6 - 6 - 66/6.$
$200 = 6 \times 6 \times 6 - 6 - (66 - 6)/6.$
$201 = 6 \times (6 \times 66 + 6)/(6 + 6).$
$202 = 6 \times 6 \times 6 - 6 - 6 - (6 + 6)/6.$
$203 = 6 \times 6 \times 6 - 6 - 6 - 6/6.$
$204 = 6 \times 6 \times 6 - 6 - 6.$
$205 = 6 \times 6 \times 6 - 66/6.$
$206 = 6 \times 6 \times 6 - (66 - 6)/6.$
$207 = 6 + 6 \times (6 \times 66 + 6)/(6 + 6).$
$208 = 6 \times 6 \times 6 - 6 - (6 + 6)/6.$
$209 = 6 \times 6 \times 6 - 6 - 6/6.$
$210 = 6 \times 6 \times 6 - 6.$
$211 = 6 \times 6 \times 6 - 6 + 6/6.$
$212 = 6 \times 6 \times 6 - 6 + (6 + 6)/6.$
$213 = 6 \times 6 \times 6 - 6 \times 6/(6 + 6).$
$214 = 6 \times 6 \times 6 - (6 + 6)/6.$
$215 = 6 \times 6 \times 6 - 6/6.$
$216 = 6 \times 6 \times 6.$
$217 = 6 \times 6 \times 6 + 6/6.$
$218 = 6 \times 6 \times 6 + (6 + 6)/6.$
$219 = 6 \times 6 \times 6 + 6 \times 6/(6 + 6).$
$220 = 6 + 6 \times 6 \times 6 - (6 + 6)/6.$
$221 = 6 + 6 \times 6 \times 6 - 6/6.$
$222 = 6 + 6 \times 6 \times 6.$
$223 = 6 + 6 \times 6 \times 6 + 6/6.$
$224 = 6 + 6 \times 6 \times 6 + (6 + 6)/6.$
$225 = 6 \times 6 \times 6 + 6 + 6 \times 6/(6 + 6).$
$226 = 6 \times 6 \times 6 + (66 - 6)/6.$
$227 = 6 \times 66 + 6 \times 6/6.$
$228 = 6 \times 6 \times 6 + 6 + 6.$
$229 = 6 \times 6 \times 6 + 6 + 6 + 6/6.$
$230 = 6 \times 6 \times 6 + 6 + 6 + (6 + 6)/6.$
$231 = 66 \times (6 \times 6 + 6)/(6 + 6).$
$232 = 6 \times 6 \times 6 + 6 + (66 - 6)/6.$
$233 = 6 \times 6 \times 6 + 6 + 66/6.$
$234 = 6 \times 6 \times 6 + 6 + 6 + 6.$
$235 = 6 \times 6 \times 6 + 6 + 6 + 6 + 6/6.$
$236 = 66 \times 66/(6 + 6 + 6) - 6.$
$237 = 66 \times (6 \times 6 + 6)/(6 + 6) + 6.$
$238 = 6 \times 6 \times 6 + (66 + 66)/6.$
$239 = 6 \times 6 \times 6 + 6 + 6 + 66/6.$
$240 = 6 \times (6 \times 6 + 6) - 6 - 6.$
$241 = 6 \times (6 \times 6 + 6) - 66/6.$
$242 = 66 \times 66/(6 + 6 + 6).$
$243 = (6 \times 6/(6 + 6))^{(6 - 6/6)}.$
$244 = 6 \times 6 \times 6 - 6 + ((6 + 6)/6)^6.$
$245 = (6 + 6/6) \times (6 \times 6 - 6/6).$
$246 = 6 \times (6 \times 6 + 6) - 6.$
$247 = 6 \times (6 \times 6 + 6) - 6 + 6/6.$

$248 = 66 \times 66/(6 + 6 + 6) + 6.$
$249 = (6 \times 6/(6 + 6))^{(6 - 6/6)} + 6.$
$250 = 6 \times (6 \times 6 + 6) - (6 + 6)/6.$
$251 = 6 \times (6 \times 6 + 6) - 6/6.$
$252 = 6 \times (6 \times 6 + 6).$
$253 = 6 \times (6 \times 6 + 6) + 6/6.$
$254 = 6 \times (6 \times 6 + 6) + (6 + 6)/6.$
$255 = 6 \times (6 \times 6 + 6) + 6 \times 6/(6 + 6).$
$256 = ((6 + 6)/6)^{(6+(6+6)/6)}.$
$257 = 6 \times (6 \times 6 + 6) + 6 - 6/6.$
$258 = 6 \times (6 \times 6 + 6) + 6.$
$259 = 6 \times (6 \times 6 + 6) + 6 + 6/6.$
$260 = 6 \times (6 \times 6 + 6) + 6 + (6 + 6)/6.$
$261 = 6 \times (6 \times 6 + 6) + 6 + 6 \times 6/(6 + 6).$
$262 = ((6 + 6)/6)^{(6+(6+6)/6)} + 6.$
$263 = 6 \times (6 \times 6 + 6) + 66/6.$
$264 = 6 \times (6 \times 6 + 6) + 6 + 6.$
$265 = 6 \times (6 \times 6 + 6) + 6 + 6 + 6/6.$
$266 = (6 + 6/6) \times (6 \times 6 + (6 + 6)/6).$
$267 = 6 \times 666/(6 + 6) - 66.$
$268 = (66 + 6/6) \times (6 - (6 + 6)/6).$
$269 = 6 \times (6 \times 6 + 6) + 6 + 66/6.$
$270 = 666 - 6 \times 66.$
$271 = 66 + 6 \times 6 \times 6 - 66/6.$
$272 = (6+6/6) \times (6 \times 6 + (6+6)/6) + 6.$
$273 = 6 - 66 + 6 \times 666/(6 + 6).$
$274 = 6 \times 6 \times 6 - 6 + ((6 + 6)/6)^6.$
$275 = 66 + 6 \times 6 \times 6 - 6 - 6/6.$
$276 = 66 + 6 \times 6 \times 6 - 6.$
$277 = 66 + 6 \times 6 \times 6 - 6 + 6/6.$
$278 = 66 + 6 \times 6 \times 66/(6 + 6 + 6).$
$279 = 6 \times 66 - 6 - 666/6.$
$280 = 6 \times 6 \times 6 + ((6 + 6)/6)^6.$
$281 = 66 + 6 \times 6 \times 6 - 6/6.$
$282 = 66 + 6 \times 6 \times 6.$
$283 = 66 + 6 \times 6 \times 6 + 6/6.$
$284 = 66 + 6 \times 6 \times 6 + (6 + 6)/6.$
$285 = 6 \times 66 - 666/6.$
$286 = 6 \times 6 \times 6 + ((6 + 6)/6)^6 + 6.$
$287 = 6 \times (6 \times 6 + 6 + 6) - 6/6.$
$288 = 6 \times (6 \times 6 + 6 + 6).$
$289 = 6 \times (6 \times 6 + 6 + 6) + 6/6.$
$290 = 6 \times (6 \times 6 + 6 + 6) + (6 + 6)/6.$
$291 = 6 + 6 \times 66 - 666/6.$
$292 = 6 \times 6 \times 6 + 6 + 6 + ((6+6)/6)^6.$
$293 = 6 \times (6 \times 6 + 6 + 6) + 6 - 6/6.$
$294 = 6 \times (6 \times 6 + 6 + 6) + 6.$
$295 = 6 \times (6 \times 6 + 6 + 6) + 6 + 6/6.$
$296 = (6 + (6 + 6)/6) \times (6 \times 6 + 6/6).$
$297 = 6 \times 6 \times 66/(6 + (6 + 6)/6).$
$298 = 6 \times (6 \times 6 + 6 + 6) + (66 - 6)/6.$
$299 = 6 \times (6 \times 6 + 6 + 6) + 66/6.$
$300 = (66 - 6) \times (6 - 6/6).$
$301 = (66 - 6) \times (6 - 6/6) + 6/6.$
$302 = (6+(6+6)/6) \times (6 \times 6 + 6/6) + 6.$
$303 = 6 \times 6 \times 66/(6 + (6 + 6)/6) + 6.$
$304 = (6 + (6 + 6)/6) \times (6 \times 6 + (6 + 6)/6).$
$305 = (6 - 6/6) \times (66 - 6 + 6/6).$
$306 = (66 - 6) \times (6 - 6/6) + 6.$
$307 = (66 - 6) \times (6 - 6/6) + 6 + 6/6.$
$308 = 66 + 66 \times 66/(6 + 6 + 6).$
$309 = 66 + (6 \times 6/(6 + 6))^{(6 - 6/6)}.$
$310 = (6 - 6/6) \times (66 - 6 + (6 + 6)/6).$
$311 = (6 - 6/6) \times (66 - 6 + 6/6) + 6.$
$312 = 6 \times (((6 + 6)/6)^6 - 6 - 6).$

$313 = 6 \times (66 - 6 - 6) - 66/6.$
$314 = (6 - 6/6) \times ((6 + 6)/6)^6 - 6.$
$315 = 6 \times (666 - 6 \times 6)/(6 + 6).$
$316 = 6 \times (6 \times 6 + 6) + ((6 + 6)/6)^6.$
$317 = 66 + 6 \times (6 \times 6 + 6) - 6/6.$
$318 = 66 + 6 \times (6 \times 6 + 6).$
$319 = 66 + 6 \times (6 \times 6 + 6) + 6/6.$
$320 = (6 - 6/6) \times ((6 + 6)/6)^6.$
$321 = 6 \times 6 \times 6 - 6 + 666/6.$
$322 = 6 \times (66 - 6 - 6) - (6 + 6)/6.$
$323 = 6 \times (66 - 6 - 6) - 6/6.$
$324 = 6 \times (66 - 6 - 6).$
$325 = 6 \times (66 - 6 - 6) + 6/6.$
$326 = (6 - 6/6) \times ((6 + 6)/6)^6 + 6.$
$327 = 6 \times 66 + 6 \times 66/6.$
$328 = 6 \times 6 \times 6 + (666 + 6)/6.$
$329 = 6 \times 66 - 66 - 6/6.$
$330 = 6 \times 66 - 66.$
$331 = 6 \times 66 - 66 + 6/6.$
$332 = 6 \times 66 - ((6 + 6)/6)^6.$
$333 = 6 \times 666/(6 + 6).$
$334 = 6 \times 666/(6 + 6) + 6/6.$
$335 = (6 - 6/6) \times (66 + 6/6).$
$336 = 66 \times (6 - 6/6) + 6.$
$337 = 66 \times (6 - 6/6) + 6 + 6/6.$
$338 = 6 \times 66 + 6 - ((6 + 6)/6)^6.$
$339 = 6 \times 666/(6 + 6) + 6.$
$340 = (6 - 6/6) \times (66 + (6 + 6)/6).$
$341 = (6 - 6/6) \times (66 + 6/6) + 6.$
$342 = 66 \times (6 - 6/6) + 6 + 6.$
$343 = (6 + 6/6)^{(6 \times 6/(6 + 6))}.$
$344 = 6 \times 66 + 6 + 6 - ((6 + 6)/6)^6.$
$345 = 6 \times 666/(6 + 6) + 6 + 6.$
$346 = (6 - 6/6) \times (66 + (6 + 6)/6) + 6.$
$347 = 6 \times (66 - 6) - 6 - 6 - 6/6.$
$348 = 6 \times (66 - 6) - 6 - 6.$
$349 = 6 \times (66 - 6) - 66/6.$
$350 = (6 - 6/6) \times (6 + ((6 + 6)/6)^6).$
$351 = 6 \times (666 + 6 \times 6)/(6 + 6).$
$352 = 6 \times (66 - 6) - 6 - (6 + 6)/6.$
$353 = 6 \times (66 - 6) - 6 - 6/6.$
$354 = 6 \times (66 - 6) - 6.$
$355 = 6 \times (66 - 6) - 6 + 6/6.$
$356 = 6 \times (66 - 6) - 6 + (6 + 6)/6.$
$357 = 66 \times 66/(6 + 6) - 6.$
$358 = 6 \times (66 - 6) - (6 + 6)/6.$
$359 = 6 \times (66 - 6) - 6/6.$
$360 = 6 \times (66 - 6).$
$361 = 6 \times (66 - 6) + 6/6.$
$362 = 6 \times (66 - 6) + (6 + 6)/6.$
$363 = 66 \times 66/(6 + 6).$
$364 = 6 \times (66 - 6) + 6 - (6 + 6)/6.$
$365 = 6 \times (66 - 6) + 6 - 6/6.$
$366 = 6 \times (66 - 6) + 6.$
$367 = 6 \times (66 - 6) + 6 + 6/6.$
$368 = 6 \times (66 - 6) + 6 + (6 + 6)/6.$
$369 = 66 \times 66/(6 + 6) + 6.$
$370 = 6 \times (66 - 6) + (66 - 6)/6.$
$371 = 6 \times (66 - 6) + 66/6.$
$372 = 6 \times (66 - 6) + 6 + 6.$
$373 = 6 \times (66 - 6) + 6 + 6 + 6/6.$
$374 = 66 \times (6 \times 6 - (6 + 6)/6)/6.$
$375 = 66 \times 66/(6 + 6) + 6 + 6.$
$376 = 6 \times (66 - 6) + 6 + (66 - 6)/6.$
$377 = 6 \times (66 - 6) + 6 + 66/6.$
$378 = 6 \times 66 - 6 - 6 - 6.$

$379 = 6 \times 66 - 6 - 66/6.$
$380 = 6 \times 66 - 6 - (66 - 6)/6.$
$381 = 66 \times 66/(6 + 6) + 6 + 6 + 6.$
$382 = 6 \times 66 - 6 - 6 - (6 + 6)/6.$
$383 = 6 \times 66 - 6 - 6 - 6/6.$
$384 = 6 \times ((6 + 6)/6)^6.$
$385 = 6 \times 66 - 66/6.$
$386 = 6 \times 66 - (66 - 6)/6.$
$387 = 6 \times 66 - (66 - 6 - 6)/6.$
$388 = 6 \times 66 - 6 - (6 + 6)/6.$
$389 = 6 \times 66 - 6 - 6/6.$
$390 = 6 \times 66 - 6.$
$391 = 6 \times 66 - 6 + 6/6.$
$392 = 6 \times 66 - 6 + (6 + 6)/6.$
$393 = 6 \times 66 - 6 \times 6/(6 + 6).$
$394 = 6 \times 66 - (6 + 6)/6.$
$395 = 6 \times 66 - 6/6.$
$396 = 6 \times 66.$
$397 = 6 \times 66 + 6/6.$
$398 = 6 \times 66 + (6 + 6)/6.$
$399 = 6 \times 66 + 6 \times 6/(6 + 6).$
$400 = 6 \times 66 + 6 - (6 + 6)/6.$
$401 = 6 \times 66 + 6 - 6/6.$
$402 = 6 \times 66 + 6.$
$403 = 6 + 6 \times 66 + 6/6.$
$404 = 6 + 6 \times 66 + (6 + 6)/6.$
$405 = 6 + 6 \times 66 + 6 \times 6/(6 + 6).$
$406 = 6 \times 66 + (66 - 6)/6.$
$407 = 6 \times 66 + 66/6.$
$408 = 6 \times 66 + 6 + 6.$
$409 = 6 \times 66 + 6 + 6 + 6/6.$
$410 = 6 \times 66 + 6 + 6 + (6 + 6)/6.$
$411 = 6 \times 66 + 6 + 6 + 6 \times 6/(6 + 6).$
$412 = 6 \times 66 + 6 + (66 - 6)/6.$
$413 = 6 \times 66 + 6 + 66/6.$
$414 = 6 \times 66 + 6 + 6 + 6.$
$415 = 6 \times 66 + 6 + 6 + 6 + 6/6.$
$416 = 6 \times 66 + 6 + 6 + 6 + (6 + 6)/6.$
$417 = 6 \times (66 + (6 \times 6 + 6)/(6 + 6)).$
$418 = 6 \times 66 + (66 + 66)/6.$
$419 = 6 \times 66 + 6 + 6 + 66/6.$
$420 = 6 \times (6 + ((6 + 6)/6)^6).$
$421 = 6 \times (66 + 6) - 66/6.$
$422 = 6 \times (66 + 6) + (6 - 66)/6.$
$423 = 66 - 6 + 66 \times 66/(6 + 6).$
$424 = 6 \times (66 - 6) + ((6 + 6)/6)^6.$
$425 = 6 \times (66 + 6) - 6 - 6/6.$
$426 = 6 \times (66 + 6) - 6.$
$427 = 6 \times (66 + 6) - 6 + 6/6.$
$428 = 6 \times (66 + 6) - 6 + (6 + 6)/6.$
$429 = 66 + 66 \times 66/(6 + 6).$
$430 = 6 \times (66 + 6) - (6 + 6)/6.$
$431 = 6 \times (66 + 6) - 6/6.$
$432 = 6 \times (66 + 6).$
$433 = 6 \times (66 + 6) + 6/6.$
$434 = 6 \times (66 + 6) + (6 + 6)/6.$
$435 = 6 \times (66 + 6) + 6 \times 6/(6 + 6).$
$436 = 6 \times (66 + 6) + 6 - (6 + 6)/6.$
$437 = 6 \times (66 + 6) + 6 - 6/6.$
$438 = 6 \times (66 + 6) + 6.$
$439 = 6 \times (66 + 6) + 6 + 6/6.$
$440 = 6 \times (66 + 6) + 6 + (6 + 6)/6.$
$441 = 6 \times (66 + 6) + 6 + 6 \times 6/(6 + 6).$
$442 = 6 \times (66 + 6) + (66 - 6)/6.$
$443 = 6 \times (66 + 6) + 66/6.$
$444 = 6 \times (66 + 6) + 6 + 6.$

$445 = 6 \times (66 + 6) + 6 + 6 + 6/6.$
$446 = 6 \times (66 + 6) + 6 + 6 + (6 + 6)/6.$
$447 = (6 + 6/6) \times ((6 + 6)/6)^6 - 6/6.$
$448 = (6 + 6/6) \times ((6 + 6)/6)^6.$
$449 = 6 \times (66 + 6) + 6 + 66/6.$
$450 = 666 - 6 \times 6 \times 6.$
$451 = 66 + 6 \times 66 - 66/6.$
$452 = 66 + 6 \times 66 - (66 - 6)/6.$
$453 = 66 + 6 \times 66 - (66 - 6 - 6)/6.$
$454 = (6 + 6/6) \times ((6 + 6)/6)^6 + 6.$
$455 = (6/6 + 6) \times (66 - 6/6).$
$456 = 66 + 6 \times 66 - 6.$
$457 = 66 + 6 \times 66 - 6 + 6/6.$
$458 = 66 + 6 \times 66 - 6 + (6 + 6)/6.$
$459 = 66 + 6 \times 66 - 6 \times 6/(6 + 6).$
$460 = 6 \times 66 + ((6 + 6)/6)^6.$
$461 = 66 + 6 \times 66 - 6/6.$
$462 = 66 + 6 \times 66.$
$463 = 66 + 6 \times 66 + 6/6.$
$464 = 66 + 6 \times 66 + (6 + 6)/6.$
$465 = 66 + 6 \times 66 + 6 \times 6/(6 + 6).$
$466 = 6 \times 66 + 6 + ((6 + 6)/6)^6.$
$467 = 6 \times (66 + 6 + 6) - 6/6.$
$468 = 6 \times (66 + 6 + 6).$
$469 = 6 \times (66 + 6 + 6) + 6/6.$
$470 = 6 \times (66 + 6 + 6) + (6 + 6)/6.$
$471 = 6 \times (66 - 6) + 666/6.$
$472 = 6 \times 66 + 6 + 6 + ((6 + 6)/6)^6.$
$473 = 6 \times (66 + 6 + 6) + 6 - 6/6.$
$474 = 6 \times (66 + 6 + 6) + 6.$
$475 = 6 \times (66 + 6 + 6) + 6 + 6/6.$
$476 = (6 + 6/6) \times (66 + (6 + 6)/6).$
$477 = 6 \times (66 - 6) + 6 + 666/6.$
$478 = 6 \times (66 + 6 + 6) + (66 - 6)/6.$
$479 = 6 \times (66 + 6 + 6) + 66/6.$
$480 = 6 \times (66 + 6 + 6) + 6 + 6.$
$481 = (6 + 6 + 6/6) \times (6 \times 6 + 6/6).$
$482 = (6 + 6/6) \times (66 + (6 + 6)/6) + 6.$
$483 = (6 + 6/6) \times (66 + 6 \times 6/(6 + 6)).$
$484 = ((66 + 66)/6)^{((6 + 6)/6)}.$
$485 = 6 \times (66 + 6 + 6) + 6 + 66/6.$
$486 = 666 - 6 \times (6 \times 6 - 6).$
$487 = (6 + 6 + 6/6) \times (6 \times 6 + 6/6) + 6.$
$488 = (6 + (6 + 6)/6) \times (66 - 6 + 6/6).$
$489 = 666 - 66 - 666/6.$
$490 = (6 + 6/6) \times (6 + ((6 + 6)/6)^6).$
$491 = 6 \times 6 + (6 + 6/6) \times (66 - 6/6).$
$492 = 66 + 6 \times (66 + 6) - 6.$
$493 = (6 + 6) \times (6 \times 6 + 6) - 66/6.$
$494 = (6 + 6) \times (6 \times 6 + 6) - (66 - 6)/6.$
$495 = 6 \times 66 - 6 - 6 + 666/6.$
$496 = ((6 + 6)/6)^6 + 6 \times (66 + 6).$
$497 = 66 + 6 \times (66 + 6) - 6/6.$
$498 = 66 + 6 \times (66 + 6).$
$499 = 66 + 6 \times (66 + 6) + 6/6.$
$500 = 66 + 6 \times (66 + 6) + (6 + 6)/6.$
$501 = 6 \times 66 - 6 + 666/6.$
$502 = (6 + 6) \times (6 \times 6 + 6) - (6 + 6)/6.$
$503 = (6 + 6) \times (6 \times 6 + 6) - 6/6.$
$504 = (6 + 6) \times (6 \times 6 + 6).$
$505 = (6 + 6) \times (6 \times 6 + 6) + 6/6.$
$506 = (6 + 6) \times (6 \times 6 + 6) + (6 + 6)/6.$
$507 = 6 \times 66 + 666/6.$
$508 = 6 \times 66 + (666 + 6)/6.$
$509 = (6 + 6) \times (6 \times 6 + 6) + 6 - 6/6.$
$510 = (6 + 6) \times (6 \times 6 + 6) + 6.$

$511 = (6+6) \times (6 \times 6 + 6) + 6 + 6/6.$
$512 = ((6+6)/6)^{(6+6 \times 6/(6+6))}.$
$513 = 6 \times 66 + 6 + 666/6.$
$514 = 6 \times 66 + 6 + (666+6)/6.$
$515 = (6+6) \times (6 \times 6 + 6) + 66/6.$
$516 = (6+6) \times (6 \times 6 + 6) + 6 + 6.$
$517 = 66 \times (66 + 6 \times 6/6)/6.$
$518 = ((6+6)/6)^{(6+6 \times 6/(6+6))} + 6.$
$519 = 6 \times 66 + 6 + 6 + 666/6.$
$520 = (6 + (6+6)/6) \times (66 - 6/6).$
$521 = (6+6) \times (6 \times 6 + 6) + 6 + 66/6.$
$522 = 666 - (6+6) \times (6+6).$
$523 = 6 + 66 \times (66 + 6 \times 6/6)/6.$
$524 = 6 \times 66 + ((6+6)/6)^{(6+6/6)}.$
$525 = (6 - 6/6) \times (666/6 - 6).$
$526 = (6 + (6+6)/6) \times (66 - 6/6) + 6.$
$527 = 66 \times (6 + (6+6)/6) - 6/6.$
$528 = 66 \times (6 + (6+6)/6).$
$529 = 66 \times (6 + (6+6)/6) + 6/6.$
$530 = 66 \times (6 + (6+6)/6) + (6+6)/6.$
$531 = (6 - 6/6) \times (666/6 - 6) + 6.$
$532 = (6/6 + 6) \times (6 + 6 + ((6+6)/6)^6).$
$533 = 66 \times (6 + (6+6)/6) + 6 - 6/6.$
$534 = 66 \times (6 + (6+6)/6) + 6.$
$535 = 66 \times (6 + (6+6)/6) + 6 + 6/6.$
$536 = (6 + (6+6)/6) \times (66 + 6/6).$
$537 = 6 \times (66 + 6) - 6 + 666/6.$
$538 = 666 - ((6+6)/6)^{(6+6/6)}.$
$539 = (6 + 6/6) \times (66 + 66/6).$
$540 = (6+6+6) \times (6 \times 6 - 6).$
$541 = (6+6+6) \times (6 \times 6 - 6) + 6/6.$
$542 = (6 + (6+6)/6) \times (66 + 6/6) + 6.$
$543 = 6 \times (66 + 6) + 666/6.$
$544 = 666 - (666 + 66)/6.$
$545 = (6 + 6/6) \times (66 + 66/6) + 6.$
$546 = (6+6+6) \times (6 \times 6 - 6) + 6.$
$547 = (6+6+6) \times (6 \times 6 - 6) + 6 + 6/6.$
$548 = 666 - 6 - (666 + 6)/6.$
$549 = 666 - 6 - 666/6.$
$550 = (6 - 6/6) \times (666 - 6)/6.$
$551 = (6+6+6) \times (6 \times 6 - 6) + 66/6.$
$552 = (6+6+6) \times (6 \times 6 - 6) + 6 + 6.$
$553 = (6 + 6/6) \times (66 + 6 + 6 + 6/6).$
$554 = 666 - (666 + 6)/6.$
$555 = 666 - 666/6.$
$556 = (6666 + 6)/(6 + 6).$
$557 = (6666 + 6)/(6 + 6) + 6/6.$
$558 = 666 - 6 \times (6 + 6 + 6).$
$559 = 666 - 6 \times (6 + 6 + 6) + 6/6.$
$560 = (6 - 6/6) \times (666 + 6)/6.$
$561 = 666 \times (6 - 6/6)/6 + 6.$
$562 = (6666 + 6)/(6 + 6) + 6.$
$563 = 666 - 66 - 6 \times 6 - 6/6.$
$564 = (6+6) \times (66 + 6 \times 6/6).$
$565 = (6+6) \times (66 + 6 \times 6/6) + 6/6.$
$566 = (6 - 6/6) \times (666 + 6)/6 + 6.$
$567 = 666 \times (6 - 6/6)/6 + 6 + 6.$
$568 = (6666 + 6)/(6 + 6) + 6 + 6.$
$569 = 66 + (6+6) \times (6 \times 6 + 6) - 6/6.$
$570 = 66 + (6+6) \times (6 \times 6 + 6).$
$571 = 66 + (6+6) \times (6 \times 6 + 6) + 6/6.$
$572 = 66 \times (((6+6)/6)^6 - 6 - 6)/6.$
$573 = 66 + 6 \times 66 + 666/6.$
$574 = 6 \times (66 + 6 \times 6 - 6) - (6+6)/6.$
$575 = 6 \times (66 + 6 \times 6 - 6) - 6/6.$
$576 = 6 \times (66 + 6 \times 6 - 6).$

$577 = 6 \times (66 + 6 \times 6 - 6) + 6/6.$
$578 = 6 \times (66 + 6 \times 6 - 6) + (6+6)/6.$
$579 = 6 \times 66 + 6 \times 6 \times 66/(6+6).$
$580 = (6 - 6/6) \times (6 + (666 - 6)/6).$
$581 = 6 \times (66 + 6 \times 6 - 6) + 6 - 6/6.$
$582 = 6 \times (66 + 6 \times 6 - 6) + 6.$
$583 = 6 \times (66 + 6 \times 6 - 6) + 6 + 6/6.$
$584 = (6 + (6+6)/6) \times (66 + 6 + 6/6).$
$585 = (6 - 6/6) \times (6 + 666/6).$
$586 = (((6+6)/6)^{(6+6)} + 6)/(6 + 6/6).$
$587 = 666 - 66 - 6 - 6 - 6/6.$
$588 = 666 - 66 - 6 - 6.$
$589 = 666 - 66 - 66/6.$
$590 = 666 - 66 - (66 - 6)/6.$
$591 = (6 - 6/6) \times (6 + 666/6) + 6.$
$592 = 6 \times 6 + (6666 + 6)/(6 + 6).$
$593 = 666 - 66 - 6 - 6/6.$
$594 = 666 - 66 - 6.$
$595 = 666 - 66 - 6 + 6/6.$
$596 = 666 - 6 - ((6+6)/6)^6.$
$597 = 666 - 66 - 6 \times 6/(6+6).$
$598 = 666 - 66 - (6+6)/6.$
$599 = 666 - 66 - 6/6.$
$600 = 666 - 66.$
$601 = 666 - 66 + 6/6.$
$602 = 666 - ((6+6)/6)^6.$
$603 = 666 - ((6+6)/6)^6 + 6/6.$
$604 = 666 - 66 + 6 - (6+6)/6.$
$605 = 666 - 66 + 6 - 6/6.$
$606 = 666 - 66 + 6.$
$607 = 666 - 66 + 6 + 6/6.$
$608 = 666 + 6 - ((6+6)/6)^6.$
$609 = 6 \times (66 + 6 \times 6) - 6 \times 6/(6+6).$
$610 = 6 \times (66 + 6 \times 6) - (6+6)/6.$
$611 = 6 \times (66 + 6 \times 6) - 6/6.$
$612 = 6 \times (66 + 6 \times 6).$
$613 = 6 \times (66 + 6 \times 6) + 6/6.$
$614 = 6 \times (66 + 6 \times 6) + (6+6)/6.$
$615 = (66 \times 66 - 666)/6.$
$616 = 6 \times (66 + 6 \times 6) + 6 - (6+6)/6.$
$617 = 6 \times (66 + 6 \times 6) + 6 - 6/6.$
$618 = 6 \times (66 + 6 \times 6) + 6.$
$619 = 6 \times (66 + 6 \times 6) + 6 + 6/6.$
$620 = 6 \times (66 + 6 \times 6) + 6 + (6+6)/6.$
$621 = 6 + (66 \times 66 - 666)/6.$
$622 = 66 + (6666 + 6)/(6 + 6).$
$623 = 6 \times (66 + 6 \times 6) + 66/6.$
$624 = 666 - 6 \times 6 - 6.$
$625 = (6 - 6/6)^{(6 - (6+6)/6)}.$
$626 = (6 - 6/6)^{(6 - (6+6)/6)} + 6/6.$
$627 = 666 - 6 - 6 \times 66/(6+6).$
$628 = 666 - 6 \times 6 - (6+6)/6.$
$629 = 666 - 6 \times 6 - 6/6.$
$630 = 666 - 6 \times 6.$
$631 = 666 - 6 \times 6 + 6/6.$
$632 = 666 - 6 \times 6 + (6+6)/6.$
$633 = 666 - 6 \times 66/(6+6).$
$634 = 666 - 6 \times 6 + 6 - (6+6)/6.$
$635 = 666 - 6 \times 6 + 6 - 6/6.$
$636 = 666 - 6 \times 6 + 6.$
$637 = 666 - 6 \times 6 + 6 + 6/6.$
$638 = 66 \times (((6+6)/6)^6 - 6)/6.$
$639 = 666 - 6 \times 66/(6+6) + 6.$
$640 = (66 - 6) \times ((6+6)/6)^6/6.$
$641 = 666 - 66 + 6 \times 6/6.$
$642 = 6 \times 6 \times (6 + 6 + 6) - 6.$

$643 = 6 \times 6 \times (6 + 6 + 6) - 6 + 6/6.$
$644 = 666 - (66 + 66)/6.$
$645 = 6 \times (6 \times 6 \times 6 \times 6 - 6)/(6+6).$
$646 = 6 \times 6 \times (6 + 6 + 6) - (6+6)/6.$
$647 = 6 \times 6 \times (6 + 6 + 6) - 6/6.$
$648 = 6 \times 6 \times (6 + 6 + 6).$
$649 = 666 - 6 - 66/6.$
$650 = 666 - 6 - (66 - 6)/6.$
$651 = 6 \times (6 \times 6 \times 6 \times 6 + 6)/(6+6).$
$652 = 666 - 6 - 6 - (6+6)/6.$
$653 = 666 - 6 - 6 - 6/6.$
$654 = 666 - 6 - 6.$
$655 = 666 - 66/6.$
$656 = 666 - (66 - 6)/6.$
$657 = 666 - (66 - 6 - 6)/6.$
$658 = 666 - 6 - (6+6)/6.$
$659 = 666 - 6 - 6/6.$
$660 = 666 - 6.$
$661 = 666 - 6 + 6/6.$
$662 = 666 - 6 + (6+6)/6.$
$663 = 666 - 6 \times 6/(6+6).$
$664 = 666 - (6+6)/6.$
$665 = 666 - 6/6.$
$666 = 666.$
$667 = 666 + 6/6.$
$668 = 666 + (6+6)/6.$
$669 = 666 + 6 \times 6/(6+6).$
$670 = 666 + 6 - (6+6)/6.$
$671 = 666 + 6 - 6/6.$
$672 = 666 + 6.$
$673 = 666 + 6 + 6/6.$
$674 = 666 + 6 + (6+6)/6.$
$675 = 666 + 6 + 6 \times 6/(6+6).$
$676 = 666 + (66 - 6)/6.$
$677 = 666 + 66/6.$
$678 = 666 + 6 + 6.$
$679 = 666 + 6 + 6 + 6/6.$
$680 = 666 + 6 + 6 + (6+6)/6.$
$681 = 66 \times (6 + 6) - 666/6.$
$682 = 666 + 6 + (66 - 6)/6.$
$683 = 666 + 6 + 66/6.$
$684 = 666 + 6 + 6 + 6.$
$685 = 666 + 6 + 6 + 6 + 6/6.$
$686 = 666 + 6 + 6 + 6 + (6+6)/6.$
$687 = (6 \times 6/(6+6))^6 - 6 \times 6 - 6.$
$688 = 666 + (66 + 66)/6.$
$689 = 666 + 6 + 6 + 66/6.$
$690 = 666 + 6 + 6 + 6 + 6.$
$691 = 66 + 6 \times 66 - 66/6.$
$692 = 66 + 6 \times 66 - (66 - 6)/6.$
$693 = (6 \times 6/(6+6))^6 - 6 \times 6.$
$694 = 666 + 6 + (66 + 66)/6.$
$695 = 66 + 6 \times 66 - 6 - 6/6.$
$696 = 66 + 6 \times 66 - 6.$
$697 = 66 + 6 \times 66 - 6 + 6/6.$
$698 = 66 \times ((6+6)/6)^6/6 - 6.$
$699 = (6 \times 6/(6+6))^6 - 6 \times 6 + 6.$
$700 = 66 + 6 \times 66 - (6+6)/6.$
$701 = 66 + 6 \times 66 - 6/6.$
$702 = 66 + 6 \times 66.$
$703 = 66 + 6 \times 66 + 6/6.$
$704 = 66 \times ((6+6)/6)^6/6.$
$705 = (66 \times ((6+6)/6)^6 + 6)/6.$
$706 = 666 + 6 \times 6 + 6 - (6+6)/6.$
$707 = 666 + 6 \times 6 + 6 - 6/6.$
$708 = 666 + 6 \times 6 + 6.$

$709 = 666 + 6 \times 6 + 6 + 6/6.$
$710 = 66 \times ((6 + 6)/6)^6/6 + 6.$
$711 = (6 \times 6/(6 + 6))^6 - 6 - 6 - 6.$
$712 = 66 + 6 \times 66 + (66 - 6)/6.$
$713 = 66 + 6 \times 66 + 66/6.$
$714 = (6 + 6) \times (66 - 6) - 6.$
$715 = 66 \times (66 - 6/6)/6.$
$716 = (66 \times (66 - 6/6) + 6)/6.$
$717 = (6 \times 6/(6 + 6))^6 - 6 - 6.$
$718 = (6 + 6) \times (66 - 6) - (6 + 6)/6.$
$719 = (6 + 6) \times (66 - 6) - 6/6.$
$720 = (6 + 6) \times (66 - 6).$
$721 = (6 + 6) \times (66 - 6) + 6/6.$
$722 = (6 + 6) \times (66 - 6) + (6 + 6)/6.$
$723 = (6 \times 6/(6 + 6))^6 - 6.$
$724 = (66 \times 66 - 6 - 6)/6.$
$725 = (66 \times 66 - 6)/6.$
$726 = 66 \times 66/6.$
$727 = (66 \times 66 + 6)/6.$
$728 = (6 \times 6/(6 + 6))^6 - 6/6.$
$729 = (6 \times 6/(6 + 6))^6.$
$730 = (6 \times 6/(6 + 6))^6 + 6/6.$
$731 = 6 + (66 \times 66 - 6)/6.$
$732 = 66 + 666.$
$733 = (66 \times 66 + 6)/6 + 6.$
$734 = (66 \times 66 + 6 + 6)/6 + 6.$
$735 = (6 \times 6/(6 + 6))^6 + 6.$
$736 = (6 \times 6/(6 + 6))^6 + 6 + 6/6.$
$737 = 66 \times (66 + 6/6)/6.$
$738 = 666 + 66 + 6.$
$739 = (66 \times 66 + 6)/6 + 6 + 6.$
$740 = (6 \times 6/(6 + 6))^6 + 66/6.$
$741 = (6 \times 6/(6 + 6))^6 + 6 + 6.$
$742 = (6 \times 6/(6 + 6))^6 + 6 + 6 + 6/6.$
$743 = 66 \times (66 + 6/6)/6 + 6.$
$744 = 666 + 66 + 6 + 6.$
$745 = (66 \times 66 + 6)/6 + 6 + 6 + 6.$
$746 = (6 \times 6/(6 + 6))^6 + 6 + 66/6.$
$747 = (6 \times 6/(6 + 6))^6 + 6 + 6 + 6.$
$748 = 66 \times (66 + (6 + 6)/6)/6.$
$749 = 66 \times (66 + 6/6)/6 + 6 + 6.$
$750 = 66 \times (6 + 6) - 6 \times 6 - 6.$
$751 = 66 + 6 \times 6 \times (66 - 6/6)/6.$
$752 = (6 \times 6/(6 + 6))^6 + 6 + 6 + 66/6.$
$753 = (6 \times 6/(6 + 6))^6 + 6 + 6 + 6 + 6.$
$754 = 66 \times (66 + (6 + 6)/6)/6 + 6.$
$755 = 66 \times (6 + 6) - 6 \times 6 - 6/6.$
$756 = 6 \times (66 + 66 - 6).$
$757 = 6 \times (66 + 66 - 6) + 6/6.$
$758 = 6 \times (66 + 66 - 6) + (6 + 6)/6.$
$759 = 6 \times 6 - 6 + (6 \times 6/(6 + 6))^6.$
$760 = 6 \times 6 + (66 \times 66 - 6 - 6)/6.$
$761 = 6 \times 6 + (66 \times 66 - 6)/6.$
$762 = 6 \times (66 + 66 - 6) + 6.$
$763 = 6 \times 6 + (66 \times 66 + 6)/6.$
$764 = 6 \times 6 + (6 \times 6/(6 + 6))^6 - 6/6.$
$765 = 6 \times 6 + (6 \times 6/(6 + 6))^6.$
$766 = 6 \times 6 + (6 \times 6/(6 + 6))^6 + 6/6.$
$767 = (6 + 6) \times ((6 + 6)/6)^6 - 6/6.$
$768 = (6 + 6) \times ((6 + 6)/6)^6.$
$769 = (6 + 6) \times ((6 + 6)/6)^6 + 6/6.$
$770 = (6 + 6/6) \times (666 - 6)/6.$
$771 = 666 - 6 + 666/6.$
$772 = 666 - 6 + (666 + 6)/6.$
$773 = (6 + 6) \times ((6+6)/6)^6 + 6 - 6/6.$
$774 = (6 + 6) \times ((6 + 6)/6)^6 + 6.$

$775 = 66 \times (6 + 6) - 6 - 66/6.$
$776 = 666 + (666 - 6)/6.$
$777 = 666 + 666/6.$
$778 = 666 + (666 + 6)/6.$
$779 = 66 \times (6 + 6) - 6 - 6 - 6/6.$
$780 = (6 + 6) \times (66 - 6/6).$
$781 = 66 \times (6 + 6) - 66/6.$
$782 = 66 \times (6 + 6) - (66 - 6)/6.$
$783 = 666 + 6 + 666/6.$
$784 = (6 + 6/6) \times (666 + 6)/6.$
$785 = 66 \times (6 + 6) - 6 - 6/6.$
$786 = 66 \times (6 + 6) - 6.$
$787 = 66 \times (6 + 6) - 6 + 6/6.$
$788 = 66 \times (6 + 6) - 6 + (6 + 6)/6.$
$789 = 66 - 6 + (6 \times 6/(6 + 6))^6.$
$790 = 66 \times (6 + 6) - (6 + 6)/6.$
$791 = 66 \times (6 + 6) - 6/6.$
$792 = 66 \times (6 + 6).$
$793 = 66 \times (6 + 6) + 6/6.$
$794 = 66 \times (6 + 6) + (6 + 6)/6.$
$795 = 66 + (6 \times 6/(6 + 6))^6.$
$796 = 66 \times (6 + 6) + 6 - (6 + 6)/6.$
$797 = 66 \times (6 + 6) + 6 - 6/6.$
$798 = 66 \times (6 + 6) + 6.$
$799 = 66 \times (6 + 6) + 6 + 6/6.$
$800 = 66 \times (6 + 6) + 6 + (6 + 6)/6.$
$801 = (6 \times 6/(6 + 6))^6 + 66 + 6.$
$802 = 66 \times (6 + 6) + (66 - 6)/6.$
$803 = 66 \times (6 + 6) + 66/6.$
$804 = 66 \times (6 + 6) + 6 + 6.$
$805 = 66 \times (6 + 6) + 6 + 6 + 6/6.$
$806 = 66 \times (6+6) + 6 + 6 + (6 + 6)/6.$
$807 = 66 + 6 + 6 + (6 \times 6/(6 + 6))^6.$
$808 = 66 \times (6 + 6) + 6 + (66 - 6)/6.$
$809 = 66 \times (6 + 6) + 6 + 66/6.$
$810 = 66 \times (6 + 6) + 6 + 6 + 6.$
$811 = 66 \times (6 + 6) + 6 + 6 + 6 + 6/6.$
$812 = (6 + 6/6) \times (6 + (666 - 6)/6).$
$813 = 66 + 6 \times 66 + 666/6.$
$814 = 66 \times (66 + 6 + (6 + 6)/6)/6.$
$815 = 66 \times (6 + 6) + 6 + 6 + 66/6.$
$816 = (6 + 6) \times (66 + (6 + 6)/6).$
$817 = 66 + 6 \times 6 \times (6 + 6) - 66/6.$
$818 = (((6 + 6)/6)^{(6+6)} - 6)/(6 - 6/6).$
$819 = (6 + 6/6) \times (6 + 666/6).$
$820 = 66 \times (6 + 6) + 6 + (66 + 66)/6.$
$821 = 66 + 6 \times 6 \times (6 + 6) - 6 - 6/6.$
$822 = 66 + 6 \times 6 \times (6 + 6) - 6.$
$823 = 66 + 6 \times 6 \times (6 + 6) - 6 + 6/6.$
$824 = 6 + (((6 + 6)/6)^{(6+6)} - 6)/(6 - 6/6).$
$825 = (6 + 6/6) \times (6 + 666/6) + 6.$
$826 = 66 + 6 \times 6 \times (6+6) - (6 + 6)/6.$
$827 = 66 + 6 \times 6 \times (6 + 6) - 6/6.$
$828 = 6 \times (66 + 66 + 6).$
$829 = 66 + 6 \times 6 \times (6 + 6) + 6/6.$
$830 = 66 + 6 \times 6 \times (6+6) + (6 + 6)/6.$
$831 = 66 + 6 \times 6 + (6 \times 6/(6 + 6))^6.$
$832 = (6 + 6 + 6/6) \times ((6 + 6)/6)^6.$
$833 = 66 \times (6 + 6) + 6 \times 6 + 6 - 6/6.$
$834 = 66 \times (6 + 6) + 6 \times 6 + 6.$
$835 = 66 \times (6 + 6) + 6 \times 6 + 6 + 6/6.$
$836 = (66 \times 66 + 666 - 6)/6.$
$837 = (66 \times 66 + 666)/6.$
$838 = (66 \times 66 + 666 + 6)/6.$
$839 = 66 + 6 \times 6 \times (6 + 6) + 66/6.$

$840 = (6 + 6) \times (6 + ((6 + 6)/6)^6).$
$841 = (6 \times 6 - 6 - 6/6)^{((6+6)/6)}.$
$842 = (66 \times (66 + 66/6) + 6)/6 - 6.$
$843 = (66 \times 66 + 666)/6 + 6.$
$844 = 66 \times (6+6) - 6 - 6 + ((6 + 6)/6)^6.$
$845 = (6 + 6 + 6/6) \times (66 - 6/6).$
$846 = 666 + 6 \times (6 \times 6 - 6).$
$847 = 66 \times (66 + 66/6)/6.$
$848 = (66 \times (66 + 66/6) + 6)/6.$
$849 = (66 \times 66 + 666)/6 + 6 + 6.$
$850 = 66 \times (6 + 6) - 6 + ((6 + 6)/6)^6.$
$851 = (6 + 6 + 6/6) \times (66 - 6/6) + 6.$
$852 = 66 + 66 \times (6 + 6) - 6.$
$853 = 6 \times (6 + 6) \times (6 + 6) - 66/6.$
$854 = (6 + 6/6) \times (666 + 66)/6.$
$855 = 6 \times 6 + (6 + 6/6) \times (6 + 666/6).$
$856 = 66 \times (6 + 6) + ((6 + 6)/6)^6.$
$857 = 66 + 66 \times (6 + 6) - 6/6.$
$858 = 66 + 66 \times (6 + 6).$
$859 = 66 + 66 \times (6 + 6) + 6/6.$
$860 = 66 + 66 \times (6 + 6) + (6 + 6)/6.$
$861 = 66 + (((6/((6 + 6)/6))^6) + 66).$
$862 = 6 \times (6+6) \times (6+6) - (6+6)/6.$
$863 = 6 \times (6 + 6) \times (6 + 6) - 6/6.$
$864 = 6 \times (6 + 6) \times (6 + 6).$
$865 = 6 \times (6 + 6) \times (6 + 6) + 6/6.$
$866 = 6 \times (6+6) \times (6+6) + (6+6)/6.$
$867 = 6 \times (6 + 6) \times (6 + 6) + 6 \times 6/(6 + 6).$
$868 = 6 \times (6 + 6) \times (6 + 6) + 6 - (6 + 6)/6.$
$869 = 6 \times (6 + 6) \times (6 + 6) + 6 - 6/6.$
$870 = 6 \times (6 + 6) \times (6 + 6) + 6.$
$871 = 6 \times (6 + 6) \times (6 + 6) + 6 + 6/6.$
$872 = 6 \times (6 + 6) \times (6 + 6) + 6 + (6 + 6)/6.$
$873 = (6+6) \times (6+6) + (6 \times 6/(6 + 6))^6.$
$874 = 6 \times (6+6) \times (6+6) + (66-6)/6.$
$875 = 6 \times (6 + 6) \times (6 + 6) + 66/6.$
$876 = 6 \times (6 + 6) \times (6 + 6) + 6 + 6.$
$877 = 6 \times (6+6) \times (6+6) + 6 + 6 + 6/6.$
$878 = 6 \times (6 + 6) \times (6 + 6) + 6 + 6 + (6 + 6)/6.$
$879 = (6 + 6) \times (6 + 6) + 6 + (6 \times 6/(6 + 6))^6.$
$880 = 666 + 6 \times 6 \times 6 - (6 + 6)/6.$
$881 = 666 + 6 \times 6 \times 6 - 6/6.$
$882 = 666 + 6 \times 6 \times 6.$
$883 = 666 + 6 \times 6 \times 6 + 6/6.$
$884 = 666 + 6 \times 6 \times 6 + (6 + 6)/6.$
$885 = (6 - 6/6) \times (66 + 666/6).$
$886 = 666 + 6 \times 6 \times 6 + 6 - (6 + 6)/6.$
$887 = 666 + 6 \times 6 \times 6 + 6 - 6/6.$
$888 = 666 + 6 \times 6 \times 6 + 6.$
$889 = 666 + 6 \times 6 \times 6 + 6 + 6/6.$
$890 = 666 + 6 \times 6 \times 6 + 6 + (6 + 6)/6.$
$891 = (6 - 6/6) \times (66 + 666/6) + 6.$
$892 = 66 + 6 \times 6 \times (6+6) + ((6 + 6)/6)^6.$
$893 = 666 + 6 \times 66 + 6 \times 6/6.$
$894 = 6 \times ((6 + 6) \times (6 + 6) + 6) - 6.$
$895 = 6666/6 - 6 \times 6 \times 6.$
$896 = (6/6 + 6) \times ((6 + 6)/6)^{(6+6/6)}.$
$897 = 66 \times (6 + 6) - 6 + 666/6.$
$898 = 6 \times ((6 + 6) \times (6 + 6) + 6) - (6 + 6)/6.$
$899 = 6 \times ((6+6) \times (6+6) + 6) - 6/6.$

$900 = 6 \times ((6 + 6) \times (6 + 6) + 6).$
$901 = 6 \times ((6+6) \times (6+6)+6)+6/6.$
$902 = 6 \times ((6 + 6) \times (6 + 6) + 6) + (6 + 6)/6.$
$903 = 66 \times (6 + 6) + 666/6.$
$904 = 66 \times (6 + 6) + (666 + 6)/6.$
$905 = 6 \times ((6 + 6) \times (6 + 6) + 6) + 6 - 6/6.$
$906 = 6 \times ((6 + 6) \times (6 + 6) + 6) + 6.$
$907 = 6 \times ((6 + 6) \times (6 + 6) + 6) + 6 + 6/6.$
$908 = 6 \times ((6 + 6) \times (6 + 6) + 6) + 6 + (6 + 6)/6.$
$909 = 66 \times (6 + 6) + 6 + 666/6.$
$910 = (6 + 6/6) \times (66 + ((6 + 6)/6)^6).$
$911 = 6 \times ((6+6) \times (6+6)+6)+66/6.$
$912 = 6 \times ((6+6) \times (6+6)+6)+6+6.$
$913 = 66 \times (66 + 6 + 66/6)/6.$
$914 = 66 \times (6 + 6) + (666 + 66)/6.$
$915 = 66 \times (6 + 6) + 6 + 6 + 666/6.$
$916 = (6+6/6) \times (66+((6+6)/6)^6)+6.$
$917 = 666 + 6 \times (6 \times 6 + 6) - 6/6.$
$918 = 666 + 6 \times (6 \times 6 + 6).$
$919 = 666 + 6 \times (6 \times 6 + 6) + 6/6.$
$920 = 666+6 \times (6 \times 6+6)+(6+6)/6.$
$921 = 66 \times (6+6)+6+6+6+666/6.$
$922 = 66+66 \times (6+6)+((6+6)/6)^6.$
$923 = (6 + 6 + 6/6) \times (66 + 6 - 6/6).$
$924 = 66 \times (6 + 6 + (6 + 6)/6).$
$925 = 66 \times (6 + 6 + (6 + 6)/6) + 6/6.$
$926 = 66 \times (6 + 6 + (6 + 6)/6) + (6 + 6)/6.$
$927 = 66 + 66 + 66 + (6 \times 6/(6+6))^6.$
$928 = 6 \times (6+6) \times (6+6)+((6+6)/6)^6.$
$929 = 66+6 \times (6+6) \times (6+6)-6/6.$
$930 = 66 + 6 \times (6 + 6) \times (6 + 6).$
$931 = 66+6 \times (6+6) \times (6+6)+6/6.$
$932 = 66 + 6 \times (6 + 6) \times (6 + 6) + (6 + 6)/6.$

$933 = 6 \times 6 \times 6 - 6 - 6 + (6 \times 6/(6 + 6))^6.$
$934 = (6+6) \times (66+6+6)-(6+6)/6.$
$935 = (6 + 6) \times (66 + 6 + 6) - 6/6.$
$936 = (6 + 6) \times (66 + 6 + 6).$
$937 = (6 + 6) \times (66 + 6 + 6) + 6/6.$
$938 = (6+6) \times (66+6+6)+(6+6)/6.$
$939 = 6 \times 6 \times 6 + (6 \times 6/(6+6))^6 - 6.$
$940 = (6 + 6) \times (66 + 6 + 6) + 6 - (6 + 6)/6.$
$941 = (6+6) \times (66+6+6)+6-6/6.$
$942 = (6 + 6) \times (66 + 6 + 6) + 6.$
$943 = (6+6) \times (66+6+6)+6+6/6.$
$944 = (6 + 6) \times (66 + 6 + 6) + 6 + (6 + 6)/6.$
$945 = 6 \times 6 \times 6 + (6 \times 6/(6 + 6))^6.$
$946 = 6 \times 6 \times 6+(6 \times 6/(6+6))^6+6/6.$
$947 = (6 + 6) \times (66 + 6 + 6) + 66/6.$
$948 = (6 + 6) \times (66 + 6 + 6) + 6 + 6.$
$949 = (6 + 6 + 6/6) \times (66 + 6 + 6/6).$
$950 = (6 \times 6 - 66/6) \times (6 \times 6 + (6 + 6)/6).$
$951 = 6 \times 6 \times 6 + 6 + (6 \times 6/(6+6))^6.$
$952 = 6 \times 66 + (6666 + 6)/(6 + 6).$
$953 = (6+6) \times (66+6+6)+6+66/6.$
$954 = 666 + 6 \times (6 \times 6 + 6).$
$955 = (6 \times 6 - 6 + 6/6)^{((6+6)/6)} - 6.$
$956 = (6 \times 6 - 66/6) \times (6 \times 6 + (6 + 6)/6) + 6.$
$957 = 66 \times (6 \times (6 \times 6-6)-6)/(6+6).$
$958 = ((6 + 6)/6)^{((66-6)/6)} - 66.$
$959 = (6+6/6) \times (66+66+6-6/6).$
$960 = (66 - 6) \times (6 + (66 - 6)/6).$
$961 = (6 \times 6 - 6 + 6/6)^{((6+6)/6)}.$
$962 = (6 \times 6 - 6 + 6/6)^{((6+6)/6)} + 6/6.$
$963 = 66 \times (6 \times (6 \times 6 - 6) - 6)/(6 + 6) + 6.$
$964 = ((6 + 6)/6)^{((66-6)/6)} - 66 + 6.$

$965 = 66 + 6 \times (6 + 6) \times (6 + 6) + 6 - 6/6.$
$966 = 66 + 6 \times (6 + 6) \times (6 + 6) + 6.$
$967 = (6 \times 6 - 6 + 6/6)^{((6+6)/6)} + 6.$
$968 = 66 \times (66 + (66 + 66)/6)/6.$
$969 = 6 \times 6 \times (6 \times 6 - 6) - 666/6.$
$970 = 6 \times 6 \times (6 \times 6-6)-(666-6)/6.$
$971 = (6+6+6) \times (66-6-6)-6/6.$
$972 = (6 + 6 + 6) \times (66 - 6 - 6).$
$973 = (6+6+6) \times (66-6-6)+6/6.$
$974 = (6 + 6 + 6) \times (66 - 6 - 6) + (6 + 6)/6.$
$975 = 6 \times (6 + 6) \times (6 + 6) + 666/6.$
$976 = (666 + 66) \times (6 + (6 + 6)/6)/6.$
$977 = (6 + 6 + 6) \times (66 - 6 - 6) + 6 - 6/6.$
$978 = (6 + 6 + 6) \times (66 - 6 - 6) + 6.$
$979 = 6666/6 - 66 - 66.$
$980 = (6 \times 6-6/6) \times (6+(66+66)/6).$
$981 = 6 \times (6 \times 6+6)+(6 \times 6/(6+6))^6.$
$982 = ((6 + 6)/6)^{((66-6)/6)} - 6 \times 6 - 6.$
$983 = (6+6+6) \times (66-6-6)+66/6.$
$984 = (6+6+6) \times (66-6-6)+6+6.$
$985 = 6 - 66 - 66 + 6666/6.$
$986 = (6 + 66/6) \times (((6 + 6)/6)^6 - 6).$
$987 = 6 \times (66 \times (6 \times 6-6)-6)/(6+6).$
$988 = ((6 + 6)/6)^{((66-6)/6)} - 6 \times 6.$
$989 = 666 + 6 \times (66 - 6 - 6) - 6/6.$
$990 = 666 + 6 \times (66 - 6 - 6).$
$991 = 666 + 6 \times (66 - 6 - 6) + 6/6.$
$992 = (6+66/6) \times (((6+6)/6)^6-6)+6.$
$993 = 6 \times (66 \times (6 \times 6-6)+6)/(6+6).$
$994 = ((66 - 6)/6)^{(6 \times 6/(6+6))} - 6.$
$995 = 666 + 6 \times 66 - 66 - 6/6.$
$996 = (6 + 6) \times (66 + 6 + 66/6).$
$997 = 6 \times 6+(6 \times 6-6+6/6)^{((6+6)/6)}.$
$998 = 666 + 6 \times 66 - ((6 + 6)/6)^6.$
$999 = 6 \times 666/(6 - (6 + 6)/6).$
$1000 = ((66 - 6)/6)^{(6 \times 6/(6+6))}.$

10. Representations Using Number 7

$101 = 7777/77.$
$102 = 77 + 7 + 7 + 77/7.$
$103 = (777 - 7)/7 - 7.$
$104 = 777/7 - 7.$
$105 = 7 \times (7 + 7) + 7.$
$106 = 7 \times (7 + 7) + 7 + 7/7.$
$107 = (777 - 77)/7 + 7.$
$108 = 7777/77 + 7.$
$109 = (777 - 7 - 7)/7.$
$110 = (777 - 7)/7.$
$111 = 777/7.$
$112 = (777 + 7)/7.$
$113 = (7 + 7 + 777)/7.$
$114 = ((7 + 7)/7)^7 - 7 - 7.$
$115 = (777 + 77)/7 - 7.$
$116 = 7 \times (7 + 7) + 7 + 77/7.$
$117 = (777 - 7)/7 + 7.$
$118 = 7 + 777/7.$
$119 = 7 \times 7 + 77 - 7.$
$120 = 77 + 7 \times 7 - 7 + 7/7.$
$121 = ((7 + 7)/7)^7 - 7.$
$122 = (777 + 77)/7.$
$123 = (777 + 77 + 7)/7.$

$124 = 7 + 7 + (777 - 7)/7.$
$125 = 7 + 7 + 777/7.$
$126 = 7 \times 7 + 77.$
$127 = 77 + 7 \times 7 + 7/7.$
$128 = ((7 + 7)/7)^7.$
$129 = 7 + (777 + 77)/7.$
$130 = ((7 + 7)/7)^7 + (7 + 7)/7.$
$131 = 7 + 7 + 7 + (777 - 7)/7.$
$132 = 7 + 7 + 7 + 777/7.$
$133 = 7 \times 7 + 77 + 7.$
$134 = 77 + 7 \times 7 + 7 + 7/7.$
$135 = 7 + ((7 + 7)/7)^7.$
$136 = 7 + 7/7 + ((7 + 7)/7)^7.$
$137 = 7 \times 7 + 77 + 77/7.$
$138 = 7 \times 7 + 77 + (77 + 7)/7.$
$139 = 7 \times (7 + 7 + 7) - 7 - 7/7.$
$140 = 7 \times (7 + 7 + 7) - 7.$
$141 = ((7 + 7) \times (77 - 7) + 7)/7.$
$142 = 7 + 7 + ((7 + 7)/7)^7.$
$143 = 77 + 77 - 77/7.$
$144 = (7 + 7/7) \times (7 + 77/7).$
$145 = 7 \times (7 + 7 + 7) - (7 + 7)/7.$
$146 = 7 \times (7 + 7 + 7) - 7/7.$

$147 = 7 \times (7 + 7 + 7).$
$148 = 7 \times (7 + 7 + 7) + 7/7.$
$149 = 7 \times (7 + 7 + 7) + (7 + 7)/7.$
$150 = 777 + 7 \times 77/77.$
$151 = 7 + (7 + 77/7) \times (7 + 7/7).$
$152 = 77 + 77 - (7 + 7)/7.$
$153 = 77 + 77 - 7/7.$
$154 = 77 + 77.$
$155 = 77 + 77 + 7/7.$
$156 = 77 + 77 + (7 + 7)/7.$
$157 = 77 + 77 + (7 + 7 + 7)/7.$
$158 = 7 \times (7 + 7 + 7) + 77/7.$
$159 = 7 \times 7 + (777 - 7)/7.$
$160 = 777 + 7 \times 7/7.$
$161 = 77 + 77 + 7.$
$162 = 77 + 77 + 7 + 7/7.$
$163 = 7 + (7 + 7) \times (77 + 7/7)/7.$
$164 = 77 + 77 + (77 - 7)/7.$
$165 = 77 \times (7 + 7 + 7/7)/7.$
$166 = 7 \times 7 + 7 + (777 - 7)/7.$
$167 = 7 \times 7 + 7 + 777/7.$
$168 = 77 + 77 + 7 + 7.$
$169 = 77 + 77 + 7 + 7 + 7/7.$

$170 = 7 \times 7 - 7 + ((7 + 7)/7)^7.$
$171 = 7 \times 7 + (777 + 77)/7.$
$172 = 77 + 77 + 7 + 77/7.$
$173 = 77 + 7 \times (7 + 7) + (7 + 7)/7.$
$174 = 77 + 7 \times (7 + 7) - 7/7.$
$175 = 77 + 7 \times (7 + 7).$
$176 = 77 + 7 \times (7 + 7) + 7/7.$
$177 = 7 \times 7 + ((7 + 7)/7)^7.$
$178 = 77 + 7777/77.$
$179 = ((7 + 7)/7)^{(7+7/7)} - 77.$
$180 = 77 - 7 + (777 - 7)/7.$
$181 = 77 - 7 + 777/7.$
$182 = 77 + 7 + 7 \times (7 + 7).$
$183 = 7 \times (7 + 7) + 77 + 7 + 7/7.$
$184 = 7 \times 7 + 7 + ((7 + 7)/7)^7.$
$185 = (7 + 7) \times (7 + 7) - 77/7.$
$186 = (7 + 7) \times (7 + 7) - (77 - 7)/7.$
$187 = 77 + (777 - 7)/7.$
$188 = 77 + 777/7.$
$189 = (7 + 7) \times (7 + 7) - 7.$
$190 = (7 + 7) \times (7 + 7) - 7 + 7/7.$
$191 = 77 + ((7 + 7)/7)^7 - 7 - 7.$
$192 = (7 \times 7 - 7/7) \times (77/7 - 7).$
$193 = (7+7)\times(7+7)-(7+7+7)/7.$
$194 = (7 + 7) \times (7 + 7) - (7 + 7)/7.$
$195 = (7 + 7) \times (7 + 7) - 7/7.$
$196 = (7 + 7) \times (7 + 7).$
$197 = (7 + 7) \times (7 + 7) + 7/7.$
$198 = 77/7 \times (7 + 77/7).$
$199 = 77 + (777 + 77)/7.$
$200 = (7 + 7) \times (7 + 7) + 77/7 - 7.$
$201 = (7+7)\times(7+7)+7-(7+7)/7.$
$202 = (7 + 7) \times (7 + 7) + 7 - 7/7.$
$203 = (7 + 7) \times (7 + 7) + 7.$
$204 = (7 + 7) \times (7 + 7) + 7 + 7/7.$
$205 = 77 + ((7 + 7)/7)^7.$
$206 = (7 + 7) \times (7 + 7) + (77 - 7)/7.$
$207 = (7 + 7) \times (7 + 7) + 77/7.$
$208 = 7 \times (7 + 7) + (777 - 7)/7.$
$209 = 7 \times (7 + 7) + 777/7.$
$210 = (7 + 7) \times (7 + 7 + 7/7).$
$211 = (7+7)\times(7+7)+7+7+7/7.$
$212 = 77 + ((7 + 7)/7)^7 + 7.$
$213 = 7 \times (7 + 7 + 7) + 77 - 77/7.$
$214 = (7 + 7) \times (7 + 7) + 7 + 77/7.$
$215 = 7 \times 7 \times 7 - ((7 + 7)/7)^7.$
$216 = (7 - 7/7)^{((7+7+7)/7)}.$
$217 = 7 \times (7 \times 7 - 7) - 77.$
$218 = 7 \times (7 \times 7 - 7) - 77 + 7/7.$
$219 = 77 + 7 + 7 + ((7 + 7)/7)^7.$
$220 = 77 \times (7 + 7 + 7 - 7/7)/7.$
$221 = 77 + (7 + 77/7) \times (7 + 7/7).$
$222 = 777 \times (7 + 7)/(7 \times 7).$
$223 = 77 + 7 \times (7 + 7 + 7) - 7/7.$
$224 = 77 + 7 \times (7 + 7 + 7).$
$225 = (7 + 7 + 7/7)^{((7+7)/7)}.$
$226 = 7 \times (7 + 7) + ((7 + 7)/7)^7.$
$227 = 7 \times (7 \times 7 - 7 - 7) - 7 - 77/7.$
$228 = (7 \times 7 - 77/7) \times (7 - 7/7).$
$229 = (7 + 7) \times 777/(7 \times 7) + 7.$
$230 = (77 \times (7 + 7 + 7) - 7)/7.$
$231 = 77 + 77 + 77.$
$232 = 7 \times 7 \times 7 - 777/7.$
$233 = 7 \times 7 \times 7 - (777 - 7)/7.$
$234 = (7 + 7 + 7)/7 \times (77 + 7/7).$
$235 = 7 \times (7 + 7 + 7) + 77 + 77/7.$

$236 = (7 + 7) \times (7 + 777/7)/7.$
$237 = (777 - 7/7) - 7 \times 77.$
$238 = 777 - 77 \times 7.$
$239 = 777 - 77 \times 7 + 7/7.$
$240 = (7 - (7 + 7)/7) \times (7 \times 7 - 7/7).$
$241 = (7 - 7/7) \times (7 \times 7 - 7) - 77/7.$
$242 = 77 \times (7 + 7 + 7 + 7/7)/7.$
$243 = 7 \times (7 \times 7 - 7 - 7) - (7 + 7)/7.$
$244 = 7 \times (7 \times 7 - 7 - 7) - 7/7.$
$245 = 7 \times (7 \times 7 - 7 - 7).$
$246 = 7 \times (7 \times 7 - 7 - 7) + 7/7.$
$247 = 7 \times (7 \times 7 - 7 - 7) + (7 + 7)/7.$
$248 = 77 + (7 \times 7 \times 7 \times 7 - 7)/(7 + 7).$
$249 = ((7 + 7)/7)^{(7+7/7)} - 7.$
$250 = (7 \times 7 + 7/7) \times (7 - (7 + 7)/7).$
$251 = 7 \times (7 \times 7 - 7 - 7) + 7 - 7/7.$
$252 = (7 + 7) \times (7 + 77/7).$
$253 = 7 \times (7 \times 7 - 7 - 7) + 7 + 7/7.$
$254 = 7 \times 7 + 77 + ((7 + 7)/7)^7.$
$255 = 7 \times 7 \times 7 - 77 - 77/7.$
$256 = ((7 + 7)/7)^{(7+7/7)}.$
$257 = ((7 + 7)/7)^{(7+7/7)} + 7/7.$
$258 = (7 - 7/7) \times (7 \times 7 - 7 + 7/7).$
$259 = 7 \times 7 \times 7 - 77 - 7.$
$260 = 7 \times 7 \times 7 - 77 - 7 + 7/7.$
$261 = 7 \times 7 \times 7 - 77 - 7 + (7 + 7)/7.$
$262 = 7 \times 7 \times 7 - 77 + 7 - 77/7.$
$263 = 7 + ((7 + 7)/7)^{(7+7/7)}.$
$264 = 7 \times 7 \times 7 - 77 - (7 + 7)/7.$
$265 = 7 \times 7 \times 7 - 77 - 7/7.$
$266 = 7 \times 7 \times 7 - 77.$
$267 = 7 \times 7 \times 7 - 77 + 7/7.$
$268 = 7 \times 7 \times 7 - 77 + (7 + 7)/7.$
$269 = 7 \times (7 \times 77 - 7/7)/(7 + 7).$
$270 = (7 + 7 + 7/7) \times (7 + 77/7).$
$271 = 7 \times 7 \times 7 + 7 - 77 - (7 + 7)/7.$
$272 = 7 \times 7 \times 7 - 77 + 7 - 7/7.$
$273 = 7 \times 7 \times 7 - 77 + 7.$
$274 = 7 \times 7 \times 7 - 77 + 7 + 7/7.$
$275 = (7 + 7 + 77/7) \times 77/7.$
$276 = 7 \times (7 \times 7 - 7) - 7 - 77/7.$
$277 = 7 \times 7 \times 7 - 77 + 77/7.$
$278 = 7 \times 7 \times 7 - 77 + (77 + 7)/7.$
$279 = 7 \times (7 \times 7 - 7) - 7 - 7 - 7/7.$
$280 = 7 \times (7 \times 7 - 7) - 7 - 7.$
$281 = 7 \times (7 \times 7 - 7) - 7 - 7 + 7/7.$
$282 = (7 \times 7 - (7 + 7)/7) \times (7 - 7/7).$
$283 = 7 \times (7 \times 7 - 7) - 77/7.$
$284 = 7 \times (7 \times 7 - 7) - (77 - 7)/7.$
$285 = 7 \times (7 \times 7 - 7) - 7 - (7 + 7)/7.$
$286 = 7 \times (7 \times 7 - 7) - 7 - 7/7.$
$287 = 7 \times (7 \times 7 - 7) - 7.$
$288 = 7 \times (7 \times 7 - 7) - 7 + 7/7.$
$289 = 7 \times (7 \times 7 - 7) - 7 + (7 + 7)/7.$
$290 = 7 \times (7 \times 7 - 7) + 7 - 77/7.$
$291 = 7 \times (7 \times 7 - 7) - (7 + 7 + 7)/7.$
$292 = 7 \times (7 \times 7 - 7) - (7 + 7)/7.$
$293 = 7 \times (7 \times 7 - 7) - 7/7.$
$294 = 7 \times (7 \times 7 - 7).$
$295 = 7 \times (7 \times 7 - 7) + 7/7.$
$296 = 7 \times (7 \times 7 - 7) + (7 + 7)/7.$
$297 = 7 \times (7 \times 7 - 7) + (7 + 7 + 7)/7.$
$298 = 7 \times (7 \times 7 - 7) - 7 + 77/7.$
$299 = 7 \times (7 \times 7 - 7) + 7 - (7 + 7)/7.$
$300 = 7 \times (7 \times 7 - 7) + 7 - 7/7.$
$301 = 7 \times (7 \times 7 - 7) + 7.$

$302 = 7 \times (7 \times 7 - 7) + 7 + 7/7.$
$303 = 7 \times (7 \times 7 - 7) + 7 + (7 + 7)/7.$
$304 = (7 \times 7 - 77/7) \times (7 + 7/7).$
$305 = 7 \times (7 \times 7 - 7) + 77/7.$
$306 = 7 \times (7 \times 7 - 7) + (77 + 7)/7.$
$307 = 7 \times (7 \times 7 - 7) + 7 + 7 - 7/7.$
$308 = 77 \times (77/7 - 7).$
$309 = 7 \times (7 \times 7 - 7) + 7 + 7 + 7/7.$
$310 = 7\times(7\times7-7)+7+7+(7+7)/7.$
$311 = 7 \times 7 \times 7 - 7 - 7 - 7 - 77/7.$
$312 = 7 \times (7 \times 7 - 7) + 7 + 77/7.$
$313 = 7\times(7\times7-7)+7+(77+7)/7.$
$314 = 7 \times (7 \times 7 + 7) - 77 - 7/7.$
$315 = 7 \times (7 \times 7 + 7) - 77.$
$316 = 7 \times (7 \times 7 + 7) - 77 + 7/7.$
$317 = (7 + 77/7)^{((7+7)/7)} - 7.$
$318 = 7 \times 7 \times 7 - 7 - 7 - 77/7.$
$319 = 7 \times 7 \times 7 - 7 - 7 - (77 - 7)/7.$
$320 = (7+7/7)\times(7\times7-7-(7+7)/7).$
$321 = 7 \times 7 \times 7 - (77 + 77)/7.$
$322 = 7 \times 7 \times 7 - 7 - 7 - 7.$
$323 = 7 \times 7 \times 7 - 7 - 7 - 7 + 7/7.$
$324 = (77/7 + 7)^{((7+7)/7)}.$
$325 = 7 \times 7 \times 7 - 7 - 77/7.$
$326 = 7 \times 7 \times 7 - 7 - (77 - 7)/7.$
$327 = 7 \times 7 \times 7 - 7 - 7 - (7 + 7)/7.$
$328 = 7 \times 7 \times 7 - 7 - 7 - 7/7.$
$329 = 7 \times 7 \times 7 - 7 - 7.$
$330 = 7 \times 7 \times 7 - 7 - 7 + 7/7.$
$331 = 7 \times 7 \times 7 - (77 + 7)/7.$
$332 = 7 \times 7 \times 7 - 77/7.$
$333 = 7 \times 7 \times 7 - (77 - 7)/7.$
$334 = 7 \times 7 \times 7 - 7 - (7 + 7)/7.$
$335 = 7 \times 7 \times 7 - 7 - 7/7.$
$336 = 7 \times 7 \times 7 - 7.$
$337 = 7 \times 7 \times 7 - 7 + 7/7.$
$338 = 7 \times 7 \times 7 - 7 + (7 + 7)/7.$
$339 = 7 \times 7 \times 7 + 7 - 77/7.$
$340 = 7 \times 7 \times 7 - (7 + 7 + 7)/7.$
$341 = 7 \times 7 \times 7 - (7 + 7)/7.$
$342 = 7 \times 7 \times 7 - 7/7.$
$343 = 7 \times 7 \times 7.$
$344 = 7 \times 7 \times 7 + 7/7.$
$345 = 7 \times 7 \times 7 + (7 + 7)/7.$
$346 = 7 \times 7 \times 7 + (7 + 7 + 7)/7.$
$347 = 7 \times 7 \times 7 - 7 + 77/7.$
$348 = 7 \times 7 \times 7 + 7 - (7 + 7)/7.$
$349 = 7 \times 7 \times 7 + 7 - 7/7.$
$350 = 7 \times 7 \times 7 + 7.$
$351 = 7 \times 7 \times 7 + 7 + 7/7.$
$352 = 7 \times 7 \times 7 + 7 + (7 + 7)/7.$
$353 = 7 \times 7 \times 7 + (77 - 7)/7.$
$354 = 7 \times 7 \times 7 + 77/7.$
$355 = 7 \times 7 \times 7 + (77 + 7)/7.$
$356 = 7 \times 7 \times 7 + 7 + 7 - 7/7.$
$357 = 7 \times 7 \times 7 + 7 + 7.$
$358 = 7 \times 7 \times 7 + 7 + 7 + 7/7.$
$359 = 7 \times 7 \times 7 + 7 + 7 + (7 + 7)/7.$
$360 = (7 \times 7 + 77/7) \times (7 - 7/7).$
$361 = 7 \times 7 \times 7 + 7 + 77/7.$
$362 = 7 \times 7 \times 7 + 7 + (77 + 7)/7.$
$363 = 7 \times 7 \times 7 + 7 + 7 + 7 - 7/7.$
$364 = 7 \times 7 \times 7 + 7 + 7 + 7.$
$365 = 7 \times 7 \times 7 + (77 + 77)/7.$
$366 = 7\times7\times7+7+7+7+(7+7)/7.$
$367 = 7 \times 7 \times 7 + 7 + 7 + (77 - 7)/7.$

$368 = 7 \times 7 \times 7 + 7 + 7 + 77/7.$
$369 = 7 \times 7 \times 7 + 7 + 7 + (77 + 7)/7.$
$370 = 7 \times (7 \times 7 - 7) + 77 - 7/7.$
$371 = 7 \times (7 \times 7 - 7) + 77.$
$372 = 7 \times (7 \times 7 - 7) + 77 + 7/7.$
$373 = 7 \times (7 \times 7 + 7) - 7 - (77 + 7)/7.$
$374 = 7 \times (7 \times 7 + 7) - 7 - 77/7.$
$375 = 7 \times 7 \times 7 + 7 + 7 + 7 + 77/7.$
$376 = (7 \times 7 - (7 + 7)/7) \times (7 + 7/7).$
$377 = 7 \times (7 \times 7 + 7) - 7 - 7 - 7/7.$
$378 = 7 \times (7 \times 7 + 7) - 7 - 7.$
$379 = 7 \times (7 \times 7 + 7) - 7 - 7 + 7/7.$
$380 = (7 - (7 + 7)/7) \times (77 - 7/7).$
$381 = 7 \times (7 \times 7 + 7) - 77/7.$
$382 = 7 \times (7 \times 7 + 7) - (77 - 7)/7.$
$383 = 7 \times (7 \times 7 + 7) - 7 - (7 + 7)/7.$
$384 = 7 \times (7 \times 7 + 7) - 7 - 7/7.$
$385 = 7 \times (7 \times 7 + 7) - 7.$
$386 = 7 \times (7 \times 7 + 7) - 7 + 7/7.$
$387 = 7 \times (7 \times 7 + 7) - 7 + (7 + 7)/7.$
$388 = 7 \times (7 \times 7 + 7) + 7 - 77/7.$
$389 = 7 \times (7 \times 7 + 7) - (7 + 7 + 7)/7.$
$390 = 7 \times (7 \times 7 + 7) - (7 + 7)/7.$
$391 = 7 \times (7 \times 7 + 7) - 7/7.$
$392 = 7 \times (7 \times 7 + 7).$
$393 = 7 \times (7 \times 7 + 7) + 7/7.$
$394 = 7 \times (7 \times 7 + 7) + (7 + 7)/7.$
$395 = 7 \times (7 \times 7 + 7) + (7 + 7 + 7)/7.$
$396 = 7 \times (7 \times 7 + 7) - 7 + 77/7.$
$397 = 7 \times (7 \times 7 + 7) + 7 - (7 + 7)/7.$
$398 = 7 \times (7 \times 7 + 7) + 7 - 7/7.$
$399 = 7 \times (7 \times 7 + 7) + 7.$
$400 = 7 \times (7 \times 7 + 7) + 7 + 7/7.$
$401 = 7 \times (7 \times 7 + 7) + (7 + 7)/7 + 7.$
$402 = 7 \times (7 \times 7 + 7) + (77 - 7)/7.$
$403 = 7 \times (7 \times 7 + 7) + 77/7.$
$404 = 7 \times (7 \times 7 + 7) + (77 + 7)/7.$
$405 = 7 \times (7 \times 7 + 7) + 7 + 7 - 7/7.$
$406 = 7 \times (7 \times 7 + 7) + 7 + 7.$
$407 = 7 \times (7 \times 7 + 7) + 7 + 7 + 7/7.$
$408 = (7 \times 7 + (7 + 7)/7) \times (7 + 7/7).$
$409 = 7 \times 7 \times 7 + 77 - 77/7.$
$410 = 7 \times (7 \times 7 + 7) + 7 + 77/7.$
$411 = 7 \times 77 - ((7 + 7)/7)^7.$
$412 = 7 \times 7 \times 7 - 7 + 77 - 7/7.$
$413 = 7 \times (77 - 7) - 77.$
$414 = 7 \times (77 - 7) - 77 + 7/7.$
$415 = (77 + 7 - 7/7) \times (7 - (7 + 7)/7).$
$416 = (77 \times 77 - 7)/(7 + 7) - 7.$
$417 = 77 \times 7 - (777 + 77)/7.$
$418 = 77/7 \times (7 \times 7 - 77/7).$
$419 = 7 \times 7 \times 7 + 77 - 7/7.$
$420 = 7 \times 7 \times 7 + 77.$
$421 = 7 \times 7 \times 7 + 77 + 7/7.$
$422 = 7 \times 7 \times 7 + 77 + (7 + 7)/7.$
$423 = 7 \times 7 \times 7 + 77 + (7 + 7 + 7)/7.$
$424 = 7 \times (77 - 7) - 77 + 77/7.$
$425 = 7 + 7 \times 7 \times 7 + 77 - (7 + 7)/7.$
$426 = 7 \times 7 \times 7 + 77 + 7 - 7/7.$
$427 = 7 \times 7 \times 7 + 77 + 7.$
$428 = 77 \times 7 - 777/7.$
$429 = 77 \times 7 - (777 - 7)/7.$
$430 = 7 \times (7 \times 7 + 7 + 7) - 77/7.$
$431 = 7 \times 7 \times 7 + 77 + 77/7.$
$432 = (7 \times 7 - 7/7) \times (7 + (7 + 7)/7).$
$433 = 7 \times (77 - 7 - 7) - 7 - 7/7.$

$434 = 7 \times (77 - 7 - 7) - 7.$
$435 = 7 \times 77 - (777/7 - 7).$
$436 = 7 \times 77 + 7 - (777 - 7)/7.$
$437 = 7 \times (77 - 7 - 7) + 7 - 77/7.$
$438 = 7 \times 7 \times 7 + 77 + 7 + 77/7.$
$439 = 7 \times (77 - 7 - 7) - (7 + 7)/7.$
$440 = 7 \times (77 - 7 - 7) - 7/7.$
$441 = 7 \times (77 - 7 - 7).$
$442 = 7 \times (77 - 7) - 7 \times 7 + 7/7.$
$443 = 7 \times (77 - 7 - 7) + (7 + 7)/7.$
$444 = 777 \times (77/7 - 7)/7.$
$445 = 7 \times (77 - 7 - 7) - 7 + 77/7.$
$446 = (7 \times 7 + 7) \times (7 + 7/7) - (7 + 7)/7.$
$447 = 7 \times (77 - 7 - 7) + 7 - 7/7.$
$448 = 7 \times (77 - 7 - 7) + 7.$
$449 = 7 \times (77 - 7 - 7) + 7 + 7/7.$
$450 = (7 \times 7 + 7/7) \times (7 + (7 + 7)/7).$
$451 = 7 \times 77 - 77 - 77/7.$
$452 = 7 \times (7 \times 7 + 7 + 7) + 77/7.$
$453 = 7 \times 7 \times 7 + (777 - 7)/7.$
$454 = 7 \times 777 + 7 \times 7/7.$
$455 = 7 \times 77 - 77 - 7.$
$456 = (7 - 7/7) \times (77 - 7/7).$
$457 = 7 \times 77 - 77 - 7 + (7 + 7)/7.$
$458 = 7 \times 77 - 77 + 7 - 77/7.$
$459 = 7 \times 77 - 77 - (7 + 7 + 7)/7.$
$460 = 7 \times 77 - 77 - (7 + 7)/7.$
$461 = 7 \times 77 - 77 - 7/7.$
$462 = 7 \times 77 - 77.$
$463 = 7 \times 77 - 77 + 7/7.$
$464 = 7 \times 77 - 77 + (7 + 7)/7.$
$465 = (77 - 7) \times 7 - 7 - 7 - 77/7.$
$466 = 7 \times 77 + 77/7 - 77 - 7.$
$467 = 7 \times 77 - 77 + 7 - (7 + 7)/7.$
$468 = (77 + 7/7) \times (7 - 7/7).$
$469 = 7 \times 77 - 77 + 7.$
$470 = 7 \times 77 - 77 + 7 + 7/7.$
$471 = 7 \times 7 \times 7 + ((7 + 7)/7)^7.$
$472 = 7 \times (77 - 7) - 7 - 77/7.$
$473 = 7 \times 77 - 77 + 77/7.$
$474 = (77 + (7 + 7)/7) \times (7 - 7/7).$
$475 = 7 \times (77 - 7) - 7 - 7 - 7/7.$
$476 = 7 \times (77 - 7) - 7 - 7.$
$477 = 7 \times (77 - 7) - 7 - 7 + 7/7.$
$478 = 7 + ((7 + 7)/7)^7 + 7 \times 7 \times 7.$
$479 = 7 \times (77 - 7) - 77/7.$
$480 = (7 \times 7 - 7/7) \times (77 - 7)/7.$
$481 = 7 \times (77 - 7) - 7 - (7 + 7)/7.$
$482 = 7 \times (77 - 7) - 7 - 7/7.$
$483 = 7 \times (77 - 7) - 7.$
$484 = 7 \times (77 - 7) - 7 + 7/7.$
$485 = 7 \times (77 - 7) - 7 + (7 + 7)/7.$
$486 = 7 \times (77 - 7) + 7 - 77/7.$
$487 = 7 \times (77 - 7) - (7 + 7 + 7)/7.$
$488 = 7 \times (77 - 7) - (7 + 7)/7.$
$489 = 7 \times (77 - 7) - 7/7.$
$490 = 7 \times (77 - 7).$
$491 = 7 \times (77 - 7) + 7/7.$
$492 = 7 \times (77 - 7) + (7 + 7)/7.$
$493 = 7 \times (77 - 7) + (7 + 7 + 7)/7.$
$494 = 7 \times (77 - 7) - 7 + 77/7.$
$495 = 7 \times (77 - 7) + 7 - (7 + 7)/7.$
$496 = 7 \times (77 - 7) + 7 - 7/7.$
$497 = 7 \times (77 - 7) + 7.$
$498 = 7 \times (77 - 7) + 7 + 7/7.$
$499 = 7 \times (77 - 7) + 7 + (7 + 7)/7.$

$500 = 7 \times (77 - 7) + (77 - 7)/7.$
$501 = 7 \times (77 - 7) + 77/7.$
$502 = 7 \times (77 - 7) + (7 + 77)/7.$
$503 = 7 \times (7 \times 7 + 7) + 777/7.$
$504 = 7 \times (77 - 7) + 7 + 7.$
$505 = 7 \times (77 - 7) + 7 + 7 + 7/7.$
$506 = 7 \times (77 - 7) + 7 + 7 + (7 + 7)/7.$
$507 = 7 \times 77 - 7 - 7 - 7 - 77/7.$
$508 = 7 \times (77 - 7) + 7 + 77/7.$
$509 = 7 \times (77 + 7) - 77 - (7 + 7)/7.$
$510 = 7 \times (77 + 7) - 77 - 7/7.$
$511 = 7 \times (77 + 7) - 77.$
$512 = ((7 + 7)/7)^{(7 + (7 + 7)/7)}.$
$513 = 7 \times (77 + 7) - 77 + (7 + 7)/7.$
$514 = 7 \times 77 - 7 - 7 - 77/7.$
$515 = 7 \times (77 - 7) + 7 + 7 + 77/7.$
$516 = 7 \times 77 - 7 - 7 - 7 - (7 + 7)/7.$
$517 = 7 \times 77 - 7 - 7 - 7 - 7/7.$
$518 = 7 \times 77 - 7 - 7 - 7.$
$519 = 7 \times 77 - 7 - 7 - 7 + 7/7.$
$520 = 7 \times 77 - 7 - (77 + 7)/7.$
$521 = 7 \times 77 - 7 - 77/7.$
$522 = 7 \times 77 - 7 - (77 - 7)/7.$
$523 = 7 \times 77 - 7 - 7 - (7 + 7)/7.$
$524 = 7 \times 77 - 7 - 7 - 7/7.$
$525 = 7 \times 77 - 7 - 7.$
$526 = 7 \times 77 - 7 - 7 + 7/7.$
$527 = 77 \times 7 - (77 + 7)/7.$
$528 = 7 \times 77 - 77/7.$
$529 = 7 \times 77 + (7 - 77)/7.$
$530 = 7 \times 77 - 7 - (7 + 7)/7.$
$531 = 7 \times 77 - 7 - 7/7.$
$532 = 7 \times 77 - 7.$
$533 = 7 \times 77 - 7 + 7/7.$
$534 = 7 \times 77 - 7 + (7 + 7)/7.$
$535 = 7 \times 77 + 7 - 77/7.$
$536 = 7 \times 77 - (7 + 7 + 7)/7.$
$537 = 7 \times 77 - (7 + 7)/7.$
$538 = 7 \times 77 - 7/7.$
$539 = 7 \times 77.$
$540 = 7 \times 77 + 7/7.$
$541 = 7 \times 77 + (7 + 7)/7.$
$542 = 7 \times 77 + (7 + 7 + 7)/7.$
$543 = 7 \times 77 - 7 + 77/7.$
$544 = 7 \times 77 + 7 - (7 + 7)/7.$
$545 = 7 \times 77 + 7 - 7/7.$
$546 = 7 \times 77 + 7.$
$547 = 7 \times 77 + 7 + 7/7.$
$548 = 7 \times 77 + 7 + (7 + 7)/7.$
$549 = 7 \times 77 + (77 - 7)/7.$
$550 = 7 \times 77 + 77/7.$
$551 = 7 \times 77 + (77 + 7)/7.$
$552 = 7 \times 77 + 7 + 7 - 7/7.$
$553 = 7 \times 77 + 7 + 7.$
$554 = 7 \times 77 + 7 + 7 + 7/7.$
$555 = 7 \times 77 + 7 + 7 + (7 + 7)/7.$
$556 = 7 \times 77 + 7 + (77 - 7)/7.$
$557 = 7 \times 77 + 7 + 77/7.$
$558 = 7 \times 7 \times (7 + 7) - ((7 + 7)/7)^7.$
$559 = 7 \times 77 + 7 + 7 + 7 - 7/7.$
$560 = (77 - 7) \times (7 + 7/7).$
$561 = 7 \times 77 + 7 + 7 + 7 + 7/7.$
$562 = 7 + (7777 - 7)/(7 + 7).$
$563 = 7 + (7777 + 7)/(7 + 7).$
$564 = 7 \times 77 + 7 + 7 + 77/7.$
$565 = 7 \times 77 + 7 + 7 + (77 + 7)/7.$

$566 = 7 \times (77 - 7) + 77 - 7/7.$
$567 = 7 \times (77 - 7) + 77.$
$568 = 7 \times (77 - 7) + 77 + 7/7.$
$569 = 7 \times (77 + 7) - 7 - (77 + 7)/7.$
$570 = 7 \times (77 + 7) - 7 - 77/7.$
$571 = 7 \times 77 + 7 + 7 + 7 + 77/7.$
$572 = 7777/7 - 7 \times 77.$
$573 = 7 \times (77 + 7) - 7 - 7 - 7/7.$
$574 = 7 \times (77 + 7) - 7 - 7.$
$575 = 7 \times (77 + 7) - 7 - 7 + 7/7.$
$576 = 7 \times (77 + 7) - (77 + 7)/7.$
$577 = 7 \times (77 + 7) - 77/7.$
$578 = 7 \times (77 + 7) - (77 - 7)/7.$
$579 = 7 \times (77 + 7) - 7 - (7 + 7)/7.$
$580 = 7 \times (77 + 7) - 7 - 7/7.$
$581 = 7 \times (77 + 7) - 7.$
$582 = 7 \times (77 + 7) - 7 + 7/7.$
$583 = 7 \times (77 + 7) - 7 + (7 + 7)/7.$
$584 = 7 \times (77 + 7) + 7 - 77/7.$
$585 = 7 \times (77 + 7) - (7 + 7 + 7)/7.$
$586 = 7 \times (77 + 7) - (7 + 7)/7.$
$587 = 7 \times (77 + 7) - 7/7.$
$588 = 7 \times (77 + 7).$
$589 = 7 \times (77 + 7) + 7/7.$
$590 = 7 \times (77 + 7) + (7 + 7)/7.$
$591 = 7 \times (77 + 7) + (7 + 7 + 7)/7.$
$592 = 7 \times (77 + 7) - 7 + 77/7.$
$593 = 7 \times (77 + 7) + 7 - (7 + 7)/7.$
$594 = 7 \times (77 + 7) + 7 - 7/7.$
$595 = 7 \times (77 + 7) + 7.$
$596 = 7 \times (77 + 7) + 7 + 7/7.$
$597 = 7 \times (77 + 7) + 7 + (7 + 7)/7.$
$598 = 7 \times (77 + 7) + (77 - 7)/7.$
$599 = 7 \times (77 + 7) + 77/7.$
$600 = (7 + 7/7) \times (77 - (7 + 7)/7).$
$601 = 7 \times (77 + 7) + 7 + 7 - 7/7.$
$602 = 7 \times (77 + 7) + 7 + 7.$
$603 = 7 \times (77 + 7) + 7 + 7 + 7/7.$
$604 = 7 \times (77 + 7) + 7 + 7 + (7 + 7)/7.$
$605 = 7 \times 77 + 77 - 77/7.$
$606 = 7 \times (77 + 7) + 7 + 77/7.$
$607 = 7 \times (77 + 7) + 7 + (77 + 7)/7.$
$608 = (7 + 7/7) \times (77 - 7/7).$
$609 = 7 \times 77 + 77 - 7.$
$610 = 77 \times (7 + 7/7) - 7 + 7/7.$
$611 = 7 \times 77 + 77 - 7 + (7 + 7)/7.$
$612 = 7 \times 77 + 77 + 7 - 77/7.$
$613 = 7 \times (77 + 7) + 7 + 7 + 77/7.$
$614 = 7 \times 77 + 77 - (7 + 7)/7.$
$615 = 7 \times 77 + 77 - 7/7.$
$616 = 7 \times 77 + 77.$
$617 = 7 \times 77 + 77 + 7/7.$
$618 = 7 \times 77 + 77 + (7 + 7)/7.$
$619 = 7 \times 77 + 77 + (7 + 7 + 7)/7.$
$620 = 7 \times 77 + 77 - 7 + 77/7.$
$621 = (77 - 7 - 7/7) \times (7 + (7 + 7)/7).$
$622 = 7 \times 77 + 77 + 7 - 7/7.$
$623 = 7 \times 77 + 77 + 7.$
$624 = (77 + 7/7) \times (7 + 7/7).$
$625 = (7 - (7 + 7)/7)^{(77/7 - 7)}.$
$626 = 7 \times (77 + 7 + 7) - 77/7.$
$627 = 7 \times 77 + 77 + 77/7.$
$628 = 7 \times (7 + 7 + 77) - 7 - (7 + 7)/7.$
$629 = 7 \times (77 + 7 + 7) - 7 - 7/7.$
$630 = 7 \times (77 + 7 + 7) - 7.$
$631 = 7 \times (7 \times (7 + 7) - 7) - 7 + 7/7.$

$632 = (7 + 7/7) \times (77 + (7 + 7)/7).$
$633 = 7 \times (77 + 7 + 7) + 7 - 77/7.$
$634 = 7 \times 77 + 77 + 7 + 77/7.$
$635 = 7 \times (77 + 7 + 7) - (7 + 7)/7.$
$636 = 7 \times (77 + 7 + 7) - 7/7.$
$637 = 7 \times (77 + 7 + 7).$
$638 = 7 \times (77 + 7 + 7) + 7/7.$
$639 = 7 \times (77 + 7 + 7) + (7 + 7)/7.$
$640 = (7 - (7 + 7)/7) \times ((7 + 7)/7)^7.$
$641 = 7 \times (77 + 7 + 7) - 7 + 77/7.$
$642 = 777 - ((7 + 7)/7)^7 - 7.$
$643 = 7 \times 77 - 7 + 777/7.$
$644 = 7 \times (77 + 7 + 7) + 7.$
$645 = 7 \times (77 + 7 + 7) + 7 + 7/7.$
$646 = 7 \times (77 + 7 + 7) + 7 + (7 + 7)/7.$
$647 = 7 + (7 - (7 + 7)/7) \times ((7 + 7)/7)^7.$
$648 = 7 \times (77 + 7 + 7) + 77/7.$
$649 = 777 - ((7 + 7)/7)^7.$
$650 = 7 \times 77 + 777/7.$
$651 = 777 - 7 \times 7 - 77.$
$652 = 777 - 7 - 7 - 777/7.$
$653 = 77 \times (77/7 + 7 \times 7)/7 - 7.$
$654 = 7 \times (77 + 7) + 77 - 77/7.$
$655 = 7 + 7 \times (77 + 7 + 7) + 77/7.$
$656 = 777 + 7 - ((7 + 7)/7)^7.$
$657 = 77 \times 7 + 7 + 777/7.$
$658 = 7 \times (77 + 7) - 7 + 77.$
$659 = 777 - 7 - 777/7.$
$660 = 77/7 \times (7 \times 7 + 77/7).$
$661 = 77 \times 7 + (777 + 77)/7.$
$662 = 77 + 7 \times (77 + 7) - (7 + 7 + 7)/7.$
$663 = 77 + 7 \times (77 + 7) - (7 + 7)/7.$
$664 = 77 + 7 \times (77 + 7) - 7/7.$
$665 = (77 + ((77 + 7) \times 7)).$
$666 = 777 - 777/7.$
$667 = ((7 \times 77) + (((7 + 7)/7)^7)).$
$668 = (777 + (((7 - 777) + 7)/7)).$
$669 = 7 \times 7 \times (7 + 7) - 7 - (77 - 7)/7.$
$670 = 7 \times 7 \times (7 + 7) - 7 - 7 - (7 + 7)/7.$
$671 = 7 \times 7 \times (7 + 7) - 7 - 7 - 7/7.$
$672 = (77 + 7) \times (7 + 7/7).$
$673 = 777 + 7 - 777/7.$
$674 = 7 \times 77 + 7 + ((7 + 7)/7)^7.$
$675 = 7 \times 7 \times (7 + 7) - 77/7.$
$676 = 7 \times 7 \times (7 + 7) - (77 - 7)/7.$
$677 = 7 \times 7 \times (7 + 7) - 7 - (7 + 7)/7.$
$678 = 7 \times 7 \times (7 + 7) - 7 - 7/7.$
$679 = 7 \times 7 \times (7 + 7) - 7.$
$680 = 7 \times 7 \times (7 + 7) - 7 + 7/7.$
$681 = 7 \times 7 \times (7 + 7) - 7 + (7 + 7)/7.$
$682 = 7 \times 7 \times (7 + 7) + 7 - 77/7.$
$683 = 7 \times 7 \times (7 + 7) - (7 + 7 + 7)/7.$
$684 = 7 \times 7 \times (7 + 7) - (7 + 7)/7.$
$685 = 7 \times 7 \times (7 + 7) - 7/7.$
$686 = 7 \times 7 \times (7 + 7).$
$687 = 7 \times 7 \times (7 + 7) + 7/7.$
$688 = 7 \times 7 \times (7 + 7) + (7 + 7)/7.$
$689 = 777 - 77 - 77/7.$
$690 = 7 \times 7 \times (7 + 7) - 7 + 77/7.$
$691 = 7 \times 7 \times (7 + 7) + 7 - (7 + 7)/7.$
$692 = 7 \times 7 \times (7 + 7) + 7 - 7/7.$
$693 = 7 \times 7 \times (7 + 7) + 7.$
$694 = 7 \times 7 \times (7 + 7) + 7 + 7/7.$
$695 = 7 \times 7 \times (7 + 7) + 7 + (7 + 7)/7.$
$696 = 7 \times 7 \times (7 + 7) + (77 - 7)/7.$
$697 = 7 \times 7 \times (7 + 7) + 77/7.$

$698 = 777 - 77 - (7 + 7)/7.$
$699 = 777 - 77 - 7/7.$
$700 = 777 - 77.$
$701 = 777 - 77 + 7/7.$
$702 = (77 + 7/7) \times (7 + (7 + 7)/7).$
$703 = 7 \times 7 \times (7 + 7) + 7 - (7 - 77)/7.$
$704 = 7 \times 7 \times (7 + 7) + 7 + 77/7.$
$705 = 777 - 77 + 7 - (7 + 7)/7.$
$706 = 777 - 77 + 7 - 7/7.$
$707 = 777 - 77 + 7.$
$708 = 777 - 77 + 7 + 7/7.$
$709 = 777 - 77 + 7 + (7 + 7)/7.$
$710 = 777 - 7 \times 7 - 7 - 77/7.$
$711 = 777 - 77 + 77/7.$
$713 = 777 + 7 + 7 - 77 - 7/7.$
$713 = 777 - 77 + 7 + 7 - 7/7.$
$714 = 777 - 77 + 7 + 7.$
$715 = 777 - 77 + 7 + 7 + 7/7.$
$716 = 7 \times (77 + 7) + ((7 + 7)/7)^7.$
$717 = 777 - 7 \times 7 - 77/7.$
$718 = 777 - 77 + 7 + 77/7.$
$719 = 777 - 7 - 7 \times 7 - (7 + 7)/7.$
$720 = 777 - 7 \times 7 - 7 - 7/7.$
$721 = 777 - 7 \times 7 - 7.$
$722 = 777 - 7 \times 7 - 7 + 7/7.$
$723 = 777 - 7 \times 7 - 7 + (7 + 7)/7.$
$724 = 7 \times ((7 + 7) \times 7 + 7) - 77/7.$
$725 = 777 - 7 \times 7 - (7 + 7 + 7)/7.$
$726 = 777 - 7 \times 7 - (7 + 7)/7.$
$727 = 777 - 7 \times 7 - 7/7.$
$728 = 777 - 7 \times 7.$
$729 = 777 - 7 \times 7 + 7/7.$
$730 = 777 - 7 \times 7 + (7 + 7)/7.$
$731 = 777 - 7 \times 7 + (7 + 7 + 7)/7.$
$732 = 777 - 7 \times 7 - 7 + 77/7.$
$733 = 7 \times (7 \times (7 + 7) + 7) - (7 + 7)/7.$
$734 = 7 \times (7 \times (7 + 7) + 7) - 7/7.$
$735 = 7 \times (7 \times (7 + 7) + 7).$
$736 = 7 \times (7 \times (7 + 7) + 7) + 7/7.$
$737 = 7 \times (7 \times (7 + 7) + 7) + (7 + 7)/7.$
$738 = 777 - 7 \times 7 + (77 - 7)/7.$
$739 = 777 - 7 \times 7 + 77/7.$
$740 = 7 \times (7 \times (7 + 7) + 7) + 7 - (7 + 7)/7.$
$741 = 7 \times (7 \times (7 + 7) + 7) + 7 - 7/7.$
$742 = 7 \times (7 \times (7 + 7) + 7) + 7.$
$743 = 7 \times (7 \times (7 + 7) + 7) + 7 + 7/7.$
$744 = 7 \times 77 + 77 + ((7 + 7)/7)^7.$
$745 = 777 - 7 - 7 - 7 - 77/7.$
$746 = 7 \times (7 \times (7 + 7) + 7) + 77/7.$
$747 = 7 \times (7 \times (7 + 7) + 7) + (77 + 7)/7.$
$748 = 777 - 77 + 7 \times 7 - 7/7.$
$749 = 777 + 7 \times 7 - 77.$
$750 = (7 + 7 + 7/7) \times (7 \times 7 + 7/7).$
$751 = 777 - 7 - 7 - (77 + 7)/7.$
$752 = 777 - 7 - 7 - 77/7.$
$753 = 777 - (7 \times 7 \times 7 - 7)/(7 + 7).$
$754 = 777 - 7 - 7 - 7 - (7 + 7)/7.$
$755 = 777 - 7 - 7 - 7 - 7/7.$
$756 = 777 - 7 - 7 - 7.$
$757 = 777 - 7 - 7 - 7 + 7/7.$
$758 = 777 - 7 - (77 + 7)/7.$
$759 = 777 - 7 - 77/7.$
$760 = 777 - 7 - (77 - 7)/7.$
$761 = 777 - 7 - 7 - (7 + 7)/7.$
$762 = 777 - 7 - 7 - 7/7.$

$763 = 777 - 7 - 7.$
$764 = 777 - 7 - 7 + 7/7.$
$765 = 777 - (77 + 7)/7.$
$766 = 777 - 77/7.$
$767 = 777 - (77 - 7)/7.$
$768 = 777 - 7 - (7 + 7)/7.$
$769 = 777 - 7 - 7/7.$
$770 = 777 - 7.$
$771 = 777 - 7 + 7/7.$
$772 = 777 - 7 + (7 + 7)/7.$
$773 = 777 + 7 - 77/7.$
$774 = 777 - (7 + 7 + 7)/7.$
$775 = 777 - (7 + 7)/7.$
$776 = 777 - 7/7.$
$777 = 777.$
$778 = 777 + 7/7.$
$779 = 777 + (7 + 7)/7.$
$780 = 777 + 7 + 7 - 77/7.$
$781 = 777 - 7 + 77/7.$
$782 = 777 + 7 - (7 + 7)/7.$
$783 = 777 + 7 - 7/7.$
$784 = 777 + 7.$
$785 = 777 + 7 + 7/7.$
$786 = 777 + 7 + (7 + 7)/7.$
$787 = 777 + (77 - 7)/7.$
$788 = 777 + 77/7.$
$789 = 777 + (77 + 7)/7.$
$790 = 777 + 7 + 7 - 7/7.$
$791 = 777 + 7 + 7.$
$792 = 777 + 7 + 7 + 7/7.$
$793 = 777 + 7 + 7 + (7 + 7)/7.$
$794 = 777 + 7 + (77 - 7)/7.$
$795 = 777 + 7 + 77/7.$
$796 = 777 + 7 + (77 + 7)/7.$
$797 = 777 + 7 + 7 + 7 - 7/7.$
$798 = 777 + 7 + 7 + 7.$
$799 = 777 + 7 + 7 + 7 + 7/7.$
$800 = (7 \times 7 + 7/7) \times (7 + 7 + (7 + 7)/7).$
$801 = 777 + 7 + 7 + (77 - 7)/7.$
$802 = 777 + 7 + 7 + 77/7.$
$803 = 777 + 7 + 7 + (77 + 7)/7.$
$804 = 777 + 77 - 7 \times 7 - 7/7.$
$805 = 777 + 77 - 7 \times 7.$
$806 = 777 + 77 - 7 \times 7 + 7/7.$
$807 = 7 \times 7 \times (7 + 7) + ((7 + 7)/7)^7 - 7.$
$808 = 777 + 7 \times 7 - 7 - 77/7.$
$809 = 777 + 7 + 7 + 7 + 77/7.$
$810 = (7 - 7/7) \times (7 + ((7 + 7)/7)^7).$
$811 = 777 - 77 + 777/7.$
$812 = 777 + 7 \times 7 - 7 - 7.$
$813 = 777 + 7 \times 7 - 7 - 7 + 7/7.$
$814 = 7 \times 7 \times (7 + 7) + ((7 + 7)/7)^7.$
$815 = 777 + 7 \times 7 - 77/7.$
$816 = 777 + 7 \times 7 - (77 - 7)/7.$
$817 = 777 + 7 \times 7 - 7 - (7 + 7)/7.$
$818 = 777 + 7 \times 7 - 7 - 7/7.$
$819 = 777 + 7 \times 7 - 7.$
$820 = 777 + 7 \times 7 - 7 + 7/7.$
$821 = 777 + 7 \times 7 - 7 + (7 + 7)/7.$
$822 = 777 + 7 \times 7 + 7 - 77/7.$
$823 = 777 + 7 \times 7 - (7 + 7 + 7)/7.$
$824 = 777 + 7 \times 7 - (7 + 7)/7.$
$825 = 777 + 7 \times 7 - 7/7.$
$826 = 777 + 7 \times 7.$
$827 = 777 + 7 \times 7 + 7/7.$
$828 = 777 + 7 \times 7 + (7 + 7)/7.$

$829 = (77 - 7/7) \times 77/7 - 7.$
$830 = 777 + 7 \times 7 - 7 + 77/7.$
$831 = 777 + 7 \times 7 + 7 - (7 + 7)/7.$
$832 = 777 + 7 \times 7 + 7 - 7/7.$
$833 = 777 + 7 \times 7 + 7.$
$834 = 777 + 7 \times 7 + 7 + 7/7.$
$835 = 77 \times 77/7 - (77 + 7)/7.$
$836 = 77 \times (77 - 7/7)/7.$
$837 = 777 + 7 \times 7 + 77/7.$
$838 = (77 \times 77 - 7 - 7)/7 - 7.$
$839 = (77 \times 77 - 7)/7 - 7.$
$840 = 77 \times 77/7 - 7.$
$841 = (77 \times 77 + 7)/7 - 7.$
$842 = (77 \times 77 + 7 + 7)/7 - 7.$
$843 = 777 + 77 - 77/7.$
$844 = 777 + 7 \times 7 + 7 + 77/7.$
$845 = 77 \times 77/7 - (7 + 7)/7.$
$846 = 77 \times 77/7 - 7/7.$
$847 = 77 \times 77/7.$
$848 = 77 \times 77/7 + 7/7.$
$849 = 77 \times 77/7 + (7 + 7)/7.$
$850 = (77 - 7)/7 \times (77 + 7 + 7/7).$
$851 = 77 \times (77 + 7/7)/7 - 7.$
$852 = 777 + 77 - (7 + 7)/7.$
$853 = 777 + 77 - 7/7.$
$854 = 777 + 77.$
$855 = 777 + 77 + 7/7.$
$856 = 777 + 77 + (7 + 7)/7.$
$857 = 77 \times (77 + 7/7)/7 - 7/7.$
$858 = 77 \times (77 + 7/7)/7.$
$859 = 777 + 77 + 7 - (7 + 7)/7.$
$860 = 777 + 77 + 7 - 7/7.$
$861 = 777 + 77 + 7.$
$862 = 777 + 77 + 7 + 7/7.$
$863 = 777 + 77 + 7 + (7 + 7)/7.$
$864 = (7 + 77/7) \times (7 \times 7 - 7/7).$
$865 = 777 + 77 + 77/7.$
$866 = 777 + 77 + (77 + 7)/7.$
$867 = 7 \times (77 + 7 \times 7) - 7 - 7 - 7/7.$
$868 = 777 + 77 + 7 + 7.$
$869 = 77 \times (77 + (7 + 7)/7)/7.$
$870 = 7 \times (7 \times 7 + 77) - (77 + 7)/7.$
$871 = 7 \times (7 \times 7 + 77) - 77/7.$
$872 = 777 + 77 + 7 + 77/7.$
$873 = 7 \times (7 \times 7 + 77) - 7 - (7 + 7)/7.$
$874 = 777 + 7 \times (7 + 7) - 7/7.$
$875 = 777 + 7 \times (7 + 7).$
$876 = 777 + 7 \times (7 + 7) + 7/7.$
$877 = 7 \times (7 \times 7 + 77) - 7 + (7 + 7)/7.$
$878 = 777 + 7777/77.$
$879 = 7 \times (7 \times 7 + 77) - (7 + 7 + 7)/7.$
$880 = (7 + 7/7) \times (777 - 7)/7.$
$881 = 7 \times (7 \times 7 + 77) - 7/7.$
$882 = 7 \times (7 \times 7 + 77).$
$883 = 7 \times (7 \times 7 + 77) + 7/7.$
$884 = 7 \times (7 \times 7 + 77) + (7 + 7)/7.$
$885 = 7 \times ((7 + 7)/7)^7 - 77/7.$
$886 = 777 + (777 - 7 - 7)/7.$
$887 = 777 + (777 - 7)/7.$
$888 = 777 + 777/7.$
$889 = 7 \times ((7 + 7)/7)^7 - 7.$
$890 = 7 \times (7 \times 7 + 77) + 7 + 7/7.$
$891 = 777 - 7 - 7 + ((7 + 7)/7)^7.$
$892 = 7 - 77/7 + ((7 + 7)/7)^7 \times 7.$
$893 = 7 \times (7 \times 7 + 77) + 77/7.$
$894 = 7 \times ((7 + 7)/7)^7 - (7 + 7)/7.$

$895 = 7 \times ((7 + 7)/7)^7 - 7/7.$
$896 = 7 \times ((7 + 7)/7)^7.$
$897 = 7 \times ((7 + 7)/7)^7 + 7/7.$
$898 = 777 - 7 + ((7 + 7)/7)^7.$
$899 = 777 + (777 + 77)/7.$
$900 = (7 \times 7 + 7/7) \times (77/7 + 7).$
$901 = 7 \times ((7 + 7)/7)^7 + 7 - (7 + 7)/7.$
$902 = 7 \times ((7 + 7)/7)^7 + 7 - 7/7.$
$903 = 7 \times ((7 + 7)/7)^7 + 7.$
$904 = 7 \times ((7 + 7)/7)^7 + 7 + 7/7.$
$905 = 777 + ((7 + 7)/7)^7.$
$906 = 77 \times (77 + 7 - 7/7)/7 - 7.$
$907 = 7 \times ((7 + 7)/7)^7 + 77/7.$
$908 = 7 \times ((7 + 7)/7)^7 + (77 + 7)/7.$
$909 = 7 \times ((7 + 7)/7)^7 + 7 + 7 - 7/7.$
$910 = (77 - 7) \times (7 + 7 - 7/7).$
$911 = 7 \times ((7 + 7)/7)^7 + 7 + 7 + 7/7.$
$912 = (77 + 7) \times (77 - 7/7)/7.$
$913 = 77 \times (77 + 7 - 7/7)/7.$
$914 = 7 \times ((7 + 7)/7)^7 + 7 + 77/7.$
$915 = 7777/7 - (7 + 7) \times (7 + 7).$
$916 = (77 \times (77 + 7) - 7)/7 - 7.$
$917 = 77 \times (77 + 7)/7 - 7.$
$918 = (77 \times (77 + 7) + 7)/7 - 7.$
$919 = 777 + 7 + 7 + ((7 + 7)/7)^7.$
$920 = 77 \times (77 + 7 - 7/7)/7 + 7.$
$921 = 77 \times (77 + 7 + 7/7)/7 - 7 - 7.$
$922 = 77 \times (77 + 7)/7 - (7 + 7)/7.$
$923 = 77 \times (77 + 7)/7 - 7/7.$
$924 = 77 \times (77 + 7)/7.$
$925 = (77 \times (77 + 7) + 7)/7.$
$926 = 77 \times (77 + 7)/7 + (7 + 7)/7.$
$927 = 77 \times (77 + 7 - 7/7)/7 + 7 + 7.$
$928 = 77 \times (77 + 7 + 7/7)/7 - 7.$
$929 = 7 \times (7 \times 7 + 77 + 7) - (7 + 7)/7.$
$930 = 7 \times (7 \times 7 + 77 + 7) - 7/7.$
$931 = 7 \times (7 \times 7 + 77 + 7).$
$932 = 7 \times (7 \times 7 + 77 + 7) + 7/7.$
$933 = 7 \times (7 \times 7 + 77 + 7) + (7 + 7)/7.$
$934 = 7 \times (7 + ((7 + 7)/7)^7) - 77/7.$
$935 = 77 \times (77 + 7 + 7/7)/7.$
$936 = (77 + 7) \times (77 + 7/7)/7.$
$937 = 7 \times (7 \times 7 + 7 + 77) + 7 - 7/7.$
$938 = 7 \times (7 \times 7 + 7 + 77) + 7.$
$939 = 7 \times (7 \times 7 + 7 + 77) + 7 + 7/7.$
$940 = 7 + 7 \times (7 \times 7 + 77 + 7) + (7 + 7)/7.$
$941 = (7 \times 7 + 77 + 7) \times 7 + (77 - 7)/7.$
$942 = 7 \times (7 \times 7 + 77 + 7) + 77/7.$
$943 = 7 \times (((7 + 7)/7)^7 + 7) - (7 + 7)/7.$
$944 = (7 + 777/7) \times (7 + 7/7).$
$945 = 7 \times (((7 + 7)/7)^7 + 7).$
$946 = 7 \times (((7 + 7)/7)^7 + 7) + 7/7.$
$947 = 7 \times (((7 + 7)/7)^7 + 7) + (7 + 7)/7.$
$948 = (77 + 7) \times (77 + (7 + 7)/7)/7.$
$949 = 7 \times (7 \times 7 + 77 + 7) + 7 + 77/7.$
$950 = (7 \times 7 + 7/7) \times (7 + (77 + 7)/7).$
$951 = 7 \times 7 \times (7 + 7 + 7) - 77 - 7/7.$
$952 = 7 \times (7 + ((7 + 7)/7)^7) + 7.$
$953 = 7 \times 7 \times (7 + 7 + 7) - 77 + 7/7.$
$954 = 777 + 7 \times 7 + ((7 + 7)/7)^7.$
$955 = (7 + 7) \times (77 - 7 - 7/7) - 77/7.$
$956 = 7 \times (7 + ((7 + 7)/7)^7) + 77/7.$
$957 = (777 + 77 \times 77 - 7)/7.$
$958 = (777 + 77 \times 77)/7.$
$959 = 7 \times (7 \times 7 + 77) + 77.$

$960 = 7 \times (77 + 7 \times 7) + 77 + 7/7.$
$961 = 77 \times (77 + 77/7)/7 - 7.$
$962 = (7 + 7) \times (77 - 7) - 7 - 77/7.$
$963 = (77-7) \times (7+7) - 7 + (7-77)/7.$
$964 = 7777/7 - 7 \times (7 + 7 + 7).$
$965 = 777 + 77 + 777/7.$
$966 = (7 + 7) \times (77 - 7 - 7/7).$
$967 = 77 \times (7 + 7) - 777/7.$
$968 = 77 \times (77 + 77/7)/7.$
$969 = (7 + 7) \times (77 - 7) - 77/7.$
$970 = (7 + 7) \times (77 - 7) - (77 - 7)/7.$
$971 = (7+7) \times (77-7) - 7 - (7+7)/7.$
$972 = (7 + 7) \times (77 - 7) - 7 - 7/7.$
$973 = (7 + 7) \times (77 - 7) - 7.$

$974 = (7 + 7) \times (77 - 7) - 7 + 7/7.$
$975 = (7+7) \times (77-7) - 7 + (7+7)/7.$
$976 = (7 + 7) \times (77 - 7) + 7 - 77/7.$
$977 = (7+7) \times (77-7) - (7+7+7)/7.$
$978 = (7 + 7) \times (77 - 7) - (7 + 7)/7.$
$979 = (7 + 7) \times (77 - 7) - 7/7.$
$980 = (7 + 7) \times (77 - 7).$
$981 = (7 + 7) \times (77 - 7) + 7/7.$
$982 = (7 + 7) \times (77 - 7) + (7 + 7)/7.$
$983 = (7+7) \times (77-7) + (7+7+7)/7.$
$984 = (7 + 7) \times (77 - 7) - 7 + 77/7.$
$985 = (7+7) \times (77-7) + 7 - (7+7)/7.$
$986 = (7 + 7) \times (77 - 7) + 7 - 7/7.$
$987 = (7 + 7) \times (77 - 7) + 7.$

$988 = (7 + 7) \times (77 - 7) + 7 + 7/7.$
$989 = (7+7) \times (77-7) + 7 + (7+7)/7.$
$990 = (7 + 7 + 7/7) \times (77 - 77/7).$
$991 = (7 + 7) \times (77 - 7) + 77/7.$
$992 = (7 + 7) \times (77 - 7) + (77 + 7)/7.$
$993 = (7 + 7) \times (77 - 7) + 7 + 7 - 7/7.$
$994 = (7 + 7) \times (77 - 7) + 7 + 7.$
$995 = (7+7) \times (77-7) + 7 + 7 + 7/7.$
$996 = (7 + 77) \times (7 + 77 - 7/7)/7.$
$997 = (7+7) \times (77-7) + 7 + (77-7)/7.$
$998 = (7 + 7) \times (77 - 7) + 7 + 77/7.$
$999 = 777 \times (7 + (7 + 7)/7)/7.$
$1000 = (7+7+7-7/7) \times (7 \times 7+7/7).$

11. REPRESENTATIONS USING NUMBER 8

$101 = 8888/88.$
$102 = (888 - 8)/8 - 8.$
$103 = (888 - 8 \times 8)/8.$
$104 = 88 + 8 + 8.$
$105 = 88 + 8 + 8 + 8/8.$
$106 = 88 + 8 + (88 - 8)/8.$
$107 = 88 + 8 + 88/8.$
$108 = 8 + (888 - 88)/8.$
$109 = (888 - 8 - 8)/8.$
$110 = (888 - 8)/8.$
$111 = 888/8.$
$112 = (888 + 8)/8.$
$113 = (888 + 8 + 8)/8.$
$114 = (888 + 88)/8 - 8.$
$115 = 888/8 + 8 \times 8/(8 + 8).$
$116 = 8 + 8 + (888 - 88)/8.$
$117 = 8 \times (8 + 8) - 88/8.$
$118 = 8 + (888 - 8)/8.$
$119 = 8 + 888/8.$
$120 = 8 \times (8 + 8) - 8.$
$121 = 88 \times 88/(8 \times 8).$
$122 = (888 + 88)/8.$
$123 = 88 + 8 + 8 + 8 + 88/8.$
$124 = 8 \times (8 + 8) - 8 \times 8/(8 + 8).$
$125 = 8 \times (8 + 8) + 8 - 88/8.$
$126 = 8 \times (8 + 8) - (8 + 8)/8.$
$127 = 8 \times (8 + 8) - 8/8.$
$128 = 8 \times (8 + 8).$
$129 = 8 \times (8 + 8) + 8/8.$
$130 = 8 \times (8 + 8) + (8 + 8)/8.$
$131 = 8 \times (8 + 8) - 8 + 88/8.$
$132 = 8 \times (8 + 8) + 8 \times 8/(8 + 8).$
$133 = (8 + 88/8) \times (8 - 8/8).$
$134 = +8 \times (8 + 8) + 8 - (8 + 8)/8.$
$135 = 8 \times (8 + 8) + 8 - 8/8.$
$136 = 8 \times (8 + 8) + 8.$
$137 = 8 \times (8 + 8) + 8 + 8/8.$
$138 = 8 \times (8 + 8) + (88 - 8)/8.$
$139 = 8 \times (8 + 8) + 88/8.$
$140 = 8 \times (8 + 8) + (88 + 8)/8.$
$141 = 88 + 8 \times 8 - 88/8.$
$142 = 88 + 8 \times 8 - 8 - (8 + 8)/8.$
$143 = 88 + 8 \times 8 - 8 - 8/8.$
$144 = 88 + 8 \times 8 - 8.$
$145 = 88 + 8 \times 8 - 8 + 8/8.$
$146 = 88 + 8 \times 8 - 8 + (8 + 8)/8.$
$147 = 8 \times (8 + 8) + 8 + 88/8.$
$148 = 888/(8 - (8 + 8)/8).$

$149 = 88 + 8 \times 8 + 8 - 88/8.$
$150 = 88 + 8 \times 8 - (8 + 8)/8.$
$151 = 88 + 8 \times 8 - 8/8.$
$152 = 88 + 8 \times 8.$
$153 = 88 + 8 \times 8 + 8/8.$
$154 = 88 + 8 \times 8 + (8 + 8)/8.$
$155 = 88 + 8 \times 8 - 8 + 88/8.$
$156 = 88 + 8 \times 8 + 8 \times 8/(8 + 8).$
$157 = 88 + 8 \times 8 + (88 - 8)/(8 + 8).$
$158 = 88 + 8 \times 8 + 8 - (8 + 8)/8.$
$159 = 88 + 8 \times 8 + 8 - 8/8.$
$160 = 88 + 8 \times 8 + 8.$
$161 = 88 + 8 \times 8 + 8 + 8/8.$
$162 = 88 + 8 \times 8 + 8 + (8 + 8)/8.$
$163 = 88 + 8 \times 8 + 88/8.$
$164 = 88 + 88 - (88 + 8)/8.$
$165 = 88 + 88 - 88/8.$
$166 = 88 + 88 - 8 - (8 + 8)/8.$
$167 = 88 + 88 - 8 - 8/8.$
$168 = 88 + 88 - 8.$
$169 = 88 + 88 - 8 + 8/8.$
$170 = (8 + 8 + 8/8) \times (88 - 8)/8.$
$171 = (8 + 88/8) \times (8 + 8/8).$
$172 = 88 + 88 - 8 \times 8/(8 + 8).$
$173 = 88 + 88 + 8 - 88/8.$
$174 = 88 + 88 - (8 + 8)/8.$
$175 = 88 + 88 - 8/8.$
$176 = 88 + 88.$
$177 = 88 + 88 + 8/8.$
$178 = 88 + 88 + (8 + 8)/8.$
$179 = 88 + 88 - 8 + 88/8.$
$180 = (88 + (8 + 8)/8) \times (8 + 8)/8.$
$181 = 8 \times (8 + 8 + 8) - 88/8.$
$182 = 8 \times (8+8+8) - 8 - (8+8)/8.$
$183 = 88 + 88 + 8 - 8/8.$
$184 = 88 + 88 + 8.$
$185 = 88 + 88 + 8 + 8/8.$
$186 = 88 + 88 + (88 - 8)/8.$
$187 = 88 + 88 + 88/8.$
$188 = 88 + (888 - 88)/8.$
$189 = 88 + 8888/88.$
$190 = 8 \times (8 + 8 + 8) - (8 + 8)/8.$
$191 = 8 \times (8 + 8 + 8) - 8/8.$
$192 = 8 \times (8 + 8 + 8).$
$193 = 8 \times (8 + 8 + 8) + 8/8.$
$194 = 8 \times (8 + 8 + 8) + (8 + 8)/8.$
$195 = 88 + 88 + 8 + 88/8.$
$196 = 8 \times (8+8+8) + 8 \times 8/(8+8).$

$197 = 88 + (888 - 8 - 8)/8.$
$198 = 88 + (888 - 8)/8.$
$199 = 88 + 888/8.$
$200 = 8 \times (8 + 8 + 8) + 8.$
$201 = 8 \times (8 + 8 + 8) + 8 + 8/8.$
$202 = 8 \times (8 + 8 + 8) + (88 - 8)/8.$
$203 = 8 \times (8 + 8 + 8) + 88/8.$
$204 = 8 \times (8 + 8 + 8) + (88 + 8)/8.$
$205 = 8 \times (8 + 8) + 88 - 88/8.$
$206 = 88 + 8 + (888 - 8)/8.$
$207 = 88 + 8 + 888/8.$
$208 = 88 + 8 \times (8 + 8) - 8.$
$209 = 88 + 8 \times (8 + 8) - 8 + 8/8.$
$210 = 88 + (888 + 88)/8.$
$211 = 8 \times (8 + 8 + 8) + 8 + 88/8.$
$212 = 8 \times (8+8+8) + 8 + (88+8)/8.$
$213 = 88 + 8 \times (8 + 8) + 8 - 88/8.$
$214 = 88 + 8 \times (8 + 8) - (8 + 8)/8.$
$215 = 88 + 8 \times (8 + 8) - 8/8.$
$216 = 88 + 8 \times (8 + 8).$
$217 = 88 + 8 \times (8 + 8) + 8/8.$
$218 = 88 + 8 \times (8 + 8) + (8 + 8)/8.$
$219 = 88 + 8 \times (8 + 8) - 8 + 88/8.$
$220 = (888 - 8) \times (8 + 8)/(8 \times 8).$
$221 = 888 \times (8 + 8)/(8 \times 8) - 8/8.$
$222 = 888 \times (8 + 8)/(8 \times 8).$
$223 = 88 + 8 \times (8 + 8) + 8 - 8/8.$
$224 = 88 + 8 \times (8 + 8) + 8.$
$225 = (8 + 8 - 8/8)^{((8+8)/8)}.$
$226 = (888 + 8 + 8) \times (8 + 8)/(8 \times 8).$
$227 = 88 + 8 \times (8 + 8) + 88/8.$
$228 = (8 + 88/8) \times (88 + 8)/8.$
$229 = 8 \times (8 + 8) + 8888/88.$
$230 = 8 + 888 \times (8 + 8)/(8 \times 8).$
$231 = 8 \times (8 + 8) - 8 + 888/8.$
$232 = 88 + 88 + 8 \times 8 - 8.$
$233 = 8 + (8 + 8 - 8/8)^{(8+8)/8}.$
$234 = (8+8+8+(8+8)/8) \times (8+8/8).$
$235 = 8 \times (8 + 8) + 88 + 8 + 88/8.$
$236 = ((8 + 8)/8)^8 - 8 - (88 + 8)/8.$
$237 = ((8 + 8)/8)^8 - 8 - 88/8.$
$238 = 8 \times (8 + 8) + (888 - 8)/8.$
$239 = 8 \times (8 + 8) + 888/8.$
$240 = 88 + 88 + 8 \times 8.$
$241 = (8 + 8) \times (8 + 8 - 8/8) + 8/8.$
$242 = (88 + 88) \times 88/(8 \times 8).$
$243 = ((8 + 8 + 8)/8)^{(8-(8+8+8)/8)}.$
$244 = (8 + 8) \times (8 + 8) - (88 + 8)/8.$

$245 = (8 + 8) \times (8 + 8) - 88/8.$

$246 = (8 + 8) \times (8 + 8) - (88 - 8)/8.$

$247 = (8 + 8) \times (8 + 8) - 8 - 8/8.$

$248 = (8 + 8) \times (8 + 8) - 8.$

$249 = (8 + 8) \times (8 + 8) - 8 + 8/8.$

$250 = (8+8) \times (8+8) - 8 + (8+8)/8.$

$251 = 88 + 88 + 8 \times 8 + 88/8.$

$252 = 8 \times (8 \times 8 \times 8 - 8)/(8 + 8).$

$253 = (8 + 8) \times (8 + 8) + 8 - 88/8.$

$254 = (8 + 8) \times (8 + 8) - (8 + 8)/8.$

$255 = (8 + 8) \times (8 + 8) - 8/8.$

$256 = (8 + 8) \times (8 + 8).$

$257 = (8 + 8) \times (8 + 8) + 8/8.$

$258 = (8 + 8) \times (8 + 8) + (8 + 8)/8.$

$259 = (8+8) \times (8+8) + (8+8+8)/8.$

$260 = 8 \times (8 \times 8 \times 8 + 8)/(8 + 8).$

$261 = (8 + 8 + 8) \times (88 - 8/8)/8.$

$262 = (8+8) \times (8+8) + 8 - (8+8)/8.$

$263 = (8 + 8) \times (8 + 8) + 8 - 8/8.$

$264 = (8 + 8) \times (8 + 8) + 8.$

$265 = (8 + 8) \times (8 + 8) + 8 + 8/8.$

$266 = (8+8) \times (8+8) + 8 + (8+8)/8.$

$267 = (8 + 8) \times (8 + 8) + 88/8.$

$268 = (8 + 8) \times (8 + 8) + (88 + 8)/8.$

$269 = 8 \times (8 + 8 + 8) + 88 - 88/8.$

$270 = (8 + 8) \times (8 + 8) + 8 + 8 - (8 + 8)/8.$

$271 = (8 + 8) \times (8 + 8 + 8/8) - 8/8.$

$272 = (8 + 8) \times (8 + 8 + 8/8).$

$273 = (8 + 8) \times (8 + 8 + 8/8) + 8/8.$

$274 = (8 + 8) \times (8 + 8) + 8 + 8 + (8 + 8)/8.$

$275 = (8 + 8) \times (8 + 8) + 8 + 88/8.$

$276 = (8+8) \times (8+8) + 8 + (88+8)/8.$

$277 = 88 + 8 \times (8 + 8 + 8) - (8 + 8 + 8)/8.$

$278 = (8 \times (8+8) + 88/8) \times (8+8)/8.$

$279 = 8 \times (8 + 8 + 8) + 88 - 8/8.$

$280 = 8 \times (8 + 8 + 8) + 88.$

$281 = 8 \times (8 + 8 + 8) + 88 + 8/8.$

$282 = 8 \times (8+8+8) + 88 + (8+8)/8.$

$283 = 8 \times (8+8+8) + 88 - 8 + 88/8.$

$284 = 8 \times 8 \times (8 \times 8 + 8 - 8/8)/(8 + 8).$

$285 = ((8 + 8 + 8) \times (88 + 8) - 8 - 8 - 8)/8.$

$286 = ((8+8+8) \times (88+8) - 8 - 8)/8.$

$287 = ((8 + 8 + 8) \times (88 + 8) - 8)/8.$

$288 = (8 + 8 + 8) \times (88 + 8)/8.$

$289 = (8 + 8 + 8/8)^{((8+8)/8)}.$

$290 = ((8+8+8) \times (88+8) + 8 + 8)/8.$

$291 = 8 \times (8 + 8 + 8) + 88 + 88/8.$

$292 = 8 \times (8+8+8) + 88 + (88+8)/8.$

$293 = ((8 + 8)/8)^8 + 888/(8 + 8 + 8).$

$294 = 8 + 8 \times 8 + 888 \times (8+8)/(8 \times 8).$

$295 = 8 \times 8 \times (8 \times 8 + 8)/(8 + 8) + 8 - 8/8.$

$296 = 8 \times 888/(8 + 8 + 8).$

$297 = (8 + 8 + 8/8)^{((8+8)/8)} + 8.$

$298 = 8 \times 888/(8+8+8) + (8+8)/8.$

$299 = 8 \times 8 \times (8 \times 8 + 8)/(8+8) + 88/8.$

$300 = 8 \times 8 \times (8 \times 8 + 88/8)/(8 + 8).$

$301 = (8 + 8) \times (8 + 8) + 8 \times 8 - 8 - 88/8.$

$302 = (8 + 8) \times (8 \times 8 + 88 - 8/8)/8.$

$303 = (8 + 8) \times (8 + 88/8) - 8/8.$

$304 = (8 + 8) \times (8 + 88/8).$

$305 = (8 + 8) \times (8 + 88/8) + 8/8.$

$306 = (8+8+(8+8)/8) \times (8+8+8/8).$

$307 = 8 \times (88 \times 8 - 88)/(8 + 8) - 8/8.$

$308 = 8 \times (88 \times 8 - 88)/(8 + 8).$

$309 = (8 + 8 + 8) \times (888/8 - 8)/8.$

$310 = 88 + 888 \times (8 + 8)/(8 \times 8).$

$311 = 8 \times (8 + 8 + 8) + 8 + 888/8.$

$312 = (8 + 8) \times (8 + 8) + 8 \times 8 - 8.$

$313 = (8+8) \times (8+8) + 8 \times 8 - 8 + 8/8.$

$314 = (8+8) \times (8+8) + 8 \times 8 - 8 + (8 + 8)/8.$

$315 = (8 \times 8 - 8/8) \times (8 - (8+8+8)/8).$

$316 = (8 + 8) \times (8 + 8) + 8 \times (8 - 8/(8 + 8)).$

$317 = (8 + 8) \times (8 + 8) + 8 \times 8 + 8 - 88/8.$

$318 = (8 + 8) \times (8 + 8) + 8 \times 8 - (8 + 8)/8.$

$319 = (8+8) \times (8+8) + 8 \times 8 - 8/8.$

$320 = (8+8) \times (8+8) + 8 \times 8.$

$321 = (8+8) \times (8+8) + 8 \times 8 + 8/8.$

$322 = (8 + 8) \times (8 + 8) + 8 \times 8 + (8 + 8)/8.$

$323 = (8+8) \times (8+8) + 8 \times 8 - 8 + 88/8.$

$324 = (8 + 8 + (8 + 8)/8)^{((8+8)/8)}.$

$325 = 888 \times (8 + 8 + 8)/(8 \times 8) - 8.$

$326 = (8+8) \times (8+8) + 8 \times 8 + 8 - (8+8)/8.$

$327 = 8 \times (8 + 8) + 88 + 888/8.$

$328 = (8+8) \times (8+8) + 8 \times 8 + 8.$

$329 = (8-8/8) \times (8 \times 8 - 8 - 8 - 8/8).$

$330 = (8 - (8+8)/8) \times (8 \times 8 - 8 - 8/8).$

$331 = (8+8) \times (8+8) + 88/8 + 8 \times 8.$

$332 = (888 \times (88/8 - 8) - 8)/8.$

$333 = 888 \times (88/8 - 8)/8.$

$334 = 8 \times 8 \times 8 - 88 - 88 - (8+8)/8.$

$335 = 8 \times 8 \times 8 - 88 - 88 - 8/8.$

$336 = 8 \times 8 \times 8 - 88 - 88.$

$337 = 8 \times (8 \times 8 - 8) - 888/8.$

$338 = (8 + 8) \times (8 + 8) + 88 - 8 + (8 + 8)/8.$

$339 = (8+8) \times (8+8) + 8 \times 8 + 8 + 88/8.$

$340 = 8 \times 8 \times 88/(8+8) - (88+8)/8.$

$341 = 888 \times (88/8 - 8)/8 + 8.$

$342 = (8-(8+8)/8) \times (8 \times 8 - 8 + 8/8).$

$343 = (8 - 8/8)^{((8+8+8)/8)}.$

$344 = (8 + 8) \times (8 + 8) + 88.$

$345 = (8 + 8) \times (8 + 8) + 88 + 8/8.$

$346 = (8+8) \times (8+8) + 88 + (8+8)/8.$

$347 = 8 \times 8 \times 88/(8+8) - 8 - 8 + 88/8.$

$348 = 8 \times (8 \times 88 - 8)/(8 + 8).$

$349 = 8 \times 8 \times 88/(8 + 8) + 8 - 88/8.$

$350 = 8 \times 8 \times 88/(8 + 8) - (8 + 8)/8.$

$351 = 8 \times 8 \times 88/(8 + 8) - 8/8.$

$352 = 8 \times 8 \times 88/(8 + 8).$

$353 = 8 \times 8 \times 88/(8 + 8) + 8/8.$

$354 = 8 \times 8 \times 88/(8 + 8) + (8 + 8)/8.$

$355 = 8 \times 8 \times 88/(8+8) + (8+8+8)/8.$

$356 = 8 \times 8 \times (88 + 8/8)/(8 + 8).$

$357 = (8 + 8 + 8) \times (8 + 888/8)/8.$

$358 = 8 \times (8 \times 8 - 8) - 88 - (8+8)/8.$

$359 = 8 \times (8 \times 8 - 8) - 88 - 8/8.$

$360 = 8 \times (8 \times 8 - 8) - 88.$

$361 = (8 + 88/8)^{((8+8)/8)}.$

$362 = 8 \times (8 \times 8 - 8) - 88 + (8+8)/8.$

$363 = 8 \times 8 \times 88/(8 + 8) + 88/8.$

$364 = 8 + 8 \times (8 \times 88 + 8)/(8 + 8).$

$365 = (8+8) \times (8+8+8) - 8 - 88/8.$

$366 = 888 - 8 \times 8 \times 8 - 8 - (8+8)/8.$

$367 = (8 + 8) \times (8 + 8) + 888/8.$

$368 = 888 - 8 \times 8 \times 8 - 8.$

$369 = (8 + 88/8)^{((8+8)/8)} + 8.$

$370 = 888 - 8 \times 8 \times 8 - 8 + (8+8)/8.$

$371 = 8 \times (8 \times 8 - 8) - 88 + 88/8.$

$372 = (8+8) \times (8+8+8) - (88+8)/8.$

$373 = (8 + 8) \times (8 + 8 + 8) - 88/8.$

$374 = 888 - 8 \times 8 \times 8 - (8 + 8)/8.$

$375 = 888 - 8 \times 8 \times 8 - 8/8.$

$376 = 888 - 8 \times 8 \times 8.$

$377 = 888 - 8 \times 8 \times 8 + 8/8.$

$378 = 888 - 8 \times 8 \times 8 + (8 + 8)/8.$

$379 = 888 - 8 \times 8 \times 8 + (8+8+8)/8.$

$380 = (8 + 8) \times (8 + 8 + 8) - 8 \times 8/(8 + 8).$

$381 = 8 \times (8 \times 8 - 8 - 8) + 8 - 88/8.$

$382 = 8 \times (8 \times 8 - 8 - 8) - (8+8)/8.$

$383 = (8 + 8) \times (8 + 8 + 8) - 8/8.$

$384 = (8 + 8) \times (8 + 8 + 8).$

$385 = (8 + 8) \times (8 + 8 + 8) + 8/8.$

$386 = (8+8) \times (8+8+8) + (8+8)/8.$

$387 = (8 + 8) \times (8 + 8 + 8) + (8 + 8 + 8)/8.$

$388 = (8 + 8) \times (8 + 8 + 8) + 8 \times 8/(8 + 8).$

$389 = (8 + 8) \times (8 + 8 + 8) + 8 - (8 + 8 + 8)/8.$

$390 = (8 + 8) \times (8 + 8 + 8) + 8 - (8 + 8)/8.$

$391 = (8+8) \times (8+8+8) + 8 - 8/8.$

$392 = (8 + 8) \times (8 + 8 + 8) + 8.$

$393 = 8 \times 8 \times 8 - 8 - 888/8.$

$394 = (8+8) \times (8+8+8) + (88-8)/8.$

$395 = (8 + 8) \times (8 + 8 + 8) + 88/8.$

$396 = (8+8) \times (8+8+8) + (88+8)/8.$

$397 = 8 \times (8 \times 88 + 88)/(8 + 8) + 8/8.$

$398 = (8 + 8) \times (88 + 888/8)/8.$

$399 = (8+8) \times (8+8+8) + 8 + 8 - 8/8.$

$400 = (8 + 8) \times (8 + 8 + 8) + 8 + 8.$

$401 = 8 \times 8 \times 8 - 888/8.$

$402 = 8 \times 8 \times 8 - (888 - 8)/8.$

$403 = 8 \times (8 \times 8 - 8 - 8) + 8 + 88/8.$

$404 = 8 + 88 \times (8 \times 8 + 8)/(8 + 8).$

$405 = (8 + 8/8) \times (8 \times 8 - 8 - 88/8).$

$406 = (8 + 8 + 8) \times (8 + 8 + 8/8) - (8 + 8)/8.$

$407 = (8+8+8) \times (8+8+8/8) - 8/8.$

$408 = (8 + 8 + 8) \times (8 + 8 + 8/8).$

$409 = 8 \times 8 \times 8 + 8 - 888/8.$

$410 = 8 \times 8 \times 8 + 8 - (888 - 8)/8.$

$411 = (8 + 8) \times (8 + 8 + 8) + 8 + 8 + 88/8.$

$412 = 8 \times 8 \times (888/8 - 8)/(8 + 8).$

$413 = 8 \times 8 \times 8 - 88 - 88/8.$

$414 = 8 \times 8 \times 8 - 88 - (88 - 8)/8.$

$415 = 8 \times 8 \times 8 - 88 - 8 - 8/8.$

$416 = 8 \times 8 \times 8 - 88 - 8.$

$417 = 8 \times 8 \times 8 - 88 - 8 + 8/8.$

$418 = 8 \times 8 \times 8 - 88 - 8 + (8+8)/8.$

$419 = 8 \times 8 \times 8 - 88 - 8 + (8+8+8)/8.$

$420 = 8 \times 8 \times 8 - 88 - 8 \times 8/(8 + 8).$

$421 = 8 \times 8 \times 8 - 88 - (8 + 8 + 8)/8.$
$422 = 8 \times 8 \times 8 - 88 - (8 + 8)/8.$
$423 = 8 \times 8 \times 8 - 88 - 8/8.$
$424 = 8 \times 8 \times 8 - 88.$
$425 = 8 \times 8 \times 8 - 88 + 8/8.$
$426 = 8 \times 8 \times 8 - 88 + (8 + 8)/8.$
$427 = 8 \times 8 \times 8 - 88 + (8 + 8 + 8)/8.$
$428 = 8 \times 8 \times 8 - 88 + 8 \times 8/(8 + 8).$
$429 = 8 \times (8 \times 8 - 8) - 8 - 88/8.$
$430 = 8 \times 8 \times 8 + 8 - 88 - (8 + 8)/8.$
$431 = 8 \times 8 \times 8 + 8 - 88 - 8/8.$
$432 = 8 \times 8 \times 8 - 88 + 8.$
$433 = 8 \times 8 \times 8 - 88 + 8 + 8/8.$
$434 = (8 - 8/8) \times (8 \times 8 - (8 + 8)/8).$
$435 = 8 \times 8 \times 8 - 88 + 88/8.$
$436 = 8 \times 888/(8 + 8) - 8.$
$437 = 8 \times (8 \times 8 - 8) - 88/8.$
$438 = 8 \times (8 \times 8 - 8) - (88 - 8)/8.$
$439 = 8 \times (8 \times 8 - 8) - 8 - 8/8.$
$440 = 8 \times (8 \times 8 - 8) - 8.$
$441 = 8 \times (8 \times 8 - 8) - 8 + 8/8.$
$442 = 8 \times (8 \times 8 - 8) - 8 + (8 + 8)/8.$
$443 = 8 \times 888/(8 + 8) - 8/8.$
$444 = 8 \times 888/(8 + 8).$
$445 = 8 \times (8 \times 8 - 8) + 8 - 88/8.$
$446 = 8 \times (8 \times 8 - 8) - (8 + 8)/8.$
$447 = 8 \times (8 \times 8 - 8) - 8/8.$
$448 = 8 \times (8 \times 8 - 8).$
$449 = 8 \times (8 \times 8 - 8) + 8/8.$
$450 = 8 \times (8 \times 8 - 8) + (8 + 8)/8.$
$451 = 8 \times (8 \times 8 - 8) - 8 + 88/8.$
$452 = 8 \times 888/(8 + 8) + 8.$
$453 = 8 \times (8 \times 8 - 8) + 8 - (8 + 8 + 8)/8.$
$454 = 8 \times (8 \times 8 - 8) + 8 - (8 + 8)/8.$
$455 = 8 \times (8 \times 8 - 8) + 8 - 8/8.$
$456 = 8 \times (8 \times 8 - 8) + 8.$
$457 = 8 \times (8 \times 8 - 8) + 8 + 8/8.$
$458 = 8 \times (8 \times 8 - 8) + 8 + (8 + 8)/8.$
$459 = 8 \times (8 \times 8 - 8) + 88/8.$
$460 = 8 \times (8 \times 8 - 8) + (88 + 8)/8.$
$461 = 8 \times (8 \times 8 - 8) + 8 + 8 - (8 + 8 + 8)/8.$
$462 = (8 \times 8 + (8 + 8)/8) \times (8 - 8/8).$
$463 = 8 \times (8 \times 8 - 8) + 8 + 8 - 8/8.$
$464 = 8 \times (8 \times 8 - 8) + 8 + 8.$
$465 = 8 \times (8 \times 8 - 8) + 8 + 8 + 8/8.$
$466 = 8 \times (8 \times 8 - 8) + 8 + 8 + (8 + 8)/8.$
$467 = 8 \times (8 \times 8 - 8) + 8 + 88/8.$
$468 = 8 \times 8 \times 8 - 8 \times 88/(8 + 8).$
$469 = (8 - 8/8) \times (8 \times 8 + (8 + 8 + 8)/8).$
$470 = 8 \times (8 \times 8 - 8) + (88 + 88)/8.$
$471 = (8 + 8) \times (8 + 8 + 8) + 88 - 8/8.$
$472 = (8 + 8) \times (8 + 8 + 8) + 88.$
$473 = (8 + 8) \times (8 + 8 + 8) + 88 + 8/8.$
$474 = (88 - 8 - 8/8) \times (8 - (8 + 8)/8).$
$475 = 8 \times 8 \times 8 - 888/(8 + 8 + 8).$
$476 = 8 \times (8 + 8/(8 + 8)) \times (8 - 8/8).$
$477 = 8 \times 8 \times 8 - 8 - 8 - 8 - 88/8.$
$478 = 8 \times 8 \times (8 - 8/(8 + 8)) - (8 + 8)/8.$
$479 = 8 \times 8 \times (8 - 8/(8 + 8)) - 8/8.$
$480 = 8 \times 8 \times (8 - 8/(8 + 8)).$
$481 = 8 \times 8 \times (8 - 8/(8 + 8)) + 8/8.$
$482 = 8 \times 8 \times (8 - 8/(8 + 8)) + (8 + 8)/8.$
$483 = 8 \times 8 \times (8 - 8/(8 + 8)) + (8 + 8)/8.$
$484 = ((88 + 88)/8)^{((8+8)/8)}.$

$485 = 8 \times 8 \times 8 - 8 - 8 - 88/8.$
$486 = (88 - 8 + 8/8) \times (8 - (8 + 8)/8).$
$487 = 8 \times 8 \times 8 - 8 - 8 - 8 - 8/8.$
$488 = 8 \times 8 \times 8 - 8 - 8 - 8.$
$489 = 8 \times 8 \times 8 - 8 - 8 - 8 + 8/8.$
$490 = 8 \times 8 \times 8 - 8 - 8 - 8 + (8 + 8)/8.$
$491 = 8 \times 8 \times 8 - 8 - 8 - 8 + (8 + 8)/8.$
$492 = 8 \times (8 \times 8 - 8/(8 + 8)) - 8 - 8.$
$493 = 8 \times 8 \times 8 - 8 - 88/8.$
$494 = 8 \times 8 \times 8 - 8 - 8 - (8 + 8)/8.$
$495 = 8 \times 8 \times 8 - 8 - 8 - 8/8.$
$496 = 8 \times 8 \times 8 - 8 - 8.$
$497 = 8 \times 8 \times 8 - 8 - 8 + 8/8.$
$498 = 8 \times 8 \times 8 - 8 - 8 + (8 + 8)/8.$
$499 = 8 \times 8 \times 8 - (88 + 8 + 8)/8.$
$500 = 8 \times 8 \times 8 - (88 + 8)/8.$
$501 = 8 \times 8 \times 8 - 88/8.$
$502 = 8 \times 8 \times 8 - (88 - 8)/8.$
$503 = 8 \times 8 \times 8 - 8 - 8/8.$
$504 = 8 \times 8 \times 8 - 8.$
$505 = 8 \times 8 \times 8 - 8 + 8/8.$
$506 = 8 \times 8 \times 8 - 8 + (8 + 8)/8.$
$507 = 8 \times 8 \times 8 - 8 - 8 + 88/8.$
$508 = 8 \times (8 \times 8 - 8/(8 + 8)).$
$509 = 8 \times 8 \times 8 - (8 + 8 + 8)/8.$
$510 = 8 \times 8 \times 8 - (8 + 8)/8.$
$511 = 8 \times 8 \times 8 - 8/8.$
$512 = 8 \times 8 \times 8.$
$513 = 8 \times 8 \times 8 + 8/8.$
$514 = 8 \times 8 \times 8 + (8 + 8)/8.$
$515 = 8 \times 8 \times 8 - 8 + 88/8.$
$516 = 8 \times (8 \times 8 + 8/(8 + 8)).$
$517 = 8 \times 8 \times 8 + 8 - (8 + 8 + 8)/8.$
$518 = 8 \times 8 \times 8 + 8 - (8 + 8)/8.$
$519 = 8 \times 8 \times 8 + 8 - 8/8.$
$520 = 8 \times 8 \times 8 + 8.$
$521 = 8 \times 8 \times 8 + 8 + 8/8.$
$522 = 8 \times 8 \times 8 + (88 - 8)/8.$
$523 = 8 \times 8 \times 8 + 88/8.$
$524 = 8 \times 8 \times 8 + (88 + 8)/8.$
$525 = 8 \times 8 \times 8 + 8 + 8 + 8 - 88/8.$
$526 = 8 \times 8 \times 8 + 8 + 8 - (8 + 8)/8.$
$527 = 8 \times 8 \times 8 + 8 + 8 - 8/8.$
$528 = 8 \times 8 \times 8 + 8 + 8.$
$529 = 8 \times 8 \times 8 + 8 + 8 + 8/8.$
$530 = 8 \times 8 \times 8 + 8 + 8 + (8 + 8)/8.$
$531 = 8 \times 8 \times 8 + 8 + 88/8.$
$532 = 8 \times 8 \times 8 + 8 + (88 + 8)/8.$
$533 = 8 \times 8 \times 8 + 8 + (88 + 8 + 8)/8.$
$534 = 8 \times 8 \times 8 + 8 + 8 + 8 - (8 + 8)/8.$
$535 = 8 \times 8 \times 8 + 8 + 8 + 8 - 8/8.$
$536 = 8 \times (8 \times 8 - 8) + 88.$
$537 = 8 \times (8 \times 8 - 8) + 88 + 8/8.$
$538 = 8 \times (8 \times 8 - 8) + 88 + (8 + 8)/8.$
$539 = 8 \times 8 \times 8 + 8 + 8 + 88/8.$
$540 = 8 \times 8 \times 8 + 8 + 8 + (88 + 8)/8.$
$541 = (88 - 8) \times 8 - 88 - 88/8.$
$542 = 8 \times 8 \times (8 + 8/(8 + 8)) - (8 + 8)/8.$
$543 = 8 \times 8 \times (8 + 8/(8 + 8)) - 8/8.$
$544 = 8 \times 8 \times (8 + 8/(8 + 8)).$
$545 = 8 \times 8 \times (8 + 8/(8 + 8)) + 8/8.$
$546 = 8 \times 8 \times (8 + 8/(8 + 8)) + (8 + 8)/8.$
$547 = 8 \times 8 \times 8 + 8 + 8 + 8 + 88/8.$
$548 = 8 \times (88 - 8 - 8/(8 + 8)) - 88.$
$549 = 8 \times (8 \times 8 + 8) - 8 - 8 - 88/8.$

$550 = 8 \times (88 - 8) - 88 - (8 + 8)/8.$
$551 = 8 \times (88 - 8) - 88 - 8/8.$
$552 = 8 \times (88 - 8) - 88.$
$553 = 8 \times (88 - 8) - 88 + 8/8.$
$554 = 8 \times (88 - 8) - 88 + (8 + 8)/8.$
$555 = 888 \times (8 - (8 + 8 + 8)/8)/8.$
$556 = 8 \times 8 \times 8 + 8 \times 88/(8 + 8).$
$557 = 8 \times (8 \times 8 + 8) - 8 - 88/8.$
$558 = (8 + 8/8) \times (8 \times 8 - (8 + 8)/8).$
$559 = (8 \times 8 - 8) \times 8 + 888/8.$
$560 = 8 \times 8 \times 8 + 8 \times 8 - 8 - 8.$
$561 = 8 \times 8 \times 8 + 8 \times 8 - 8 - 8 + 8/8.$
$562 = 8 \times (8 + 8 \times 8) - 8 - 8 + (8 + 8)/8.$
$563 = 8 \times (8 \times 8 + 8) - (88 + 8 + 8)/8.$
$564 = 8 \times (8 \times 8 + 8 - 8/(8 + 8)) - 8.$
$565 = 8 \times (8 \times 8 + 8) - 88/8.$
$566 = 8 \times (8 \times 8 + 8) - 8 - (8 + 8)/8.$
$567 = (8 + 8/8) \times (8 \times 8 - 8/8).$
$568 = 8 \times (8 \times 8 + 8) - 8.$
$569 = 8 \times (8 \times 8 + 8) - 8 + 8/8.$
$570 = 8 \times (8 \times 8 + 8) - 8 + (8 + 8)/8.$
$571 = 8 \times (8 + 8 \times 8) - 8 - 8 + 88/8.$
$572 = 8 \times (8 \times 8 + 8 - 8/(8 + 8)).$
$573 = 8 \times (8 \times 8 + 8) - (8 + 8 + 8)/8.$
$574 = 8 \times (8 \times 8 + 8) - (8 + 8)/8.$
$575 = 8 \times (8 \times 8 + 8) - 8/8.$
$576 = 8 \times (8 \times 8 + 8).$
$577 = 8 \times (8 \times 8 + 8) + 8/8.$
$578 = 8 \times (8 \times 8 + 8) + (8 + 8)/8.$
$579 = 8 \times (8 \times 8 + 8) + (8 + 8 + 8)/8.$
$580 = 8 \times (8 \times 8 + 8 + 8/(8 + 8)).$
$581 = 8 \times (8 \times 8 + 8) + 8 + 8 - 88/8.$
$582 = 8 \times (8 \times 8 + 8) + 8 - (8 + 8)/8.$
$583 = 8 \times (8 \times 8 + 8) + 8 - 8/8.$
$584 = 8 \times (8 \times 8 + 8) + 8.$
$585 = 8 \times (8 \times 8 + 8) + 8 + 8/8.$
$586 = 8 \times (8 \times 8 + 8) + 8 + (8 + 8)/8.$
$587 = 8 \times (8 \times 8 + 8) + 88/8.$
$588 = 8 \times (8 \times 8 + 8) + (88 + 8)/8.$
$589 = 8 \times 8 \times 8 - 88/8 + 88.$
$590 = 8 \times 8 \times 8 + 88 - 8 - (8 + 8)/8.$
$591 = 8 \times 8 \times 8 + 88 - 8 - 8/8.$
$592 = 8 \times 8 \times 8 + 88 - 8.$
$593 = 8 \times 88 - 888/8.$
$594 = 8 \times 88 - (888 - 8)/8.$
$595 = (8 + 88 - 88/8) \times (8 - 8/8).$
$596 = 8 \times (8 \times 8 - 8/(8 + 8)) + 88.$
$597 = 88 \times (8 - 8/8) - 8 - 88/8.$
$598 = 8 \times 8 \times 8 + 88 - (8 + 8)/8.$
$599 = 8 \times 8 \times 8 + 88 - 8/8.$
$600 = 8 \times 8 \times 8 + 88.$
$601 = 8 \times 8 \times 8 + 88 + 8/8.$
$602 = 8 \times 8 \times 8 + 88 + (8 + 8)/8.$
$603 = 88 \times 8 - 8888/88.$
$604 = 8 \times 8 \times 8 + 88 + 8 \times 8/(8 + 8).$
$605 = 88 \times 8 - 88 - 88/8.$
$606 = 8 \times 88 - 88 - 8 - (8 + 8)/8.$
$607 = 8 \times 88 - 88 - 8 - 8/8.$
$608 = 8 \times 88 - 88 - 8.$
$609 = (8 - 8/8) \times (88 - 8/8).$
$610 = 88 \times 8 - 88 - 8 + (8 + 8)/8.$
$611 = 8 \times 8 \times 8 + 88 + 88/8.$
$612 = 8 \times (88 - 8/(8 + 8)) - 88.$
$613 = 8 \times (88 - 8) - 8 - 8 - 88/8.$
$614 = 8 \times 88 - 88 - (8 + 8)/8.$
$615 = 8 \times 88 - 88 - 8/8.$

$616 = 8 \times 88 - 88.$
$617 = 8 \times 88 - 88 + 8/8.$
$618 = 8 \times 88 - 88 + (8 + 8)/8.$
$619 = 8 \times 88 - 88 + (8 + 8 + 8)/8.$
$620 = 88 \times (8 - 8/8) + 8 \times 8/(8 + 8).$
$621 = 8 \times (88 - 8) - 8 - 88/8.$
$622 = 88 \times 8 - 88 + 8 - (8 + 8)/8.$
$623 = 8 \times 8 \times 8 + 888/8.$
$624 = 8 \times 88 - 88 + 8.$
$625 = 8 \times 88 - 88 + 8 + 8/8.$
$626 = 8 \times 88 - 88 + 8 + (8 + 8)/8.$
$627 = 8 \times 88 - 88 + 88/8.$
$628 = 8 \times (88 - 8) - (88 + 8)/8.$
$629 = 8 \times (88 - 8) - 88/8.$
$630 = 8 \times (88 - 8) - (88 - 8)/8.$
$631 = 8 \times (88 - 8) - 8 - 8/8.$
$632 = 8 \times (88 - 8) - 8.$
$633 = 8 \times (88 - 8) - 8 + 8/8.$
$634 = 8 \times (88 - 8) - 8 + (8 + 8)/8.$
$635 = 8 \times (88 - 8) - 8 - 8 + 88/8.$
$636 = 8 \times (88 - 8 - 8/(8 + 8)).$
$637 = 8 \times (88 - 8) + 8 - 88/8.$
$638 = 8 \times (88 - 8) - (8 + 8)/8.$
$639 = 8 \times (88 - 8) - 8/8.$
$640 = 8 \times (88 - 8).$
$641 = 8 \times (88 - 8) + 8/8.$
$642 = 8 \times (88 - 8) + (8 + 8)/8.$
$643 = 8 \times (88 - 8) - 8 + 88/8.$
$644 = 8 \times (88 - 8 + 8/(8 + 8)).$
$645 = 8 \times (88 - 8) + 8 - (8 + 8 + 8)/8.$
$646 = 8 \times (88 - 8) + 8 - (8 + 8)/8.$
$647 = 8 \times (88 - 8) + 8 - 8/8.$
$648 = 8 \times (88 - 8) + 8.$
$649 = 8 \times (88 - 8) + 8 + 8/8.$
$650 = 8 \times (88 - 8) + (88 - 8)/8.$
$651 = 8 \times (88 - 8) + 88/8.$
$652 = 8 \times (88 - 8) + (88 + 8)/8.$
$653 = 8 \times (88 - 8) + (88 + 8 + 8)/8.$
$654 = 8 \times (88 - 8) + 8 + 8 - (8 + 8)/8.$
$655 = 8 \times (88 - 8) + 8 + 8 - 8/8.$
$656 = 8 \times (88 - 8) + 8 + 8.$
$657 = 8 \times (88 - 8) + 8 + 8 + 8/8.$
$658 = 8 \times (88 - 8) + 8 + 8 + (8 + 8)/8.$
$659 = 8 \times (88 - 8) + 8 + 88/8.$
$660 = 8 \times 88 \times (8 - 8/(8 + 8))/8.$
$661 = 8 \times (8 \times 8 + 8) + 88 - (8 + 8 + 8)/8.$
$662 = 8 \times (8 \times 8 + 8) + 88 - (8 + 8)/8.$
$663 = 8 \times (8 \times 8 + 8) + 88 - 8/8.$
$664 = 8 \times (8 \times 8 + 8) + 88.$
$665 = 8 \times (8 \times 8 + 8) + 88 + 8/8.$
$666 = 888 \times (8 - (8 + 8)/8)/8.$
$667 = 8 \times (88 - 8) + 8 + 8 + 88/8.$
$668 = 8 \times (88 + 8) - 88 - (88 + 8)/8.$
$669 = 8 \times (88 + 8) - 88 - 88/8.$
$670 = (88 + 8) \times (8 - 8/8) - (8 + 8)/8.$
$671 = (88 + 8) \times (8 - 8/8) - 8/8.$
$672 = (88 + 8) \times (8 - 8/8).$
$673 = (8 - 8/8) \times (88 + 8) + 8/8.$
$674 = (8 - 8/8) \times (88 + 8) + (8 + 8)/8.$
$675 = (8 \times 8 + 88/8) \times (8 + 8/8).$
$676 = 8 \times 88 - 8 - 8 - (88 + 8)/8.$
$677 = 8 \times 88 - 8 - 8 - 88/8.$
$678 = 8 \times (88 + 8) - 88 - (8 + 8)/8.$
$679 = 8 \times (88 + 8) - 88 - 8/8.$
$680 = 8 \times (88 + 8) - 88.$

$681 = 8 \times (88 + 8) - 88 + 8/8.$
$682 = 8 \times 88 - (88 + 88)/8.$
$683 = 8 \times 88 - (88 + 88 - 8)/8.$
$684 = 8 \times 88 - 8 - (88 + 8)/8.$
$685 = 8 \times 88 - 8 - 88/8.$
$686 = 8 \times 88 - 8 - 8 - (8 + 8)/8.$
$687 = 8 \times 88 - 8 - 8 - 8/8.$
$688 = 8 \times 88 - 8 - 8.$
$689 = 8 \times 88 - 8 - 8 + 8/8.$
$690 = 8 \times 88 - 8 - 8 + (8 + 8)/8.$
$691 = 8 \times 88 - (88 + 8 + 8)/8.$
$692 = 8 \times 88 - (88 + 8)/8.$
$693 = 8 \times 88 - 88/8.$
$694 = 8 \times 88 - (88 - 8)/8.$
$695 = 8 \times 88 - 8 - 8/8.$
$696 = 8 \times 88 - 8.$
$697 = 8 \times 88 - 8 + 8/8.$
$698 = 8 \times 88 - 8 + (8 + 8)/8.$
$699 = 8 \times 88 - 8 + (8 + 8 + 8)/8.$
$700 = 8 \times 88 - 8 \times 8/(8 + 8).$
$701 = 8 \times 88 + 8 - 88/8.$
$702 = 8 \times 88 - (8 + 8)/8.$
$703 = 8 \times 88 - 8/8.$
$704 = 8 \times 88.$
$705 = 8 \times 88 + 8/8.$
$706 = 8 \times 88 + (8 + 8)/8.$
$707 = 8 \times 88 - 8 + 88/8.$
$708 = 8 \times (88 + 8/(8 + 8)).$
$709 = 8 \times 88 + 8 - (8 + 8 + 8)/8.$
$710 = 8 \times 88 + 8 - (8 + 8)/8.$
$711 = 8 \times 88 + 8 - 8/8.$
$712 = 8 \times 88 + 8.$
$713 = 8 \times 88 + 8 + 8/8.$
$714 = 8 \times 88 + 8 + (8 + 8)/8.$
$715 = 8 \times 88 + 88/8.$
$716 = 8 \times 88 + (88 + 8)/8.$
$717 = 8 \times 88 + (88 + 8 + 8)/8.$
$718 = 8 \times 88 + 8 + 8 - (8 + 8)/8.$
$719 = 8 \times 88 + 8 + 8 - 8/8.$
$720 = 8 \times 88 + 8 + 8.$
$721 = 8 \times 88 + 8 + 8 + 8/8.$
$722 = 8 \times 88 + 8 + 8 + (8 + 8)/8.$
$723 = 88 \times 8 + 8 + 88/8.$
$724 = 8 \times (88 + 8/(8 + 8)) + 8 + 8.$
$725 = 8 \times 88 + (88 + 88 - 8)/8.$
$726 = 8 \times 88 + (88 + 88)/8.$
$727 = 8 \times (88 - 8) + 88 - 8/8.$
$728 = 8 \times (88 - 8) + 88.$
$729 = 8 \times (88 - 8) + 88 + 8/8.$
$730 = 8 \times (88 - 8) + 88 + (8 + 8)/8.$
$731 = 8 \times (88 - 8) + 88 - 8 + 88/8.$
$732 = 8 \times (88 + 8/(8 + 8)) + 8 + 8 + 8.$
$733 = 888 - 88 - 8 \times 8 - (8 + 8 + 8)/8.$
$734 = 888 - 88 - 8 \times 8 - (8 + 8)/8.$
$735 = 888 - 88 - 8 \times 8 - 8/8.$
$736 = 888 - 88 - 8 \times 8.$
$736 = 888 - 88 - 8 \times 8.$
$737 = 888 - 88 - 8 \times 8 + 8/8.$
$738 = 888 - 88 - 8 \times 8 + (8 + 8)/8.$
$739 = 8 \times (88 - 8) + 88 + 88/8.$
$740 = 8 \times (88 - 8) + 88 + (88 + 8)/8.$
$741 = 8 \times (88 + 8) - 8 - 8 - 88/8.$
$742 = 8 \times (88 + 8) - 8 - 8 - (88 - 8)/8.$
$743 = 8 \times (88 + 8) - 8 - 8 - 8 - 8/8.$
$744 = 8 \times (88 + 8) - 8 - 8 - 8.$
$745 = 8 \times (88 + 8) - 8 - 8 - 8 + 8/8.$

$746 = 8 \times (88 + 8) - (88 + 88)/8.$
$747 = 888 - 88 - 8 \times 8 + 88/8.$
$748 = 8 \times (88 + 8) - 8 - (88 + 8)/8.$
$749 = 8 \times (88 + 8) - 8 - 88/8.$
$750 = 8 \times (88 + 8) - 8 - (88 - 8)/8.$
$751 = 8 \times (88 + 8) - 8 - 8 - 8/8.$
$752 = 8 \times (88 + 8) - 8 - 8.$
$753 = 8 \times (88 + 8) - 8 - 8 + 8/8.$
$754 = 8 \times (88 + 8) - 8 - 8 + (8 + 8)/8.$
$755 = 8 \times (88 + 8) - (88 + 8 + 8)/8.$
$756 = 8 \times (88 + 8) - (88 + 8)/8.$
$757 = 8 \times (88 + 8) - 88/8.$
$758 = 8 \times (88 + 8) - (88 - 8)/8.$
$759 = 8 \times (88 + 8) - 8 - 8/8.$
$760 = 8 \times (88 + 8) - 8.$
$761 = 8 \times (88 + 8) - 8 + 8/8.$
$762 = 8 \times (88 + 8) - 8 + (8 + 8)/8.$
$763 = 8 \times (88 + 8) - 8 + (8 + 8 + 8)/8.$
$764 = 8 \times (88 + 8 - 8/(8 + 8)).$
$765 = 8 \times (88 + 8) + 8 - 88/8.$
$766 = (88 + 8) \times 8 - (8 + 8)/8.$
$767 = (88 + 8) \times 8 - 8/8.$
$768 = (88 + 8) \times 8.$
$769 = (88 + 8) \times 8 + 8/8.$
$770 = (88 + 8) \times 8 + (8 + 8)/8.$
$771 = 8 \times (88 + 8) - 8 + 88/8.$
$772 = 8 \times (88 + 8) + 8 \times 8/(8 + 8).$
$773 = 8 \times (88 + 8) + 8 + 8 - 88/8.$
$774 = 8 \times (88 + 8) + 8 - (8 + 8)/8.$
$775 = 8 \times (88 + 8) + 8 - 8/8.$
$776 = 8 \times (88 + 8) + 8.$
$777 = 888 - 888/8.$
$778 = 8 \times (88 + 8) + 8 + (8 + 8)/8.$
$779 = 8 \times (88 + 8) + 88/8.$
$780 = 8 \times (88 + 8 + 8/(8 + 8)) + 8.$
$781 = 8 \times 88 + 88 - 88/8.$
$782 = 8 \times (88 + 8) + 8 + 8 - (8 + 8)/8.$
$783 = 8 \times (88 + 8) + 8 + 8 - 8/8.$
$784 = 8 \times 88 + 88 - 8.$
$785 = 888 + 8 - 888/8.$
$786 = 8 \times (88 + 8) + 8 + (88 - 8)/8.$
$787 = 8 \times (88 + 8) + 8 + 88/8.$
$788 = 8 \times (88 - 8/(8 + 8)) + 88.$
$789 = 888 - 88 - 88/8.$
$790 = 8 \times 88 + 88 - (8 + 8)/8.$
$791 = 8 \times 88 + 88 - 8/8.$
$792 = 8 \times 88 + 88.$
$793 = 8 \times 88 + 88 + 8/8.$
$794 = 8 \times 88 + 88 + (8 + 8)/8.$
$795 = 8 \times 88 + 88 + (8 + 8 + 8)/8.$
$796 = 888 - 88 - 8 \times 8/(8 + 8).$
$797 = 888 - 88 - (8 + 8 + 8)/8.$
$798 = 888 - 88 - (8 + 8)/8.$
$799 = 888 - 88 - 8/8.$
$800 = 888 - 88.$
$801 = 888 - 88 + 8/8.$
$802 = 888 - 88 + (8 + 8)/8.$
$803 = 88 \times (8 \times 8 + 8 + 8/8)/8.$
$804 = 88 + 8 + 8 \times (88 + 8/(8 + 8)).$
$805 = 8 \times 88 + 8888/88.$
$806 = 8 \times 88 - 8 + (888 - 8)/8.$
$807 = 888 - 88 + 8 - 8/8.$
$808 = 888 - 88 + 8.$
$809 = 888 - 88 + 8 + 8/8.$
$810 = 888 - 88 + (88 - 8)/8.$
$811 = 888 - 88 + 88/8.$

$812 = 888 - 8 \times 8 - (88 + 8)/8.$
$813 = 888 - 8 \times 8 - 88/8.$
$814 = 8 \times 88 + (888 - 8)/8.$
$815 = 8 \times 88 + 888/8.$
$816 = 888 - 8 \times 8 - 8.$
$817 = 888 - 8 \times 8 - 8 + 8/8.$
$818 = 888 - 8 \times 8 - 8 + (8 + 8)/8.$
$819 = 888 - 88 + 8 + 88/8.$
$820 = 888 - 8 \times (8 + 8/(8 + 8)).$
$821 = 888 - 8 \times 8 - (8 + 8 + 8)/8.$
$822 = 888 - 8 \times 8 - (8 + 8)/8.$
$823 = 888 - 8 \times 8 - 8/8.$
$824 = 888 - 8 \times 8.$
$825 = 888 - 8 \times 8 + 8/8.$
$826 = 888 - 8 \times 8 + (8 + 8)/8.$
$827 = 888 - 8 \times 8 + (8 + 8 + 8)/8.$
$828 = 888 - 8 \times (8 - 8/(8 + 8)).$
$829 = 8 \times (88 + 8 + 8) + 8 - 88/8.$
$830 = 8 \times (88 + 8 + 8) - (8 + 8)/8.$
$831 = 8 \times (88 + 8 + 8) - 8/8.$
$832 = 8 \times (88 + 8 + 8).$
$833 = 8 \times (88 + 8 + 8) + 8/8.$
$834 = 8 \times (88 + 8 + 8) + (8 + 8)/8.$
$835 = 888 - 8 \times 8 + 88/8.$
$836 = 8 \times (88 + 8 + 8 + 8/(8 + 8)).$
$837 = 8 \times (88 + 8 + 8) + 8 - (8 + 8 + 8)/8.$
$838 = 8 \times (88 + 8 + 8) + 8 - (8 + 8)/8.$
$839 = 8 \times (88 + 8 + 8) + 8 - 8/8.$
$840 = 8 \times (88 + 8 + 8) + 8.$
$841 = 8 \times (88 + 8 + 8) + 8 + 8/8.$
$842 = 8 \times (88 + 8 + 8) + (88 - 8)/8.$
$843 = 8 \times (88 + 8 + 8) + 88/8.$
$844 = 888 - 8 \times 88/(8 + 8).$
$845 = 8 \times (88 + 8 + 8) + (88 + 8 + 8)/8.$
$846 = (8 + 8/8) \times (88 + 8 - (8 + 8)/8).$
$847 = 8 \times (88 + 8 + 8) + 8 + 8 - 8/8.$
$848 = (8 + 8) \times (8 \times 8 - 88/8).$
$849 = 8 \times (88 + 8) + 88 - 8 + 8/8.$
$850 = 8 \times (88 + 8 + 8) + 8 + (88 - 8)/8.$
$851 = 8 \times (88 + 8 + 8) + 8 + 88/8.$
$852 = 8 \times (88 + 8 + 8) + 8 + (88 + 8)/8.$
$853 = 888 - 8 - 8 - 8 - 88/8.$
$854 = 8 \times (88 + 8) + 88 - (8 + 8)/8.$
$855 = 8 \times (88 + 8) + 88 - 8/8.$
$856 = 8 \times (88 + 8) + 88.$
$857 = 8 \times (88 + 8) + 88 + 8/8.$
$858 = 8 \times (88 + 8) + 88 + (8 + 8)/8.$
$859 = 8 \times (88 + 8) + 88 + (8 + 8 + 8)/8.$
$860 = 88 + 8 \times (88 + 8 + 8/(8 + 8)).$
$861 = 888 - 8 - 8 - 88/8.$
$862 = 888 - 8 - 8 - (88 - 8)/8.$
$863 = 888 - 8 - 8 - 8 - 8/8.$
$864 = 888 - 8 - 8 - 8.$
$865 = 888 - 8 - 8 - 8 + 8/8.$
$866 = 888 - 8 - 8 - 8 + (8 + 8)/8.$
$867 = 8 \times (88 + 8) + 88 + 88/8.$
$868 = 888 - 8 - (88 + 8)/8.$
$869 = 888 - 8 - 88/8.$
$870 = 888 - 8 - (88 - 8)/8.$
$871 = 888 - 8 - 8 - 8/8.$
$872 = 888 - 8 - 8.$
$873 = 888 - 8 - 8 + 8/8.$

$874 = 888 - 8 - 8 + (8 + 8)/8.$
$875 = 888 - (88 + 8 + 8)/8.$
$876 = 888 - (88 + 8)/8.$
$877 = 888 - 88/8.$
$878 = 888 - (88 - 8)/8.$
$879 = 888 - 8 - 8/8.$
$880 = 888 - 8.$
$881 = 888 - 8 + 8/8.$
$882 = 888 - 8 + (8 + 8)/8.$
$883 = 888 - 8 + 88/8.$
$884 = 888 - 8 \times 8/(8 + 8).$
$885 = 888 + 8 - 88/8.$
$886 = 888 - (8 + 8)/8.$
$887 = 888 - 8/8.$
$888 = 888.$
$890 = 888 + (8 + 8)/8.$
$891 = 888 - 8 + 88/8.$
$892 = 888 + 8 \times 8/(8 + 8).$
$893 = 888 + 8 + 8 - 88/8.$
$894 = 888 + 8 - (8 + 8)/8.$
$895 = 888 + 8 - 8/8.$
$896 = 888 + 8.$
$897 = 888 + 8 + 8/8.$
$898 = 888 + 8 + (8 + 8)/8.$
$899 = 888 + 88/8.$
$900 = 888 + (88 + 8)/8.$
$901 = 888 + (88 + 8 + 8)/8.$
$902 = 888 + 8 + 8 - (8 + 8)/8.$
$903 = 888 + 8 + 8 - 8/8.$
$904 = 888 + 8 + 8.$
$905 = 888 + 8 + 8 + 8/8.$
$906 = 888 + 8 + (88 - 8)/8.$
$907 = 888 + 8 + 88/8.$
$908 = 888 + 8 + (88 + 8)/8.$
$909 = 888 + 8 + (88 + 8 + 8)/8.$
$910 = 888 + (88 + 88)/8.$
$911 = 888 + 8 + 8 + 8 - 8/8.$
$912 = 888 + 8 + 8 + 8.$
$913 = 888 + 8 + 8 + 8 + 8/8.$
$914 = 888 + 8 + 8 + 8 + (8 + 8)/8.$
$915 = 888 + 8 + 8 + 88/8.$
$916 = 888 + 8 + 8 + (88 + 8)/8.$
$917 = 888 + 8 + (88 + 88 - 8)/8.$
$918 = 888 + 8 + (88 + 88)/8.$
$919 = 888 + 8 + 8 + 8 + 8 - 8/8.$
$920 = 888 + 8 + 8 + 8 + 8.$
$921 = 888 + 8 + 8 + 8 + 8 + 8/8.$
$922 = 888 + 8 + 8 + 8 + 8 + (8 + 8)/8.$
$923 = 888 + 8 + 8 + 8 + 88/8.$
$924 = 888 + 8 + 8 + 8 + (88 + 8)/8.$
$925 = 888 + 888/(8 + 8 + 8).$
$926 = 8 \times 88 + 888 \times (8 + 8)/(8 \times 8).$
$927 = (8 + 8/8) \times (888/8 - 8).$
$928 = 888 + 8 + 8 + 8 + 8 + 8.$
$929 = 888 + 8 + 8 + 8 + 8 + 8 + 8/8.$
$930 = (8 \times 8 - (8 + 8)/8) \times (8 + 8 - 8/8).$
$931 = 888 + 8 + 8 + 8 + 8 + 88/8.$
$932 = 888 + 8 \times 88/(8 + 8).$
$933 = 888 + 8 \times 8 - 8 - 88/8.$
$934 = 888 + 8 \times 8 - 8 - 8 - (8 + 8)/8.$
$935 = 888 + 8 \times 8 - 8 - 8 - 8/8.$
$936 = 888 + 8 \times 8 - 8 - 8.$
$937 = 888 + 8 \times 8 - 8 - 8 + 8/8.$

$938 = 88 \times (88 - (8 + 8)/8)/8 - 8.$
$939 = 888 + 8 \times 8 - (88 + 8 + 8)/8.$
$940 = 888 + 8 + 88 \times 8/(8 + 8).$
$941 = 888 + 8 \times 8 - 88/8.$
$942 = 888 + 8 \times 8 - 8 - (8 + 8)/8.$
$943 = 888 + 8 \times 8 - 8 - 8/8.$
$944 = 888 + 8 \times 8 - 8.$
$945 = 888 + 8 \times 8 - 8 + 8/8.$
$946 = 888 + 8 \times 8 - 8 + (8 + 8)/8.$
$947 = 888 + 8 \times 8 - 8 + (8 + 8 + 8)/8.$
$948 = 888 + 8 \times (8 - 8/(8 + 8)).$
$949 = 8 \times (8 \times (8 + 8) - 8) - 88/8.$
$950 = 888 + 8 \times 8 - (8 + 8)/8.$
$951 = 888 + 8 \times 8 - 8/8.$
$952 = 888 + 8 \times 8.$
$953 = 888 + 8 \times 8 + 8/8.$
$954 = 888 + 8 \times 8 + (8 + 8)/8.$
$955 = 888 + 8 \times 8 + (8 + 8 + 8)/8.$
$956 = 888 + 8 \times (8 + 8/(8 + 8)).$
$957 = 88 \times (88 - 8/8)/8.$
$958 = 8 \times (8 \times (8 + 8) - 8) - (8 + 8)/8.$
$959 = 8 \times (8 \times (8 + 8) - 8) - 8/8.$
$960 = 8 \times (8 \times (8 + 8) - 8).$
$961 = 8 \times (8 \times (8 + 8) - 8) + 8/8.$
$962 = 8 \times (8 \times (8 + 8) - 8) + (8 + 8)/8.$
$963 = 888 + 8 \times 8 + 88/8.$
$964 = 8 \times (8 \times (8 + 8) - 8 + 8/(8 + 8)).$
$965 = 888 + 88 - 88/8.$
$966 = (88 \times 88 - 8 - 8)/8.$
$967 = (88 \times 88 - 8)/8.$
$968 = 88 \times 88/8.$
$969 = (88 \times 88 + 8)/8.$
$970 = (88 \times 88 + 8 + 8)/8.$
$971 = (8 \times (8 + 8) - 8) \times 8 + 88/8.$
$972 = 888 + 88 - 8 \times 8/(8 + 8).$
$973 = 888 + 88 - (8 + 8 + 8)/8.$
$974 = 888 + 88 - (8 + 8)/8.$
$975 = 888 + 88 - 8/8.$
$976 = 888 + 88.$
$977 = 888 + 88 + 8/8.$
$978 = 888 + 88 + (8 + 8)/8.$
$979 = 88 \times (88 + 8/8)/8.$
$980 = 888 + 88 + 8 \times 8/(8 + 8).$
$981 = 888 + 88 + 8 - (8 + 8 + 8)/8.$
$982 = 888 + 88 + 8 - (8 + 8)/8.$
$983 = 888 + 88 + 8 - 8/8.$
$984 = 888 + 88 + 8.$
$985 = 888 + 88 + 8 + 8/8.$
$986 = 888 + 88 + 8 + (8 + 8)/8.$
$987 = 888 + 88 + 88/8.$
$988 = 888 + 88 + (88 + 8)/8.$
$989 = 888 + 8888/88.$
$990 = 88 \times (88 + (8 + 8)/8)/8.$
$991 = 888 + 888/8 - 8.$
$992 = 888 + 88 + 8 + 8.$
$993 = 888 + 88 + 8 + 8 + 8/8.$
$994 = 888 + 88 + 8 + 8 + (8 + 8)/8.$
$995 = 888 + 88 + 8 + 88/8.$
$996 = 888 + 88 + 8 + (88 + 8)/8.$
$997 = 888 + (888 - 8 - 8)/8.$
$998 = 888 + (888 - 8)/8.$
$999 = 888 + 888/8.$
$1000 = 888 + 88 + 8 + 8 + 8.$

12. Representations Using Number 9

$101 = 99 + (9 + 9)/9.$

$102 = 999/9 - 9.$

$103 = (999 + 9)/9 - 9.$

$104 = (999 + 9 + 9)/9 - 9.$

$105 = 99 + (99 + 9)/(9 + 9).$

$106 = 99 + 9 - (9 + 9)/9.$

$107 = 99 + 9 - 9/9.$

$108 = 99 + 9.$

$109 = (9 + (9/9)) + 99.$

$110 = (999 - 9)/9.$

$111 = 999/9.$

$112 = (999 + 9)/9.$

$113 = ((9 + 9) + 999)/9.$

$114 = (999 + 9 + 9 + 9)/9.$

$115 = 99 + 9 + 9 - (9 + 9)/9.$

$116 = 99 + 9 + 9 - 9/9.$

$117 = 99 + 9 + 9.$

$118 = 99 + 9 + 9 + 9/9.$

$119 = 9 + (999 - 9)/9.$

$120 = 9 + 999/9.$

$121 = 9 + (999 + 9)/9.$

$122 = (999 + 99)/9.$

$123 = (999 + 99 + 9)/9.$

$124 = 99 + 9 + 9 + 9 - (9 + 9)/9.$

$125 = 99 + 9 + 9 + 9 - 9/9.$

$126 = 99 + 9 + 9 + 9.$

$127 = 99 + 9 + 9 + 9 + 9/9.$

$128 = 99 + 9 + 9 + 99/9.$

$129 = 9 + 9 + 999/9.$

$130 = 9 + 9 + (999 + 9)/9.$

$131 = 9 + (999 + 99)/9.$

$132 = 99 \times (99 + 9)/(9 \times 9).$

$133 = 9 \times (9 + 9) - 9 - 9 - 99/9.$

$134 = 99 + 9 + 9 + 9 + 9 - 9/9.$

$135 = 99 + 9 + 9 + 9 + 9.$

$136 = (9 - 9/9) \times (9 + 9 - 9/9).$

$137 = 99 + 9 + 9 + 9 + 99/9.$

$138 = 9 + 9 + 9 + 999/9.$

$139 = 9 + 9 + 9 + (999 + 9)/9.$

$140 = 9 + 9 + (999 + 99)/9.$

$141 = 9 \times (9 + 9) - 9 - (99 + 9)/9.$

$142 = 9 \times (9 + 9) - 9 - 99/9.$

$143 = 9 \times (9 + 9) - 9 - 9 - 9/9.$

$144 = (9 + 9) \times (9 - 9/9).$

$145 = 9 \times (9 + 9) - 9 - 9 + 9/9.$

$146 = 9 \times (9 + 9) - 9 - 9 + (9 + 9)/9.$

$147 = 9 + 9 + 9 + 9 + 999/9.$

$148 = 99 + (99 \times 9 - 9)/(9 + 9).$

$149 = 9 \times (9 + 9) - (99 + 9 + 9)/9.$

$150 = 9 \times (9 + 9) - (99 + 9)/9.$

$151 = 9 \times (9 + 9) - 99/9.$

$152 = 9 \times (9 + 9) - 9 - 9/9.$

$153 = 9 \times (9 + 9) - 9.$

$154 = 9 \times (9 + 9) - 9 + 9/9.$

$155 = 9 \times (9 + 9) - 9 + (9 + 9)/9.$

$156 = 9 \times (9 + 9) - 9 + (9 + 9 + 9)/9.$

$157 = ((9 + 9)/9)^{(9 - 9/9)} - 99.$

$158 = 9 \times (9 + 9) - (9 \times 9 - 9)/(9 + 9).$

$159 = 9 \times (9 + 9) - (9 + 9 + 9)/9.$

$160 = 9 \times (9 + 9) - (9 + 9)/9.$

$161 = 9 \times (9 + 9) - 9/9.$

$162 = 9 \times (9 + 9).$

$163 = 9 \times (9 + 9) + 9/9.$

$164 = 9 \times (9 + 9) + (9 + 9)/9.$

$165 = 9 \times (9 + 9) + (9 + 9 + 9)/9.$

$166 = (9 + 9)/9 \times (9 \times 9 + (9 + 9)/9).$

$167 = 9 \times (9 + 9) + (99 - 9)/(9 + 9).$

$168 = 9 \times (9 + 9) + 9 - (9 + 9 + 9)/9.$

$169 = 9 \times 9 + 99 - 99/9.$

$170 = 9 \times (9 + 9) + 9 - 9/9.$

$171 = 9 \times (9 + 9) + 9.$

$172 = 9 \times (9 + 9) + 9 + 9/9.$

$173 = 9 \times (9 + 9) + 99/9.$

$174 = 9 \times (9 + 9) + (99 + 9)/9.$

$175 = ((9 + 9)/9)^{(9 - 9/9)} - 9 \times 9.$

$176 = (9 + 9) \times (99 - 99/9)/9.$

$177 = 99 + 9 \times 9 - (9 + 9 + 9)/9.$

$178 = 99 + 9 \times 9 - (9 + 9)/9.$

$179 = 99 + 9 \times 9 - 9/9.$

$180 = 99 + 9 \times 9.$

$181 = 99 + 9 \times 9 + 9/9.$

$182 = 9 \times (9 + 9) + 9 + 99/9.$

$183 = 9 \times 9 - 9 + 999/9.$

$184 = 9 \times (9 + 9) + (99 + 99)/9.$

$185 = 99 + 99 - (99 + 9 + 9)/9.$

$186 = 99 + 99 - (99 + 9)/9.$

$187 = 99 + 99 - 99/9.$

$188 = 99 + 99 - 9 - 9/9.$

$189 = 99 + 99 - 9.$

$190 = 99 + 99 - 9 + 9/9.$

$191 = 99 + 9 \times 9 + 99/9.$

$192 = 9 \times 9 + 999/9.$

$193 = 9 \times 9 + (999 + 9)/9.$

$194 = 9 \times 9 + (999 + 9 + 9)/9.$

$195 = 99 + 99 - (9 + 9 + 9)/9.$

$196 = 99 + 99 - (9 + 9)/9.$

$197 = 99 + 99 - 9/9.$

$198 = 99 + 99.$

$199 = 99 + 99 + 9/9.$

$200 = 99 + 99 + (9 + 9)/9.$

$201 = 99 - 9 + 999/9.$

$202 = 99 - 9 + (999 + 9)/9.$

$203 = 9 \times 9 + (999 + 99)/9.$

$204 = (9 + 9) \times (999/9 - 9)/9.$

$205 = 99 + 99 + 9 - (9 + 9)/9.$

$206 = 99 + 99 + 9 - 9/9.$

$207 = 99 + 99 + 9.$

$208 = 99 + 99 + 9 + 9/9.$

$209 = 99 + (999 - 9)/9.$

$210 = 99 + 999/9.$

$211 = 99 + (999 + 9)/9.$

$212 = 99 + (999 + 9 + 9)/9.$

$213 = (9 + 9) \times (9 + 9) - 999/9.$

$214 = 99 + (9 + 9) \times (9 - 9/9)/9.$

$215 = 99 + 99 + 9 + 9 - 9/9.$

$216 = 99 + 99 + 9 + 9.$

$217 = 9 \times 9 \times 9 - ((9 + 9)/9)^9.$

$218 = 99 + 9 + (999 - 9)/9.$

$219 = 99 + 9 + 999/9.$

$220 = 99 \times (9 + 99/9)/9.$

$221 = 99 + (999 + 99)/9.$

$222 = 999 \times (9 + 9)/(9 \times 9).$

$223 = 9 \times (9 + 9 + 9) - 9 - 99/9.$

$224 = 9 \times (9 + 9 + 9) - 9 - 9 - 9/9.$

$225 = 9 \times (9 + 9 + 9) - 9 - 9.$

$226 = (9 + 9) \times (9 + 9) - 99 + 9/9.$

$227 = 99 + 9 + 9 + (999 - 9)/9.$

$228 = 99 + 9 + 9 + 999/9.$

$229 = 9 + 99 \times (9 + 99/9)/9.$

$230 = 99 + 9 + (999 + 99)/9.$

$231 = 9 \times (9 + 9 + 9) - (99 + 9)/9.$

$232 = 9 \times (9 + 9 + 9) - 99/9.$

$233 = 9 \times (9 + 9 + 9) - 9 - 9/9.$

$234 = 9 \times (9 + 9 + 9) - 9.$

$235 = 9 \times (9 + 9 + 9) - 9 + 9/9.$

$236 = 9 \times (9 + 9 + 9) - 9 + (9 + 9)/9.$

$237 = 9 \times (9 + 9 + 9) - 9 + (9 + 9 + 9)/9.$

$238 = ((9 + 9)/9)^{(9 - 9/9)} - 9 - 9.$

$239 = 9 \times (9 + 9 + 9) - (9 + 9 + 9 + 9)/9.$

$240 = 9 \times (9 + 9 + 9) - (9 + 9 + 9)/9.$

$241 = 9 \times (9 + 9 + 9) - (9 + 9)/9.$

$242 = 9 \times (9 + 9 + 9) - 9/9.$

$243 = 9 \times (9 + 9 + 9).$

$244 = 9 \times (9 + 9 + 9) + 9/9.$

$245 = 9 \times (9 + 9 + 9) + (9 + 9)/9.$

$246 = 9 \times (9 \times 9 \times 9 + 9)/(9 + 9 + 9).$

$247 = ((9 + 9)/9)^{(9 - 9/9)} - 9.$

$248 = (9 \times 9 + 9)/(9 + 9) + 9 \times (9 + 9 + 9).$

$249 = 9 + (9 + 9) \times (9 + 999/9)/9.$

$250 = 9 \times (9 + 9) + 99 - 99/9.$

$251 = 9 \times (9 + 9 + 9) + 9 - 9/9.$

$252 = 9 \times (9 + 9 + 9) + 9.$

$253 = 9 \times (9 + 9 + 9) + 9 + 9/9.$

$254 = 9 \times (9 + 9 + 9) + 99/9.$

$255 = ((9 + 9)/9)^{(9 - 9/9)} - 9/9.$

$256 = ((9 + 9)/9)^{(9 - 9/9)}.$

$257 = ((9 + 9)/9)^{(9 - 9/9)} + 9/9.$

$258 = 9 \times (9 + 9) + 99 - (9 + 9 + 9)/9.$

$259 = 9 \times (9 + 9) + 99 - (9 + 9)/9.$

$260 = 9 \times (9 + 9) + 99 - 9/9.$

$261 = 9 \times (9 + 9) + 99.$

$262 = 9 \times (9 + 9) + 99 + 9/9.$

$263 = 9 \times (9 + 9 + 9) + 9 + 99/9.$

$264 = 9 \times (9 + 9) - 9 + 999/9.$

$265 = ((9 + 9)/9)^{(9 - 9/9)} + 9.$

$266 = ((9 + 9)/9)^{(9 - 9/9)} + 9 + 9/9.$

$267 = ((9 + 9)/9)^{(9 - 9/9)} + 99/9.$

$268 = 9 \times 9 + 99 + 99 - 99/9.$

$269 = 999 - 9 \times 9 \times 9 - 9/9.$

$270 = 999 - 9 \times 9 \times 9.$

$271 = 999 - 9 \times 9 \times 9 + 9/9.$

$272 = 9 \times (9 + 9) + 99 + 99/9.$

$273 = 9 \times (9 + 9) + 999/9.$

$274 = 9 \times (9 + 9) + (999 + 9)/9.$

$275 = 99 \times (9 + 9 + 9 - (9 + 9)/9)/9.$

$276 = (9 + 9 + 9) \times (9 \times 9 + 99/9)/9.$

$277 = 99 + 99 + 9 \times 9 - (9 + 9)/9.$

$278 = 99 + 99 + 9 \times 9 - 9/9.$

$279 = 99 + 99 + 9 \times 9.$

$280 = 99 + 99 + 9 \times 9 + 9/9.$

$281 = 999 - 9 \times 9 \times 9 + 99/9.$

$282 = 9 \times (9 + 9) + 9 + 999/9.$

$283 = 9 \times (9 + 9) + 9 + (999 + 9)/9.$

$284 = 9 \times (9 + 9) + (999 + 99)/9.$

$285 = 99 + 99 + 99 - (99 + 9)/9.$

$286 = 99/9 \times (9 + 9 + 9 - 9/9).$

$287 = 99 + 99 + 99 - 9 - 9/9.$

$288 = 99 + 99 + 99 - 9.$

$289 = (9 + 9 - 9/9)^{(}(9 + 9)/9).$

$290 = (9 + 9/9) \times (9 + 9 + 99/9).$

$291 = 99 + 9 \times 9 + 999/9.$

$292 = 99 + 9 \times 9 + (999 + 9)/9.$

$293 = (9 + 9) \times (9 + 9) - 9 - (99 + 99)/9.$

$294 = (9 + 9 + 9) \times (99 - 9/9)/9.$

$295 = (9 + 9) \times (9 + 9) - 9 - 9 - 99/9.$

$296 = 99 + 99 + 99 - 9/9.$

$297 = 99 + 99 + 99.$

$298 = 99 + 99 + 99 + 9/9.$
$299 = (99 \times (9 + 9 + 9) + 9 + 9)/9.$
$300 = (9 + 9 + 9) \times (99 + 9/9)/9.$
$301 = (9 + 99/9)^{(}(9 + 9)/9) - 99.$
$302 = (9+9) \times (9 \times (9+9) - 99/9)/9.$
$303 = (9+9) \times (9+9) - 9 - (99+9)/9.$
$304 = (9 + 9) \times (9 + 9) - 9 - 99/9.$
$305 = (9 + 9) \times (9 + 9) - 9 - 9 - 9/9.$
$306 = (9 + 9) \times (9 + 9 - 9/9).$
$307 = (9 + 9) \times (9 + 9) - 9 - 9 + 9/9.$
$308 = 99 \times (9 + 9 + 9 + 9/9)/9.$
$309 = 99 + 99 + 999/9.$
$310 = 99 + 99 + (999 + 9)/9.$
$311 = (9+9) \times (9+9) - (99+9+9)/9.$
$312 = (9 + 9) \times (9 + 9) - (99 + 9)/9.$
$313 = (9 + 9) \times (9 + 9) - 99/9.$
$314 = (9 + 9) \times (9 + 9) - 9 - 9/9.$
$315 = (9 + 9) \times (9 + 9) - 9.$
$316 = (9 + 9) \times (9 + 9) - 9 + 9/9.$
$317 = (9+9) \times (9+9) - 9 + (9+9)/9.$
$318 = 99 + 99 + 9 + 999/9.$
$319 = 99 \times (9 + 9 + 99/9)/9.$
$320 = (9+9+9+9) \times (9 \times 9 - 9/9)/9.$
$321 = (9+9) \times (9+9) - (9+9+9)/9.$
$322 = (9 + 9) \times (9 + 9) - (9 + 9)/9.$
$323 = (9 + 9) \times (9 + 9) - 9/9.$
$324 = (9 + 9) \times (9 + 9).$
$325 = (9 + 9) \times (9 + 9) + 9/9.$
$326 = (9 + 9) \times (9 + 9) + (9 + 9)/9.$
$327 = (9+9) \times (9+9) + (9+9+9)/9.$
$328 = (9 \times 9 \times 9 + 9) \times (9 - 9/9)/(9+9).$
$329 = (9+9) \times (9+9) + (99-9)/(9+9).$
$330 = 9 \times 99 \times (9 + 9/9)/(9 + 9 + 9).$
$331 = (9+9) \times (9+9) + 9 - (9+9)/9.$
$332 = (9 + 9) \times (9 + 9) + 9 - 9/9.$
$333 = (9 + 9) \times (9 + 9) + 9.$
$334 = (9 + 9) \times (9 + 9) + 9 + 9/9.$
$335 = (9 + 9) \times (9 + 9) + 99/9.$
$336 = (9 + 9) \times (9 + 9) + (99 + 9)/9.$
$337 = 9 \times 9 + ((9 + 9)/9)^{(9 - 9/9)}.$
$338 = 9 \times 9 + ((9 + 9)/9)^{(9 - 9/9)} + 9/9.$
$339 = 9 \times (9 + 9 + 9) + 99 - (9 + 9 + 9)/9.$
$340 = (9 + 9 - 9/9) \times (9 + 99/9).$
$341 = 9 \times (9 + 9 + 9) + 99 - 9/9.$
$342 = 9 \times (9 + 9 + 9) + 99.$
$343 = 9 \times (9 + 9 + 9) + 99 + 9/9.$
$344 = (9 + 9) \times (9 + 9) + 9 + 99/9.$
$345 = 9 \times (9 + 9 + 9) - 9 + 999/9.$
$346 = ((9+9)/9) \times ((9+9) \times 9 + 99/9).$
$347 = 9 \times (9 \times 99 + 9/9)/(9 + 9) - 99.$
$348 = (9 + 9 + 99/9) \times (99 + 9)/9.$
$349 = ((9+9)/9)^9 - 9 \times (9+9) - 9/9.$
$350 = ((9 + 9)/9)^9 - 9 \times (9 + 9).$
$351 = 9 \times (9 + 9 + 9) + 99 + 9.$
$352 = (9 + 9 + 9/9)^{(}(9 + 9)/9) - 9.$
$353 = (9+9) \times (9+9) + 9 + 9 + 99/9.$
$354 = 9 \times (9 + 9 + 9) + 999/9.$
$355 = 99 + ((9 + 9)/9)^{(9 - 9/9)}.$
$356 = 9 \times (9 \times 9 \times 9 + 9/9)/(9+9) - 9.$
$357 = (9 + (9 + 99)/9) \times (9 + 9 - 9/9).$
$358 = (9+9) \times (9+99/9) - (9+9)/9.$
$359 = (9 + 9) \times (9 + 99/9) - 9/9.$
$360 = (9 + 9) \times (9 + 99/9).$
$361 = (9 + 9 + 9/9)^{(}(9 + 9)/9).$

$362 = (9 + 9 + 9/9)^{(}(9 + 9)/9) + 9/9.$
$363 = 9 \times (9 + 9 + 9) + 9 + 999/9.$
$364 = 9 \times (9 \times 9 \times 9 - 9/9)/(9 + 9).$
$365 = 9 \times (9 \times 9 \times 9 + 9/9)/(9 + 9).$
$366 = 9 \times (999 + 99)/(9 + 9 + 9).$
$367 = 9 \times 9 + 99 \times (9 + 9 + 9 - 9/9)/9.$
$368 = 9 + 9 + ((9 + 9)/9)^9 - 9 \times (9 + 9).$
$369 = (9 + 9) \times (9 + 99/9) + 9.$
$370 = 9 \times 99 - 9 - ((9 + 9)/9)^9.$
$371 = (9 + 9) \times (99/9 + 9) + 99/9.$
$372 = 9 \times (9 + 9) + 99 + 999/9.$
$373 = 9999/9 - 9 \times 9 \times 9 - 9.$
$374 = (99 + 99) \times (9 + 9 - 9/9)/9.$
$375 = (9 + 9) \times (9 + 9 + 9) - 999/9.$
$376 = (9+9+9+9+99/9) \times (9-9/9).$
$377 = (9+9) \times (9 + (9+99)/9) - 9/9.$
$378 = ((99 + 9)/9 + 9) \times (9 + 9).$
$379 = 9 \times 99 - ((9 + 9)/9)^9.$
$380 = (99/9 + 9) \times (9 + 9 + 9/9).$
$381 = 9 \times (9 + 9) + 9 + 99 + 999/9.$
$382 = 9999/9 - 9 \times 9 \times 9.$
$383 = (9999 + 9)/9 - 9 \times 9 \times 9.$
$384 = (9 \times 9 + 999/9) \times (9 + 9)/9.$
$385 = 99 \times (9 + 9 + 9 + 9 - 9/9)/9.$
$386 = (9+9) \times (9+9+9) - 99 - 9/9.$
$387 = (9 + 9) \times (9 + 9 + 9) - 99.$
$388 = 9 \times 99 - ((9 + 9)/9)^9 + 9.$
$389 = (9 + 9 + 9/9) \times (9 + 99/9) + 9.$
$390 = (999/9 + 9 - 9 \times 9) \times (9 + 9/9).$
$391 = (9 + 99/9)^{(}(9 + 9)/9) - 9.$
$392 = (9 \times 9 - 9) \times (99 - 9/9)/(9 + 9).$
$393 = (9 + 9) \times (9 + 9) + 9 \times 9 -$
$(99 + 9)/9.$
$394 = (9+9) \times (9+9) + 9 \times 9 - 99/9.$
$395 = ((9 + 9)/9)^9 - 9 - 99 - 9.$
$396 = (9 + 9) \times (99 + 99)/9.$
$397 = ((9 + 9) \times (99 + 99) + 9)/9.$
$398 = (9 + 9) \times (99 + 99 + 9/9)/9.$
$399 = (9 + 99/9)^{(}(9 + 9)/9) - 9/9.$
$400 = (9 + 99/9)^{(}(9 + 9)/9).$
$401 = ((9 + 9)/9)^9 - 999/9.$
$402 = ((9 + 9)/9)^9 - 99 - 99/9.$
$403 = ((9 + 9)/9)^9 - 99 - 9 - 9/9.$
$404 = ((9 + 9)/9)^9 - 99 - 9.$
$405 = (9 + 9) \times (9 + 9) + 9 \times 9.$
$406 = (9+9) \times (9+9) + 9 \times 9 + 9/9.$
$407 = 99 \times (9 + 9 + 9 + 9 + 9/9)/9.$
$408 = 99 + 99 + 99 + 999/9.$
$409 = (9 + 99/9)^{(}(9 + 9)/9) + 9.$
$410 = ((9 + 9)/9)^9 + 9 - 999/9.$
$411 = ((9 + 9)/9)^9 - 99 - (9 + 9)/9.$
$412 = ((9 + 9)/9)^9 - 99 - 9/9.$
$413 = ((9 + 9)/9)^9 - 99.$
$414 = (9 + 9) \times (9 + 9) + 99 - 9.$
$415 = (9+9) \times (9+9) + 99 - 9 + 9/9.$
$416 = (9+9) \times (9+9) + 9 \times 9 + 99/9.$
$417 = (9 + 9) \times (9 + 9) + 9 \times 9 +$
$(99 + 9)/9.$
$418 = (9 + 99/9)^{(}(9 + 9)/9) + 9 + 9.$
$419 = ((9+9)/9)^9 - 9 \times 9 - (99+9)/9.$
$420 = (9 + 9) \times (99 + 999/9)/9.$
$421 = ((9 + 9)/9)^9 - 99 + 9 - 9/9.$
$422 = ((9 + 9)/9)^9 - 99 + 9.$
$423 = (9 + 9) \times (9 + 9) + 99.$
$424 = (9 + 9) \times (9 + 9) + 99 + 9/9.$
$425 = (9+9) \times (9+9) + 99 + (9+9)/9.$

$426 = (9 + 9) \times (9 + 9) - 9 + 999/9.$
$427 = (9+9) \times (9+9) - 9 + (999+9)/9.$
$428 = ((9 + 9)/9)^9 - 9 \times 9 - (9 + 9 +$
$9)/9.$
$429 = ((9 + 9)/9)^9 - 9 \times 9 - (9 + 9)/9.$
$430 = ((9 + 9)/9)^9 - 9 \times 9 - 9/9.$
$431 = ((9 + 9)/9)^9 - 9 \times 9.$
$432 = (9 + 9) \times (9 + 9) + 99 + 9.$
$433 = (9+9) \times (9+9) + 99 + 9 + 9/9.$
$434 = (9 + 9) \times (9 + 9) + (999 - 9)/9.$
$435 = (9 + 9) \times (9 + 9) + 999/9.$
$436 = (9 + 9) \times (9 + 9) + (999 + 9)/9.$
$437 = 9 \times (9 \times 99 + 9/9)/(9 + 9) - 9.$
$438 = 9 \times (9 \times 9 - 9) - 99 - 999/9.$
$439 = ((9 + 9)/9)^9 + 9 - 9 \times 9 - 9/9.$
$440 = ((9 + 9)/9)^9 + 9 - 9 \times 9.$
$441 = 9 \times (99 \times 9 - 9)/(9 + 9).$
$442 = (9 + 9 + 9 - 9/9) \times (9 + 9 - 9/9).$
$443 = (9+9) \times (9+9) + 99 + 9 + 99/9.$
$444 = 999 \times (9 + 9 + 9 + 9)/(9 \times 9).$
$445 = 9 \times (9 \times 99 - 9/9)/(9 + 9).$
$446 = 9 \times (9 \times 99 + 9/9)/(9 + 9).$
$447 = 9 \times (9 \times 99 + 9/9)/(9 + 9) + 9/9.$
$448 = (9 - 9/9) \times (9 + 999)/(9 + 9).$
$449 = ((9 + 9)/9)^9 + 9 + 9 - 9 \times 9.$
$450 = 9 \times (9 \times 99 + 9)/(9 + 9).$
$451 = 9 \times (99 \times 9 + 99/9)/(9 + 9).$
$452 = 9 \times (9 \times 99 + 9)/(9 + 9) + (9 +$
$9)/9.$
$453 = 9 \times (9 + 9 + 9) + 99 + 999/9.$
$454 = 9 \times (99 \times 9 - 9/9)/(9 + 9) + 9.$
$455 = 9 \times (99 \times 9 + 9/9)/(9 + 9) + 9.$
$456 = (9 + 9 + 9 + 99/9) \times (9 + 99)/9.$
$457 = (9 + 9 + 9) \times (9 + 9) - 9 - 9 -$
$99/9.$
$458 = ((9+9)/9)^9 + 9 + 9 + 9 - 9 \times 9.$
$459 = (9 + 9 + 9) \times (9 + 9 - 9/9).$
$460 = 9 \times (99 + 9) - ((9 + 9)/9)^9.$
$461 = (9 \times 9 - 99/9) \times (9 - 9/9) - 99.$
$462 = 9 \times (9 - 9 \times 9) + (9999 - 9)/9.$
$463 = 9 \times (9 - 9 \times 9) + 9999/9.$
$464 = (9 + 9 + 99/9) \times (9 + 9 - (9 +$
$9)/9).$
$465 = (9 + 9) \times (9 + 9 + 9) - 9 -$
$(99 + 9)/9.$
$466 = (9+9) \times (9+9+9) - 9 - 99/9.$
$467 = (9+9) \times (9+9+9-9/9) - 9/9.$
$468 = (9 + 9) \times (9 + 9 + 9 - 9/9).$
$469 = (9+9) \times (9+9+9) - 9 - 9 + 9/9.$
$470 = (9 + 9) \times (9 + 9 + 9) - 9 - 9 +$
$(9 + 9)/9.$
$471 = (9 + 9) \times (9 + 9 + 9) - 9 - 9 +$
$(9 + 9 + 9)/9.$
$472 = (9+99/9)^{(}(9+9)/9) + 9 \times 9 - 9.$
$473 = 9 \times 9 \times 9 - ((9 + 9)/9)^{(9 - 9/9)}.$
$474 = (9+9) \times (9+9+9) - (9+99)/9.$
$475 = (9 + 9) \times (9 + 9 + 9) - 99/9.$
$476 = (9 + 9) \times (9 + 9 + 9) - 9 - 9/9.$
$477 = (9 + 9) \times (9 + 9 + 9) - 9.$
$478 = (9 + 9) \times (9 + 9 + 9) - 9 + 9/9.$
$479 = (9 + 9) \times (9 + 9 + 9) - 9 +$
$(9 + 9)/9.$
$480 = (9 + 9) \times (9 + 9 + 9) - 9 +$
$(9 + 9 + 9)/9.$
$481 = 9 \times 9 + (9 + 99/9)^{(}(9 + 9)/9).$

$482 = (9 + 9) \times (9 + 9 + 9) - (9 \times 9 - 9)/(9 + 9).$

$483 = (9+9+9) \times ((9+9) \times 9 - 9/9)/9.$

$484 = ((99 + 99)/9)^{(}(9 + 9)/9).$

$485 = (9 + 9) \times (9 + 9 + 9) - 9/9.$

$486 = (9 + 9) \times (9 + 9 + 9).$

$487 = (9 + 9) \times (9 + 9 + 9) + 9/9.$

$488 = (9+9) \times (9+9+9) + (9+9)/9.$

$489 = (9+9+9) \times (9 \times (9+9) + 9/9)/9.$

$490 = (99 - 9/9) \times (99 - 9)/(9 + 9).$

$491 = ((9 + 9)/9)^9 - 9 - (9 + 99)/9.$

$492 = ((9 + 9)/9)^9 - 9 - 99/9.$

$493 = ((9 + 9)/9)^9 - 9 - 9 - 9/9.$

$494 = ((9 + 9)/9)^9 - 9 - 9.$

$495 = (9 + 9) \times (9 + 9 + 9) + 9.$

$496 = (9 + 9) \times (9 + 9 + 9) + 9 + 9/9.$

$497 = (9 + 9) \times (9 + 9 + 9) + 99/9.$

$498 = (9+9) \times (9+9+9) + (99+9)/9.$

$499 = (99/9 + 9)^{(}(9 + 9)/9) + 99.$

$500 = ((9 + 9)/9)^9 - (9 + 99)/9.$

$501 = ((9 + 9)/9)^9 - 99/9.$

$502 = ((9 + 9)/9)^9 - 9 - 9/9.$

$503 = ((9 + 9)/9)^9 - 9.$

$504 = ((9 + 9)/9)^9 - 9 + 9/9.$

$505 = ((9 + 9)/9)^9 - 9 + (9 + 9)/9.$

$506 = ((9+9)/9)^9 - 9 + (9+9+9)/9.$

$507 = ((9+9)/9)^9 - (9 \times 9 + 9)/(9+9).$

$508 = ((9+9)/9)^9 - (9 \times 9 - 9)/(9+9).$

$509 = ((9 + 9)/9)^9 - (9 + 9 + 9)/9.$

$510 = ((9 + 9)/9)^9 - (9 + 9)/9.$

$511 = ((9 + 9)/9)^9 - 9/9.$

$512 = ((9 + 9)/9)^9.$

$513 = ((9 + 9)/9)^9 + 9/9.$

$514 = ((9 + 9)/9)^9 + (9 + 9)/9.$

$515 = ((9 + 9)/9)^9 + (9 + 9 + 9)/9.$

$516 = ((9+9)/9)^9 + (9 \times 9 - 9)/(9+9).$

$517 = ((9+9)/9)^9 + (9 \times 9 + 9)/(9+9).$

$518 = ((9+9)/9)^9 + 9 - (9+9+9)/9.$

$519 = ((9 + 9)/9)^9 + 9 - (9 + 9)/9.$

$520 = ((9 + 9)/9)^9 + 9 - 9/9.$

$521 = ((9 + 9)/9)^9 + 9.$

$522 = ((9 + 9)/9)^9 + 9 + 9/9.$

$523 = ((9 + 9)/9)^9 + 99/9.$

$524 = ((9 + 9)/9)^9 + (99 + 9)/9.$

$525 = ((9 + 9)/9)^9 + (99 + 9 + 9)/9.$

$526 = ((9+9)/9)^9 + (99+9+9+9)/9.$

$528 = ((9+9)/9)^9 + 9 + 9 - (9+9+9)/9.$

$528 = ((9+9)/9)^9 + 9 + 9 - (9+9)/9.$

$529 = ((9 + 9)/9)^9 + 9 + 9 - 9/9.$

$530 = ((9 + 9)/9)^9 + 9 + 9.$

$531 = 9 \times 9 \times 9 - 99 - 99.$

$532 = ((9 + 9)/9)^9 + 9 + 99/9.$

$533 = ((9 + 9)/9)^9 + 9 + (99 + 9)/9.$

$534 = ((9+9)/9)^9 + 9 + (99+9+9)/9.$

$535 = 9 \times (9 \times 9 - 9) - (999 + 9 + 9)/9.$

$536 = 9 \times (9 \times 9 - 9) - (999 + 9)/9.$

$537 = 9 \times (9 \times 9 - 9) - 999/9.$

$538 = ((9 + 9)/9)^9 + 9 + 9 + 9 - 9/9.$

$539 = ((9 + 9)/9)^9 + 9 + 9 + 9.$

$540 = (9 + 9 + 9) \times (9 + 99/9).$

$541 = 9 \times (9 \times 9 - 9) - 9 - 99 + 9/9.$

$542 = 9 \times (9 \times 9 - 9) - 9 - 99 + (9 + 9)/9.$

$543 = (9+9+9) \times (99 + 9/9 + 9 \times 9)/9.$

$554 = 9 \times (9 \times 9 - 9 - 9) - (99 + 9 + 9)/9.$

$545 = 99 + 9 \times (9 \times 99 + 9/9)/(9 + 9).$

$546 = 9 \times (9 \times 9 - 9) - (999/9 - 9).$

$547 = 9 \times (9 \times 9 - 9 - 9) - 9 - 99/9.$

$548 = 9 \times (9 \times 9 - 9) - 99 - 9/9.$

$549 = 9 \times (9 \times 9 - 9) - 99.$

$550 = 9 \times (9 \times 9 - 9) - 99 + 9/9.$

$551 = 9 \times (9 \times 9 - 9) - 99 + (9 + 9)/9.$

$552 = (9 \times 9 - (99 + 9)/9) \times (9 - 9/9).$

$553 = (9 \times 9 - (9 + 9)/9) \times (9 - (9 + 9)/9).$

$554 = 9 \times (9 \times 9 - 9 - 9) - (99 + 9 + 9)/9.$

$555 = 9 \times (9 \times 9 - 9 - 9) - (99 + 9)/9.$

$556 = 9 \times (9 \times 9 - 9 - 9) - 99/9.$

$557 = 9 \times (9 \times 9 - 9 - 9) - 9 - 9/9.$

$558 = 9 \times (9 \times 9 - 9 - 9) - 9.$

$559 = 9 \times (9 \times 9 - 9 - 9) - 9 + 9/9.$

$560 = (9 \times 9 - 99/9) \times (9 - 9/9).$

$561 = 9 \times (9 \times 9 - 9 - 9) - 9 + (9 + 9)/9.$

$562 = 9 \times (9 + 9) + (9 + 99/9)^{(}(9 + 9)/9).$

$563 = 9 \times (9 \times 9 - 9 - 9) - (9 + 9 + 9 + 9)/9.$

$564 = 9 \times (9 \times 9 - 9 - 9) - (9 + 9 + 9)/9.$

$565 = 9 \times (9 \times 9 - 9 - 9) - (9 + 9)/9.$

$566 = 9 \times (9 \times 9 - 9 - 9) - 9/9.$

$567 = 9 \times (9 \times 9 - 9 - 9).$

$568 = 9 \times (9 \times 9 - 9 - 9) + 9/9.$

$569 = 9 \times (9 \times 9 - 9 - 9) + (9 + 9)/9.$

$570 = 9 \times (9 \times 9 - 9 - 9) + (9 + 9 + 9)/9.$

$571 = 9 \times (9 \times 9 - 9 - 9) + (9 + 9 + 9 + 9)/9.$

$572 = (9 + 9 + 9 - 9/9) \times (99 + 99)/9.$

$573 = 9 \times 9 + ((9 + 9)/9)^9 - 9 - 99/9.$

$574 = (9 - (9 + 9)/9) \times (9 \times 9 + 9/9).$

$575 = (9 \times 9 - 9) \times (9 - 9/9) - 9/9.$

$576 = (9 \times 9 - 9) \times (9 - 9/9).$

$577 = (9 \times 9 - 9) \times (9 - 9/9) + 9/9.$

$578 = 9 \times (9 \times 9 - 9 - 9) + 99/9.$

$579 = 9 \times (9 \times 9 - 9 - 9) + (99 + 9)/9.$

$580 = (9 + 9 + 99/9) \times (9 + 99/9).$

$581 = (9 \times 9 + (9 + 9)/9) \times (9 - (9 + 9)/9).$

$582 = 9 \times 9 + ((9 + 9)/9)^9 - 99/9.$

$583 = 9 \times 9 + ((9 + 9)/9)^9 - 9 - 9/9.$

$584 = 9 \times 9 + ((9 + 9)/9)^9 - 9.$

$585 = 9 \times (9 \times 9 - 9 - 9) + 9 + 9.$

$586 = 9 \times (9 \times 9 - 9 - 9) + 9 + 9 + 9/9.$

$587 = 9 \times (9 \times 9 - 9 - 9) + 9 + 99/9.$

$588 = (99 - 9/9) \times (9 - (9 + 9 + 9)/9).$

$589 = 9 \times 9 + 9 + (9 \times 999 - 9)/(9 + 9).$

$590 = 9 \times 9 + ((9 + 9)/9)^9 - (9 + 9 + 9)/9.$

$591 = 9 \times 9 + ((9 + 9)/9)^9 - (9 + 9)/9.$

$592 = 9 \times 9 + ((9 + 9)/9)^9 - 9/9.$

$593 = 9 \times 9 + ((9 + 9)/9)^9.$

$594 = 99 \times (99 + 9)/(9 + 9).$

$595 = 99 \times (99 + 9)/(9 + 9) + 9/9.$

$596 = 99 \times (99+9)/(9+9) + (9+9)/9.$

$597 = (9 + 9) \times (9 + 9 + 9) + 999/9.$

$598 = 9 \times 9 \times 9 - 9 - (99 + 999)/9.$

$599 = 9999/9 - ((9 + 9)/9)^9.$

$600 = (99 + 9) \times (99 + 9/9)/(9 + 9).$

$601 = ((9 + 9)/9)^9 + 99 - 9 - 9/9.$

$602 = ((9 + 9)/9)^9 + 99 - 9.$

$603 = ((9 + 9)/9)^9 + 99 - 9 + 9/9.$

$604 = ((9+9)/9)^9 + 99 - 9 + (9+9)/9.$

$605 = 99 \times (999 - 9)/(9 \times (9 + 9)).$

$606 = 9 \times 9 \times 9 - (999 + 99 + 9)/9.$

$607 = 9 \times 9 \times 9 - (999 + 99)/9.$

$608 = 9 \times 9 \times 9 - 99 \times 99/(9 \times 9).$

$609 = 9 \times 9 \times 9 - 9 - 999/9.$

$610 = ((9 + 9)/9)^9 + 99 - 9/9.$

$611 = ((9 + 9)/9)^9 + 99.$

$612 = 9 \times 9 \times 9 - 9 - 9 - 99.$

$613 = 9 \times 9 \times 9 - 9 - 9 - 99 + 9/9.$

$614 = ((9 + 9)/9)^9 - 9 + 999/9.$

$615 = 9 \times 9 \times 9 - (999 + 9 + 9 + 9)/9.$

$616 = 9 \times 9 \times 9 - (999 + 9 + 9)/9.$

$617 = 9 \times 9 \times 9 - (999 + 9)/9.$

$618 = 9 \times 9 \times 9 - 999/9.$

$619 = 9 \times 9 \times 9 - 99 - 99/9.$

$620 = 9 \times 9 \times 9 - 99 - 9 - 9/9.$

$621 = 9 \times 9 \times 9 - 99 - 9.$

$622 = 9 \times 9 \times 9 - 9 - 99 + 9/9.$

$623 = ((9 + 9)/9)^9 + 999/9.$

$624 = (9 - 9/9) \times (9 \times 9 - (9 + 9 + 9)/9).$

$625 = (9+9+9 - (9+9)/9)^{(}(9+9)/9).$

$626 = 9 + 9 \times 9 \times 9 - (999 + 9)/9.$

$627 = 9 \times 9 \times 9 + 9 - 999/9.$

$628 = 9 \times 9 \times 9 - 99 - (9 + 9)/9.$

$629 = 9 \times 9 \times 9 - 99 - 9/9.$

$630 = 9 \times 9 \times 9 - 99.$

$631 = 9 \times 9 \times 9 - 99 + 9/9.$

$632 = 9 \times 9 \times 9 - 99 + (9 + 9)/9.$

$633 = 9 \times 9 \times 9 - 99 + (9 + 9 + 9)/9.$

$634 = 9 \times 9 \times 9 - 99 + (9 + 9 + 9 + 9)/9.$

$635 = 9 \times 99 - ((9 + 9)/9)^{(9 - 9/9)}.$

$636 = 9 \times (9 \times 9 - 9) - (99 + 9)/9.$

$637 = 9 \times (9 \times 9 - 9) - 99/9.$

$638 = 9 \times (9 \times 9 - 9) - 9 - 9/9.$

$639 = 9 \times (9 \times 9 - 9) - 9.$

$640 = 9 \times (9 \times 9 - 9) - 9 + 9/9.$

$641 = 9 \times (9 \times 9 - 9) - 9 + (9 + 9)/9.$

$642 = 9 \times (9 \times 9 - 9) - 9 + (9 + 9 + 9)/9.$

$643 = 9 \times (9 \times 9 - 9) - (99 - 9)/(9 + 9).$

$644 = (9 \times 9 + 99/9) \times (9 - (9 + 9)/9).$

$645 = 9 \times (9 \times 9 - 9) - (9 + 9 + 9)/9.$

$646 = 9 \times (9 \times 9 - 9) - (9 + 9)/9.$

$647 = 9 \times (9 \times 9 - 9) - 9/9.$

$648 = 9 \times (9 \times 9 - 9).$

$649 = 9 \times (9 \times 9 - 9) + 9/9.$

$650 = 9 \times (9 \times 9 - 9) + (9 + 9)/9.$

$651 = 9 \times (9 \times 9 - 9) + (9 + 9 + 9)/9.$

$652 = 9 \times (9 \times 9 - 9) + (9 \times 9 - 9)/(9 + 9).$

$653 = 9 \times (9 \times 9 - 9) + (99 - 9)/(9 + 9).$

$654 = 9 \times (9 \times 9 - 9) + 9 - (9 + 9 + 9)/9.$

$655 = 9 \times (9 \times 9 - 9) + 9 - (9 + 9)/9.$

$656 = 9 \times (9 \times 9 - 9) + 9 - 9/9.$

$657 = 9 \times (9 \times 9 - 9) + 9.$

$658 = 9 \times (9 \times 9 - 9) + 9 + 9/9.$

$659 = 9 \times (9 \times 9 - 9) + 99/9.$

$660 = 9 \times (9 \times 9 - 9) + (99 + 9)/9.$

$661 = 9 \times (9 \times 9 - 9) + (99 + 9 + 9)/9.$

$662 = 9 \times (9 \times 9 - 9) + 9 + (99 - 9)/(9 + 9).$

$663 = 9 \times (9 \times 9 - 9) + 9 + 9 - (9 + 9 + 9)/9.$

$664 = (9 \times 9 + (9 + 9)/9) \times (9 - 9/9).$
$665 = 9 \times (9 \times 9 - 9) + 9 + 9 - 9/9.$
$666 = 9 \times (9 \times 9 - 9) + 9 + 9.$
$667 = 9 \times (9 \times 9 - 9) + 9 + 9 + 9/9.$
$668 = 9 \times (9 \times 9 - 9) + 9 + 99/9.$
$669 = 9 \times (9 \times 9 - 9) + 9 + (99 + 9)/9.$
$670 = 9 \times (9 \times 9 - 9) + (99 + 99)/9.$
$671 = 99 \times (9 \times 9 - 9 - 99/9)/9.$
$672 = (9 - 9/9) \times (9 \times 9 + (9 + 9 + 9)/9).$
$673 = 9 \times (9 + 9) + ((9 + 9)/9)^9 - 9/9.$
$674 = 9 \times (9 + 9) + ((9 + 9)/9)^9.$
$675 = 9 \times (9 \times 9 - 9) + 9 + 9 + 9.$
$676 = (9 + 9 + 9 - 9/9)^{((9+9)/9)}.$
$677 = 9 \times (9 \times 9 - 9) + 9 + 9 + 99/9.$
$678 = 999/9 + 9 \times (9 \times 9 - 9 - 9).$
$679 = 9 \times 9 \times 9 - (9 \times 99 + 9)/(9 + 9).$
$680 = 9 \times 9 \times 9 - (9 \times 99 - 9)/(9 + 9).$
$681 = -999/9 + 99 \times (9 - 9/9).$
$682 = (9 - (9 + 9)/9) \times 99 - 99/9.$
$683 = ((9 + 9)/9)^9 + 9 + 9 \times (9 + 9).$
$684 = 99 \times (9 - (9 + 9)/9) - 9.$
$685 = (9 - 9/9) \times (99 - 9/9) - 99.$
$686 = (9 - (9 + 9)/9) \times (99 - 9/9).$
$687 = (99 - (99 + 9)/9) \times (9 - 9/9) - 9.$
$688 = 9 \times 9 \times 9 - (9 \times 9 \times 9 + 9)/(9 + 9).$
$689 = 9 \times 9 \times 9 - (9 \times 9 \times 9 - 9)/(9 + 9).$
$690 = 9 \times (99 - 9) - 9 - 999/9.$
$691 = 9 \times 9 \times 9 - 9 - 9 - 9 - 99/9.$
$692 = 99 \times (9 - (9 + 9)/9) - 9/9.$
$693 = 99 \times (9 - (9 + 9)/9).$
$694 = 99 \times (9 - (9 + 9)/9) + 9/9.$
$695 = 99 \times (9 - (9 + 9)/9) + (9 + 9)/9.$
$696 = (9 - 9/9) \times (99 - (99 + 9)/9).$
$697 = 9 \times (99 - 9) - (999 + 9 + 9)/9.$
$698 = 9 \times (99 - 9) - (999 + 9)/9.$
$699 = 9 \times (9 \times 9 + 9) - 999/9.$
$700 = 9 \times 9 \times 9 - 9 - 9 - 99/9.$
$701 = 9 \times 9 \times 9 - 9 - 9 - 9 - 9/9.$
$702 = 9 \times (99 - 9) - 99 - 9.$
$703 = 9 \times 9 \times 9 - 9 - 9 - 9 + 9/9.$
$704 = (99 - 99/9) \times (9 - 9/9).$
$705 = 9 \times 9 \times 9 - (99 + 99 + 9 + 9)/9.$
$706 = 9 \times 9 \times 9 - (99 + 99 + 9)/9.$
$707 = 9 \times 9 \times 9 - (99 + 99)/9.$
$708 = 9 \times 9 \times 9 - 9 - (99 + 9)/9.$
$709 = 9 \times 9 \times 9 - 9 - 99/9.$
$710 = 9 \times 9 \times 9 - 9 - 9 - 9/9.$
$711 = 9 \times 9 \times 9 - 9 - 9.$
$712 = 9 \times 9 \times 9 - 9 - 9 + 9/9.$
$713 = 9 \times 9 \times 9 - 9 - 9 + (9 + 9)/9.$
$714 = 9 \times 9 \times 9 - 9 - 9 + (9 + 9 + 9)/9.$
$715 = 9 \times 9 \times 9 - 9 - (99 - 9)/(9 + 9).$
$716 = 9 \times 9 \times 9 - (99 + 9 + 9)/9.$
$717 = 9 \times 9 \times 9 - (99 + 9)/9.$
$718 = 9 \times 9 \times 9 - 9 - (9 + 9)/9.$
$719 = 9 \times 9 \times 9 - 9 - 9/9.$
$720 = 9 \times 9 \times 9 - 9.$
$721 = 9 \times 9 \times 9 - 9 + 9/9.$
$722 = 9 \times 9 \times 9 - 9 + (9 + 9)/9.$
$723 = 9 \times 9 \times 9 - 9 + (9 + 9 + 9)/9.$
$724 = 9 \times 9 \times 9 - (99 - 9)/(9 + 9).$
$725 = 9 \times 9 \times 9 - (9 + 9 + 9 + 9)/9.$
$726 = 9 \times 9 \times 9 - (9 + 9 + 9)/9.$
$727 = 9 \times 9 \times 9 - (9 + 9)/9.$
$728 = 9 \times 9 \times 9 - 9/9.$
$729 = 9 \times 9 \times 9.$

$730 = 9 \times 9 \times 9 + 9/9.$
$731 = 9 \times 9 \times 9 + (9 + 9)/9.$
$732 = 9 \times 9 \times 9 + (9 + 9 + 9)/9.$
$733 = 9 \times 9 \times 9 + (9 \times 9 - 9)/(9 + 9).$
$734 = 9 \times 9 \times 9 + (99 - 9)/(9 + 9).$
$735 = 9 \times 9 \times 9 + (99 + 9)/(9 + 9).$
$736 = 9 \times 9 \times 9 + 9 - (9 + 9)/9.$
$737 = 9 \times 9 \times 9 + 9 - 9/9.$
$738 = 9 \times 9 \times 9 + 9.$
$739 = 9 \times 9 \times 9 + 9 + 9/9.$
$740 = 9 \times 9 \times 9 + 99/9.$
$741 = 9 \times 9 \times 9 + (99 + 9)/9.$
$742 = 9 \times 9 \times 9 + (99 + 9 + 9)/9.$
$743 = 9 \times 9 \times 9 + 9 + (99 - 9)/(9 + 9).$
$744 = 9 \times 9 \times 9 + 9 + 9 - (9 + 9 + 9)/9.$
$745 = 9 \times 9 \times 9 + 9 + 9 - (9 + 9)/9.$
$746 = 9 \times 9 \times 9 + 9 + 9 - 9/9.$
$747 = 9 \times 9 \times 9 + 9 + 9.$
$748 = 9 \times 9 \times 9 + 9 + 9 + 9/9.$
$749 = 9 \times 9 \times 9 + 9 + 99/9.$
$750 = 9 \times 9 \times 9 + 9 + (99 + 9)/9.$
$751 = 9 \times 9 \times 9 + (99 + 99)/9.$
$752 = 9 \times 9 \times 9 + (99 + 99 + 9)/9.$
$753 = 9 \times 99 - 999/9 - 9 - 9 - 9.$
$754 = 9 \times 9 \times 9 + 9 + 9 + 9 - (9 + 9)/9.$
$755 = 9 \times 9 \times 9 + 9 + 9 + 9 - 9/9.$
$756 = 9 \times 9 \times 9 + 9 + 9 + 9.$
$757 = 9 \times 9 \times 9 + 9 + 9 + 9 + 9/9.$
$758 = 9 \times 9 \times 9 + 9 + 9 + 99/9.$
$759 = 9 \times (9 \times 9 - 9) + 999/9.$
$760 = 9 \times 9 \times 9 + 9 + (99 + 99)/9.$
$761 = 99 \times (9 \times 9 - 99/9)/9 - 9.$
$762 = 9 \times 99 - 9 - 9 - 999/9.$
$763 = (9/9 + 99 + 9) \times (9 - (9 + 9)/9).$
$764 = 9 \times 9 \times 9 + 9 + 9 + 9 + 9 - 9/9.$
$765 = 9 \times 9 \times 9 + 9 + 9 + 9 + 9.$
$766 = 9 \times 9 \times 9 + 9 + 9 + 9 + 9 + 9/9.$
$767 = 9 \times 9 \times 9 + 9 + 9 + 9 + 99/9.$
$768 = (9 - 9/9) \times (99 - (9 + 9 + 9)/9).$
$769 = 9 \times 99 - (99 + 999)/9.$
$770 = 99 \times (9 \times 9 - 99/9)/9.$
$771 = 9 \times 99 - 9 - 999/9.$
$772 = 9 \times 99 - 9 - 99 - 99/9.$
$773 = 9 \times 99 - 99 - 9 - 9 - 9/9.$
$774 = 9 \times 99 - 99 - 9 - 9.$
$775 = (99 - 9/9) \times (9 - 9/9) - 9.$
$776 = (9 - 9/9) \times (99 - (9 + 9)/9).$
$777 = 999 \times (9 - (9 + 9)/9)/9.$
$778 = 9 \times 9 \times 9 + (9 \times 99 - 9)/(9 + 9).$
$779 = 9 \times 99 - (999 + 9)/9.$
$780 = 9 \times 99 - 999/9.$
$781 = 9 \times 99 - 99 - 99/9.$
$782 = 9 \times 99 - 99 - 9 - 9/9.$
$783 = 9 \times 99 - 99 - 9.$
$784 = 9 \times 99 - 99 - 9 + 9/9.$
$785 = 9 \times 99 - 99 - 9 + (9 + 9)/9.$
$786 = 9 \times 99 - 99 - 9 + (9 + 9 + 9)/9.$
$787 = 9999/9 - (9 + 9) \times (9 + 9).$
$788 = 9 \times 99 + 9 - (999 + 9)/9.$
$789 = 9 \times 99 + 9 - 999/9.$
$790 = 9 \times (9 \times 9 + 9) - 9 - 99/9.$
$791 = 9 \times 99 - 99 - 9/9.$
$792 = 9 \times 99 - 99.$
$793 = 9 \times 99 - 99 + 9/9.$
$794 = 9 \times 99 - 99 + (9 + 9)/9.$
$795 = 9 \times 99 - 99 + (9 + 9 + 9)/9.$

$796 = 9 \times 99 - 99 + (9 + 9 + 9 + 9)/9.$
$797 = 9 \times (99 - 9) - (99 + 9 + 9)/9.$
$798 = 9 \times (99 - 9) - (99 + 9)/9.$
$799 = 9 \times (99 - 9) - 99/9.$
$800 = 9 \times (99 - 9) - 9 - 9/9.$
$801 = 9 \times (99 - 9) - 9.$
$802 = 9 \times (99 - 9) - 9 + 9/9.$
$803 = 9 \times 99 - 99 + 99/9.$
$804 = 9 \times (99 - 9) - 9 + (9 + 9 + 9)/9.$
$805 = 9 \times (99 - 9) - (99 - 9)/(9 + 9).$
$806 = 9 \times (99 - 9) - (9 + 9 + 9 + 9)/9.$
$807 = 9 \times (99 - 9) - (9 + 9 + 9)/9.$
$808 = 9 \times (99 - 9) - (9 + 9)/9.$
$809 = 9 \times (99 - 9) - 9/9.$
$810 = 9 \times (99 - 9).$
$811 = 9 \times (99 - 9) + 9/9.$
$812 = 9 \times (99 - 9) + (9 + 9)/9.$
$813 = 9 \times (99 - 9) + (9 + 9 + 9)/9.$
$814 = 9 \times (99 - 9) + (9 \times 9 - 9)/(9 + 9).$
$815 = 9 \times (99 - 9) + (99 - 9)/(9 + 9).$
$816 = 9 \times 9 \times 9 + 99 - (99 + 9)/9.$
$817 = 9 \times 9 \times 9 + 99 - 99/9.$
$818 = 9 \times (99 - 9) + 9 - 9/9.$
$819 = 9 \times 9 \times 9 + 99 - 9.$
$820 = 9 \times 9 \times 9 + 99 - 9 + 9/9.$
$821 = 9 \times (99 - 9) + 99/9.$
$822 = 9 \times (99 - 9) + (99 + 9)/9.$
$823 = 9 \times (99 - 9) + (99 + 9 + 9)/9.$
$824 = ((999 + 9)/9 - 9) \times (9 - 9/9).$
$825 = (999/9 - 9) \times (9 - 9/9) + 9.$
$826 = 9 \times 9 \times 9 + 99 - (9 + 9)/9.$
$827 = 9 \times 9 \times 9 + 99 - 9/9.$
$828 = 9 \times 9 \times 9 + 99.$
$829 = 9 \times 9 \times 9 + 99 + 9/9.$
$830 = 9 \times (9 \times 9 + 9) + 9 + 99/9.$
$831 = 9 \times 9 \times 9 - 9 + 999/9.$
$832 = 9 \times 9 \times 9 - 9 + (999 + 9)/9.$
$833 = 9 \times 9 \times 9 - 9 + (999 + 9 + 9)/9.$
$834 = 9 \times 9 \times 9 + 99 + 9 - (9 + 9 + 9)/9.$
$835 = 9 \times 9 \times 9 + 99 + 9 - (9 + 9)/9.$
$836 = 999 - 9 \times (9 + 9) - 9/9.$
$837 = 999 - 9 \times (9 + 9).$
$838 = 9 \times 9 \times 9 + 99 + 9 + 9/9.$
$839 = 9 \times 9 \times 9 + 99 + 99/9.$
$840 = 9 \times 9 \times 9 + 999/9.$
$841 = (9 + 9 + 99/9)^{((9+9)/9)}.$
$842 = 9 \times 99 - (99 \times 9 - 9)/(9 + 9).$
$843 = 9 \times (99 - 9) + 9 \times 99/(9 + 9 + 9).$
$844 = 9 \times 99 - 9 - 9 - 9 - 9 - 99/9.$
$845 = 9 \times 9 \times 9 + 99 + 9 + 9 - 9/9.$
$846 = 9 \times 9 \times 9 + 99 + 9 + 9.$
$847 = 9 \times 9 \times 9 + 99 + 9 + 9 + 9/9.$
$848 = 9 \times 9 \times 9 + 9 + (999 - 9)/9.$
$849 = 9 \times 9 \times 9 + 9 + 999/9.$
$850 = 9 \times 9 \times 9 + 99 \times 99/(9 \times 9).$
$851 = 9 \times 9 \times 9 + (99 + 999)/9.$
$852 = 9 \times (99 + 9) - 9 - 999/9.$
$853 = 9 \times 99 - 9 - 9 - 9 - 99/9.$
$854 = 9 \times 99 - 9 - 9 - 9 - 9 - 9/9.$
$855 = 9 \times 99 - 9 - 9 - 9 - 9.$
$856 = 9 \times 99 - 9 - 9 - 9 - 9 + 9/9.$
$857 = 9 \times 9 \times 9 + 99 + 9 + 9 + 99/9.$
$858 = 9 \times 9 \times 9 + 9 + 9 + 999/9.$
$859 = 9 \times 99 - 9 - (99 + 99 + 9)/9.$
$860 = 9 \times 99 - 9 - (99 + 99)/9.$
$861 = 9 \times (99 + 9) - 999/9.$

$862 = 9 \times 99 - 9 - 9 - 99/9.$

$863 = 9 \times 99 - 9 - 9 - 9 - 9/9.$

$864 = (99 + 9) \times (9 - 9/9).$

$865 = 9 \times (99 + 9) - 99 - 9 + 9/9.$

$866 = 9 \times 99 - 9 - 9 - 9 - 9 + 99/9.$

$867 = 9 \times 9 \times 9 + 9 + 9 + 9 + 999/9.$

$868 = 9 \times 99 - (99 + 99 + 9)/9.$

$869 = 9 \times 99 - (99 + 99)/9.$

$870 = 9 \times 99 - 9 - (99 + 9)/9.$

$871 = 9 \times 99 - 9 - 99/9.$

$872 = 9 \times 99 - 9 - 9 - 9/9.$

$873 = 9 \times (99 + 9) - 99.$

$874 = 9 \times 99 - 9 - 9 + 9/9.$

$875 = 9 \times 99 - 9 - 9 + (9 + 9)/9.$

$876 = 9 \times 99 - 9 - 9 + (9 + 9 + 9)/9.$

$877 = 9 \times 99 - 9 - (99 - 9)/(9 + 9).$

$878 = 9 \times 99 - (99 + 9 + 9)/9.$

$879 = 9 \times 99 - (99 + 9)/9.$

$880 = 9 \times 99 - 99/9.$

$881 = 9 \times 99 - 9 - 9/9.$

$882 = 9 \times 99 - 9.$

$883 = 9 \times 99 - 9 + 9/9.$

$884 = 9 \times 99 - 9 + (9 + 9)/9.$

$885 = 9 \times 99 - 9 + (9 + 9 + 9)/9.$

$886 = 9 \times 99 - (99 - 9)/(9 + 9).$

$887 = 9 \times 99 - (9 \times 9 - 9)/(9 + 9).$

$888 = 999 - 999/9.$

$889 = 9 \times 99 - (9 + 9)/9.$

$890 = 9 \times 99 - 9/9.$

$891 = 9 \times 99.$

$892 = 9 \times 99 + 9/9.$

$893 = 9 \times 99 + (9 + 9)/9.$

$894 = 9 \times 99 + (9 + 9 + 9)/9.$

$895 = 9 \times 99 + (9 \times 9 - 9)/(9 + 9).$

$896 = (999 + 9) \times (9 - 9/9)/9.$

$897 = 9 \times 99 + 9 - (9 + 9 + 9)/9.$

$898 = 9 \times 99 + 9 - (9 + 9)/9.$

$899 = 9 \times 99 + 9 - 9/9.$

$900 = 9 \times 99 + 9.$

$901 = 9 \times 99 + 9 + 9/9.$

$902 = 9 \times 99 + 99/9.$

$903 = 9 \times 99 + (99 + 9)/9.$

$904 = 9 \times 99 + (99 + 9 + 9)/9.$

$905 = 9 \times 99 + 9 + (99 - 9)/(9 + 9).$

$906 = 9 \times 99 + 9 + 9 - (9 + 9 + 9)/9.$

$907 = 9 \times 99 + 9 + 9 - (9 + 9)/9.$

$908 = 9 \times 99 + 9 + 9 - 9/9.$

$909 = 9 \times 99 + 9 + 9.$

$910 = 9 \times 99 + 9 + 9 + 9/9.$

$911 = 9 \times 99 + 9 + 99/9.$

$912 = 9 \times 99 + 9 + (99 + 9)/9.$

$913 = 9 \times 99 + (99 + 99)/9.$

$914 = 9 \times 99 + (99 + 99 + 9)/9.$

$915 = 999 - 9 \times 9 - (9 + 9 + 9)/9.$

$916 = 999 - 9 \times 9 - (9 + 9)/9.$

$917 = 999 - 9 \times 9 - 9/9.$

$918 = 999 - 9 \times 9.$

$919 = 999 - 9 \times 9 + 9/9.$

$920 = 999 - 9 \times 9 + (9 + 9)/9.$

$921 = 9 \times (9 \times 9 + 9) + 999/9.$

$922 = 9 \times (99 - 9) + (999 + 9)/9.$

$923 = 9 \times 99 + 9 + (99 + 99 + 9)/9.$

$924 = 9 \times (99 + 99/(9 + 9 + 9)).$

$925 = ((9 + 9)/9)^{(9 + 9/9)} - 99.$

$926 = 999 - 9 \times 9 + 9 - 9/9.$

$927 = 999 - 9 \times 9 + 9.$

$928 = 999 - 9 \times 9 + 9 + 9/9.$

$929 = 999 - 9 \times 9 + 99/9.$

$930 = (999/9 - 9 - 9) \times (9/9 + 9).$

$931 = 9999/9 - 9 \times 9 - 99.$

$932 = 9 \times 99 + (9 \times 9 \times 9 + 9)/(9 + 9).$

$933 = 999 - 9 \times 9 + 9 + 9 - (9 + 9 + 9)/9.$

$934 = ((9 + 9)/9)^{(9 + 9/9)} - 9 \times 9 - 9.$

$935 = 999 - 9 \times 9 + 9 + 9 - 9/9.$

$936 = 999 - 9 \times 9 + 9 + 9.$

$937 = 999 - 9 \times 9 + 9 + 9 + 9/9.$

$938 = 999 - 9 \times 9 + 9 + 99/9.$

$939 = 9 \times 9 \times 9 + 99 + 999/9.$

$940 = 9 \times 99 + (9 \times 99 - 9)/(9 + 9).$

$941 = 9 \times 99 + (9 \times 99 + 9)/(9 + 9).$

$942 = 9 \times (99 + 9 + 9) - 999/9.$

$943 = ((9 + 9)/9)^{(9 + 9/9)} - 9 \times 9.$

$944 = 9 \times (9 + 99) - 9 - 9 - 9 - 9/9.$

$945 = 9 \times (9 + 99) - 9 - 9 - 9.$

$946 = 9 \times (9 + 99) - 9 - 9 - 9 + 9/9.$

$947 = 9 \times 99 + (999 + 9)/(9 + 9).$

$948 = (99 + 9) \times (9 \times 9 - (9 + 9)/9)/9.$

$949 = 9999/9 - 9 \times (9 + 9).$

$950 = 9 \times (99 + 9) - (99 + 99)/9.$

$951 = 9 \times (99 + 9) - 9 - (99 + 9)/9.$

$952 = 9 \times (9 + 99) - 9 - 99/9.$

$953 = 9 \times (9 + 99) - 9 - 9 - 9/9.$

$954 = 9 \times (9 + 99) - 9 - 9.$

$955 = 9 \times (9 + 99) - 9 - 9 + 9/9.$

$956 = 9 \times (9 + 99) - 9 - 9 + (9 + 9)/9.$

$957 = 99 \times (99 - (99 + 9)/9)/9.$

$958 = 9 + 9999/9 - 9 \times (9 + 9).$

$959 = 9 \times (99 + 9) - (99 + 9 + 9)/9.$

$960 = (99 + 9) \times (9 \times 9 - 9/9)/9.$

$961 = 9 \times (99 + 9) - 99/9.$

$962 = 9 \times (99 + 9) - 9 - 9/9.$

$963 = 9 \times (99 + 9) - 9.$

$964 = 9 \times (99 + 9) - 9 + 9/9.$

$965 = 9 \times (99 + 9) - 9 + (9 + 9)/9.$

$966 = 9 \times (99 + 9) - 9 + (9 + 9 + 9)/9.$

$967 = 9 \times (99 + 9) - (99 - 9)/(9 + 9).$

$968 = 99 \times (99 - 99/9)/9.$

$969 = 9 \times (99 + 9) - (9 + 9 + 9)/9.$

$970 = 9 \times (99 + 9) - (9 + 9)/9.$

$971 = 9 \times (99 + 9) - 9/9.$

$972 = 9 \times (99 + 9).$

$973 = 9 \times (99 + 9) + 9/9.$

$974 = 9 \times (99 + 9) + (9 + 9)/9.$

$975 = 9 \times (99 + 9) + (9 + 9 + 9)/9.$

$976 = 999 - (99 + 99 + 9)/9.$

$977 = 999 - (99 + 99)/9.$

$978 = 999 - 9 - (99 + 9)/9.$

$979 = 999 - 9 - 99/9.$

$980 = (9 + 9/9) \times (99 - 9/9).$

$981 = 999 - 9 - 9.$

$982 = 999 - 9 - 9 + 9/9.$

$983 = 9 \times (99 + 9) + 99/9.$

$984 = (99 + 9) \times (9 \times 9 + 9/9)/9.$

$985 = 999 - (99 + 9 + 9 + 9)/9.$

$986 = 999 - (99 + 9 + 9)/9.$

$987 = 999 - (99 + 9)/9.$

$988 = 999 - 99/9.$

$989 = 999 - 9 - 9/9.$

$990 = 999 - 9.$

$991 = 999 - 9 + 9/9.$

$992 = 999 - 9 + (9 + 9)/9.$

$993 = 999 - 9 + (9 + 9 + 9)/9.$

$994 = 999 - (99 - 9)/(9 + 9).$

$995 = 999 - (9 + 9 + 9 + 9)/9.$

$996 = 999 - (9 + 9 + 9)/9.$

$997 = 999 - (9 + 9)/9.$

$998 = 999 - 9/9.$

$999 = 999.$

$1000 = 999 + 9/9.$

13. Acknowledgement

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