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Fibonacci Sequence and Selfie Numbers - I

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Abstract

Numbers represented by their own digits by certain operations are considered as "Selfie Numbers". There are many ways of representing "Selfie Numbers", such as, numbers written in digit's order or its reverse. It can also be represented in increasing and/or decreasing order of digits. This is generally obtained by use of basis operations along with factorial and square-root, etc. In this work we have written "Selfie Numbers" using Fibonacci sequence value in digit's order and its reverse.

The work of this paper is divided in sections and subsections given below:

- 1 Introduction;
- 1.1 Selfie Numbers;
- 1.2 Fibonacci Sequence;
- 2 Palindromic Numbers Representations;
- 3 Symmetric Representations;
- 3.1 Symmetric Representations in Both Ways;
- 3.2 Symmetric Representations in Digit's Order;
- 3.3 Symmetric Representations in Reverse Order of Digits;
- 4 Symmetric Representations in terms of F(2), F(3) and F(4);
- 4.1 Symmetric Representations in Both Ways;
- 4.2 Symmetric Representations in Digit's Order;
- 4.3 Symmetric Representations in Reverse Order of Digits;
- 5 Number Patterns with Fibonacci Sequence Values;
- 6 More Selfie Numbers;
- 6.1 Both Ways Representations;
- 6.2 Digit's Order;
- 6.3 Reverse Order of Digits.

1 Introduction

This introductory sections deals with the explanations of two principal ideas. One is on *selfie numbers* and another on obtaining selfie numbers by use of *Fibonacci sequence* values.

1.1 Selfie Numbers

Numbers represented by their own digits by use of certain operations are considered as "Selfie Number". These numbers are divided in two categories. These two categories are again divided in two each, i.e., one in order of digits appearing in the numbers and their reverse, and the second is in increasing and decreasing order of digits. See below examples in each category:

- Digit's Order

$$936 = (\sqrt{9})!^3 + 6!;$$

$$1296 = \sqrt{(1+2)!^9}/6;$$

$$2896 = 2 \times (8 + (\sqrt{9})!! + 6!);$$

$$12969 = 1 \times 2 \times 9 \times 6! + 9.$$

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• Reverse Order of Digits

$$936 = 6! + (3!)^{\sqrt{9}};$$

$$1296 = 6^{(\sqrt{9}+2-1)};$$

$$2896 = (6! + (\sqrt{9})!! + 8) \times 2;$$

$$20167 = 7 + (6 + 1 + 0!)/2.$$

• Increasing Order of Digits

$$936 = 3!! + 6^{\sqrt{9}};$$

$$1296 = (1 + 2)! \times 6^{\sqrt{9}};$$

$$8397 = -3 - 7! + 8!/\sqrt{9};$$

$$241965 = (1 + (2 \times 4)! + 5) \times 6 + 9.$$

• Decreasing Order of Digits

$$936 = (\sqrt{9})!! + 6^3;$$

$$1296 = ((\sqrt{9})! \times 6)^2 \times 1;$$

$$20148 = (8! - 4)/2 - 10;$$

$$435609 = 9 + (6! - 5!/\sqrt{4})^{(3-0!)}.$$

We observe that in some case, the same number can be represented in more than one or in all the four ways. For more details on *selfie numbers* refer to author’s work [11, 14, 16], [20]-[24], For more work on numbers in different situations refer also author’s work [10]-[13], [17]-[19], [25]-[44]. Also refer [1, 3, 4, 7, 8, 9] for more studies. Few basic examples connecting Fibonacci sequence values can be seen in [2].

Above we have given examples of *selfie numbers* in four different ways. This has been done using the basic operations along with *factorial* and *square-root*.

1.2 Fibonacci Sequence

Fibonacci sequence numbers are well known in literature [5, 6]. This sequence is defined as

$$F(0) = 0, \quad F(1) = 1, \quad F(n + 1) = F(n) + F(n - 1), \quad n \geq 1.$$

Initial values of Fibonacci sequence are given by

$F(1) = 1$	$F(6) = 8$	$F(11) = 89$	$F(16) = 987$	$F(21) = 10946$
$F(2) = 1$	$F(7) = 13$	$F(12) = 144$	$F(17) = 1597$	$F(22) = 17711$
$F(3) = 2$	$F(8) = 21$	$F(13) = 233$	$F(18) = 2584$	$F(23) = 28657$
$F(4) = 3$	$F(9) = 34$	$F(14) = 377$	$F(19) = 4181$	$F(24) = 46368$
$F(5) = 5$	$F(10) = 55$	$F(15) = 610$	$F(20) = 6765$	$F(25) = 75025, \text{ etc,}$

Interestingly, natural numbers can be written in terms of *Fibonacci sequence* values. Below are examples:

$0 = F(0)$	$6 = F(2) + F(5)$	$12 = F(2) + F(4) + F(6)$	$18 = F(5) + F(7)$
$1 = F(1) = F(2)$	$7 = F(3) + F(5)$	$13 = F(7)$	$19 = F(2) + F(5) + F(7)$
$2 = F(3)$	$8 = F(6)$	$14 = F(2) + F(7)$	$20 = F(3) + F(5) + F(7)$
$3 = F(4)$	$9 = F(2) + F(6)$	$15 = F(3) + F(7)$	$21 = F(8)$
$4 = F(2) + F(4)$	$10 = F(3) + F(6)$	$16 = F(4) + F(7)$	$22 = F(2) + F(8)$
$5 = F(5)$	$11 = F(4) + F(6)$	$17 = F(2) + F(4) + F(7)$	$23 = F(3) + F(8)$ etc,

The work on *selfie numbers* based on *Fibonacci sequence* values is divided in three parts. See below this division:

(i) In this paper, we worked with *selfie numbers* just using the terms of Fibonacci sequences as $F(.)$. See some examples, below:

$$256 = 2^5 \times F(6).$$

$$46493 = F(4 \times 6) + (-4 + 9)^3 .882 = 2 \times F(8) \times F(8).$$

$$1631 = F(13) \times (6 + 1).$$

$$54128 = 8 \times (F(2) + F(1 \times 4 \times 5)).$$

(ii) In the second paper, we used *composition* of *Fibonacci sequence* values to write numbers, such as, $F(F(.)), F(F(F(.)))$, etc. See some examples, below:

$$235 = 2 + F(F(F(3) + 5)).$$

$$4427 = (F(4) + 4^2) \times F(F(7)).$$

$$63 = 3 \times F(F(6)).$$

$$43956 = (F(F(F(6))) + 5 \times 9 - F(3)) \times 4.$$

The first two examples are in order of digits, and last two examples are in reverse order of digits. Here compositions function like, $F(F(.)), F(F(F(.)))$, arising due to Fibonacci sequence values are used. This is done in [45].

(iii) The third paper is a combination of parts (i) and (ii) along with *factorial* and *square-root*, for example,

$$447 = (F(4))!! - F(F((F(4))!)) \times F(7).$$

$$954 = F((\sqrt{9})!) \times 5! - F(4)!.$$

$$433 = F(F(3!))^{F(3)} - F(F(4)!).$$

$$1919 = (F((\sqrt{9})!))/F(-1 + 9) - 1.$$

The first two examples are in order of digits, and last two examples are in reverse order of digits. The composition functions, like, $F(F(.)), F(F(F(.)))$, arising due to Fibonacci sequence values are used. along with *factorial* and *square-roots*.

2 Palindromic Number Representations

This section brings *selfie palindromic numbers* by use of Fibonacci sequence values. The idea of starting the work with palindromic numbers is as they are symmetric in itself, i.e., remains the same by changing the order of digits. Below are *selfie palindromic numbers*:

$$\begin{aligned}
55 &= F(5 + 5). \\
3773 &= (-F(3) + F(7)) \times 7^3. \\
13531 &= F((1 + 3) \times 5) \times F(3) + 1. \\
14641 &= 1 + (F(4) + F(6))^4 - 1. \\
15251 &= F(15) \times 25 + 1. \\
39393 &= 3^9 \times F(3) + 9 \times 3. \\
46264 &= F(4 \times 6) - 26 \times 4. \\
46364 &= F(4 \times 6) - F(3) - 6 + 4. \\
46464 &= F(4 \times 6) + 4 \times 6 \times 4. \\
46664 &= 4 + 6^6 + F(6) - 4. \\
48384 &= (F(4) \times 8)^{F(3)} \times 84. \\
62426 &= (F(6) - F(2))^4 \times 26. \\
63936 &= 6^3 \times (F(9) + 3) \times F(6). \\
69696 &= (F(6) \times F(9) - F(6))^{F(9-6)}. \\
747747 &= (-7 + F(4)^7) \times 7^{F(4)} + 7. \\
777777 &= F(7) \times 77 \times 777. \\
999999 &= (9 + F(9)) \times 9 \times F(9 + 9) - 9.
\end{aligned}$$

3 Symmetric Representations

In this section, we shall give *selfie numbers* in terms of Fibonacci sequence values along with basic operations. These representations are in symmetric way, i.e., all is same except the digits 0 to 9. This happens in both ways, i.e., in digit's order and in reverse order of digits. In some cases numbers can be written in both the ways. The following subsections give the symmetric numbers three situations. In this section, we have worked up to width 6, i.e., numbers having maximum 6 digits.

3.1 Symmetric Representations in Both Ways

Below are examples of numbers written in digit's order and its reverse:

$$\begin{aligned}
13530 &= F((1 + 3) \times 5) \times F(3) + 0 = 0 + F(3) \times F(5 \times (3 + 1)) \\
13531 &= F((1 + 3) \times 5) \times F(3) + 1 = 1 + F(3) \times F(5 \times (3 + 1)) \\
13532 &= F((1 + 3) \times 5) \times F(3) + 2 = 2 + F(3) \times F(5 \times (3 + 1)) \\
13533 &= F((1 + 3) \times 5) \times F(3) + 3 = 3 + F(3) \times F(5 \times (3 + 1)) \\
13534 &= F((1 + 3) \times 5) \times F(3) + 4 = 4 + F(3) \times F(5 \times (3 + 1)) \\
13535 &= F((1 + 3) \times 5) \times F(3) + 5 = 5 + F(3) \times F(5 \times (3 + 1)) \\
13536 &= F((1 + 3) \times 5) \times F(3) + 6 = 6 + F(3) \times F(5 \times (3 + 1)) \\
13537 &= F((1 + 3) \times 5) \times F(3) + 7 = 7 + F(3) \times F(5 \times (3 + 1)) \\
13538 &= F((1 + 3) \times 5) \times F(3) + 8 = 8 + F(3) \times F(5 \times (3 + 1)) \\
13539 &= F((1 + 3) \times 5) \times F(3) + 9 = 9 + F(3) \times F(5 \times (3 + 1)).
\end{aligned}$$

$$\begin{aligned}
14640 &= 0 + (F(4) + F(6))^4 - 1 = -1 + (F(4) + F(6))^4 + 0 \\
14641 &= 1 + (F(4) + F(6))^4 - 1 = -1 + (F(4) + F(6))^4 + 1 \\
14642 &= 2 + (F(4) + F(6))^4 - 1 = -1 + (F(4) + F(6))^4 + 2 \\
14643 &= 3 + (F(4) + F(6))^4 - 1 = -1 + (F(4) + F(6))^4 + 3 \\
14644 &= 4 + (F(4) + F(6))^4 - 1 = -1 + (F(4) + F(6))^4 + 4 \\
14645 &= 5 + (F(4) + F(6))^4 - 1 = -1 + (F(4) + F(6))^4 + 5 \\
14646 &= 6 + (F(4) + F(6))^4 - 1 = -1 + (F(4) + F(6))^4 + 6 \\
14647 &= 7 + (F(4) + F(6))^4 - 1 = -1 + (F(4) + F(6))^4 + 7 \\
14648 &= 8 + (F(4) + F(6))^4 - 1 = -1 + (F(4) + F(6))^4 + 8 \\
14649 &= 9 + (F(4) + F(6))^4 - 1 = -1 + (F(4) + F(6))^4 + 9.
\end{aligned}$$

$$\begin{aligned}
39360 &= 3^9 \times F(3) - 6 + 0 = 0 - 6 + 3^9 \times F(3) \\
39361 &= 3^9 \times F(3) - 6 + 1 = 1 - 6 + 3^9 \times F(3) \\
39362 &= 3^9 \times F(3) - 6 + 2 = 2 - 6 + 3^9 \times F(3) \\
39363 &= 3^9 \times F(3) - 6 + 3 = 3 - 6 + 3^9 \times F(3) \\
39364 &= 3^9 \times F(3) - 6 + 4 = 4 - 6 + 3^9 \times F(3) \\
39365 &= 3^9 \times F(3) - 6 + 5 = 5 - 6 + 3^9 \times F(3) \\
39366 &= 3^9 \times F(3) - 6 + 6 = 6 - 6 + 3^9 \times F(3) \\
39367 &= 3^9 \times F(3) - 6 + 7 = 7 - 6 + 3^9 \times F(3) \\
39368 &= 3^9 \times F(3) - 6 + 8 = 8 - 6 + 3^9 \times F(3) \\
39369 &= 3^9 \times F(3) - 6 + 9 = 9 - 6 + 3^9 \times F(3).
\end{aligned}$$

$$\begin{aligned}
43760 &= 4 \times (F(3 \times 7) - 6) + 0 = 0 + (-6 + F(7 \times 3)) \times 4 \\
43761 &= 4 \times (F(3 \times 7) - 6) + 1 = 1 + (-6 + F(7 \times 3)) \times 4 \\
43762 &= 4 \times (F(3 \times 7) - 6) + 2 = 2 + (-6 + F(7 \times 3)) \times 4 \\
43763 &= 4 \times (F(3 \times 7) - 6) + 3 = 3 + (-6 + F(7 \times 3)) \times 4 \\
43764 &= 4 \times (F(3 \times 7) - 6) + 4 = 4 + (-6 + F(7 \times 3)) \times 4 \\
43765 &= 4 \times (F(3 \times 7) - 6) + 5 = 5 + (-6 + F(7 \times 3)) \times 4 \\
43766 &= 4 \times (F(3 \times 7) - 6) + 6 = 6 + (-6 + F(7 \times 3)) \times 4 \\
43767 &= 4 \times (F(3 \times 7) - 6) + 7 = 7 + (-6 + F(7 \times 3)) \times 4 \\
43768 &= 4 \times (F(3 \times 7) - 6) + 8 = 8 + (-6 + F(7 \times 3)) \times 4 \\
43769 &= 4 \times (F(3 \times 7) - 6) + 9 = 9 + (-6 + F(7 \times 3)) \times 4.
\end{aligned}$$

$$\begin{aligned}
46360 &= F(4 \times 6) - F(3) - 6 + 0 = 0 - 6 - F(3) + F(6 \times 4) \\
46361 &= F(4 \times 6) - F(3) - 6 + 1 = 1 - 6 - F(3) + F(6 \times 4) \\
46362 &= F(4 \times 6) - F(3) - 6 + 2 = 2 - 6 - F(3) + F(6 \times 4) \\
46363 &= F(4 \times 6) - F(3) - 6 + 3 = 3 - 6 - F(3) + F(6 \times 4) \\
46364 &= F(4 \times 6) - F(3) - 6 + 4 = 4 - 6 - F(3) + F(6 \times 4) \\
46365 &= F(4 \times 6) - F(3) - 6 + 5 = 5 - 6 - F(3) + F(6 \times 4) \\
46366 &= F(4 \times 6) - F(3) - 6 + 6 = 6 - 6 - F(3) + F(6 \times 4) \\
46367 &= F(4 \times 6) - F(3) - 6 + 7 = 7 - 6 - F(3) + F(6 \times 4) \\
46368 &= F(4 \times 6) - F(3) - 6 + 8 = 8 - 6 - F(3) + F(6 \times 4) \\
46369 &= F(4 \times 6) - F(3) - 6 + 9 = 9 - 6 - F(3) + F(6 \times 4).
\end{aligned}$$

$$\begin{aligned}
46380 &= 4 + F(6) + F(3 \times 8) + 0 = 0 + F(8 \times 3) + F(6) + 4 \\
46381 &= 4 + F(6) + F(3 \times 8) + 1 = 1 + F(8 \times 3) + F(6) + 4 \\
46382 &= 4 + F(6) + F(3 \times 8) + 2 = 2 + F(8 \times 3) + F(6) + 4 \\
46383 &= 4 + F(6) + F(3 \times 8) + 3 = 3 + F(8 \times 3) + F(6) + 4 \\
46384 &= 4 + F(6) + F(3 \times 8) + 4 = 4 + F(8 \times 3) + F(6) + 4 \\
46385 &= 4 + F(6) + F(3 \times 8) + 5 = 5 + F(8 \times 3) + F(6) + 4 \\
46386 &= 4 + F(6) + F(3 \times 8) + 6 = 6 + F(8 \times 3) + F(6) + 4 \\
46387 &= 4 + F(6) + F(3 \times 8) + 7 = 7 + F(8 \times 3) + F(6) + 4 \\
46388 &= 4 + F(6) + F(3 \times 8) + 8 = 8 + F(8 \times 3) + F(6) + 4 \\
46389 &= 4 + F(6) + F(3 \times 8) + 9 = 9 + F(8 \times 3) + F(6) + 4.
\end{aligned}$$

$$\begin{aligned}
46660 &= -4 + F(6) + 6^6 + 0 = 0 + 6^6 + F(6) - 4 \\
46661 &= -4 + F(6) + 6^6 + 1 = 1 + 6^6 + F(6) - 4 \\
46662 &= -4 + F(6) + 6^6 + 2 = 2 + 6^6 + F(6) - 4 \\
46663 &= -4 + F(6) + 6^6 + 3 = 3 + 6^6 + F(6) - 4 \\
46664 &= -4 + F(6) + 6^6 + 4 = 4 + 6^6 + F(6) - 4 \\
46665 &= -4 + F(6) + 6^6 + 5 = 5 + 6^6 + F(6) - 4 \\
46666 &= -4 + F(6) + 6^6 + 6 = 6 + 6^6 + F(6) - 4 \\
46667 &= -4 + F(6) + 6^6 + 7 = 7 + 6^6 + F(6) - 4 \\
46668 &= -4 + F(6) + 6^6 + 8 = 8 + 6^6 + F(6) - 4 \\
46669 &= -4 + F(6) + 6^6 + 9 = 9 + 6^6 + F(6) - 4.
\end{aligned}$$

$$\begin{aligned}
46680 &= F(4) + 6^6 + F(8) + 0 = 0 + F(8) + 6^6 + F(4) \\
46681 &= F(4) + 6^6 + F(8) + 1 = 1 + F(8) + 6^6 + F(4) \\
46682 &= F(4) + 6^6 + F(8) + 2 = 2 + F(8) + 6^6 + F(4) \\
46683 &= F(4) + 6^6 + F(8) + 3 = 3 + F(8) + 6^6 + F(4) \\
46684 &= F(4) + 6^6 + F(8) + 4 = 4 + F(8) + 6^6 + F(4) \\
46685 &= F(4) + 6^6 + F(8) + 5 = 5 + F(8) + 6^6 + F(4) \\
46686 &= F(4) + 6^6 + F(8) + 6 = 6 + F(8) + 6^6 + F(4) \\
46687 &= F(4) + 6^6 + F(8) + 7 = 7 + F(8) + 6^6 + F(4) \\
46688 &= F(4) + 6^6 + F(8) + 8 = 8 + F(8) + 6^6 + F(4) \\
46689 &= F(4) + 6^6 + F(8) + 9 = 9 + F(8) + 6^6 + F(4).
\end{aligned}$$

$$\begin{aligned}
87840 &= F(8+7) \times F(8+4) + 0 = 0 + F(4+8) \times F(7+8) \\
87841 &= F(8+7) \times F(8+4) + 1 = 1 + F(4+8) \times F(7+8) \\
87842 &= F(8+7) \times F(8+4) + 2 = 2 + F(4+8) \times F(7+8) \\
87843 &= F(8+7) \times F(8+4) + 3 = 3 + F(4+8) \times F(7+8) \\
87844 &= F(8+7) \times F(8+4) + 4 = 4 + F(4+8) \times F(7+8) \\
87845 &= F(8+7) \times F(8+4) + 5 = 5 + F(4+8) \times F(7+8) \\
87846 &= F(8+7) \times F(8+4) + 6 = 6 + F(4+8) \times F(7+8) \\
87847 &= F(8+7) \times F(8+4) + 7 = 7 + F(4+8) \times F(7+8) \\
87848 &= F(8+7) \times F(8+4) + 8 = 8 + F(4+8) \times F(7+8) \\
87849 &= F(8+7) \times F(8+4) + 9 = 9 + F(4+8) \times F(7+8).
\end{aligned}$$

$$\begin{aligned}
89670 &= F(8) \times F(9+6) \times 7 + 0 = 0 + 7 \times F(6+9) \times F(8) \\
89671 &= F(8) \times F(9+6) \times 7 + 1 = 1 + 7 \times F(6+9) \times F(8) \\
89672 &= F(8) \times F(9+6) \times 7 + 2 = 2 + 7 \times F(6+9) \times F(8) \\
89673 &= F(8) \times F(9+6) \times 7 + 3 = 3 + 7 \times F(6+9) \times F(8) \\
89674 &= F(8) \times F(9+6) \times 7 + 4 = 4 + 7 \times F(6+9) \times F(8) \\
89675 &= F(8) \times F(9+6) \times 7 + 5 = 5 + 7 \times F(6+9) \times F(8) \\
89676 &= F(8) \times F(9+6) \times 7 + 6 = 6 + 7 \times F(6+9) \times F(8) \\
89677 &= F(8) \times F(9+6) \times 7 + 7 = 7 + 7 \times F(6+9) \times F(8) \\
89678 &= F(8) \times F(9+6) \times 7 + 8 = 8 + 7 \times F(6+9) \times F(8) \\
89679 &= F(8) \times F(9+6) \times 7 + 9 = 9 + 7 \times F(6+9) \times F(8).
\end{aligned}$$

$$\begin{aligned}
121390 &= -1 - 2 + F(-1 + 3 \times 9) + 0 = 0 + F(9 \times 3 - 1) - 2 - 1 \\
121391 &= -1 - 2 + F(-1 + 3 \times 9) + 1 = 1 + F(9 \times 3 - 1) - 2 - 1 \\
121392 &= -1 - 2 + F(-1 + 3 \times 9) + 2 = 2 + F(9 \times 3 - 1) - 2 - 1 \\
121393 &= -1 - 2 + F(-1 + 3 \times 9) + 3 = 3 + F(9 \times 3 - 1) - 2 - 1 \\
121394 &= -1 - 2 + F(-1 + 3 \times 9) + 4 = 4 + F(9 \times 3 - 1) - 2 - 1 \\
121395 &= -1 - 2 + F(-1 + 3 \times 9) + 5 = 5 + F(9 \times 3 - 1) - 2 - 1 \\
121396 &= -1 - 2 + F(-1 + 3 \times 9) + 6 = 6 + F(9 \times 3 - 1) - 2 - 1 \\
121397 &= -1 - 2 + F(-1 + 3 \times 9) + 7 = 7 + F(9 \times 3 - 1) - 2 - 1 \\
121398 &= -1 - 2 + F(-1 + 3 \times 9) + 8 = 8 + F(9 \times 3 - 1) - 2 - 1 \\
121399 &= -1 - 2 + F(-1 + 3 \times 9) + 9 = 9 + F(9 \times 3 - 1) - 2 - 1.
\end{aligned}$$

$$\begin{aligned}
159390 &= (-1 + F(-5 + 9 \times 3)) \times 9 + 0 = 0 + 9 \times (F(3 \times 9 - 5) - 1) \\
159391 &= (-1 + F(-5 + 9 \times 3)) \times 9 + 1 = 1 + 9 \times (F(3 \times 9 - 5) - 1) \\
159392 &= (-1 + F(-5 + 9 \times 3)) \times 9 + 2 = 2 + 9 \times (F(3 \times 9 - 5) - 1) \\
159393 &= (-1 + F(-5 + 9 \times 3)) \times 9 + 3 = 3 + 9 \times (F(3 \times 9 - 5) - 1) \\
159394 &= (-1 + F(-5 + 9 \times 3)) \times 9 + 4 = 4 + 9 \times (F(3 \times 9 - 5) - 1) \\
159395 &= (-1 + F(-5 + 9 \times 3)) \times 9 + 5 = 5 + 9 \times (F(3 \times 9 - 5) - 1) \\
159396 &= (-1 + F(-5 + 9 \times 3)) \times 9 + 6 = 6 + 9 \times (F(3 \times 9 - 5) - 1) \\
159397 &= (-1 + F(-5 + 9 \times 3)) \times 9 + 7 = 7 + 9 \times (F(3 \times 9 - 5) - 1) \\
159398 &= (-1 + F(-5 + 9 \times 3)) \times 9 + 8 = 8 + 9 \times (F(3 \times 9 - 5) - 1) \\
159399 &= (-1 + F(-5 + 9 \times 3)) \times 9 + 9 = 9 + 9 \times (F(3 \times 9 - 5) - 1).
\end{aligned}$$

$$\begin{aligned}
196390 &= -1 \times F(9) + 6 + F(3 \times 9) + 0 = 0 + F(9 \times 3) + 6 - F(9) \times 1 \\
196391 &= -1 \times F(9) + 6 + F(3 \times 9) + 1 = 1 + F(9 \times 3) + 6 - F(9) \times 1 \\
196392 &= -1 \times F(9) + 6 + F(3 \times 9) + 2 = 2 + F(9 \times 3) + 6 - F(9) \times 1 \\
196393 &= -1 \times F(9) + 6 + F(3 \times 9) + 3 = 3 + F(9 \times 3) + 6 - F(9) \times 1 \\
196394 &= -1 \times F(9) + 6 + F(3 \times 9) + 4 = 4 + F(9 \times 3) + 6 - F(9) \times 1 \\
196395 &= -1 \times F(9) + 6 + F(3 \times 9) + 5 = 5 + F(9 \times 3) + 6 - F(9) \times 1 \\
196396 &= -1 \times F(9) + 6 + F(3 \times 9) + 6 = 6 + F(9 \times 3) + 6 - F(9) \times 1 \\
196397 &= -1 \times F(9) + 6 + F(3 \times 9) + 7 = 7 + F(9 \times 3) + 6 - F(9) \times 1 \\
196398 &= -1 \times F(9) + 6 + F(3 \times 9) + 8 = 8 + F(9 \times 3) + 6 - F(9) \times 1 \\
196399 &= -1 \times F(9) + 6 + F(3 \times 9) + 9 = 9 + F(9 \times 3) + 6 - F(9) \times 1.
\end{aligned}$$

$$\begin{aligned}
202890 &= (F(20) - 2) \times (F(8) + 9) + 0 = 0 + (9 + F(8)) \times (F(20) - 2) \\
202891 &= (F(20) - 2) \times (F(8) + 9) + 1 = 1 + (9 + F(8)) \times (F(20) - 2) \\
202892 &= (F(20) - 2) \times (F(8) + 9) + 2 = 2 + (9 + F(8)) \times (F(20) - 2) \\
202893 &= (F(20) - 2) \times (F(8) + 9) + 3 = 3 + (9 + F(8)) \times (F(20) - 2) \\
202894 &= (F(20) - 2) \times (F(8) + 9) + 4 = 4 + (9 + F(8)) \times (F(20) - 2) \\
202895 &= (F(20) - 2) \times (F(8) + 9) + 5 = 5 + (9 + F(8)) \times (F(20) - 2) \\
202896 &= (F(20) - 2) \times (F(8) + 9) + 6 = 6 + (9 + F(8)) \times (F(20) - 2) \\
202897 &= (F(20) - 2) \times (F(8) + 9) + 7 = 7 + (9 + F(8)) \times (F(20) - 2) \\
202898 &= (F(20) - 2) \times (F(8) + 9) + 8 = 8 + (9 + F(8)) \times (F(20) - 2) \\
202899 &= (F(20) - 2) \times (F(8) + 9) + 9 = 9 + (9 + F(8)) \times (F(20) - 2).
\end{aligned}$$

$$\begin{aligned}
202980 &= (F(20) + F(2)) \times (9 + F(8)) + 0 = 0 + (F(8) + 9) \times (F(20) + F(2)) \\
202981 &= (F(20) + F(2)) \times (9 + F(8)) + 1 = 1 + (F(8) + 9) \times (F(20) + F(2)) \\
202982 &= (F(20) + F(2)) \times (9 + F(8)) + 2 = 2 + (F(8) + 9) \times (F(20) + F(2)) \\
202983 &= (F(20) + F(2)) \times (9 + F(8)) + 3 = 3 + (F(8) + 9) \times (F(20) + F(2)) \\
202984 &= (F(20) + F(2)) \times (9 + F(8)) + 4 = 4 + (F(8) + 9) \times (F(20) + F(2)) \\
202985 &= (F(20) + F(2)) \times (9 + F(8)) + 5 = 5 + (F(8) + 9) \times (F(20) + F(2)) \\
202986 &= (F(20) + F(2)) \times (9 + F(8)) + 6 = 6 + (F(8) + 9) \times (F(20) + F(2)) \\
202987 &= (F(20) + F(2)) \times (9 + F(8)) + 7 = 7 + (F(8) + 9) \times (F(20) + F(2)) \\
202988 &= (F(20) + F(2)) \times (9 + F(8)) + 8 = 8 + (F(8) + 9) \times (F(20) + F(2)) \\
202989 &= (F(20) + F(2)) \times (9 + F(8)) + 9 = 9 + (F(8) + 9) \times (F(20) + F(2)).
\end{aligned}$$

$$\begin{aligned}
229780 &= (F(22) - F(9)) \times F(7) - F(8) + 0 = 0 - F(8) + F(7) \times (-F(9) + F(22)) \\
229781 &= (F(22) - F(9)) \times F(7) - F(8) + 1 = 1 - F(8) + F(7) \times (-F(9) + F(22)) \\
229782 &= (F(22) - F(9)) \times F(7) - F(8) + 2 = 2 - F(8) + F(7) \times (-F(9) + F(22)) \\
229783 &= (F(22) - F(9)) \times F(7) - F(8) + 3 = 3 - F(8) + F(7) \times (-F(9) + F(22)) \\
229784 &= (F(22) - F(9)) \times F(7) - F(8) + 4 = 4 - F(8) + F(7) \times (-F(9) + F(22)) \\
229785 &= (F(22) - F(9)) \times F(7) - F(8) + 5 = 5 - F(8) + F(7) \times (-F(9) + F(22)) \\
229786 &= (F(22) - F(9)) \times F(7) - F(8) + 6 = 6 - F(8) + F(7) \times (-F(9) + F(22)) \\
229787 &= (F(22) - F(9)) \times F(7) - F(8) + 7 = 7 - F(8) + F(7) \times (-F(9) + F(22)) \\
229788 &= (F(22) - F(9)) \times F(7) - F(8) + 8 = 8 - F(8) + F(7) \times (-F(9) + F(22)) \\
229789 &= (F(22) - F(9)) \times F(7) - F(8) + 9 = 9 - F(8) + F(7) \times (-F(9) + F(22)).
\end{aligned}$$

$$\begin{aligned}
231850 &= (2 + F(3 \times 1 \times 8)) \times 5 + 0 = 0 + 5 \times (F(8 \times 1 \times 3) + 2) \\
231851 &= (2 + F(3 \times 1 \times 8)) \times 5 + 1 = 1 + 5 \times (F(8 \times 1 \times 3) + 2) \\
231852 &= (2 + F(3 \times 1 \times 8)) \times 5 + 2 = 2 + 5 \times (F(8 \times 1 \times 3) + 2) \\
231853 &= (2 + F(3 \times 1 \times 8)) \times 5 + 3 = 3 + 5 \times (F(8 \times 1 \times 3) + 2) \\
231854 &= (2 + F(3 \times 1 \times 8)) \times 5 + 4 = 4 + 5 \times (F(8 \times 1 \times 3) + 2) \\
231855 &= (2 + F(3 \times 1 \times 8)) \times 5 + 5 = 5 + 5 \times (F(8 \times 1 \times 3) + 2) \\
231856 &= (2 + F(3 \times 1 \times 8)) \times 5 + 6 = 6 + 5 \times (F(8 \times 1 \times 3) + 2) \\
231857 &= (2 + F(3 \times 1 \times 8)) \times 5 + 7 = 7 + 5 \times (F(8 \times 1 \times 3) + 2) \\
231858 &= (2 + F(3 \times 1 \times 8)) \times 5 + 8 = 8 + 5 \times (F(8 \times 1 \times 3) + 2) \\
231859 &= (2 + F(3 \times 1 \times 8)) \times 5 + 9 = 9 + 5 \times (F(8 \times 1 \times 3) + 2).
\end{aligned}$$

$$\begin{aligned}
243540 &= (2 + 4)^{F(3)} \times F(5 \times 4) + 0 = 0 + F(4 \times 5) \times (34 + 2) \\
243541 &= (2 + 4)^{F(3)} \times F(5 \times 4) + 1 = 1 + F(4 \times 5) \times (34 + 2) \\
243542 &= (2 + 4)^{F(3)} \times F(5 \times 4) + 2 = 2 + F(4 \times 5) \times (34 + 2) \\
243543 &= (2 + 4)^{F(3)} \times F(5 \times 4) + 3 = 3 + F(4 \times 5) \times (34 + 2) \\
243544 &= (2 + 4)^{F(3)} \times F(5 \times 4) + 4 = 4 + F(4 \times 5) \times (34 + 2) \\
243545 &= (2 + 4)^{F(3)} \times F(5 \times 4) + 5 = 5 + F(4 \times 5) \times (34 + 2) \\
243546 &= (2 + 4)^{F(3)} \times F(5 \times 4) + 6 = 6 + F(4 \times 5) \times (34 + 2) \\
243547 &= (2 + 4)^{F(3)} \times F(5 \times 4) + 7 = 7 + F(4 \times 5) \times (34 + 2) \\
243548 &= (2 + 4)^{F(3)} \times F(5 \times 4) + 8 = 8 + F(4 \times 5) \times (34 + 2) \\
243549 &= (2 + 4)^{F(3)} \times F(5 \times 4) + 9 = 9 + F(4 \times 5) \times (34 + 2).
\end{aligned}$$

$$\begin{aligned}
269280 &= F(2 \times 6) \times F(9) \times F(2 + 8) + 0 = 0 + F(8 + 2) \times F(9) \times F(6 \times 2) \\
269281 &= F(2 \times 6) \times F(9) \times F(2 + 8) + 1 = 1 + F(8 + 2) \times F(9) \times F(6 \times 2) \\
269282 &= F(2 \times 6) \times F(9) \times F(2 + 8) + 2 = 2 + F(8 + 2) \times F(9) \times F(6 \times 2) \\
269283 &= F(2 \times 6) \times F(9) \times F(2 + 8) + 3 = 3 + F(8 + 2) \times F(9) \times F(6 \times 2) \\
269284 &= F(2 \times 6) \times F(9) \times F(2 + 8) + 4 = 4 + F(8 + 2) \times F(9) \times F(6 \times 2) \\
269285 &= F(2 \times 6) \times F(9) \times F(2 + 8) + 5 = 5 + F(8 + 2) \times F(9) \times F(6 \times 2) \\
269286 &= F(2 \times 6) \times F(9) \times F(2 + 8) + 6 = 6 + F(8 + 2) \times F(9) \times F(6 \times 2) \\
269287 &= F(2 \times 6) \times F(9) \times F(2 + 8) + 7 = 7 + F(8 + 2) \times F(9) \times F(6 \times 2) \\
269288 &= F(2 \times 6) \times F(9) \times F(2 + 8) + 8 = 8 + F(8 + 2) \times F(9) \times F(6 \times 2) \\
269289 &= F(2 \times 6) \times F(9) \times F(2 + 8) + 9 = 9 + F(8 + 2) \times F(9) \times F(6 \times 2).
\end{aligned}$$

$$\begin{aligned}
286570 &= (2 + 8) \times F(6 \times 5 - 7) + 0 = 0 + F(-7 + 5 \times 6) \times (8 + 2) \\
286571 &= (2 + 8) \times F(6 \times 5 - 7) + 1 = 1 + F(-7 + 5 \times 6) \times (8 + 2) \\
286572 &= (2 + 8) \times F(6 \times 5 - 7) + 2 = 2 + F(-7 + 5 \times 6) \times (8 + 2) \\
286573 &= (2 + 8) \times F(6 \times 5 - 7) + 3 = 3 + F(-7 + 5 \times 6) \times (8 + 2) \\
286574 &= (2 + 8) \times F(6 \times 5 - 7) + 4 = 4 + F(-7 + 5 \times 6) \times (8 + 2) \\
286575 &= (2 + 8) \times F(6 \times 5 - 7) + 5 = 5 + F(-7 + 5 \times 6) \times (8 + 2) \\
286576 &= (2 + 8) \times F(6 \times 5 - 7) + 6 = 6 + F(-7 + 5 \times 6) \times (8 + 2) \\
286577 &= (2 + 8) \times F(6 \times 5 - 7) + 7 = 7 + F(-7 + 5 \times 6) \times (8 + 2) \\
286578 &= (2 + 8) \times F(6 \times 5 - 7) + 8 = 8 + F(-7 + 5 \times 6) \times (8 + 2) \\
286579 &= (2 + 8) \times F(6 \times 5 - 7) + 9 = 9 + F(-7 + 5 \times 6) \times (8 + 2).
\end{aligned}$$

$$\begin{aligned}
317790 &= F((3 + 1) \times 7) + F(7) - F(9) + 0 = 0 - F(9) + F(7) + F(7 \times (1 + 3)) \\
317791 &= F((3 + 1) \times 7) + F(7) - F(9) + 1 = 1 - F(9) + F(7) + F(7 \times (1 + 3)) \\
317792 &= F((3 + 1) \times 7) + F(7) - F(9) + 2 = 2 - F(9) + F(7) + F(7 \times (1 + 3)) \\
317793 &= F((3 + 1) \times 7) + F(7) - F(9) + 3 = 3 - F(9) + F(7) + F(7 \times (1 + 3)) \\
317794 &= F((3 + 1) \times 7) + F(7) - F(9) + 4 = 4 - F(9) + F(7) + F(7 \times (1 + 3)) \\
317795 &= F((3 + 1) \times 7) + F(7) - F(9) + 5 = 5 - F(9) + F(7) + F(7 \times (1 + 3)) \\
317796 &= F((3 + 1) \times 7) + F(7) - F(9) + 6 = 6 - F(9) + F(7) + F(7 \times (1 + 3)) \\
317797 &= F((3 + 1) \times 7) + F(7) - F(9) + 7 = 7 - F(9) + F(7) + F(7 \times (1 + 3)) \\
317798 &= F((3 + 1) \times 7) + F(7) - F(9) + 8 = 8 - F(9) + F(7) + F(7 \times (1 + 3)) \\
317799 &= F((3 + 1) \times 7) + F(7) - F(9) + 9 = 9 - F(9) + F(7) + F(7 \times (1 + 3)).
\end{aligned}$$

$$\begin{aligned}
317830 &= F((3 + 1) \times 7) + F(8) - F(3) + 0 = 0 - F(3) + F(8) + F(7 \times (1 + 3)) \\
317831 &= F((3 + 1) \times 7) + F(8) - F(3) + 1 = 1 - F(3) + F(8) + F(7 \times (1 + 3)) \\
317832 &= F((3 + 1) \times 7) + F(8) - F(3) + 2 = 2 - F(3) + F(8) + F(7 \times (1 + 3)) \\
317833 &= F((3 + 1) \times 7) + F(8) - F(3) + 3 = 3 - F(3) + F(8) + F(7 \times (1 + 3)) \\
317834 &= F((3 + 1) \times 7) + F(8) - F(3) + 4 = 4 - F(3) + F(8) + F(7 \times (1 + 3)) \\
317835 &= F((3 + 1) \times 7) + F(8) - F(3) + 5 = 5 - F(3) + F(8) + F(7 \times (1 + 3)) \\
317836 &= F((3 + 1) \times 7) + F(8) - F(3) + 6 = 6 - F(3) + F(8) + F(7 \times (1 + 3)) \\
317837 &= F((3 + 1) \times 7) + F(8) - F(3) + 7 = 7 - F(3) + F(8) + F(7 \times (1 + 3)) \\
317838 &= F((3 + 1) \times 7) + F(8) - F(3) + 8 = 8 - F(3) + F(8) + F(7 \times (1 + 3)) \\
317839 &= F((3 + 1) \times 7) + F(8) - F(3) + 9 = 9 - F(3) + F(8) + F(7 \times (1 + 3)).
\end{aligned}$$

$$\begin{aligned}
368360 &= -F(3 \times 6) + F(8 \times 3) \times F(6) + 0 = 0 + F(6) \times F(3 \times 8) - F(6 \times 3) \\
368361 &= -F(3 \times 6) + F(8 \times 3) \times F(6) + 1 = 1 + F(6) \times F(3 \times 8) - F(6 \times 3) \\
368362 &= -F(3 \times 6) + F(8 \times 3) \times F(6) + 2 = 2 + F(6) \times F(3 \times 8) - F(6 \times 3) \\
368363 &= -F(3 \times 6) + F(8 \times 3) \times F(6) + 3 = 3 + F(6) \times F(3 \times 8) - F(6 \times 3) \\
368364 &= -F(3 \times 6) + F(8 \times 3) \times F(6) + 4 = 4 + F(6) \times F(3 \times 8) - F(6 \times 3) \\
368365 &= -F(3 \times 6) + F(8 \times 3) \times F(6) + 5 = 5 + F(6) \times F(3 \times 8) - F(6 \times 3) \\
368366 &= -F(3 \times 6) + F(8 \times 3) \times F(6) + 6 = 6 + F(6) \times F(3 \times 8) - F(6 \times 3) \\
368367 &= -F(3 \times 6) + F(8 \times 3) \times F(6) + 7 = 7 + F(6) \times F(3 \times 8) - F(6 \times 3) \\
368368 &= -F(3 \times 6) + F(8 \times 3) \times F(6) + 8 = 8 + F(6) \times F(3 \times 8) - F(6 \times 3) \\
368369 &= -F(3 \times 6) + F(8 \times 3) \times F(6) + 9 = 9 + F(6) \times F(3 \times 8) - F(6 \times 3).
\end{aligned}$$

$$\begin{aligned}
372020 &= F(3 + 7) \times (F(20) - F(2)) + 0 = 0 + (F(20) - F(2)) \times F(7 + 3) \\
372021 &= F(3 + 7) \times (F(20) - F(2)) + 1 = 1 + (F(20) - F(2)) \times F(7 + 3) \\
372022 &= F(3 + 7) \times (F(20) - F(2)) + 2 = 2 + (F(20) - F(2)) \times F(7 + 3) \\
372023 &= F(3 + 7) \times (F(20) - F(2)) + 3 = 3 + (F(20) - F(2)) \times F(7 + 3) \\
372024 &= F(3 + 7) \times (F(20) - F(2)) + 4 = 4 + (F(20) - F(2)) \times F(7 + 3) \\
372025 &= F(3 + 7) \times (F(20) - F(2)) + 5 = 5 + (F(20) - F(2)) \times F(7 + 3) \\
372026 &= F(3 + 7) \times (F(20) - F(2)) + 6 = 6 + (F(20) - F(2)) \times F(7 + 3) \\
372027 &= F(3 + 7) \times (F(20) - F(2)) + 7 = 7 + (F(20) - F(2)) \times F(7 + 3) \\
372028 &= F(3 + 7) \times (F(20) - F(2)) + 8 = 8 + (F(20) - F(2)) \times F(7 + 3) \\
372029 &= F(3 + 7) \times (F(20) - F(2)) + 9 = 9 + (F(20) - F(2)) \times F(7 + 3).
\end{aligned}$$

$$\begin{aligned}
392780 &= F(3 \times 9) \times 2 - 7 \times 8 + 0 = 0 - 8 \times 7 + 2 \times F(9 \times 3) \\
392781 &= F(3 \times 9) \times 2 - 7 \times 8 + 1 = 1 - 8 \times 7 + 2 \times F(9 \times 3) \\
392782 &= F(3 \times 9) \times 2 - 7 \times 8 + 2 = 2 - 8 \times 7 + 2 \times F(9 \times 3) \\
392783 &= F(3 \times 9) \times 2 - 7 \times 8 + 3 = 3 - 8 \times 7 + 2 \times F(9 \times 3) \\
392784 &= F(3 \times 9) \times 2 - 7 \times 8 + 4 = 4 - 8 \times 7 + 2 \times F(9 \times 3) \\
392785 &= F(3 \times 9) \times 2 - 7 \times 8 + 5 = 5 - 8 \times 7 + 2 \times F(9 \times 3) \\
392786 &= F(3 \times 9) \times 2 - 7 \times 8 + 6 = 6 - 8 \times 7 + 2 \times F(9 \times 3) \\
392787 &= F(3 \times 9) \times 2 - 7 \times 8 + 7 = 7 - 8 \times 7 + 2 \times F(9 \times 3) \\
392788 &= F(3 \times 9) \times 2 - 7 \times 8 + 8 = 8 - 8 \times 7 + 2 \times F(9 \times 3) \\
392789 &= F(3 \times 9) \times 2 - 7 \times 8 + 9 = 9 - 8 \times 7 + 2 \times F(9 \times 3).
\end{aligned}$$

$$\begin{aligned}
392820 &= F(3 \times 9) \times 2 - 8 \times 2 + 0 = 0 - 2 \times 8 + 2 \times F(9 \times 3) \\
392821 &= F(3 \times 9) \times 2 - 8 \times 2 + 1 = 1 - 2 \times 8 + 2 \times F(9 \times 3) \\
392822 &= F(3 \times 9) \times 2 - 8 \times 2 + 2 = 2 - 2 \times 8 + 2 \times F(9 \times 3) \\
392823 &= F(3 \times 9) \times 2 - 8 \times 2 + 3 = 3 - 2 \times 8 + 2 \times F(9 \times 3) \\
392824 &= F(3 \times 9) \times 2 - 8 \times 2 + 4 = 4 - 2 \times 8 + 2 \times F(9 \times 3) \\
392825 &= F(3 \times 9) \times 2 - 8 \times 2 + 5 = 5 - 2 \times 8 + 2 \times F(9 \times 3) \\
392826 &= F(3 \times 9) \times 2 - 8 \times 2 + 6 = 6 - 2 \times 8 + 2 \times F(9 \times 3) \\
392827 &= F(3 \times 9) \times 2 - 8 \times 2 + 7 = 7 - 2 \times 8 + 2 \times F(9 \times 3) \\
392828 &= F(3 \times 9) \times 2 - 8 \times 2 + 8 = 8 - 2 \times 8 + 2 \times F(9 \times 3) \\
392829 &= F(3 \times 9) \times 2 - 8 \times 2 + 9 = 9 - 2 \times 8 + 2 \times F(9 \times 3).
\end{aligned}$$

$$\begin{aligned}
392830 &= F(3 \times 9) \times 2 - 8 + F(3) + 0 = 0 + F(3) - 8 + 2 \times F(9 \times 3) \\
392831 &= F(3 \times 9) \times 2 - 8 + F(3) + 1 = 1 + F(3) - 8 + 2 \times F(9 \times 3) \\
392832 &= F(3 \times 9) \times 2 - 8 + F(3) + 2 = 2 + F(3) - 8 + 2 \times F(9 \times 3) \\
392833 &= F(3 \times 9) \times 2 - 8 + F(3) + 3 = 3 + F(3) - 8 + 2 \times F(9 \times 3) \\
392834 &= F(3 \times 9) \times 2 - 8 + F(3) + 4 = 4 + F(3) - 8 + 2 \times F(9 \times 3) \\
392835 &= F(3 \times 9) \times 2 - 8 + F(3) + 5 = 5 + F(3) - 8 + 2 \times F(9 \times 3) \\
392836 &= F(3 \times 9) \times 2 - 8 + F(3) + 6 = 6 + F(3) - 8 + 2 \times F(9 \times 3) \\
392837 &= F(3 \times 9) \times 2 - 8 + F(3) + 7 = 7 + F(3) - 8 + 2 \times F(9 \times 3) \\
392838 &= F(3 \times 9) \times 2 - 8 + F(3) + 8 = 8 + F(3) - 8 + 2 \times F(9 \times 3) \\
392839 &= F(3 \times 9) \times 2 - 8 + F(3) + 9 = 9 + F(3) - 8 + 2 \times F(9 \times 3).
\end{aligned}$$

$$\begin{aligned}
392840 &= F(3 \times 9) \times 2 + 8 - 4 + 0 = 0 - 4 + 8 + 2 \times F(9 \times 3) \\
392841 &= F(3 \times 9) \times 2 + 8 - 4 + 1 = 1 - 4 + 8 + 2 \times F(9 \times 3) \\
392842 &= F(3 \times 9) \times 2 + 8 - 4 + 2 = 2 - 4 + 8 + 2 \times F(9 \times 3) \\
392843 &= F(3 \times 9) \times 2 + 8 - 4 + 3 = 3 - 4 + 8 + 2 \times F(9 \times 3) \\
392844 &= F(3 \times 9) \times 2 + 8 - 4 + 4 = 4 - 4 + 8 + 2 \times F(9 \times 3) \\
392845 &= F(3 \times 9) \times 2 + 8 - 4 + 5 = 5 - 4 + 8 + 2 \times F(9 \times 3) \\
392846 &= F(3 \times 9) \times 2 + 8 - 4 + 6 = 6 - 4 + 8 + 2 \times F(9 \times 3) \\
392847 &= F(3 \times 9) \times 2 + 8 - 4 + 7 = 7 - 4 + 8 + 2 \times F(9 \times 3) \\
392848 &= F(3 \times 9) \times 2 + 8 - 4 + 8 = 8 - 4 + 8 + 2 \times F(9 \times 3) \\
392849 &= F(3 \times 9) \times 2 + 8 - 4 + 9 = 9 - 4 + 8 + 2 \times F(9 \times 3).
\end{aligned}$$

$$\begin{aligned}
392870 &= F(3 \times 9) \times 2 + F(8) + F(7) + 0 = 0 + F(7) + F(8) + 2 \times F(9 \times 3) \\
392871 &= F(3 \times 9) \times 2 + F(8) + F(7) + 1 = 1 + F(7) + F(8) + 2 \times F(9 \times 3) \\
392872 &= F(3 \times 9) \times 2 + F(8) + F(7) + 2 = 2 + F(7) + F(8) + 2 \times F(9 \times 3) \\
392873 &= F(3 \times 9) \times 2 + F(8) + F(7) + 3 = 3 + F(7) + F(8) + 2 \times F(9 \times 3) \\
392874 &= F(3 \times 9) \times 2 + F(8) + F(7) + 4 = 4 + F(7) + F(8) + 2 \times F(9 \times 3) \\
392875 &= F(3 \times 9) \times 2 + F(8) + F(7) + 5 = 5 + F(7) + F(8) + 2 \times F(9 \times 3) \\
392876 &= F(3 \times 9) \times 2 + F(8) + F(7) + 6 = 6 + F(7) + F(8) + 2 \times F(9 \times 3) \\
392877 &= F(3 \times 9) \times 2 + F(8) + F(7) + 7 = 7 + F(7) + F(8) + 2 \times F(9 \times 3) \\
392878 &= F(3 \times 9) \times 2 + F(8) + F(7) + 8 = 8 + F(7) + F(8) + 2 \times F(9 \times 3) \\
392879 &= F(3 \times 9) \times 2 + F(8) + F(7) + 9 = 9 + F(7) + F(8) + 2 \times F(9 \times 3).
\end{aligned}$$

$$\begin{aligned}
393590 &= F(3) \times (F(9 \times 3) + F(5 + 9)) + 0 = 0 + (F(9 + 5) + F(3 \times 9)) \times F(3) \\
393591 &= F(3) \times (F(9 \times 3) + F(5 + 9)) + 1 = 1 + (F(9 + 5) + F(3 \times 9)) \times F(3) \\
393592 &= F(3) \times (F(9 \times 3) + F(5 + 9)) + 2 = 2 + (F(9 + 5) + F(3 \times 9)) \times F(3) \\
393593 &= F(3) \times (F(9 \times 3) + F(5 + 9)) + 3 = 3 + (F(9 + 5) + F(3 \times 9)) \times F(3) \\
393594 &= F(3) \times (F(9 \times 3) + F(5 + 9)) + 4 = 4 + (F(9 + 5) + F(3 \times 9)) \times F(3) \\
393595 &= F(3) \times (F(9 \times 3) + F(5 + 9)) + 5 = 5 + (F(9 + 5) + F(3 \times 9)) \times F(3) \\
393596 &= F(3) \times (F(9 \times 3) + F(5 + 9)) + 6 = 6 + (F(9 + 5) + F(3 \times 9)) \times F(3) \\
393597 &= F(3) \times (F(9 \times 3) + F(5 + 9)) + 7 = 7 + (F(9 + 5) + F(3 \times 9)) \times F(3) \\
393598 &= F(3) \times (F(9 \times 3) + F(5 + 9)) + 8 = 8 + (F(9 + 5) + F(3 \times 9)) \times F(3) \\
393599 &= F(3) \times (F(9 \times 3) + F(5 + 9)) + 9 = 9 + (F(9 + 5) + F(3 \times 9)) \times F(3).
\end{aligned}$$

$$\begin{aligned}
437960 &= (F(4) + F(3 \times 7)) \times (F(9) + 6) + 0 = 0 + (6 + F(9)) \times (F(7 \times 3) + F(4)) \\
437961 &= (F(4) + F(3 \times 7)) \times (F(9) + 6) + 1 = 1 + (6 + F(9)) \times (F(7 \times 3) + F(4)) \\
437962 &= (F(4) + F(3 \times 7)) \times (F(9) + 6) + 2 = 2 + (6 + F(9)) \times (F(7 \times 3) + F(4)) \\
437963 &= (F(4) + F(3 \times 7)) \times (F(9) + 6) + 3 = 3 + (6 + F(9)) \times (F(7 \times 3) + F(4)) \\
437964 &= (F(4) + F(3 \times 7)) \times (F(9) + 6) + 4 = 4 + (6 + F(9)) \times (F(7 \times 3) + F(4)) \\
437965 &= (F(4) + F(3 \times 7)) \times (F(9) + 6) + 5 = 5 + (6 + F(9)) \times (F(7 \times 3) + F(4)) \\
437966 &= (F(4) + F(3 \times 7)) \times (F(9) + 6) + 6 = 6 + (6 + F(9)) \times (F(7 \times 3) + F(4)) \\
437967 &= (F(4) + F(3 \times 7)) \times (F(9) + 6) + 7 = 7 + (6 + F(9)) \times (F(7 \times 3) + F(4)) \\
437968 &= (F(4) + F(3 \times 7)) \times (F(9) + 6) + 8 = 8 + (6 + F(9)) \times (F(7 \times 3) + F(4)) \\
437969 &= (F(4) + F(3 \times 7)) \times (F(9) + 6) + 9 = 9 + (6 + F(9)) \times (F(7 \times 3) + F(4)).
\end{aligned}$$

$$\begin{aligned}
444690 &= (F(4) \times F(4))^{F(4)} \times F(6 + 9) + 0 = 0 + F(9 + 6) \times (F(4) \times F(4))^{F(4)} \\
444691 &= (F(4) \times F(4))^{F(4)} \times F(6 + 9) + 1 = 1 + F(9 + 6) \times (F(4) \times F(4))^{F(4)} \\
444692 &= (F(4) \times F(4))^{F(4)} \times F(6 + 9) + 2 = 2 + F(9 + 6) \times (F(4) \times F(4))^{F(4)} \\
444693 &= (F(4) \times F(4))^{F(4)} \times F(6 + 9) + 3 = 3 + F(9 + 6) \times (F(4) \times F(4))^{F(4)} \\
444694 &= (F(4) \times F(4))^{F(4)} \times F(6 + 9) + 4 = 4 + F(9 + 6) \times (F(4) \times F(4))^{F(4)} \\
444695 &= (F(4) \times F(4))^{F(4)} \times F(6 + 9) + 5 = 5 + F(9 + 6) \times (F(4) \times F(4))^{F(4)} \\
444696 &= (F(4) \times F(4))^{F(4)} \times F(6 + 9) + 6 = 6 + F(9 + 6) \times (F(4) \times F(4))^{F(4)} \\
444697 &= (F(4) \times F(4))^{F(4)} \times F(6 + 9) + 7 = 7 + F(9 + 6) \times (F(4) \times F(4))^{F(4)} \\
444698 &= (F(4) \times F(4))^{F(4)} \times F(6 + 9) + 8 = 8 + F(9 + 6) \times (F(4) \times F(4))^{F(4)} \\
444699 &= (F(4) \times F(4))^{F(4)} \times F(6 + 9) + 9 = 9 + F(9 + 6) \times (F(4) \times F(4))^{F(4)}.
\end{aligned}$$

$$\begin{aligned}
463650 &= (F(4 \times 6) \times F(3) - 6) \times 5 + 0 = 0 + 5 \times (-6 + F(3) \times F(6 \times 4)) \\
463651 &= (F(4 \times 6) \times F(3) - 6) \times 5 + 1 = 1 + 5 \times (-6 + F(3) \times F(6 \times 4)) \\
463652 &= (F(4 \times 6) \times F(3) - 6) \times 5 + 2 = 2 + 5 \times (-6 + F(3) \times F(6 \times 4)) \\
463653 &= (F(4 \times 6) \times F(3) - 6) \times 5 + 3 = 3 + 5 \times (-6 + F(3) \times F(6 \times 4)) \\
463654 &= (F(4 \times 6) \times F(3) - 6) \times 5 + 4 = 4 + 5 \times (-6 + F(3) \times F(6 \times 4)) \\
463655 &= (F(4 \times 6) \times F(3) - 6) \times 5 + 5 = 5 + 5 \times (-6 + F(3) \times F(6 \times 4)) \\
463656 &= (F(4 \times 6) \times F(3) - 6) \times 5 + 6 = 6 + 5 \times (-6 + F(3) \times F(6 \times 4)) \\
463657 &= (F(4 \times 6) \times F(3) - 6) \times 5 + 7 = 7 + 5 \times (-6 + F(3) \times F(6 \times 4)) \\
463658 &= (F(4 \times 6) \times F(3) - 6) \times 5 + 8 = 8 + 5 \times (-6 + F(3) \times F(6 \times 4)) \\
463659 &= (F(4 \times 6) \times F(3) - 6) \times 5 + 9 = 9 + 5 \times (-6 + F(3) \times F(6 \times 4)).
\end{aligned}$$

$$\begin{aligned}
463680 &= F(4 \times 6) \times (3 \times 6 - 8) + 0 = 0 + (8 + 6/3) \times F(6 \times 4) \\
463681 &= F(4 \times 6) \times (3 \times 6 - 8) + 1 = 1 + (8 + 6/3) \times F(6 \times 4) \\
463682 &= F(4 \times 6) \times (3 \times 6 - 8) + 2 = 2 + (8 + 6/3) \times F(6 \times 4) \\
463683 &= F(4 \times 6) \times (3 \times 6 - 8) + 3 = 3 + (8 + 6/3) \times F(6 \times 4) \\
463684 &= F(4 \times 6) \times (3 \times 6 - 8) + 4 = 4 + (8 + 6/3) \times F(6 \times 4) \\
463685 &= F(4 \times 6) \times (3 \times 6 - 8) + 5 = 5 + (8 + 6/3) \times F(6 \times 4) \\
463686 &= F(4 \times 6) \times (3 \times 6 - 8) + 6 = 6 + (8 + 6/3) \times F(6 \times 4) \\
463687 &= F(4 \times 6) \times (3 \times 6 - 8) + 7 = 7 + (8 + 6/3) \times F(6 \times 4) \\
463688 &= F(4 \times 6) \times (3 \times 6 - 8) + 8 = 8 + (8 + 6/3) \times F(6 \times 4) \\
463689 &= F(4 \times 6) \times (3 \times 6 - 8) + 9 = 9 + (8 + 6/3) \times F(6 \times 4).
\end{aligned}$$

$$\begin{aligned}
466530 &= (-F(4) + 6^6) \times 5 \times F(3) + 0 = 0 + F(3) \times 5 \times (6^6 - F(4)) \\
466531 &= (-F(4) + 6^6) \times 5 \times F(3) + 1 = 1 + F(3) \times 5 \times (6^6 - F(4)) \\
466532 &= (-F(4) + 6^6) \times 5 \times F(3) + 2 = 2 + F(3) \times 5 \times (6^6 - F(4)) \\
466533 &= (-F(4) + 6^6) \times 5 \times F(3) + 3 = 3 + F(3) \times 5 \times (6^6 - F(4)) \\
466534 &= (-F(4) + 6^6) \times 5 \times F(3) + 4 = 4 + F(3) \times 5 \times (6^6 - F(4)) \\
466535 &= (-F(4) + 6^6) \times 5 \times F(3) + 5 = 5 + F(3) \times 5 \times (6^6 - F(4)) \\
466536 &= (-F(4) + 6^6) \times 5 \times F(3) + 6 = 6 + F(3) \times 5 \times (6^6 - F(4)) \\
466537 &= (-F(4) + 6^6) \times 5 \times F(3) + 7 = 7 + F(3) \times 5 \times (6^6 - F(4)) \\
466538 &= (-F(4) + 6^6) \times 5 \times F(3) + 8 = 8 + F(3) \times 5 \times (6^6 - F(4)) \\
466539 &= (-F(4) + 6^6) \times 5 \times F(3) + 9 = 9 + F(3) \times 5 \times (6^6 - F(4)).
\end{aligned}$$

$$\begin{aligned}
525170 &= -5 + F(25) \times 1 \times 7 + 0 = 0 + 7 \times 1 \times F(5^2) - 5 \\
525171 &= -5 + F(25) \times 1 \times 7 + 1 = 1 + 7 \times 1 \times F(5^2) - 5 \\
525172 &= -5 + F(25) \times 1 \times 7 + 2 = 2 + 7 \times 1 \times F(5^2) - 5 \\
525173 &= -5 + F(25) \times 1 \times 7 + 3 = 3 + 7 \times 1 \times F(5^2) - 5 \\
525174 &= -5 + F(25) \times 1 \times 7 + 4 = 4 + 7 \times 1 \times F(5^2) - 5 \\
525175 &= -5 + F(25) \times 1 \times 7 + 5 = 5 + 7 \times 1 \times F(5^2) - 5 \\
525176 &= -5 + F(25) \times 1 \times 7 + 6 = 6 + 7 \times 1 \times F(5^2) - 5 \\
525177 &= -5 + F(25) \times 1 \times 7 + 7 = 7 + 7 \times 1 \times F(5^2) - 5 \\
525178 &= -5 + F(25) \times 1 \times 7 + 8 = 8 + 7 \times 1 \times F(5^2) - 5 \\
525179 &= -5 + F(25) \times 1 \times 7 + 9 = 9 + 7 \times 1 \times F(5^2) - 5.
\end{aligned}$$

$$\begin{aligned}
525180 &= 5 + F(25) \times (-1 + 8) + 0 = 0 + (8 - 1) \times F(5^2) + 5 \\
525181 &= 5 + F(25) \times (-1 + 8) + 1 = 1 + (8 - 1) \times F(5^2) + 5 \\
525182 &= 5 + F(25) \times (-1 + 8) + 2 = 2 + (8 - 1) \times F(5^2) + 5 \\
525183 &= 5 + F(25) \times (-1 + 8) + 3 = 3 + (8 - 1) \times F(5^2) + 5 \\
525184 &= 5 + F(25) \times (-1 + 8) + 4 = 4 + (8 - 1) \times F(5^2) + 5 \\
525185 &= 5 + F(25) \times (-1 + 8) + 5 = 5 + (8 - 1) \times F(5^2) + 5 \\
525186 &= 5 + F(25) \times (-1 + 8) + 6 = 6 + (8 - 1) \times F(5^2) + 5 \\
525187 &= 5 + F(25) \times (-1 + 8) + 7 = 7 + (8 - 1) \times F(5^2) + 5 \\
525188 &= 5 + F(25) \times (-1 + 8) + 8 = 8 + (8 - 1) \times F(5^2) + 5 \\
525189 &= 5 + F(25) \times (-1 + 8) + 9 = 9 + (8 - 1) \times F(5^2) + 5.
\end{aligned}$$

$$\begin{aligned}
606970 &= (6^{06} + F(9)) \times F(7) + 0 = 0 + F(7) \times (F(9) + 6^{06}) \\
606971 &= (6^{06} + F(9)) \times F(7) + 1 = 1 + F(7) \times (F(9) + 6^{06}) \\
606972 &= (6^{06} + F(9)) \times F(7) + 2 = 2 + F(7) \times (F(9) + 6^{06}) \\
606973 &= (6^{06} + F(9)) \times F(7) + 3 = 3 + F(7) \times (F(9) + 6^{06}) \\
606974 &= (6^{06} + F(9)) \times F(7) + 4 = 4 + F(7) \times (F(9) + 6^{06}) \\
606975 &= (6^{06} + F(9)) \times F(7) + 5 = 5 + F(7) \times (F(9) + 6^{06}) \\
606976 &= (6^{06} + F(9)) \times F(7) + 6 = 6 + F(7) \times (F(9) + 6^{06}) \\
606977 &= (6^{06} + F(9)) \times F(7) + 7 = 7 + F(7) \times (F(9) + 6^{06}) \\
606978 &= (6^{06} + F(9)) \times F(7) + 8 = 8 + F(7) \times (F(9) + 6^{06}) \\
606979 &= (6^{06} + F(9)) \times F(7) + 9 = 9 + F(7) \times (F(9) + 6^{06}).
\end{aligned}$$

$$\begin{aligned}
689640 &= F(6) \times F(8) \times (9 + F(6)^4) + 0 = 0 + (4^6 + 9) \times F(8) \times F(6) \\
689641 &= F(6) \times F(8) \times (9 + F(6)^4) + 1 = 1 + (4^6 + 9) \times F(8) \times F(6) \\
689642 &= F(6) \times F(8) \times (9 + F(6)^4) + 2 = 2 + (4^6 + 9) \times F(8) \times F(6) \\
689643 &= F(6) \times F(8) \times (9 + F(6)^4) + 3 = 3 + (4^6 + 9) \times F(8) \times F(6) \\
689644 &= F(6) \times F(8) \times (9 + F(6)^4) + 4 = 4 + (4^6 + 9) \times F(8) \times F(6) \\
689645 &= F(6) \times F(8) \times (9 + F(6)^4) + 5 = 5 + (4^6 + 9) \times F(8) \times F(6) \\
689646 &= F(6) \times F(8) \times (9 + F(6)^4) + 6 = 6 + (4^6 + 9) \times F(8) \times F(6) \\
689647 &= F(6) \times F(8) \times (9 + F(6)^4) + 7 = 7 + (4^6 + 9) \times F(8) \times F(6) \\
689648 &= F(6) \times F(8) \times (9 + F(6)^4) + 8 = 8 + (4^6 + 9) \times F(8) \times F(6) \\
689649 &= F(6) \times F(8) \times (9 + F(6)^4) + 9 = 9 + (4^6 + 9) \times F(8) \times F(6).
\end{aligned}$$

$$\begin{aligned}
823540 &= (8 - F(2))^{F(3)+5} - F(4) + 0 = 0 - F(4) + (5 + F(3))^{-F(2)+8} \\
823541 &= (8 - F(2))^{F(3)+5} - F(4) + 1 = 1 - F(4) + (5 + F(3))^{-F(2)+8} \\
823542 &= (8 - F(2))^{F(3)+5} - F(4) + 2 = 2 - F(4) + (5 + F(3))^{-F(2)+8} \\
823543 &= (8 - F(2))^{F(3)+5} - F(4) + 3 = 3 - F(4) + (5 + F(3))^{-F(2)+8} \\
823544 &= (8 - F(2))^{F(3)+5} - F(4) + 4 = 4 - F(4) + (5 + F(3))^{-F(2)+8} \\
823545 &= (8 - F(2))^{F(3)+5} - F(4) + 5 = 5 - F(4) + (5 + F(3))^{-F(2)+8} \\
823546 &= (8 - F(2))^{F(3)+5} - F(4) + 6 = 6 - F(4) + (5 + F(3))^{-F(2)+8} \\
823547 &= (8 - F(2))^{F(3)+5} - F(4) + 7 = 7 - F(4) + (5 + F(3))^{-F(2)+8} \\
823548 &= (8 - F(2))^{F(3)+5} - F(4) + 8 = 8 - F(4) + (5 + F(3))^{-F(2)+8} \\
823549 &= (8 - F(2))^{F(3)+5} - F(4) + 9 = 9 - F(4) + (5 + F(3))^{-F(2)+8}.
\end{aligned}$$

$$\begin{aligned}
832040 &= F(8 \times 3 + 2 + 04) + 0 = 0 + F(40 \times 2 \times 3/8) \\
832041 &= F(8 \times 3 + 2 + 04) + 1 = 1 + F(40 \times 2 \times 3/8) \\
832042 &= F(8 \times 3 + 2 + 04) + 2 = 2 + F(40 \times 2 \times 3/8) \\
832043 &= F(8 \times 3 + 2 + 04) + 3 = 3 + F(40 \times 2 \times 3/8) \\
832044 &= F(8 \times 3 + 2 + 04) + 4 = 4 + F(40 \times 2 \times 3/8) \\
832045 &= F(8 \times 3 + 2 + 04) + 5 = 5 + F(40 \times 2 \times 3/8) \\
832046 &= F(8 \times 3 + 2 + 04) + 6 = 6 + F(40 \times 2 \times 3/8) \\
832047 &= F(8 \times 3 + 2 + 04) + 7 = 7 + F(40 \times 2 \times 3/8) \\
832048 &= F(8 \times 3 + 2 + 04) + 8 = 8 + F(40 \times 2 \times 3/8) \\
832049 &= F(8 \times 3 + 2 + 04) + 9 = 9 + F(40 \times 2 \times 3/8).
\end{aligned}$$

$$\begin{aligned}
834570 &= (F(8 \times 3) - F(4)) \times (5 + F(7)) + 0 = 0 + (F(7) + 5) \times (-F(4) + F(3 \times 8)) \\
834571 &= (F(8 \times 3) - F(4)) \times (5 + F(7)) + 1 = 1 + (F(7) + 5) \times (-F(4) + F(3 \times 8)) \\
834572 &= (F(8 \times 3) - F(4)) \times (5 + F(7)) + 2 = 2 + (F(7) + 5) \times (-F(4) + F(3 \times 8)) \\
834573 &= (F(8 \times 3) - F(4)) \times (5 + F(7)) + 3 = 3 + (F(7) + 5) \times (-F(4) + F(3 \times 8)) \\
834574 &= (F(8 \times 3) - F(4)) \times (5 + F(7)) + 4 = 4 + (F(7) + 5) \times (-F(4) + F(3 \times 8)) \\
834575 &= (F(8 \times 3) - F(4)) \times (5 + F(7)) + 5 = 5 + (F(7) + 5) \times (-F(4) + F(3 \times 8)) \\
834576 &= (F(8 \times 3) - F(4)) \times (5 + F(7)) + 6 = 6 + (F(7) + 5) \times (-F(4) + F(3 \times 8)) \\
834577 &= (F(8 \times 3) - F(4)) \times (5 + F(7)) + 7 = 7 + (F(7) + 5) \times (-F(4) + F(3 \times 8)) \\
834578 &= (F(8 \times 3) - F(4)) \times (5 + F(7)) + 8 = 8 + (F(7) + 5) \times (-F(4) + F(3 \times 8)) \\
834579 &= (F(8 \times 3) - F(4)) \times (5 + F(7)) + 9 = 9 + (F(7) + 5) \times (-F(4) + F(3 \times 8)).
\end{aligned}$$

$$\begin{aligned}
834660 &= (F(8 \times 3) \times F(4) + 6) \times 6 + 0 = 0 + 6 \times (6 + F(4) \times F(3 \times 8)) \\
834661 &= (F(8 \times 3) \times F(4) + 6) \times 6 + 1 = 1 + 6 \times (6 + F(4) \times F(3 \times 8)) \\
834662 &= (F(8 \times 3) \times F(4) + 6) \times 6 + 2 = 2 + 6 \times (6 + F(4) \times F(3 \times 8)) \\
834663 &= (F(8 \times 3) \times F(4) + 6) \times 6 + 3 = 3 + 6 \times (6 + F(4) \times F(3 \times 8)) \\
834664 &= (F(8 \times 3) \times F(4) + 6) \times 6 + 4 = 4 + 6 \times (6 + F(4) \times F(3 \times 8)) \\
834665 &= (F(8 \times 3) \times F(4) + 6) \times 6 + 5 = 5 + 6 \times (6 + F(4) \times F(3 \times 8)) \\
834666 &= (F(8 \times 3) \times F(4) + 6) \times 6 + 6 = 6 + 6 \times (6 + F(4) \times F(3 \times 8)) \\
834667 &= (F(8 \times 3) \times F(4) + 6) \times 6 + 7 = 7 + 6 \times (6 + F(4) \times F(3 \times 8)) \\
834668 &= (F(8 \times 3) \times F(4) + 6) \times 6 + 8 = 8 + 6 \times (6 + F(4) \times F(3 \times 8)) \\
834669 &= (F(8 \times 3) \times F(4) + 6) \times 6 + 9 = 9 + 6 \times (6 + F(4) \times F(3 \times 8)).
\end{aligned}$$

$$\begin{aligned}
922740 &= (F(9) + F(22)) \times F(7) \times 4 + 0 = 0 + 4 \times F(7) \times (F(22) + F(9)) \\
922741 &= (F(9) + F(22)) \times F(7) \times 4 + 1 = 1 + 4 \times F(7) \times (F(22) + F(9)) \\
922742 &= (F(9) + F(22)) \times F(7) \times 4 + 2 = 2 + 4 \times F(7) \times (F(22) + F(9)) \\
922743 &= (F(9) + F(22)) \times F(7) \times 4 + 3 = 3 + 4 \times F(7) \times (F(22) + F(9)) \\
922744 &= (F(9) + F(22)) \times F(7) \times 4 + 4 = 4 + 4 \times F(7) \times (F(22) + F(9)) \\
922745 &= (F(9) + F(22)) \times F(7) \times 4 + 5 = 5 + 4 \times F(7) \times (F(22) + F(9)) \\
922746 &= (F(9) + F(22)) \times F(7) \times 4 + 6 = 6 + 4 \times F(7) \times (F(22) + F(9)) \\
922747 &= (F(9) + F(22)) \times F(7) \times 4 + 7 = 7 + 4 \times F(7) \times (F(22) + F(9)) \\
922748 &= (F(9) + F(22)) \times F(7) \times 4 + 8 = 8 + 4 \times F(7) \times (F(22) + F(9)) \\
922749 &= (F(9) + F(22)) \times F(7) \times 4 + 9 = 9 + 4 \times F(7) \times (F(22) + F(9)).
\end{aligned}$$

$$\begin{aligned}
973830 &= (F(9) + 7 \times F(3 \times 8)) \times 3 + 0 = 0 + 3 \times (7 \times F(8 \times 3) + F(9)) \\
973831 &= (F(9) + 7 \times F(3 \times 8)) \times 3 + 1 = 1 + 3 \times (7 \times F(8 \times 3) + F(9)) \\
973832 &= (F(9) + 7 \times F(3 \times 8)) \times 3 + 2 = 2 + 3 \times (7 \times F(8 \times 3) + F(9)) \\
973833 &= (F(9) + 7 \times F(3 \times 8)) \times 3 + 3 = 3 + 3 \times (7 \times F(8 \times 3) + F(9)) \\
973834 &= (F(9) + 7 \times F(3 \times 8)) \times 3 + 4 = 4 + 3 \times (7 \times F(8 \times 3) + F(9)) \\
973835 &= (F(9) + 7 \times F(3 \times 8)) \times 3 + 5 = 5 + 3 \times (7 \times F(8 \times 3) + F(9)) \\
973836 &= (F(9) + 7 \times F(3 \times 8)) \times 3 + 6 = 6 + 3 \times (7 \times F(8 \times 3) + F(9)) \\
973837 &= (F(9) + 7 \times F(3 \times 8)) \times 3 + 7 = 7 + 3 \times (7 \times F(8 \times 3) + F(9)) \\
973838 &= (F(9) + 7 \times F(3 \times 8)) \times 3 + 8 = 8 + 3 \times (7 \times F(8 \times 3) + F(9)) \\
973839 &= (F(9) + 7 \times F(3 \times 8)) \times 3 + 9 = 9 + 3 \times (7 \times F(8 \times 3) + F(9)).
\end{aligned}$$

$$\begin{aligned}
974440 &= F(9) \times (F(7 + 4 \times 4) + F(4)) + 0 = 0 + (F(4) + F(4 \times 4 + 7)) \times F(9) \\
974441 &= F(9) \times (F(7 + 4 \times 4) + F(4)) + 1 = 1 + (F(4) + F(4 \times 4 + 7)) \times F(9) \\
974442 &= F(9) \times (F(7 + 4 \times 4) + F(4)) + 2 = 2 + (F(4) + F(4 \times 4 + 7)) \times F(9) \\
974443 &= F(9) \times (F(7 + 4 \times 4) + F(4)) + 3 = 3 + (F(4) + F(4 \times 4 + 7)) \times F(9) \\
974444 &= F(9) \times (F(7 + 4 \times 4) + F(4)) + 4 = 4 + (F(4) + F(4 \times 4 + 7)) \times F(9) \\
974445 &= F(9) \times (F(7 + 4 \times 4) + F(4)) + 5 = 5 + (F(4) + F(4 \times 4 + 7)) \times F(9) \\
974446 &= F(9) \times (F(7 + 4 \times 4) + F(4)) + 6 = 6 + (F(4) + F(4 \times 4 + 7)) \times F(9) \\
974447 &= F(9) \times (F(7 + 4 \times 4) + F(4)) + 7 = 7 + (F(4) + F(4 \times 4 + 7)) \times F(9) \\
974448 &= F(9) \times (F(7 + 4 \times 4) + F(4)) + 8 = 8 + (F(4) + F(4 \times 4 + 7)) \times F(9) \\
974449 &= F(9) \times (F(7 + 4 \times 4) + F(4)) + 9 = 9 + (F(4) + F(4 \times 4 + 7)) \times F(9).
\end{aligned}$$

$$\begin{aligned}
974610 &= F(9) \times 7 \times (4^6 - 1) + 0 = 0 + (-1 + F(6)^4) \times 7 \times F(9) \\
974611 &= F(9) \times 7 \times (4^6 - 1) + 1 = 1 + (-1 + F(6)^4) \times 7 \times F(9) \\
974612 &= F(9) \times 7 \times (4^6 - 1) + 2 = 2 + (-1 + F(6)^4) \times 7 \times F(9) \\
974613 &= F(9) \times 7 \times (4^6 - 1) + 3 = 3 + (-1 + F(6)^4) \times 7 \times F(9) \\
974614 &= F(9) \times 7 \times (4^6 - 1) + 4 = 4 + (-1 + F(6)^4) \times 7 \times F(9) \\
974615 &= F(9) \times 7 \times (4^6 - 1) + 5 = 5 + (-1 + F(6)^4) \times 7 \times F(9) \\
974616 &= F(9) \times 7 \times (4^6 - 1) + 6 = 6 + (-1 + F(6)^4) \times 7 \times F(9) \\
974617 &= F(9) \times 7 \times (4^6 - 1) + 7 = 7 + (-1 + F(6)^4) \times 7 \times F(9) \\
974618 &= F(9) \times 7 \times (4^6 - 1) + 8 = 8 + (-1 + F(6)^4) \times 7 \times F(9) \\
974619 &= F(9) \times 7 \times (4^6 - 1) + 9 = 9 + (-1 + F(6)^4) \times 7 \times F(9).
\end{aligned}$$

3.2 Symmetric Representations in Digit's Order

Below are examples of numbers written in digit's order:

$$\begin{aligned}
15250 &= F(15) \times 25 + 0 & 59320 &= (5 + F(9))^3 + F(2) + 0 \\
15251 &= F(15) \times 25 + 1 & 59321 &= (5 + F(9))^3 + F(2) + 1 \\
15252 &= F(15) \times 25 + 2 & 59322 &= (5 + F(9))^3 + F(2) + 2 \\
15253 &= F(15) \times 25 + 3 & 59323 &= (5 + F(9))^3 + F(2) + 3 \\
15254 &= F(15) \times 25 + 4 & 59324 &= (5 + F(9))^3 + F(2) + 4 \\
15255 &= F(15) \times 25 + 5 & 59325 &= (5 + F(9))^3 + F(2) + 5 \\
15256 &= F(15) \times 25 + 6 & 59326 &= (5 + F(9))^3 + F(2) + 6 \\
15257 &= F(15) \times 25 + 7 & 59327 &= (5 + F(9))^3 + F(2) + 7 \\
15258 &= F(15) \times 25 + 8 & 59328 &= (5 + F(9))^3 + F(2) + 8 \\
15259 &= F(15) \times 25 + 9. & 59329 &= (5 + F(9))^3 + F(2) + 9.
\end{aligned}$$

$$\begin{aligned}
32760 &= F(3)^{2+F(7)} - F(6) + 0 & 109370 &= 10 \times (-9 + F(3 \times 7)) + 0 \\
32761 &= F(3)^{2+F(7)} - F(6) + 1 & 109371 &= 10 \times (-9 + F(3 \times 7)) + 1 \\
32762 &= F(3)^{2+F(7)} - F(6) + 2 & 109372 &= 10 \times (-9 + F(3 \times 7)) + 2 \\
32763 &= F(3)^{2+F(7)} - F(6) + 3 & 109373 &= 10 \times (-9 + F(3 \times 7)) + 3 \\
32764 &= F(3)^{2+F(7)} - F(6) + 4 & 109374 &= 10 \times (-9 + F(3 \times 7)) + 4 \\
32765 &= F(3)^{2+F(7)} - F(6) + 5 & 109375 &= 10 \times (-9 + F(3 \times 7)) + 5 \\
32766 &= F(3)^{2+F(7)} - F(6) + 6 & 109376 &= 10 \times (-9 + F(3 \times 7)) + 6 \\
32767 &= F(3)^{2+F(7)} - F(6) + 7 & 109377 &= 10 \times (-9 + F(3 \times 7)) + 7 \\
32768 &= F(3)^{2+F(7)} - F(6) + 8 & 109378 &= 10 \times (-9 + F(3 \times 7)) + 8 \\
32769 &= F(3)^{2+F(7)} - F(6) + 9. & 109379 &= 10 \times (-9 + F(3 \times 7)) + 9.
\end{aligned}$$

$$142130 = F(14)^2 + 1^3 + 0$$

$$142131 = F(14)^2 + 1^3 + 1$$

$$142132 = F(14)^2 + 1^3 + 2$$

$$142133 = F(14)^2 + 1^3 + 3$$

$$142134 = F(14)^2 + 1^3 + 4$$

$$142135 = F(14)^2 + 1^3 + 5$$

$$142136 = F(14)^2 + 1^3 + 6$$

$$142137 = F(14)^2 + 1^3 + 7$$

$$142138 = F(14)^2 + 1^3 + 8$$

$$142139 = F(14)^2 + 1^3 + 9.$$

$$168920 = -1 + (F(6 + 8) + F(9))^2 + 0$$

$$168921 = -1 + (F(6 + 8) + F(9))^2 + 1$$

$$168922 = -1 + (F(6 + 8) + F(9))^2 + 2$$

$$168923 = -1 + (F(6 + 8) + F(9))^2 + 3$$

$$168924 = -1 + (F(6 + 8) + F(9))^2 + 4$$

$$168925 = -1 + (F(6 + 8) + F(9))^2 + 5$$

$$168926 = -1 + (F(6 + 8) + F(9))^2 + 6$$

$$168927 = -1 + (F(6 + 8) + F(9))^2 + 7$$

$$168928 = -1 + (F(6 + 8) + F(9))^2 + 8$$

$$168929 = -1 + (F(6 + 8) + F(9))^2 + 9.$$

$$152500 = F(15) \times 250 + 0$$

$$152501 = F(15) \times 250 + 1$$

$$152502 = F(15) \times 250 + 2$$

$$152503 = F(15) \times 250 + 3$$

$$152504 = F(15) \times 250 + 4$$

$$152505 = F(15) \times 250 + 5$$

$$152506 = F(15) \times 250 + 6$$

$$152507 = F(15) \times 250 + 7$$

$$152508 = F(15) \times 250 + 8$$

$$152509 = F(15) \times 250 + 9.$$

$$175630 = 1 + F(7) + 56^3 + 0$$

$$175631 = 1 + F(7) + 56^3 + 1$$

$$175632 = 1 + F(7) + 56^3 + 2$$

$$175633 = 1 + F(7) + 56^3 + 3$$

$$175634 = 1 + F(7) + 56^3 + 4$$

$$175635 = 1 + F(7) + 56^3 + 5$$

$$175636 = 1 + F(7) + 56^3 + 6$$

$$175637 = 1 + F(7) + 56^3 + 7$$

$$175638 = 1 + F(7) + 56^3 + 8$$

$$175639 = 1 + F(7) + 56^3 + 9.$$

$$156260 = (1 + 5^6) \times (2 + F(6)) + 0$$

$$156261 = (1 + 5^6) \times (2 + F(6)) + 1$$

$$156262 = (1 + 5^6) \times (2 + F(6)) + 2$$

$$156263 = (1 + 5^6) \times (2 + F(6)) + 3$$

$$156264 = (1 + 5^6) \times (2 + F(6)) + 4$$

$$156265 = (1 + 5^6) \times (2 + F(6)) + 5$$

$$156266 = (1 + 5^6) \times (2 + F(6)) + 6$$

$$156267 = (1 + 5^6) \times (2 + F(6)) + 7$$

$$156268 = (1 + 5^6) \times (2 + F(6)) + 8$$

$$156269 = (1 + 5^6) \times (2 + F(6)) + 9.$$

$$194470 = F(-1 + 9)^4 - 4 - 7 + 0$$

$$194471 = F(-1 + 9)^4 - 4 - 7 + 1$$

$$194472 = F(-1 + 9)^4 - 4 - 7 + 2$$

$$194473 = F(-1 + 9)^4 - 4 - 7 + 3$$

$$194474 = F(-1 + 9)^4 - 4 - 7 + 4$$

$$194475 = F(-1 + 9)^4 - 4 - 7 + 5$$

$$194476 = F(-1 + 9)^4 - 4 - 7 + 6$$

$$194477 = F(-1 + 9)^4 - 4 - 7 + 7$$

$$194478 = F(-1 + 9)^4 - 4 - 7 + 8$$

$$194479 = F(-1 + 9)^4 - 4 - 7 + 9.$$

$$163850 = (-1 + 6) \times (F(3) + 8^5) + 0$$

$$163851 = (-1 + 6) \times (F(3) + 8^5) + 1$$

$$163852 = (-1 + 6) \times (F(3) + 8^5) + 2$$

$$163853 = (-1 + 6) \times (F(3) + 8^5) + 3$$

$$163854 = (-1 + 6) \times (F(3) + 8^5) + 4$$

$$163855 = (-1 + 6) \times (F(3) + 8^5) + 5$$

$$163856 = (-1 + 6) \times (F(3) + 8^5) + 6$$

$$163857 = (-1 + 6) \times (F(3) + 8^5) + 7$$

$$163858 = (-1 + 6) \times (F(3) + 8^5) + 8$$

$$163859 = (-1 + 6) \times (F(3) + 8^5) + 9.$$

$$196560 = (1 - 9 + F(6)^5) \times 6 + 0$$

$$196561 = (1 - 9 + F(6)^5) \times 6 + 1$$

$$196562 = (1 - 9 + F(6)^5) \times 6 + 2$$

$$196563 = (1 - 9 + F(6)^5) \times 6 + 3$$

$$196564 = (1 - 9 + F(6)^5) \times 6 + 4$$

$$196565 = (1 - 9 + F(6)^5) \times 6 + 5$$

$$196566 = (1 - 9 + F(6)^5) \times 6 + 6$$

$$196567 = (1 - 9 + F(6)^5) \times 6 + 7$$

$$196568 = (1 - 9 + F(6)^5) \times 6 + 8$$

$$196569 = (1 - 9 + F(6)^5) \times 6 + 9.$$

$$\begin{aligned}
196830 &= (1 + 9) \times (6 + F(8))^3 + 0 \\
196831 &= (1 + 9) \times (6 + F(8))^3 + 1 \\
196832 &= (1 + 9) \times (6 + F(8))^3 + 2 \\
196833 &= (1 + 9) \times (6 + F(8))^3 + 3 \\
196834 &= (1 + 9) \times (6 + F(8))^3 + 4 \\
196835 &= (1 + 9) \times (6 + F(8))^3 + 5 \\
196836 &= (1 + 9) \times (6 + F(8))^3 + 6 \\
196837 &= (1 + 9) \times (6 + F(8))^3 + 7 \\
196838 &= (1 + 9) \times (6 + F(8))^3 + 8 \\
196839 &= (1 + 9) \times (6 + F(8))^3 + 9.
\end{aligned}$$

$$\begin{aligned}
202950 &= F(20) \times (F(2) + F(9)) - 5 + 0 \\
202951 &= F(20) \times (F(2) + F(9)) - 5 + 1 \\
202952 &= F(20) \times (F(2) + F(9)) - 5 + 2 \\
202953 &= F(20) \times (F(2) + F(9)) - 5 + 3 \\
202954 &= F(20) \times (F(2) + F(9)) - 5 + 4 \\
202955 &= F(20) \times (F(2) + F(9)) - 5 + 5 \\
202956 &= F(20) \times (F(2) + F(9)) - 5 + 6 \\
202957 &= F(20) \times (F(2) + F(9)) - 5 + 7 \\
202958 &= F(20) \times (F(2) + F(9)) - 5 + 8 \\
202959 &= F(20) \times (F(2) + F(9)) - 5 + 9.
\end{aligned}$$

$$\begin{aligned}
231840 &= F(23 + 1) \times (8 - F(4)) + 0 \\
231841 &= F(23 + 1) \times (8 - F(4)) + 1 \\
231842 &= F(23 + 1) \times (8 - F(4)) + 2 \\
231843 &= F(23 + 1) \times (8 - F(4)) + 3 \\
231844 &= F(23 + 1) \times (8 - F(4)) + 4 \\
231845 &= F(23 + 1) \times (8 - F(4)) + 5 \\
231846 &= F(23 + 1) \times (8 - F(4)) + 6 \\
231847 &= F(23 + 1) \times (8 - F(4)) + 7 \\
231848 &= F(23 + 1) \times (8 - F(4)) + 8 \\
231849 &= F(23 + 1) \times (8 - F(4)) + 9.
\end{aligned}$$

$$\begin{aligned}
233490 &= -F(23) + 3 + 4^9 + 0 \\
233491 &= -F(23) + 3 + 4^9 + 1 \\
233492 &= -F(23) + 3 + 4^9 + 2 \\
233493 &= -F(23) + 3 + 4^9 + 3 \\
233494 &= -F(23) + 3 + 4^9 + 4 \\
233495 &= -F(23) + 3 + 4^9 + 5 \\
233496 &= -F(23) + 3 + 4^9 + 6 \\
233497 &= -F(23) + 3 + 4^9 + 7 \\
233498 &= -F(23) + 3 + 4^9 + 8 \\
233499 &= -F(23) + 3 + 4^9 + 9.
\end{aligned}$$

$$\begin{aligned}
278290 &= (2^{F(7)} - 8 + F(2)) \times F(9) + 0 \\
278291 &= (2^{F(7)} - 8 + F(2)) \times F(9) + 1 \\
278292 &= (2^{F(7)} - 8 + F(2)) \times F(9) + 2 \\
278293 &= (2^{F(7)} - 8 + F(2)) \times F(9) + 3 \\
278294 &= (2^{F(7)} - 8 + F(2)) \times F(9) + 4 \\
278295 &= (2^{F(7)} - 8 + F(2)) \times F(9) + 5 \\
278296 &= (2^{F(7)} - 8 + F(2)) \times F(9) + 6 \\
278297 &= (2^{F(7)} - 8 + F(2)) \times F(9) + 7 \\
278298 &= (2^{F(7)} - 8 + F(2)) \times F(9) + 8 \\
278299 &= (2^{F(7)} - 8 + F(2)) \times F(9) + 9.
\end{aligned}$$

$$\begin{aligned}
238330 &= (-F(2) + 3 \times F(8))^3 + F(3) + 0 \\
238331 &= (-F(2) + 3 \times F(8))^3 + F(3) + 1 \\
238332 &= (-F(2) + 3 \times F(8))^3 + F(3) + 2 \\
238333 &= (-F(2) + 3 \times F(8))^3 + F(3) + 3 \\
238334 &= (-F(2) + 3 \times F(8))^3 + F(3) + 4 \\
238335 &= (-F(2) + 3 \times F(8))^3 + F(3) + 5 \\
238336 &= (-F(2) + 3 \times F(8))^3 + F(3) + 6 \\
238337 &= (-F(2) + 3 \times F(8))^3 + F(3) + 7 \\
238338 &= (-F(2) + 3 \times F(8))^3 + F(3) + 8 \\
238339 &= (-F(2) + 3 \times F(8))^3 + F(3) + 9.
\end{aligned}$$

$$\begin{aligned}
279840 &= -F(2) + (-7 + 9 + F(8))^4 + 0 \\
279841 &= -F(2) + (-7 + 9 + F(8))^4 + 1 \\
279842 &= -F(2) + (-7 + 9 + F(8))^4 + 2 \\
279843 &= -F(2) + (-7 + 9 + F(8))^4 + 3 \\
279844 &= -F(2) + (-7 + 9 + F(8))^4 + 4 \\
279845 &= -F(2) + (-7 + 9 + F(8))^4 + 5 \\
279846 &= -F(2) + (-7 + 9 + F(8))^4 + 6 \\
279847 &= -F(2) + (-7 + 9 + F(8))^4 + 7 \\
279848 &= -F(2) + (-7 + 9 + F(8))^4 + 8 \\
279849 &= -F(2) + (-7 + 9 + F(8))^4 + 9.
\end{aligned}$$

$$\begin{aligned}
279990 &= (2^{F(7)} + 9 + F(9)) \times F(9) + 0 \\
279991 &= (2^{F(7)} + 9 + F(9)) \times F(9) + 1 \\
279992 &= (2^{F(7)} + 9 + F(9)) \times F(9) + 2 \\
279993 &= (2^{F(7)} + 9 + F(9)) \times F(9) + 3 \\
279994 &= (2^{F(7)} + 9 + F(9)) \times F(9) + 4 \\
279995 &= (2^{F(7)} + 9 + F(9)) \times F(9) + 5 \\
279996 &= (2^{F(7)} + 9 + F(9)) \times F(9) + 6 \\
279997 &= (2^{F(7)} + 9 + F(9)) \times F(9) + 7 \\
279998 &= (2^{F(7)} + 9 + F(9)) \times F(9) + 8 \\
279999 &= (2^{F(7)} + 9 + F(9)) \times F(9) + 9.
\end{aligned}$$

$$\begin{aligned}
295240 &= (-F(2) + 9^5) \times (2 + F(4)) + 0 \\
295241 &= (-F(2) + 9^5) \times (2 + F(4)) + 1 \\
295242 &= (-F(2) + 9^5) \times (2 + F(4)) + 2 \\
295243 &= (-F(2) + 9^5) \times (2 + F(4)) + 3 \\
295244 &= (-F(2) + 9^5) \times (2 + F(4)) + 4 \\
295245 &= (-F(2) + 9^5) \times (2 + F(4)) + 5 \\
295246 &= (-F(2) + 9^5) \times (2 + F(4)) + 6 \\
295247 &= (-F(2) + 9^5) \times (2 + F(4)) + 7 \\
295248 &= (-F(2) + 9^5) \times (2 + F(4)) + 8 \\
295249 &= (-F(2) + 9^5) \times (2 + F(4)) + 9.
\end{aligned}$$

$$\begin{aligned}
295250 &= (-F(2) + 9^5 + 2) \times 5 + 0 \\
295251 &= (-F(2) + 9^5 + 2) \times 5 + 1 \\
295252 &= (-F(2) + 9^5 + 2) \times 5 + 2 \\
295253 &= (-F(2) + 9^5 + 2) \times 5 + 3 \\
295254 &= (-F(2) + 9^5 + 2) \times 5 + 4 \\
295255 &= (-F(2) + 9^5 + 2) \times 5 + 5 \\
295256 &= (-F(2) + 9^5 + 2) \times 5 + 6 \\
295257 &= (-F(2) + 9^5 + 2) \times 5 + 7 \\
295258 &= (-F(2) + 9^5 + 2) \times 5 + 8 \\
295259 &= (-F(2) + 9^5 + 2) \times 5 + 9.
\end{aligned}$$

$$\begin{aligned}
327560 &= (-3 + 2^{F(7)}) \times 5 \times F(6) + 0 \\
327561 &= (-3 + 2^{F(7)}) \times 5 \times F(6) + 1 \\
327562 &= (-3 + 2^{F(7)}) \times 5 \times F(6) + 2 \\
327563 &= (-3 + 2^{F(7)}) \times 5 \times F(6) + 3 \\
327564 &= (-3 + 2^{F(7)}) \times 5 \times F(6) + 4 \\
327565 &= (-3 + 2^{F(7)}) \times 5 \times F(6) + 5 \\
327566 &= (-3 + 2^{F(7)}) \times 5 \times F(6) + 6 \\
327567 &= (-3 + 2^{F(7)}) \times 5 \times F(6) + 7 \\
327568 &= (-3 + 2^{F(7)}) \times 5 \times F(6) + 8 \\
327569 &= (-3 + 2^{F(7)}) \times 5 \times F(6) + 9.
\end{aligned}$$

$$\begin{aligned}
365470 &= -F(3) + 6^5 \times 47 + 0 \\
365471 &= -F(3) + 6^5 \times 47 + 1 \\
365472 &= -F(3) + 6^5 \times 47 + 2 \\
365473 &= -F(3) + 6^5 \times 47 + 3 \\
365474 &= -F(3) + 6^5 \times 47 + 4 \\
365475 &= -F(3) + 6^5 \times 47 + 5 \\
365476 &= -F(3) + 6^5 \times 47 + 6 \\
365477 &= -F(3) + 6^5 \times 47 + 7 \\
365478 &= -F(3) + 6^5 \times 47 + 8 \\
365479 &= -F(3) + 6^5 \times 47 + 9.
\end{aligned}$$

$$\begin{aligned}
372190 &= F(3) \times F(7) + F(21) \times F(9) + 0 \\
372191 &= F(3) \times F(7) + F(21) \times F(9) + 1 \\
372192 &= F(3) \times F(7) + F(21) \times F(9) + 2 \\
372193 &= F(3) \times F(7) + F(21) \times F(9) + 3 \\
372194 &= F(3) \times F(7) + F(21) \times F(9) + 4 \\
372195 &= F(3) \times F(7) + F(21) \times F(9) + 5 \\
372196 &= F(3) \times F(7) + F(21) \times F(9) + 6 \\
372197 &= F(3) \times F(7) + F(21) \times F(9) + 7 \\
372198 &= F(3) \times F(7) + F(21) \times F(9) + 8 \\
372199 &= F(3) \times F(7) + F(21) \times F(9) + 9.
\end{aligned}$$

$$\begin{aligned}
372370 &= -F(3) + (-F(7) + F(23)) \times F(7) + 0 \\
372371 &= -F(3) + (-F(7) + F(23)) \times F(7) + 1 \\
372372 &= -F(3) + (-F(7) + F(23)) \times F(7) + 2 \\
372373 &= -F(3) + (-F(7) + F(23)) \times F(7) + 3 \\
372374 &= -F(3) + (-F(7) + F(23)) \times F(7) + 4 \\
372375 &= -F(3) + (-F(7) + F(23)) \times F(7) + 5 \\
372376 &= -F(3) + (-F(7) + F(23)) \times F(7) + 6 \\
372377 &= -F(3) + (-F(7) + F(23)) \times F(7) + 7 \\
372378 &= -F(3) + (-F(7) + F(23)) \times F(7) + 8 \\
372379 &= -F(3) + (-F(7) + F(23)) \times F(7) + 9.
\end{aligned}$$

$$\begin{aligned}
392760 &= F(3 \times 9) \times 2 - 76 + 0 \\
392761 &= F(3 \times 9) \times 2 - 76 + 1 \\
392762 &= F(3 \times 9) \times 2 - 76 + 2 \\
392763 &= F(3 \times 9) \times 2 - 76 + 3 \\
392764 &= F(3 \times 9) \times 2 - 76 + 4 \\
392765 &= F(3 \times 9) \times 2 - 76 + 5 \\
392766 &= F(3 \times 9) \times 2 - 76 + 6 \\
392767 &= F(3 \times 9) \times 2 - 76 + 7 \\
392768 &= F(3 \times 9) \times 2 - 76 + 8 \\
392769 &= F(3 \times 9) \times 2 - 76 + 9.
\end{aligned}$$

$$\begin{aligned}
393660 &= 3^9 \times (F(3) \times 6 + F(6)) + 0 \\
393661 &= 3^9 \times (F(3) \times 6 + F(6)) + 1 \\
393662 &= 3^9 \times (F(3) \times 6 + F(6)) + 2 \\
393663 &= 3^9 \times (F(3) \times 6 + F(6)) + 3 \\
393664 &= 3^9 \times (F(3) \times 6 + F(6)) + 4 \\
393665 &= 3^9 \times (F(3) \times 6 + F(6)) + 5 \\
393666 &= 3^9 \times (F(3) \times 6 + F(6)) + 6 \\
393667 &= 3^9 \times (F(3) \times 6 + F(6)) + 7 \\
393668 &= 3^9 \times (F(3) \times 6 + F(6)) + 8 \\
393669 &= 3^9 \times (F(3) \times 6 + F(6)) + 9.
\end{aligned}$$

$$\begin{aligned}
416020 &= F((4+1) \times 6)/02 + 0 \\
416021 &= F((4+1) \times 6)/02 + 1 \\
416022 &= F((4+1) \times 6)/02 + 2 \\
416023 &= F((4+1) \times 6)/02 + 3 \\
416024 &= F((4+1) \times 6)/02 + 4 \\
416025 &= F((4+1) \times 6)/02 + 5 \\
416026 &= F((4+1) \times 6)/02 + 6 \\
416027 &= F((4+1) \times 6)/02 + 7 \\
416028 &= F((4+1) \times 6)/02 + 8 \\
416029 &= F((4+1) \times 6)/02 + 9.
\end{aligned}$$

$$\begin{aligned}
470680 &= 4 \times (7^{06} + F(8)) + 0 \\
470681 &= 4 \times (7^{06} + F(8)) + 1 \\
470682 &= 4 \times (7^{06} + F(8)) + 2 \\
470683 &= 4 \times (7^{06} + F(8)) + 3 \\
470684 &= 4 \times (7^{06} + F(8)) + 4 \\
470685 &= 4 \times (7^{06} + F(8)) + 5 \\
470686 &= 4 \times (7^{06} + F(8)) + 6 \\
470687 &= 4 \times (7^{06} + F(8)) + 7 \\
470688 &= 4 \times (7^{06} + F(8)) + 8 \\
470689 &= 4 \times (7^{06} + F(8)) + 9.
\end{aligned}$$

$$\begin{aligned}
524880 &= 5 \times 2 \times F(4)^8 \times 8 + 0 \\
524881 &= 5 \times 2 \times F(4)^8 \times 8 + 1 \\
524882 &= 5 \times 2 \times F(4)^8 \times 8 + 2 \\
524883 &= 5 \times 2 \times F(4)^8 \times 8 + 3 \\
524884 &= 5 \times 2 \times F(4)^8 \times 8 + 4 \\
524885 &= 5 \times 2 \times F(4)^8 \times 8 + 5 \\
524886 &= 5 \times 2 \times F(4)^8 \times 8 + 6 \\
524887 &= 5 \times 2 \times F(4)^8 \times 8 + 7 \\
524888 &= 5 \times 2 \times F(4)^8 \times 8 + 8 \\
524889 &= 5 \times 2 \times F(4)^8 \times 8 + 9.
\end{aligned}$$

$$\begin{aligned}
557370 &= -5 + (5 \times 7)^3 \times F(7) + 0 \\
557371 &= -5 + (5 \times 7)^3 \times F(7) + 1 \\
557372 &= -5 + (5 \times 7)^3 \times F(7) + 2 \\
557373 &= -5 + (5 \times 7)^3 \times F(7) + 3 \\
557374 &= -5 + (5 \times 7)^3 \times F(7) + 4 \\
557375 &= -5 + (5 \times 7)^3 \times F(7) + 5 \\
557376 &= -5 + (5 \times 7)^3 \times F(7) + 6 \\
557377 &= -5 + (5 \times 7)^3 \times F(7) + 7 \\
557378 &= -5 + (5 \times 7)^3 \times F(7) + 8 \\
557379 &= -5 + (5 \times 7)^3 \times F(7) + 9.
\end{aligned}$$

$$\begin{aligned}
589440 &= 5 \times (-8 + F(9)^{F(4)}) \times F(4) + 0 \\
589441 &= 5 \times (-8 + F(9)^{F(4)}) \times F(4) + 1 \\
589442 &= 5 \times (-8 + F(9)^{F(4)}) \times F(4) + 2 \\
589443 &= 5 \times (-8 + F(9)^{F(4)}) \times F(4) + 3 \\
589444 &= 5 \times (-8 + F(9)^{F(4)}) \times F(4) + 4 \\
589445 &= 5 \times (-8 + F(9)^{F(4)}) \times F(4) + 5 \\
589446 &= 5 \times (-8 + F(9)^{F(4)}) \times F(4) + 6 \\
589447 &= 5 \times (-8 + F(9)^{F(4)}) \times F(4) + 7 \\
589448 &= 5 \times (-8 + F(9)^{F(4)}) \times F(4) + 8 \\
589449 &= 5 \times (-8 + F(9)^{F(4)}) \times F(4) + 9.
\end{aligned}$$

$$\begin{aligned}
593190 &= (5 + F(9))^3 \times (1 + 9) + 0 \\
593191 &= (5 + F(9))^3 \times (1 + 9) + 1 \\
593192 &= (5 + F(9))^3 \times (1 + 9) + 2 \\
593193 &= (5 + F(9))^3 \times (1 + 9) + 3 \\
593194 &= (5 + F(9))^3 \times (1 + 9) + 4 \\
593195 &= (5 + F(9))^3 \times (1 + 9) + 5 \\
593196 &= (5 + F(9))^3 \times (1 + 9) + 6 \\
593197 &= (5 + F(9))^3 \times (1 + 9) + 7 \\
593198 &= (5 + F(9))^3 \times (1 + 9) + 8 \\
593199 &= (5 + F(9))^3 \times (1 + 9) + 9.
\end{aligned}$$

$$\begin{aligned}
638640 &= F(6 \times 3) + 86^{F(4)} + 0 \\
638641 &= F(6 \times 3) + 86^{F(4)} + 1 \\
638642 &= F(6 \times 3) + 86^{F(4)} + 2 \\
638643 &= F(6 \times 3) + 86^{F(4)} + 3 \\
638644 &= F(6 \times 3) + 86^{F(4)} + 4 \\
638645 &= F(6 \times 3) + 86^{F(4)} + 5 \\
638646 &= F(6 \times 3) + 86^{F(4)} + 6 \\
638647 &= F(6 \times 3) + 86^{F(4)} + 7 \\
638648 &= F(6 \times 3) + 86^{F(4)} + 8 \\
638649 &= F(6 \times 3) + 86^{F(4)} + 9.
\end{aligned}$$

$$\begin{aligned}
655360 &= F(6)^5 \times 5/F(3) \times F(6) + 0 \\
655361 &= F(6)^5 \times 5/F(3) \times F(6) + 1 \\
655362 &= F(6)^5 \times 5/F(3) \times F(6) + 2 \\
655363 &= F(6)^5 \times 5/F(3) \times F(6) + 3 \\
655364 &= F(6)^5 \times 5/F(3) \times F(6) + 4 \\
655365 &= F(6)^5 \times 5/F(3) \times F(6) + 5 \\
655366 &= F(6)^5 \times 5/F(3) \times F(6) + 6 \\
655367 &= F(6)^5 \times 5/F(3) \times F(6) + 7 \\
655368 &= F(6)^5 \times 5/F(3) \times F(6) + 8 \\
655369 &= F(6)^5 \times 5/F(3) \times F(6) + 9.
\end{aligned}$$

$$\begin{aligned}
747740 &= (-7 + F(4)^7) \times 7^{F(4)} + 0 \\
747741 &= (-7 + F(4)^7) \times 7^{F(4)} + 1 \\
747742 &= (-7 + F(4)^7) \times 7^{F(4)} + 2 \\
747743 &= (-7 + F(4)^7) \times 7^{F(4)} + 3 \\
747744 &= (-7 + F(4)^7) \times 7^{F(4)} + 4 \\
747745 &= (-7 + F(4)^7) \times 7^{F(4)} + 5 \\
747746 &= (-7 + F(4)^7) \times 7^{F(4)} + 6 \\
747747 &= (-7 + F(4)^7) \times 7^{F(4)} + 7 \\
747748 &= (-7 + F(4)^7) \times 7^{F(4)} + 8 \\
747749 &= (-7 + F(4)^7) \times 7^{F(4)} + 9.
\end{aligned}$$

$$\begin{aligned}
786410 &= (-7 + 8^6) \times F(4) - 1 + 0 \\
786411 &= (-7 + 8^6) \times F(4) - 1 + 1 \\
786412 &= (-7 + 8^6) \times F(4) - 1 + 2 \\
786413 &= (-7 + 8^6) \times F(4) - 1 + 3 \\
786414 &= (-7 + 8^6) \times F(4) - 1 + 4 \\
786415 &= (-7 + 8^6) \times F(4) - 1 + 5 \\
786416 &= (-7 + 8^6) \times F(4) - 1 + 6 \\
786417 &= (-7 + 8^6) \times F(4) - 1 + 7 \\
786418 &= (-7 + 8^6) \times F(4) - 1 + 8 \\
786419 &= (-7 + 8^6) \times F(4) - 1 + 9.
\end{aligned}$$

$$\begin{aligned}
786450 &= F(7) + 8^6 \times F(4) + 5 + 0 \\
786451 &= F(7) + 8^6 \times F(4) + 5 + 1 \\
786452 &= F(7) + 8^6 \times F(4) + 5 + 2 \\
786453 &= F(7) + 8^6 \times F(4) + 5 + 3 \\
786454 &= F(7) + 8^6 \times F(4) + 5 + 4 \\
786455 &= F(7) + 8^6 \times F(4) + 5 + 5 \\
786456 &= F(7) + 8^6 \times F(4) + 5 + 6 \\
786457 &= F(7) + 8^6 \times F(4) + 5 + 7 \\
786458 &= F(7) + 8^6 \times F(4) + 5 + 8 \\
786459 &= F(7) + 8^6 \times F(4) + 5 + 9.
\end{aligned}$$

$$\begin{aligned}
833490 &= F(8)^3 \times (3^4 + 9) + 0 \\
833491 &= F(8)^3 \times (3^4 + 9) + 1 \\
833492 &= F(8)^3 \times (3^4 + 9) + 2 \\
833493 &= F(8)^3 \times (3^4 + 9) + 3 \\
833494 &= F(8)^3 \times (3^4 + 9) + 4 \\
833495 &= F(8)^3 \times (3^4 + 9) + 5 \\
833496 &= F(8)^3 \times (3^4 + 9) + 6 \\
833497 &= F(8)^3 \times (3^4 + 9) + 7 \\
833498 &= F(8)^3 \times (3^4 + 9) + 8 \\
833499 &= F(8)^3 \times (3^4 + 9) + 9.
\end{aligned}$$

$$\begin{aligned}
841300 &= F(8)^{F(4)} - 1 + F(30) + 0 \\
841301 &= F(8)^{F(4)} - 1 + F(30) + 1 \\
841302 &= F(8)^{F(4)} - 1 + F(30) + 2 \\
841303 &= F(8)^{F(4)} - 1 + F(30) + 3 \\
841304 &= F(8)^{F(4)} - 1 + F(30) + 4 \\
841305 &= F(8)^{F(4)} - 1 + F(30) + 5 \\
841306 &= F(8)^{F(4)} - 1 + F(30) + 6 \\
841307 &= F(8)^{F(4)} - 1 + F(30) + 7 \\
841308 &= F(8)^{F(4)} - 1 + F(30) + 8 \\
841309 &= F(8)^{F(4)} - 1 + F(30) + 9.
\end{aligned}$$

$$\begin{aligned}
896700 &= F(8) \times F(9 + 6) \times 70 + 0 \\
896701 &= F(8) \times F(9 + 6) \times 70 + 1 \\
896702 &= F(8) \times F(9 + 6) \times 70 + 2 \\
896703 &= F(8) \times F(9 + 6) \times 70 + 3 \\
896704 &= F(8) \times F(9 + 6) \times 70 + 4 \\
896705 &= F(8) \times F(9 + 6) \times 70 + 5 \\
896706 &= F(8) \times F(9 + 6) \times 70 + 6 \\
896707 &= F(8) \times F(9 + 6) \times 70 + 7 \\
896708 &= F(8) \times F(9 + 6) \times 70 + 8 \\
896709 &= F(8) \times F(9 + 6) \times 70 + 9.
\end{aligned}$$

$$\begin{aligned}
920040 &= F(9) \times F(20) \times 04 + 0 \\
920041 &= F(9) \times F(20) \times 04 + 1 \\
920042 &= F(9) \times F(20) \times 04 + 2 \\
920043 &= F(9) \times F(20) \times 04 + 3 \\
920044 &= F(9) \times F(20) \times 04 + 4 \\
920045 &= F(9) \times F(20) \times 04 + 5 \\
920046 &= F(9) \times F(20) \times 04 + 6 \\
920047 &= F(9) \times F(20) \times 04 + 7 \\
920048 &= F(9) \times F(20) \times 04 + 8 \\
920049 &= F(9) \times F(20) \times 04 + 9.
\end{aligned}$$

$$\begin{aligned}
943280 &= (F(9)^{F(4)} \times 3 - 2) \times 8 + 0 \\
943281 &= (F(9)^{F(4)} \times 3 - 2) \times 8 + 1 \\
943282 &= (F(9)^{F(4)} \times 3 - 2) \times 8 + 2 \\
943283 &= (F(9)^{F(4)} \times 3 - 2) \times 8 + 3 \\
943284 &= (F(9)^{F(4)} \times 3 - 2) \times 8 + 4 \\
943285 &= (F(9)^{F(4)} \times 3 - 2) \times 8 + 5 \\
943286 &= (F(9)^{F(4)} \times 3 - 2) \times 8 + 6 \\
943287 &= (F(9)^{F(4)} \times 3 - 2) \times 8 + 7 \\
943288 &= (F(9)^{F(4)} \times 3 - 2) \times 8 + 8 \\
943289 &= (F(9)^{F(4)} \times 3 - 2) \times 8 + 9.
\end{aligned}$$

$$\begin{aligned}
972740 &= F(9) \times (7^2 + F(7)^4) + 0 \\
972741 &= F(9) \times (7^2 + F(7)^4) + 1 \\
972742 &= F(9) \times (7^2 + F(7)^4) + 2 \\
972743 &= F(9) \times (7^2 + F(7)^4) + 3 \\
972744 &= F(9) \times (7^2 + F(7)^4) + 4 \\
972745 &= F(9) \times (7^2 + F(7)^4) + 5 \\
972746 &= F(9) \times (7^2 + F(7)^4) + 6 \\
972747 &= F(9) \times (7^2 + F(7)^4) + 7 \\
972748 &= F(9) \times (7^2 + F(7)^4) + 8 \\
972749 &= F(9) \times (7^2 + F(7)^4) + 9.
\end{aligned}$$

$$\begin{aligned}
973980 &= F(9 + 7)^{F(3)} - 9 \times F(8) + 0 \\
973981 &= F(9 + 7)^{F(3)} - 9 \times F(8) + 1 \\
973982 &= F(9 + 7)^{F(3)} - 9 \times F(8) + 2 \\
973983 &= F(9 + 7)^{F(3)} - 9 \times F(8) + 3 \\
973984 &= F(9 + 7)^{F(3)} - 9 \times F(8) + 4 \\
973985 &= F(9 + 7)^{F(3)} - 9 \times F(8) + 5 \\
973986 &= F(9 + 7)^{F(3)} - 9 \times F(8) + 6 \\
973987 &= F(9 + 7)^{F(3)} - 9 \times F(8) + 7 \\
973988 &= F(9 + 7)^{F(3)} - 9 \times F(8) + 8 \\
973989 &= F(9 + 7)^{F(3)} - 9 \times F(8) + 9.
\end{aligned}$$

3.3 Symmetric Representations in Reverse Order of Digits

Below are examples of numbers written in reverse order of digits:

$$\begin{aligned}
39270 &= 0 - F(7 + 2) + F(9)^3 \\
39271 &= 1 - F(7 + 2) + F(9)^3 \\
39272 &= 2 - F(7 + 2) + F(9)^3 \\
39273 &= 3 - F(7 + 2) + F(9)^3 \\
39274 &= 4 - F(7 + 2) + F(9)^3 \\
39275 &= 5 - F(7 + 2) + F(9)^3 \\
39276 &= 6 - F(7 + 2) + F(9)^3 \\
39277 &= 7 - F(7 + 2) + F(9)^3 \\
39278 &= 8 - F(7 + 2) + F(9)^3 \\
39279 &= 9 - F(7 + 2) + F(9)^3.
\end{aligned}$$

$$\begin{aligned}
74290 &= 0 + F(9) \times (-2 + F(4)^7) \\
74291 &= 1 + F(9) \times (-2 + F(4)^7) \\
74292 &= 2 + F(9) \times (-2 + F(4)^7) \\
74293 &= 3 + F(9) \times (-2 + F(4)^7) \\
74294 &= 4 + F(9) \times (-2 + F(4)^7) \\
74295 &= 5 + F(9) \times (-2 + F(4)^7) \\
74296 &= 6 + F(9) \times (-2 + F(4)^7) \\
74297 &= 7 + F(9) \times (-2 + F(4)^7) \\
74298 &= 8 + F(9) \times (-2 + F(4)^7) \\
74299 &= 9 + F(9) \times (-2 + F(4)^7).
\end{aligned}$$

$$\begin{aligned}
46690 &= 0 + F(9) + (6 \times 6)^{F(4)} \\
46691 &= 1 + F(9) + (6 \times 6)^{F(4)} \\
46692 &= 2 + F(9) + (6 \times 6)^{F(4)} \\
46693 &= 3 + F(9) + (6 \times 6)^{F(4)} \\
46694 &= 4 + F(9) + (6 \times 6)^{F(4)} \\
46695 &= 5 + F(9) + (6 \times 6)^{F(4)} \\
46696 &= 6 + F(9) + (6 \times 6)^{F(4)} \\
46697 &= 7 + F(9) + (6 \times 6)^{F(4)} \\
46698 &= 8 + F(9) + (6 \times 6)^{F(4)} \\
46699 &= 9 + F(9) + (6 \times 6)^{F(4)}.
\end{aligned}$$

$$\begin{aligned}
112640 &= 0 + F(4 + 6) \times 2^{11} \\
112641 &= 1 + F(4 + 6) \times 2^{11} \\
112642 &= 2 + F(4 + 6) \times 2^{11} \\
112643 &= 3 + F(4 + 6) \times 2^{11} \\
112644 &= 4 + F(4 + 6) \times 2^{11} \\
112645 &= 5 + F(4 + 6) \times 2^{11} \\
112646 &= 6 + F(4 + 6) \times 2^{11} \\
112647 &= 7 + F(4 + 6) \times 2^{11} \\
112648 &= 8 + F(4 + 6) \times 2^{11} \\
112649 &= 9 + F(4 + 6) \times 2^{11}.
\end{aligned}$$

$$\begin{aligned}
117670 &= 0 + 7^6 + F(7 + 1) \times 1 \\
117671 &= 1 + 7^6 + F(7 + 1) \times 1 \\
117672 &= 2 + 7^6 + F(7 + 1) \times 1 \\
117673 &= 3 + 7^6 + F(7 + 1) \times 1 \\
117674 &= 4 + 7^6 + F(7 + 1) \times 1 \\
117675 &= 5 + 7^6 + F(7 + 1) \times 1 \\
117676 &= 6 + 7^6 + F(7 + 1) \times 1 \\
117677 &= 7 + 7^6 + F(7 + 1) \times 1 \\
117678 &= 8 + 7^6 + F(7 + 1) \times 1 \\
117679 &= 9 + 7^6 + F(7 + 1) \times 1.
\end{aligned}$$

$$\begin{aligned}
212280 &= 0 + (-F(8) + F(22)) \times 12 \\
212281 &= 1 + (-F(8) + F(22)) \times 12 \\
212282 &= 2 + (-F(8) + F(22)) \times 12 \\
212283 &= 3 + (-F(8) + F(22)) \times 12 \\
212284 &= 4 + (-F(8) + F(22)) \times 12 \\
212285 &= 5 + (-F(8) + F(22)) \times 12 \\
212286 &= 6 + (-F(8) + F(22)) \times 12 \\
212287 &= 7 + (-F(8) + F(22)) \times 12 \\
212288 &= 8 + (-F(8) + F(22)) \times 12 \\
212289 &= 9 + (-F(8) + F(22)) \times 12.
\end{aligned}$$

$$\begin{aligned}
270400 &= 00 + (40 \times F(7))^2 \\
270401 &= 10 + (40 \times F(7))^2 \\
270402 &= 20 + (40 \times F(7))^2 \\
270403 &= 30 + (40 \times F(7))^2 \\
270404 &= 40 + (40 \times F(7))^2 \\
270405 &= 50 + (40 \times F(7))^2 \\
270406 &= 60 + (40 \times F(7))^2 \\
270407 &= 70 + (40 \times F(7))^2 \\
270408 &= 80 + (40 \times F(7))^2 \\
270409 &= 90 + (40 \times F(7))^2.
\end{aligned}$$

$$\begin{aligned}
270411 &= 11 + (40 \times F(7))^2 \\
270422 &= 22 + (40 \times F(7))^2 \\
270433 &= 33 + (40 \times F(7))^2 \\
270444 &= 44 + (40 \times F(7))^2 \\
270455 &= 55 + (40 \times F(7))^2 \\
270466 &= 66 + (40 \times F(7))^2 \\
270477 &= 77 + (40 \times F(7))^2 \\
270488 &= 88 + (40 \times F(7))^2 \\
270499 &= 99 + (40 \times F(7))^2.
\end{aligned}$$

$$\begin{aligned}
274980 &= 0 + (-F(8) + F(9)^{F(4)}) \times 7 - F(2) \\
274981 &= 1 + (-F(8) + F(9)^{F(4)}) \times 7 - F(2) \\
274982 &= 2 + (-F(8) + F(9)^{F(4)}) \times 7 - F(2) \\
274983 &= 3 + (-F(8) + F(9)^{F(4)}) \times 7 - F(2) \\
274984 &= 4 + (-F(8) + F(9)^{F(4)}) \times 7 - F(2) \\
274985 &= 5 + (-F(8) + F(9)^{F(4)}) \times 7 - F(2) \\
274986 &= 6 + (-F(8) + F(9)^{F(4)}) \times 7 - F(2) \\
274987 &= 7 + (-F(8) + F(9)^{F(4)}) \times 7 - F(2) \\
274988 &= 8 + (-F(8) + F(9)^{F(4)}) \times 7 - F(2) \\
274989 &= 9 + (-F(8) + F(9)^{F(4)}) \times 7 - F(2).
\end{aligned}$$

$$\begin{aligned}
297440 &= 0 + 4 \times (F(4)^7 \times F(9) + 2) \\
297441 &= 1 + 4 \times (F(4)^7 \times F(9) + 2) \\
297442 &= 2 + 4 \times (F(4)^7 \times F(9) + 2) \\
297443 &= 3 + 4 \times (F(4)^7 \times F(9) + 2) \\
297444 &= 4 + 4 \times (F(4)^7 \times F(9) + 2) \\
297445 &= 5 + 4 \times (F(4)^7 \times F(9) + 2) \\
297446 &= 6 + 4 \times (F(4)^7 \times F(9) + 2) \\
297447 &= 7 + 4 \times (F(4)^7 \times F(9) + 2) \\
297448 &= 8 + 4 \times (F(4)^7 \times F(9) + 2) \\
297449 &= 9 + 4 \times (F(4)^7 \times F(9) + 2).
\end{aligned}$$

$$\begin{aligned}
317810 &= 0 - 1 + F(8 + 7 + 13) \\
317811 &= 1 - 1 + F(8 + 7 + 13) \\
317812 &= 2 - 1 + F(8 + 7 + 13) \\
317813 &= 3 - 1 + F(8 + 7 + 13) \\
317814 &= 4 - 1 + F(8 + 7 + 13) \\
317815 &= 5 - 1 + F(8 + 7 + 13) \\
317816 &= 6 - 1 + F(8 + 7 + 13) \\
317817 &= 7 - 1 + F(8 + 7 + 13) \\
317818 &= 8 - 1 + F(8 + 7 + 13) \\
317819 &= 9 - 1 + F(8 + 7 + 13).
\end{aligned}$$

$$\begin{aligned}
332750 &= 0 + (57 - 2)^3 \times F(3) \\
332751 &= 1 + (57 - 2)^3 \times F(3) \\
332752 &= 2 + (57 - 2)^3 \times F(3) \\
332753 &= 3 + (57 - 2)^3 \times F(3) \\
332754 &= 4 + (57 - 2)^3 \times F(3) \\
332755 &= 5 + (57 - 2)^3 \times F(3) \\
332756 &= 6 + (57 - 2)^3 \times F(3) \\
332757 &= 7 + (57 - 2)^3 \times F(3) \\
332758 &= 8 + (57 - 2)^3 \times F(3) \\
332759 &= 9 + (57 - 2)^3 \times F(3).
\end{aligned}$$

$$\begin{aligned}
 372100 &= 0 + F(01 + 2 \times 7)^{F(3)} \\
 372100 &= 00 + F(1 + 2 \times 7)^{F(3)} \\
 372101 &= 1 + F(01 + 2 \times 7)^{F(3)} \\
 372102 &= 2 + F(01 + 2 \times 7)^{F(3)} \\
 372103 &= 3 + F(01 + 2 \times 7)^{F(3)} \\
 372104 &= 4 + F(01 + 2 \times 7)^{F(3)} \\
 372105 &= 5 + F(01 + 2 \times 7)^{F(3)} \\
 372106 &= 6 + F(01 + 2 \times 7)^{F(3)} \\
 372107 &= 7 + F(01 + 2 \times 7)^{F(3)} \\
 372108 &= 8 + F(01 + 2 \times 7)^{F(3)} \\
 372109 &= 9 + F(01 + 2 \times 7)^{F(3)}.
 \end{aligned}$$

$$\begin{aligned}
 372111 &= 11 + F(1 + 2 \times 7)^{F(3)} \\
 372122 &= 22 + F(1 + 2 \times 7)^{F(3)} \\
 372133 &= 33 + F(1 + 2 \times 7)^{F(3)} \\
 372144 &= 44 + F(1 + 2 \times 7)^{F(3)} \\
 372155 &= 55 + F(1 + 2 \times 7)^{F(3)} \\
 372166 &= 66 + F(1 + 2 \times 7)^{F(3)} \\
 372177 &= 77 + F(1 + 2 \times 7)^{F(3)} \\
 372188 &= 88 + F(1 + 2 \times 7)^{F(3)} \\
 372199 &= 99 + F(1 + 2 \times 7)^{F(3)}.
 \end{aligned}$$

$$\begin{aligned}
 373490 &= 0 + F(9) \times (F(4) + F(3)) \times F(7)^3 \\
 373491 &= 1 + F(9) \times (F(4) + F(3)) \times F(7)^3 \\
 373492 &= 2 + F(9) \times (F(4) + F(3)) \times F(7)^3 \\
 373493 &= 3 + F(9) \times (F(4) + F(3)) \times F(7)^3 \\
 373494 &= 4 + F(9) \times (F(4) + F(3)) \times F(7)^3 \\
 373495 &= 5 + F(9) \times (F(4) + F(3)) \times F(7)^3 \\
 373496 &= 6 + F(9) \times (F(4) + F(3)) \times F(7)^3 \\
 373497 &= 7 + F(9) \times (F(4) + F(3)) \times F(7)^3 \\
 373498 &= 8 + F(9) \times (F(4) + F(3)) \times F(7)^3 \\
 373499 &= 9 + F(9) \times (F(4) + F(3)) \times F(7)^3.
 \end{aligned}$$

$$\begin{aligned}
 374540 &= 0 - 4 + (5^4 - F(7))^{F(3)} \\
 374541 &= 1 - 4 + (5^4 - F(7))^{F(3)} \\
 374542 &= 2 - 4 + (5^4 - F(7))^{F(3)} \\
 374543 &= 3 - 4 + (5^4 - F(7))^{F(3)} \\
 374544 &= 4 - 4 + (5^4 - F(7))^{F(3)} \\
 374545 &= 5 - 4 + (5^4 - F(7))^{F(3)} \\
 374546 &= 6 - 4 + (5^4 - F(7))^{F(3)} \\
 374547 &= 7 - 4 + (5^4 - F(7))^{F(3)} \\
 374548 &= 8 - 4 + (5^4 - F(7))^{F(3)} \\
 374549 &= 9 - 4 + (5^4 - F(7))^{F(3)}.
 \end{aligned}$$

$$\begin{aligned}
 391850 &= 0 + 5^8 + (1 + F(9))^{F(3)} \\
 391851 &= 1 + 5^8 + (1 + F(9))^{F(3)} \\
 391852 &= 2 + 5^8 + (1 + F(9))^{F(3)} \\
 391853 &= 3 + 5^8 + (1 + F(9))^{F(3)} \\
 391854 &= 4 + 5^8 + (1 + F(9))^{F(3)} \\
 391855 &= 5 + 5^8 + (1 + F(9))^{F(3)} \\
 391856 &= 6 + 5^8 + (1 + F(9))^{F(3)} \\
 391857 &= 7 + 5^8 + (1 + F(9))^{F(3)} \\
 391858 &= 8 + 5^8 + (1 + F(9))^{F(3)} \\
 391859 &= 9 + 5^8 + (1 + F(9))^{F(3)}.
 \end{aligned}$$

$$\begin{aligned}
 393010 &= 0 + 10 \times (-3 + F(9)^3) \\
 393011 &= 1 + 10 \times (-3 + F(9)^3) \\
 393012 &= 2 + 10 \times (-3 + F(9)^3) \\
 393013 &= 3 + 10 \times (-3 + F(9)^3) \\
 393014 &= 4 + 10 \times (-3 + F(9)^3) \\
 393015 &= 5 + 10 \times (-3 + F(9)^3) \\
 393016 &= 6 + 10 \times (-3 + F(9)^3) \\
 393017 &= 7 + 10 \times (-3 + F(9)^3) \\
 393018 &= 8 + 10 \times (-3 + F(9)^3) \\
 393019 &= 9 + 10 \times (-3 + F(9)^3).
 \end{aligned}$$

$$\begin{aligned}
 423740 &= 0 + (F(4 \times 7)/3 - 2) \times 4 \\
 423741 &= 1 + (F(4 \times 7)/3 - 2) \times 4 \\
 423742 &= 2 + (F(4 \times 7)/3 - 2) \times 4 \\
 423743 &= 3 + (F(4 \times 7)/3 - 2) \times 4 \\
 423744 &= 4 + (F(4 \times 7)/3 - 2) \times 4 \\
 423745 &= 5 + (F(4 \times 7)/3 - 2) \times 4 \\
 423746 &= 6 + (F(4 \times 7)/3 - 2) \times 4 \\
 423747 &= 7 + (F(4 \times 7)/3 - 2) \times 4 \\
 423748 &= 8 + (F(4 \times 7)/3 - 2) \times 4 \\
 423749 &= 9 + (F(4 \times 7)/3 - 2) \times 4.
 \end{aligned}$$

$$\begin{aligned}
 438980 &= 0 + (F(8) + F(9) + F(8))^3 + 4 \\
 438981 &= 1 + (F(8) + F(9) + F(8))^3 + 4 \\
 438982 &= 2 + (F(8) + F(9) + F(8))^3 + 4 \\
 438983 &= 3 + (F(8) + F(9) + F(8))^3 + 4 \\
 438984 &= 4 + (F(8) + F(9) + F(8))^3 + 4 \\
 438985 &= 5 + (F(8) + F(9) + F(8))^3 + 4 \\
 438986 &= 6 + (F(8) + F(9) + F(8))^3 + 4 \\
 438987 &= 7 + (F(8) + F(9) + F(8))^3 + 4 \\
 438988 &= 8 + (F(8) + F(9) + F(8))^3 + 4 \\
 438989 &= 9 + (F(8) + F(9) + F(8))^3 + 4.
 \end{aligned}$$

$$\begin{aligned}
458710 &= 0 + (1 + F(7)) \times (8^5 - F(4)) \\
458711 &= 1 + (1 + F(7)) \times (8^5 - F(4)) \\
458712 &= 2 + (1 + F(7)) \times (8^5 - F(4)) \\
458713 &= 3 + (1 + F(7)) \times (8^5 - F(4)) \\
458714 &= 4 + (1 + F(7)) \times (8^5 - F(4)) \\
458715 &= 5 + (1 + F(7)) \times (8^5 - F(4)) \\
458716 &= 6 + (1 + F(7)) \times (8^5 - F(4)) \\
458717 &= 7 + (1 + F(7)) \times (8^5 - F(4)) \\
458718 &= 8 + (1 + F(7)) \times (8^5 - F(4)) \\
458719 &= 9 + (1 + F(7)) \times (8^5 - F(4)).
\end{aligned}$$

$$\begin{aligned}
465650 &= 0 + 5^{F(6)} + F(5^{6-4}) \\
465651 &= 1 + 5^{F(6)} + F(5^{6-4}) \\
465652 &= 2 + 5^{F(6)} + F(5^{6-4}) \\
465653 &= 3 + 5^{F(6)} + F(5^{6-4}) \\
465654 &= 4 + 5^{F(6)} + F(5^{6-4}) \\
465655 &= 5 + 5^{F(6)} + F(5^{6-4}) \\
465656 &= 6 + 5^{F(6)} + F(5^{6-4}) \\
465657 &= 7 + 5^{F(6)} + F(5^{6-4}) \\
465658 &= 8 + 5^{F(6)} + F(5^{6-4}) \\
465659 &= 9 + 5^{F(6)} + F(5^{6-4}).
\end{aligned}$$

$$\begin{aligned}
477360 &= 0 + 6^3 \times (F(7) + F(7)^{F(4)}) \\
477361 &= 1 + 6^3 \times (F(7) + F(7)^{F(4)}) \\
477362 &= 2 + 6^3 \times (F(7) + F(7)^{F(4)}) \\
477363 &= 3 + 6^3 \times (F(7) + F(7)^{F(4)}) \\
477364 &= 4 + 6^3 \times (F(7) + F(7)^{F(4)}) \\
477365 &= 5 + 6^3 \times (F(7) + F(7)^{F(4)}) \\
477366 &= 6 + 6^3 \times (F(7) + F(7)^{F(4)}) \\
477367 &= 7 + 6^3 \times (F(7) + F(7)^{F(4)}) \\
477368 &= 8 + 6^3 \times (F(7) + F(7)^{F(4)}) \\
477369 &= 9 + 6^3 \times (F(7) + F(7)^{F(4)}).
\end{aligned}$$

$$\begin{aligned}
498920 &= 0 + F(29) - F(8) \times 9^{F(4)} \\
498921 &= 1 + F(29) - F(8) \times 9^{F(4)} \\
498922 &= 2 + F(29) - F(8) \times 9^{F(4)} \\
498923 &= 3 + F(29) - F(8) \times 9^{F(4)} \\
498924 &= 4 + F(29) - F(8) \times 9^{F(4)} \\
498925 &= 5 + F(29) - F(8) \times 9^{F(4)} \\
498926 &= 6 + F(29) - F(8) \times 9^{F(4)} \\
498927 &= 7 + F(29) - F(8) \times 9^{F(4)} \\
498928 &= 8 + F(29) - F(8) \times 9^{F(4)} \\
498929 &= 9 + F(29) - F(8) \times 9^{F(4)}.
\end{aligned}$$

$$\begin{aligned}
537790 &= 0 - F(9) + (-7 + 7 \times 3)^5 \\
537791 &= 1 - F(9) + (-7 + 7 \times 3)^5 \\
537792 &= 2 - F(9) + (-7 + 7 \times 3)^5 \\
537793 &= 3 - F(9) + (-7 + 7 \times 3)^5 \\
537794 &= 4 - F(9) + (-7 + 7 \times 3)^5 \\
537795 &= 5 - F(9) + (-7 + 7 \times 3)^5 \\
537796 &= 6 - F(9) + (-7 + 7 \times 3)^5 \\
537797 &= 7 - F(9) + (-7 + 7 \times 3)^5 \\
537798 &= 8 - F(9) + (-7 + 7 \times 3)^5 \\
537799 &= 9 - F(9) + (-7 + 7 \times 3)^5.
\end{aligned}$$

$$\begin{aligned}
537850 &= 0 + 5 + F(8) + (7 \times F(3))^5 \\
537851 &= 1 + 5 + F(8) + (7 \times F(3))^5 \\
537852 &= 2 + 5 + F(8) + (7 \times F(3))^5 \\
537853 &= 3 + 5 + F(8) + (7 \times F(3))^5 \\
537854 &= 4 + 5 + F(8) + (7 \times F(3))^5 \\
537855 &= 5 + 5 + F(8) + (7 \times F(3))^5 \\
537856 &= 6 + 5 + F(8) + (7 \times F(3))^5 \\
537857 &= 7 + 5 + F(8) + (7 \times F(3))^5 \\
537858 &= 8 + 5 + F(8) + (7 \times F(3))^5 \\
537859 &= 9 + 5 + F(8) + (7 \times F(3))^5.
\end{aligned}$$

$$\begin{aligned}
589840 &= 0 + 4^8 \times 9 + F(8) - 5 \\
589841 &= 1 + 4^8 \times 9 + F(8) - 5 \\
589842 &= 2 + 4^8 \times 9 + F(8) - 5 \\
589843 &= 3 + 4^8 \times 9 + F(8) - 5 \\
589844 &= 4 + 4^8 \times 9 + F(8) - 5 \\
589845 &= 5 + 4^8 \times 9 + F(8) - 5 \\
589846 &= 6 + 4^8 \times 9 + F(8) - 5 \\
589847 &= 7 + 4^8 \times 9 + F(8) - 5 \\
589848 &= 8 + 4^8 \times 9 + F(8) - 5 \\
589849 &= 9 + 4^8 \times 9 + F(8) - 5.
\end{aligned}$$

$$\begin{aligned}
624030 &= 0 + F(30) \times F(4)/(-2 + 6) \\
624031 &= 1 + F(30) \times F(4)/(-2 + 6) \\
624032 &= 2 + F(30) \times F(4)/(-2 + 6) \\
624033 &= 3 + F(30) \times F(4)/(-2 + 6) \\
624034 &= 4 + F(30) \times F(4)/(-2 + 6) \\
624035 &= 5 + F(30) \times F(4)/(-2 + 6) \\
624036 &= 6 + F(30) \times F(4)/(-2 + 6) \\
624037 &= 7 + F(30) \times F(4)/(-2 + 6) \\
624038 &= 8 + F(30) \times F(4)/(-2 + 6) \\
624039 &= 9 + F(30) \times F(4)/(-2 + 6).
\end{aligned}$$

$$\begin{aligned}
 742570 &= 0 + 2 \times F(7)^5 - F(4) - F(7) \\
 742571 &= 1 + 2 \times F(7)^5 - F(4) - F(7) \\
 742572 &= 2 + 2 \times F(7)^5 - F(4) - F(7) \\
 742573 &= 3 + 2 \times F(7)^5 - F(4) - F(7) \\
 742574 &= 4 + 2 \times F(7)^5 - F(4) - F(7) \\
 742575 &= 5 + 2 \times F(7)^5 - F(4) - F(7) \\
 742576 &= 6 + 2 \times F(7)^5 - F(4) - F(7) \\
 742577 &= 7 + 2 \times F(7)^5 - F(4) - F(7) \\
 742578 &= 8 + 2 \times F(7)^5 - F(4) - F(7) \\
 742579 &= 9 + 2 \times F(7)^5 - F(4) - F(7).
 \end{aligned}$$

$$\begin{aligned}
 832650 &= 0 + F(5 \times 6) + F(23 - 8) \\
 832651 &= 1 + F(5 \times 6) + F(23 - 8) \\
 832652 &= 2 + F(5 \times 6) + F(23 - 8) \\
 832653 &= 3 + F(5 \times 6) + F(23 - 8) \\
 832654 &= 4 + F(5 \times 6) + F(23 - 8) \\
 832655 &= 5 + F(5 \times 6) + F(23 - 8) \\
 832656 &= 6 + F(5 \times 6) + F(23 - 8) \\
 832657 &= 7 + F(5 \times 6) + F(23 - 8) \\
 832658 &= 8 + F(5 \times 6) + F(23 - 8) \\
 832659 &= 9 + F(5 \times 6) + F(23 - 8).
 \end{aligned}$$

$$\begin{aligned}
 832030 &= 0 + F(30) - 2 \times (-3 + 8) \\
 832031 &= 1 + F(30) - 2 \times (-3 + 8) \\
 832032 &= 2 + F(30) - 2 \times (-3 + 8) \\
 832033 &= 3 + F(30) - 2 \times (-3 + 8) \\
 832034 &= 4 + F(30) - 2 \times (-3 + 8) \\
 832035 &= 5 + F(30) - 2 \times (-3 + 8) \\
 832036 &= 6 + F(30) - 2 \times (-3 + 8) \\
 832037 &= 7 + F(30) - 2 \times (-3 + 8) \\
 832038 &= 8 + F(30) - 2 \times (-3 + 8) \\
 832039 &= 9 + F(30) - 2 \times (-3 + 8).
 \end{aligned}$$

$$\begin{aligned}
 839760 &= 0 + (6^7 - 9) \times 3 - F(8) \\
 839761 &= 1 + (6^7 - 9) \times 3 - F(8) \\
 839762 &= 2 + (6^7 - 9) \times 3 - F(8) \\
 839763 &= 3 + (6^7 - 9) \times 3 - F(8) \\
 839764 &= 4 + (6^7 - 9) \times 3 - F(8) \\
 839765 &= 5 + (6^7 - 9) \times 3 - F(8) \\
 839766 &= 6 + (6^7 - 9) \times 3 - F(8) \\
 839767 &= 7 + (6^7 - 9) \times 3 - F(8) \\
 839768 &= 8 + (6^7 - 9) \times 3 - F(8) \\
 839769 &= 9 + (6^7 - 9) \times 3 - F(8).
 \end{aligned}$$

$$\begin{aligned}
 974780 &= 0 + F(8 + 7) \times 47 \times F(9) \\
 974781 &= 1 + F(8 + 7) \times 47 \times F(9) \\
 974782 &= 2 + F(8 + 7) \times 47 \times F(9) \\
 974783 &= 3 + F(8 + 7) \times 47 \times F(9) \\
 974784 &= 4 + F(8 + 7) \times 47 \times F(9) \\
 974785 &= 5 + F(8 + 7) \times 47 \times F(9) \\
 974786 &= 6 + F(8 + 7) \times 47 \times F(9) \\
 974787 &= 7 + F(8 + 7) \times 47 \times F(9) \\
 974788 &= 8 + F(8 + 7) \times 47 \times F(9) \\
 974789 &= 9 + F(8 + 7) \times 47 \times F(9).
 \end{aligned}$$

4 Symmetric Representations in terms of F(2), F(3) and F(4)

In the previous section, we gave symmetric numbers as blocks of 10. Since, F(2)=1, F(3)=2 and F(4)=3, still we can have symmetric numbers as blocks of 3. Similar to previous section, here also we have symmetric numbers in order of digits and its reverse. There are numbers those can be written in both the ways. The work is limited upto 6 digits. These are given in subsections below.

4.1 Symmetric Representations in Both Ways

Below are symmetric numbers in F(2), F(3) and F(4) in both ways, i.e., in digit's order and its reverse.

$$\begin{aligned}
 6562 &= (F(6) - 5)^{F(6)} + F(2) = F(2) + (F(6) - 5)^{F(6)} \\
 6563 &= (F(6) - 5)^{F(6)} + F(3) = F(3) + (F(6) - 5)^{F(6)} \\
 6564 &= (F(6) - 5)^{F(6)} + F(4) = F(4) + (F(6) - 5)^{F(6)}.
 \end{aligned}$$

$$\begin{aligned}43772 &= 4 \times F(3 \times 7) - F(7) + F(2) = F(2) - F(7) + F(7 \times 3) \times 4 \\43773 &= 4 \times F(3 \times 7) - F(7) + F(3) = F(3) - F(7) + F(7 \times 3) \times 4 \\43774 &= 4 \times F(3 \times 7) - F(7) + F(4) = F(4) - F(7) + F(7 \times 3) \times 4.\end{aligned}$$

$$\begin{aligned}73792 &= (7 + F(3)^{F(7)}) \times 9 + F(2) = F(2) + 9 \times (7 + F(3)^{F(7)}) \\73793 &= (7 + F(3)^{F(7)}) \times 9 + F(3) = F(3) + 9 \times (7 + F(3)^{F(7)}) \\73794 &= (7 + F(3)^{F(7)}) \times 9 + F(4) = F(4) + 9 \times (7 + F(3)^{F(7)}).\end{aligned}$$

$$\begin{aligned}147492 &= ((1 \times 4)^7 + 4) \times 9 \times F(2) = F(2) + 9 \times (4^7 + 4) - 1 \\147493 &= ((1 \times 4)^7 + 4) \times 9 \times F(3) = F(3) + 9 \times (4^7 + 4) - 1 \\147494 &= ((1 \times 4)^7 + 4) \times 9 \times F(4) = F(4) + 9 \times (4^7 + 4) - 1.\end{aligned}$$

$$\begin{aligned}229972 &= F(2 + 2 + 9) \times F(9 + 7) + F(2) = F(2) + F(7 + 9) \times F(9 + 2 + 2) \\229973 &= F(2 + 2 + 9) \times F(9 + 7) + F(3) = F(3) + F(7 + 9) \times F(9 + 2 + 2) \\229974 &= F(2 + 2 + 9) \times F(9 + 7) + F(4) = F(4) + F(7 + 9) \times F(9 + 2 + 2).\end{aligned}$$

$$\begin{aligned}297382 &= (2 + 9 \times F(7))^{F(3)} \times F(8) + F(2) = F(2) + F(8) \times (F(3)^7 - 9)^2 \\297383 &= (2 + 9 \times F(7))^{F(3)} \times F(8) + F(3) = F(3) + F(8) \times (F(3)^7 - 9)^2 \\297384 &= (2 + 9 \times F(7))^{F(3)} \times F(8) + F(4) = F(4) + F(8) \times (F(3)^7 - 9)^2.\end{aligned}$$

$$\begin{aligned}531442 &= (5 - F(3))^{(-1+4) \times 4} + F(2) = F(2) + F(4)^{4 \times 1 + 3 + 5} \\531443 &= (5 - F(3))^{(-1+4) \times 4} + F(3) = F(3) + F(4)^{4 \times 1 + 3 + 5} \\531444 &= (5 - F(3))^{(-1+4) \times 4} + F(4) = F(4) + F(4)^{4 \times 1 + 3 + 5}.\end{aligned}$$

$$\begin{aligned}832062 &= F(8) + F((3 + 2) \times 06) + F(2) = F(2) + F(6 \times (02 + 3)) + F(8) \\832063 &= F(8) + F((3 + 2) \times 06) + F(3) = F(3) + F(6 \times (02 + 3)) + F(8) \\832064 &= F(8) + F((3 + 2) \times 06) + F(4) = F(4) + F(6 \times (02 + 3)) + F(8).\end{aligned}$$

$$\begin{aligned}953332 &= (-F(9) + F(-5 + 33)) \times 3 + F(2) = F(2) + 3 \times (F(33 - 5) - F(9)) \\953333 &= (-F(9) + F(-5 + 33)) \times 3 + F(3) = F(3) + 3 \times (F(33 - 5) - F(9)) \\953334 &= (-F(9) + F(-5 + 33)) \times 3 + F(4) = F(4) + 3 \times (F(33 - 5) - F(9)).\end{aligned}$$

4.2 Symmetric Representations in Digit's Order

Below are symmetric numbers in F(2), F(3) and F(4) in digit's order.

$$\begin{aligned}117682 &= 11 + 7^6 + F(8) + F(2) \\117683 &= 11 + 7^6 + F(8) + F(3) \\117684 &= 11 + 7^6 + F(8) + F(4).\end{aligned}$$

$$\begin{aligned}143642 &= (F(14) + F(3))^{6-4} + F(2) \\143643 &= (F(14) + F(3))^{6-4} + F(3) \\143644 &= (F(14) + F(3))^{6-4} + F(4).\end{aligned}$$

$$\begin{aligned}142642 &= F(14)^2 + F(6)^{F(4)} + F(2) \\142643 &= F(14)^2 + F(6)^{F(4)} + F(3) \\142644 &= F(14)^2 + F(6)^{F(4)} + F(4).\end{aligned}$$

$$\begin{aligned}144392 &= (F(14) + F(4))^{F(3)} - 9 + F(2) \\144393 &= (F(14) + F(4))^{F(3)} - 9 + F(3) \\144394 &= (F(14) + F(4))^{F(3)} - 9 + F(4).\end{aligned}$$

$$161052 = (1^6 + 10)^5 + F(2)$$

$$161053 = (1^6 + 10)^5 + F(3)$$

$$161054 = (1^6 + 10)^5 + F(4).$$

$$162362 = (F(16)^2 - 3)/6 + F(2)$$

$$162363 = (F(16)^2 - 3)/6 + F(3)$$

$$162364 = (F(16)^2 - 3)/6 + F(4).$$

$$261122 = (2^{F(6)+1} - 1)^2 + F(2)$$

$$261123 = (2^{F(6)+1} - 1)^2 + F(3)$$

$$261124 = (2^{F(6)+1} - 1)^2 + F(4).$$

$$317852 = F((3 + 1) \times 7) + 8 \times 5 + F(2)$$

$$317853 = F((3 + 1) \times 7) + 8 \times 5 + F(3)$$

$$317854 = F((3 + 1) \times 7) + 8 \times 5 + F(4).$$

$$317902 = F((3 + 1) \times 7) + 90 + F(2)$$

$$317903 = F((3 + 1) \times 7) + 90 + F(3)$$

$$317904 = F((3 + 1) \times 7) + 90 + F(4).$$

$$371932 = 3 \times 7 \times F(19 + 3) + F(2)$$

$$371933 = 3 \times 7 \times F(19 + 3) + F(3)$$

$$371934 = 3 \times 7 \times F(19 + 3) + F(4).$$

$$670562 = 6^7 + 05^{F(6)} + F(2)$$

$$670563 = 6^7 + 05^{F(6)} + F(3)$$

$$670564 = 6^7 + 05^{F(6)} + F(4).$$

$$741322 = (7 \times 41 \times 3)^2 + F(2)$$

$$741323 = (7 \times 41 \times 3)^2 + F(3)$$

$$741324 = (7 \times 41 \times 3)^2 + F(4).$$

$$786392 = -7 + 8^6 \times 3 - F(9) + F(2)$$

$$786393 = -7 + 8^6 \times 3 - F(9) + F(3)$$

$$786394 = -7 + 8^6 \times 3 - F(9) + F(4).$$

$$786442 = (7 + 8^6 - 4) \times F(4) + F(2)$$

$$786443 = (7 + 8^6 - 4) \times F(4) + F(3)$$

$$786444 = (7 + 8^6 - 4) \times F(4) + F(4).$$

$$786462 = (7 + 8^6) * F(4) + F(6) + F(2)$$

$$786463 = (7 + 8^6) * F(4) + F(6) + F(3)$$

$$786464 = (7 + 8^6) * F(4) + F(6) + F(4).$$

$$786472 = (F(7) + 8^6) \times (-4 + 7) + F(2)$$

$$786473 = (F(7) + 8^6) \times (-4 + 7) + F(3)$$

$$786474 = (F(7) + 8^6) \times (-4 + 7) + F(4).$$

$$832482 = F(8)^{F(3)} + F(-2 + 4 * 8) + F(2)$$

$$832483 = F(8)^{F(3)} + F(-2 + 4 * 8) + F(3)$$

$$832484 = F(8)^{F(3)} + F(-2 + 4 * 8) + F(4).$$

$$849752 = F(8)/F(4) \times F(-9 + 7 \times 5) + F(2)$$

$$849753 = F(8)/F(4) \times F(-9 + 7 \times 5) + F(3)$$

$$849754 = F(8)/F(4) \times F(-9 + 7 \times 5) + F(4).$$

$$923522 = (F(9) - F(2) - F(3))^{5-F(2)} + F(2)$$

$$923523 = (F(9) - F(2) - F(3))^{5-F(2)} + F(3)$$

$$923524 = (F(9) - F(2) - F(3))^{5-F(2)} + F(4).$$

$$974162 = F(9 + 7)^{F(4-1)} - F(6) + F(2)$$

$$974163 = F(9 + 7)^{F(4-1)} - F(6) + F(3)$$

$$974164 = F(9 + 7)^{F(4-1)} - F(6) + F(4).$$

$$975252 = -9 + F(7) * (-5 + F(25)) + F(2)$$

$$975253 = -9 + F(7) * (-5 + F(25)) + F(3)$$

$$975254 = -9 + F(7) * (-5 + F(25)) + F(4).$$

4.3 Symmetric Representations in Reverse Order of Digits

Below are symmetric numbers in $F(2)$, $F(3)$ and $F(4)$ in reverse order of digits.

$$15592 = F(2) - F(9) + 5^{5+1}$$

$$15593 = F(3) - F(9) + 5^{5+1}$$

$$15594 = F(4) - F(9) + 5^{5+1}.$$

$$28562 = F(2) + (F(6) + 5)^{8/2}$$

$$28563 = F(3) + (F(6) + 5)^{8/2}$$

$$28564 = F(4) + (F(6) + 5)^{8/2}.$$

$$\begin{aligned} 39292 &= F(2) - F(9 - 2) + F(9)^3 \\ 39293 &= F(3) - F(9 - 2) + F(9)^3 \\ 39294 &= F(4) - F(9 - 2) + F(9)^3. \end{aligned}$$

$$\begin{aligned} 39682 &= F(2) + F(8 + 6) + F(9)^3 \\ 39683 &= F(3) + F(8 + 6) + F(9)^3 \\ 39684 &= F(4) + F(8 + 6) + F(9)^3. \end{aligned}$$

$$\begin{aligned} 46372 &= F(2) + F(7 - 3) + F(6 \times 4) \\ 46373 &= F(3) + F(7 - 3) + F(6 \times 4) \\ 46374 &= F(4) + F(7 - 3) + F(6 \times 4). \end{aligned}$$

$$\begin{aligned} 170472 &= F(2) + 7^4 \times 071 \\ 170473 &= F(3) + 7^4 \times 071 \\ 170474 &= F(4) + 7^4 \times 071. \end{aligned}$$

$$\begin{aligned} 194482 &= F(2) + F(8)^{F(4) \times 4 - 9 + 1} \\ 194483 &= F(3) + F(8)^{F(4) \times 4 - 9 + 1} \\ 194484 &= F(4) + F(8)^{F(4) \times 4 - 9 + 1}. \end{aligned}$$

$$\begin{aligned} 226982 &= F(2) + (F(8) + F(9) + 6)^{F(2+2)} \\ 226983 &= F(3) + (F(8) + F(9) + 6)^{F(2+2)} \\ 226984 &= F(4) + (F(8) + F(9) + 6)^{F(2+2)}. \end{aligned}$$

$$\begin{aligned} 276342 &= F(2) + (4 + 3^6) \times F(7 \times 2) \\ 276343 &= F(3) + (4 + 3^6) \times F(7 \times 2) \\ 276344 &= F(4) + (4 + 3^6) \times F(7 \times 2). \end{aligned}$$

$$\begin{aligned} 292682 &= F(2) + (F(8) + F(6) + 2^9)^2 \\ 292683 &= F(3) + (F(8) + F(6) + 2^9)^2 \\ 292684 &= F(4) + (F(8) + F(6) + 2^9)^2. \end{aligned}$$

$$\begin{aligned} 337562 &= F(2) + (F(6) + 573)^{F(3)} \\ 337563 &= F(3) + (F(6) + 573)^{F(3)} \\ 337564 &= F(4) + (F(6) + 573)^{F(3)}. \end{aligned}$$

$$\begin{aligned} 357912 &= F(2) + (-1 + 9 \times (F(7) - 5))^3 \\ 357913 &= F(3) + (-1 + 9 \times (F(7) - 5))^3 \\ 357914 &= F(4) + (-1 + 9 \times (F(7) - 5))^3. \end{aligned}$$

$$\begin{aligned} 390592 &= F(2) - F(9) + 5^{F(09-3)} \\ 390593 &= F(3) - F(9) + 5^{F(09-3)} \\ 390594 &= F(4) - F(9) + 5^{F(09-3)}. \end{aligned}$$

$$\begin{aligned} 514232 &= F(2) + F(3) + F(24 + 5) \\ 514233 &= F(3) + F(3) + F(24 + 5) \\ 514234 &= F(4) + F(3) + F(24 + 5). \end{aligned}$$

$$\begin{aligned} 599782 &= F(2) + F(8) \times F(7)^{-9/9+5} \\ 599783 &= F(3) + F(8) \times F(7)^{-9/9+5} \\ 599784 &= F(4) + F(8) \times F(7)^{-9/9+5}. \end{aligned}$$

$$\begin{aligned} 688562 &= F(2) + (F(6)^5 + F(8)) \times F(8) - F(6) \\ 688563 &= F(3) + (F(6)^5 + F(8)) \times F(8) - F(6) \\ 688564 &= F(4) + (F(6)^5 + F(8)) \times F(8) - F(6). \end{aligned}$$

$$\begin{aligned} 734812 &= F(2) + (18^4 - 3) \times 7 \\ 734813 &= F(3) + (18^4 - 3) \times 7 \\ 734814 &= F(4) + (18^4 - 3) \times 7. \end{aligned}$$

$$\begin{aligned} 803472 &= F(2) - F(7)^4 + F(30) - 8 \\ 803473 &= F(3) - F(7)^4 + F(30) - 8 \\ 803474 &= F(4) - F(7)^4 + F(30) - 8. \end{aligned}$$

$$\begin{aligned} 823572 &= F(2) + 7^{5+F(3)} + 28 \\ 823573 &= F(3) + 7^{5+F(3)} + 28 \\ 823574 &= F(4) + 7^{5+F(3)} + 28. \end{aligned}$$

$$\begin{aligned} 944812 &= F(2) + (18^4 + F(4)) \times 9 \\ 944813 &= F(3) + (18^4 + F(4)) \times 9 \\ 944814 &= F(4) + (18^4 + F(4)) \times 9. \end{aligned}$$

5 Number Patterns with Fibonacci Sequence Values

There are numbers that can be extended just multiplying by 10 without loss of properties of numbers. This type we call as *number patterns*. This section deals with numbers patterns in selfie numbers having Fibonacci sequence values. This kind of numbers are only in terms of digit's order.

$$\begin{aligned}
84 &= F(8) \times 4 \\
840 &= F(8) \times 40 \\
8400 &= F(8) \times 400. \\
189 &= 1 \times F(8) \times 9 \\
1890 &= 1 \times F(8) \times 90 \\
18900 &= 1 \times F(8) \times 900. \\
882 &= F(8) \times F(8) \times 2 \\
8820 &= F(8) \times F(8) \times 20 \\
88200 &= F(8) \times F(8) \times 200. \\
1525 &= F(15)/2 \times 5 \\
15250 &= F(15)/2 \times 50 \\
152500 &= F(15)/2 \times 500. \\
1645 &= F(16)/F(4) \times 5 \\
16450 &= F(16)/F(4) \times 50 \\
164500 &= F(16)/F(4) \times 500. \\
1785 &= F(1+7) \times 85 \\
17850 &= F(1+7) \times 850 \\
178500 &= F(1+7) \times 8500. \\
1897 &= (-1 + 8 \times F(9)) \times 7 \\
18970 &= (-1 + 8 \times F(9)) \times 70 \\
189700 &= (-1 + 8 \times F(9)) \times 700. \\
1972 &= (-1 + F(9+7)) \times 2 \\
19720 &= (-1 + F(9+7)) \times 20 \\
197200 &= (-1 + F(9+7)) \times 200. \\
1995 &= F(-1+9) \times 95 \\
19950 &= F(-1+9) \times 950 \\
199500 &= F(-1+9) \times 9500. \\
2688 &= 2 \times F(6) \times F(8) \times 8 \\
26880 &= 2 \times F(6) \times F(8) \times 80 \\
268800 &= 2 \times F(6) \times F(8) \times 800. \\
2744 &= 2 \times 7^{F(4)} \times 4 \\
27440 &= 2 \times 7^{F(4)} \times 40 \\
274400 &= 2 \times 7^{F(4)} \times 400. \\
3495 &= 3 \times F(4+9) \times 5 \\
34950 &= 3 \times F(4+9) \times 50 \\
349500 &= 3 \times F(4+9) \times 500. \\
3528 &= F(3+5)^2 \times 8 \\
35280 &= F(3+5)^2 \times 80 \\
352800 &= F(3+5)^2 \times 800. \\
3635 &= (3^6 - F(3)) \times 5 \\
36350 &= (3^6 - F(3)) \times 50 \\
363500 &= (3^6 - F(3)) \times 500. \\
3645 &= (3+6)^{F(4)} \times 5 \\
36450 &= (3+6)^{F(4)} \times 50 \\
364500 &= (3+6)^{F(4)} \times 500. \\
4455 &= F(4)^4 \times 55 \\
44550 &= F(4)^4 \times 550 \\
445500 &= F(4)^4 \times 5500. \\
4896 &= F(4) \times 8 \times F(9) \times 6 \\
48960 &= F(4) \times 8 \times F(9) \times 60 \\
489600 &= F(4) \times 8 \times F(9) \times 600. \\
4935 &= F(4+9+3) \times 5 \\
49350 &= F(4+9+3) \times 50 \\
493500 &= F(4+9+3) \times 500. \\
5825 &= F(5+8) \times 25 \\
58250 &= F(5+8) \times 250 \\
582500 &= F(5+8) \times 2500. \\
6561 &= (F(6)-5)^{F(6)} \times 1 \\
65610 &= (F(6)-5)^{F(6)} \times 10 \\
656100 &= (F(6)-5)^{F(6)} \times 100. \\
9248 &= F(9)^{-2+4} \times 8 \\
92480 &= F(9)^{-2+4} \times 80 \\
924800 &= F(9)^{-2+4} \times 800. \\
11125 &= F(11) \times 125 \\
111250 &= F(11) \times 1250 \\
1112500 &= F(11) \times 12500. \\
11264 &= 11 \times 2^{F(6)} \times 4 \\
112640 &= 11 \times 2^{F(6)} \times 40 \\
1126400 &= 11 \times 2^{F(6)} \times 400.
\end{aligned}$$

$$\begin{aligned}11837 &= F(11) \times (F(8) - F(3)) \times 7 \\118370 &= F(11) \times (F(8) - F(3)) \times 70 \\1183700 &= F(11) \times (F(8) - F(3)) \times 700.\end{aligned}$$

$$\begin{aligned}11844 &= F((1 + 1) \times 8) \times F(4) \times 4 \\118440 &= F((1 + 1) \times 8) \times F(4) \times 40 \\1184400 &= F((1 + 1) \times 8) \times F(4) \times 400.\end{aligned}$$

$$\begin{aligned}12543 &= F((1 + 2) \times 5 + 4) \times 3 \\125430 &= F((1 + 2) \times 5 + 4) \times 30 \\1254300 &= F((1 + 2) \times 5 + 4) \times 300.\end{aligned}$$

$$\begin{aligned}12915 &= (-1 + F(2 \times 9)) \times 1 \times 5 \\129150 &= (-1 + F(2 \times 9)) \times 1 \times 50 \\1291500 &= (-1 + F(2 \times 9)) \times 1 \times 500.\end{aligned}$$

$$\begin{aligned}12925 &= (1^2 + F(9 \times 2)) \times 5 \\129250 &= (1^2 + F(9 \times 2)) \times 50 \\1292500 &= (1^2 + F(9 \times 2)) \times 500.\end{aligned}$$

$$\begin{aligned}12935 &= (F(1 \times 2 \times 9) + 3) \times 5 \\129350 &= (F(1 \times 2 \times 9) + 3) \times 50 \\1293500 &= (F(1 \times 2 \times 9) + 3) \times 500.\end{aligned}$$

$$\begin{aligned}12945 &= (1 + F(2 \times 9) + 4) \times 5 \\129450 &= (1 + F(2 \times 9) + 4) \times 50 \\1294500 &= (1 + F(2 \times 9) + 4) \times 500.\end{aligned}$$

$$\begin{aligned}12965 &= (1 + F(2 \times 9) + F(6)) \times 5 \\129650 &= (1 + F(2 \times 9) + F(6)) \times 50 \\1296500 &= (1 + F(2 \times 9) + F(6)) \times 500.\end{aligned}$$

$$\begin{aligned}14703 &= F(14) \times F(7) \times 03 \\147030 &= F(14) \times F(7) \times 030 \\1470300 &= F(14) \times F(7) \times 0300.\end{aligned}$$

$$\begin{aligned}15225 &= (F(15) - F(2)) \times 25 \\152250 &= (F(15) - F(2)) \times 250 \\1522500 &= (F(15) - F(2)) \times 2500.\end{aligned}$$

$$\begin{aligned}15325 &= (F(15) + 3) \times 25 \\153250 &= (F(15) + 3) \times 250 \\1532500 &= (F(15) + 3) \times 2500.\end{aligned}$$

$$\begin{aligned}15792 &= F(1 + 5) \times F(7 + 9) \times 2 \\157920 &= F(1 + 5) \times F(7 + 9) \times 20 \\1579200 &= F(1 + 5) \times F(7 + 9) \times 200.\end{aligned}$$

$$\begin{aligned}16724 &= F(-1 + 6 + 7 \times 2) \times 4 \\167240 &= F(-1 + 6 + 7 \times 2) \times 40 \\1672400 &= F(-1 + 6 + 7 \times 2) \times 400.\end{aligned}$$

$$\begin{aligned}17475 &= F(17 - 4) \times 75 \\174750 &= F(17 - 4) \times 750 \\1747500 &= F(17 - 4) \times 7500.\end{aligned}$$

$$\begin{aligned}18277 &= (F(18) + 27) \times 7 \\182770 &= (F(18) + 27) \times 70 \\1827700 &= (F(18) + 27) \times 700.\end{aligned}$$

$$\begin{aligned}18482 &= (1 + F(8)^{F(4)} - F(8)) \times 2 \\184820 &= (1 + F(8)^{F(4)} - F(8)) \times 20 \\1848200 &= (1 + F(8)^{F(4)} - F(8)) \times 200.\end{aligned}$$

$$\begin{aligned}18522 &= 1 \times F(8)^{5-2} \times 2 \\185220 &= 1 \times F(8)^{5-2} \times 20 \\1852200 &= 1 \times F(8)^{5-2} \times 200.\end{aligned}$$

$$\begin{aligned}19552 &= (-1 + F(9 + 5)) \times 52 \\195520 &= (-1 + F(9 + 5)) \times 520 \\1955200 &= (-1 + F(9 + 5)) \times 5200.\end{aligned}$$

$$\begin{aligned}19745 &= (1 + F(9 + 7) \times 4) \times 5 \\197450 &= (1 + F(9 + 7) \times 4) \times 50 \\1974500 &= (1 + F(9 + 7) \times 4) \times 500.\end{aligned}$$

$$\begin{aligned}19845 &= F(-1 + 9) \times F(8) \times 45 \\198450 &= F(-1 + 9) \times F(8) \times 450 \\1984500 &= F(-1 + 9) \times F(8) \times 4500.\end{aligned}$$

$$\begin{aligned}19986 &= (-1 + F(9) \times 98) \times 6 \\199860 &= (-1 + F(9) \times 98) \times 60 \\1998600 &= (-1 + F(9) \times 98) \times 600.\end{aligned}$$

$$\begin{aligned}20193 &= (F(20) \times 1 - F(9)) \times 3 \\201930 &= (F(20) \times 1 - F(9)) \times 30 \\2019300 &= (F(20) \times 1 - F(9)) \times 300.\end{aligned}$$

$$\begin{aligned}20343 &= (F(20) + F(3)^4) \times 3 \\203430 &= (F(20) + F(3)^4) \times 30 \\2034300 &= (F(20) + F(3)^4) \times 300.\end{aligned}$$

$$\begin{aligned}20373 &= (F(20) + F(3) \times F(7)) \times 3 \\203730 &= (F(20) + F(3) \times F(7)) \times 30 \\2037300 &= (F(20) + F(3) \times F(7)) \times 300.\end{aligned}$$

$$\begin{aligned} 21842 &= (F(21) - F(8) - 4) \times 2 \\ 218420 &= (F(21) - F(8) - 4) \times 20 \\ 2184200 &= (F(21) - F(8) - 4) \times 200. \end{aligned}$$

$$\begin{aligned} 21862 &= (F(21) - F(8) + 6) \times 2 \\ 218620 &= (F(21) - F(8) + 6) \times 20 \\ 2186200 &= (F(21) - F(8) + 6) \times 200. \end{aligned}$$

$$\begin{aligned} 21892 &= F(21) \times (-8 + 9) \times 2 \\ 218920 &= F(21) \times (-8 + 9) \times 20 \\ 2189200 &= F(21) \times (-8 + 9) \times 200. \end{aligned}$$

$$\begin{aligned} 21912 &= (F(21) + 9 + 1) \times 2 \\ 219120 &= (F(21) + 9 + 1) \times 20 \\ 2191200 &= (F(21) + 9 + 1) \times 200. \end{aligned}$$

$$\begin{aligned} 22995 &= (-F(2) + 2^9) \times 9 \times 5 \\ 229950 &= (-F(2) + 2^9) \times 9 \times 50 \\ 2299500 &= (-F(2) + 2^9) \times 9 \times 500. \end{aligned}$$

$$\begin{aligned} 23826 &= (2 + (3 \times F(8))^2) \times 6 \\ 238260 &= (2 + (3 \times F(8))^2) \times 60 \\ 2382600 &= (2 + (3 \times F(8))^2) \times 600. \end{aligned}$$

$$\begin{aligned} 24255 &= F(2 \times 4)^2 \times 55 \\ 242550 &= F(2 \times 4)^2 \times 550 \\ 2425500 &= F(2 \times 4)^2 \times 5500. \end{aligned}$$

$$\begin{aligned} 24573 &= (-F(2) + (-F(4) + 5)^{F(7)}) \times 3 \\ 245730 &= (-F(2) + (-F(4) + 5)^{F(7)}) \times 30 \\ 2457300 &= (-F(2) + (-F(4) + 5)^{F(7)}) \times 300. \end{aligned}$$

$$\begin{aligned} 24675 &= F(2^4) \times (-F(6) + F(7)) \times 5 \\ 246750 &= F(2^4) \times (-F(6) + F(7)) \times 50 \\ 2467500 &= F(2^4) \times (-F(6) + F(7)) \times 500. \end{aligned}$$

$$\begin{aligned} 24997 &= (F(2^4) + F(9 + 9)) \times 7 \\ 249970 &= (F(2^4) + F(9 + 9)) \times 70 \\ 2499700 &= (F(2^4) + F(9 + 9)) \times 700. \end{aligned}$$

$$\begin{aligned} 26244 &= (F(2) + 6 + 2)^4 \times 4 \\ 262440 &= (F(2) + 6 + 2)^4 \times 40 \\ 2624400 &= (F(2) + 6 + 2)^4 \times 400. \end{aligned}$$

$$\begin{aligned} 26411 &= (F(2) + 6)^4 \times 11 \\ 264110 &= (F(2) + 6)^4 \times 110 \\ 2641100 &= (F(2) + 6)^4 \times 1100. \end{aligned}$$

$$\begin{aligned} 26855 &= (2^{F(6)} \times F(8) - 5) \times 5 \\ 268550 &= (2^{F(6)} \times F(8) - 5) \times 50 \\ 2685500 &= (2^{F(6)} \times F(8) - 5) \times 500. \end{aligned}$$

$$\begin{aligned} 27675 &= (F(2 \times 7) - F(6)) \times 75 \\ 276750 &= (F(2 \times 7) - F(6)) \times 750 \\ 2767500 &= (F(2 \times 7) - F(6)) \times 7500. \end{aligned}$$

$$\begin{aligned} 28275 &= F(2 \times 8 - 2) \times 75 \\ 282750 &= F(2 \times 8 - 2) \times 750 \\ 2827500 &= F(2 \times 8 - 2) \times 7500. \end{aligned}$$

$$\begin{aligned} 28288 &= (F(2) + F(8)^2) \times 8 \times 8 \\ 282880 &= (F(2) + F(8)^2) \times 8 \times 80 \\ 2828800 &= (F(2) + F(8)^2) \times 8 \times 800. \end{aligned}$$

$$\begin{aligned} 28672 &= 2^8 \times F(6) \times 7 \times 2 \\ 286720 &= 2^8 \times F(6) \times 7 \times 20 \\ 2867200 &= 2^8 \times F(6) \times 7 \times 200. \end{aligned}$$

$$\begin{aligned} 28746 &= F(2 + 8 + 7) \times F(4) \times 6 \\ 287460 &= F(2 + 8 + 7) \times F(4) \times 60 \\ 2874600 &= F(2 + 8 + 7) \times F(4) \times 600. \end{aligned}$$

$$\begin{aligned} 29197 &= (-F(2) - 9 + F(19)) \times 7 \\ 291970 &= (-F(2) - 9 + F(19)) \times 70 \\ 2919700 &= (-F(2) - 9 + F(19)) \times 700. \end{aligned}$$

$$\begin{aligned} 29989 &= F(2) + F(9) \times 98 \times 9 \\ 299890 &= F(2) + F(9) \times 98 \times 90 \\ 2998900 &= F(2) + F(9) \times 98 \times 900. \end{aligned}$$

$$\begin{aligned} 31648 &= (F(3) + F(16)) \times 4 \times 8 \\ 316480 &= (F(3) + F(16)) \times 4 \times 80 \\ 3164800 &= (F(3) + F(16)) \times 4 \times 800. \end{aligned}$$

$$\begin{aligned} 32744 &= (-F(3) + 2^{F(7)} - 4) \times 4 \\ 327440 &= (-F(3) + 2^{F(7)} - 4) \times 40 \\ 3274400 &= (-F(3) + 2^{F(7)} - 4) \times 400. \end{aligned}$$

$$\begin{aligned} 32747 &= F(3)^{2+F(7)} - F(4) \times 7 \\ 327470 &= F(3)^{2+F(7)} - F(4) \times 70 \\ 3274700 &= F(3)^{2+F(7)} - F(4) \times 700. \end{aligned}$$

$$\begin{aligned}
32753 &= F(3)^{2+F(7)} - 5 \times 3 \\
327530 &= F(3)^{2+F(7)} - 5 \times 30 \\
3275300 &= F(3)^{2+F(7)} - 5 \times 300. \\
32805 &= (F(3) + F(2))^8 \times 05 \\
328050 &= (F(3) + F(2))^8 \times 050 \\
3280500 &= (F(3) + F(2))^8 \times 0500. \\
33448 &= F(3^3 - 4 - 4) \times 8 \\
334480 &= F(3^3 - 4 - 4) \times 80 \\
3344800 &= F(3^3 - 4 - 4) \times 800. \\
33785 &= (F(3^3 - 7) - 8) \times 5 \\
337850 &= (F(3^3 - 7) - 8) \times 50 \\
3378500 &= (F(3^3 - 7) - 8) \times 500. \\
34475 &= (-F(3) + F(4 \times 4)) \times 7 \times 5 \\
344750 &= (-F(3) + F(4 \times 4)) \times 7 \times 50 \\
3447500 &= (-F(3) + F(4 \times 4)) \times 7 \times 500. \\
34545 &= (F(3 \times 4) + F(5 \times 4)) \times 5 \\
345450 &= (F(3 \times 4) + F(5 \times 4)) \times 50 \\
3454500 &= (F(3 \times 4) + F(5 \times 4)) \times 500. \\
36992 &= F(3) \times F(6) \times F(9) \times F(9) \times 2 \\
369920 &= F(3) \times F(6) \times F(9) \times F(9) \times 20 \\
3699200 &= F(3) \times F(6) \times F(9) \times F(9) \times 200. \\
36994 &= F(3) + F(6) \times F(9) \times F(9) \times 4 \\
369940 &= F(3) + F(6) \times F(9) \times F(9) \times 40 \\
3699400 &= F(3) + F(6) \times F(9) \times F(9) \times 400. \\
37044 &= (3 \times 7)^{F(04)} \times 4 \\
370440 &= (3 \times 7)^{F(04)} \times 40 \\
3704400 &= (3 \times 7)^{F(04)} \times 400. \\
38675 &= (F(3 \times 8)/6 + 7) \times 5 \\
386750 &= (F(3 \times 8)/6 + 7) \times 50 \\
3867500 &= (F(3 \times 8)/6 + 7) \times 500. \\
39282 &= (3^9 - 2 \times F(8)) \times 2 \\
392820 &= (3^9 - 2 \times F(8)) \times 20 \\
3928200 &= (3^9 - 2 \times F(8)) \times 200. \\
39301 &= -3 + F(9)^3 \times 01 \\
393010 &= -3 + F(9)^3 \times 010 \\
3930100 &= -3 + F(9)^3 \times 0100. \\
39352 &= (3^9 - F(3) - 5) \times 2 \\
393520 &= (3^9 - F(3) - 5) \times 20 \\
3935200 &= (3^9 - F(3) - 5) \times 200. \\
39984 &= 3 \times F(9) \times 98 \times 4 \\
399840 &= 3 \times F(9) \times 98 \times 40 \\
3998400 &= 3 \times F(9) \times 98 \times 400. \\
42336 &= (4 \times F(2^3))^{F(3)} \times 6 \\
423360 &= (4 \times F(2^3))^{F(3)} \times 60 \\
4233600 &= (4 \times F(2^3))^{F(3)} \times 600. \\
44415 &= F(4) \times F(4 \times 4) \times 15 \\
444150 &= F(4) \times F(4 \times 4) \times 150 \\
4441500 &= F(4) \times F(4 \times 4) \times 1500. \\
45696 &= 4 \times 56 \times F(9) \times 6 \\
456960 &= 4 \times 56 \times F(9) \times 60 \\
4569600 &= 4 \times 56 \times F(9) \times 600. \\
46137 &= F(4) \times F(6 + 1)^3 \times 7 \\
461370 &= F(4) \times F(6 + 1)^3 \times 70 \\
4613700 &= F(4) \times F(6 + 1)^3 \times 700. \\
46353 &= (F(4 \times 6)/3 - 5) \times 3 \\
463530 &= (F(4 \times 6)/3 - 5) \times 30 \\
4635300 &= (F(4 \times 6)/3 - 5) \times 300. \\
46865 &= (F(4)^6 - 8) \times 65 \\
468650 &= (F(4)^6 - 8) \times 650 \\
4686500 &= (F(4)^6 - 8) \times 6500. \\
47327 &= (-4 + F((7 + 3) \times 2)) \times 7 \\
473270 &= (-4 + F((7 + 3) \times 2)) \times 70 \\
4732700 &= (-4 + F((7 + 3) \times 2)) \times 700. \\
47365 &= (-4 + F(7) \times 3^6) \times 5 \\
473650 &= (-4 + F(7) \times 3^6) \times 50 \\
4736500 &= (-4 + F(7) \times 3^6) \times 500. \\
47526 &= F(4 + 7)^{F(5-2)} \times 6 \\
475260 &= F(4 + 7)^{F(5-2)} \times 60 \\
4752600 &= F(4 + 7)^{F(5-2)} \times 600.
\end{aligned}$$

$$\begin{aligned}48384 &= (F(4) \times 8)^{F(3)} \times 84 \\483840 &= (F(4) \times 8)^{F(3)} \times 840 \\4838400 &= (F(4) \times 8)^{F(3)} \times 8400.\end{aligned}$$

$$\begin{aligned}49368 &= (-F(4) + 9^3) \times 68 \\493680 &= (-F(4) + 9^3) \times 680 \\4936800 &= (-F(4) + 9^3) \times 6800.\end{aligned}$$

$$\begin{aligned}49923 &= (F(4) \times (9 + F(9)))^2 \times 3 \\499230 &= (F(4) \times (9 + F(9)))^2 \times 30 \\4992300 &= (F(4) \times (9 + F(9)))^2 \times 300.\end{aligned}$$

$$\begin{aligned}53133 &= F(5^{3-1} - 3) \times 3 \\531330 &= F(5^{3-1} - 3) \times 30 \\5313300 &= F(5^{3-1} - 3) \times 300.\end{aligned}$$

$$\begin{aligned}53488 &= (5^3 + F(4)^8) \times 8 \\534880 &= (5^3 + F(4)^8) \times 80 \\5348800 &= (5^3 + F(4)^8) \times 800.\end{aligned}$$

$$\begin{aligned}54128 &= (F(5 \times 4) \times 1 + F(2)) \times 8 \\541280 &= (F(5 \times 4) \times 1 + F(2)) \times 80 \\5412800 &= (F(5 \times 4) \times 1 + F(2)) \times 800.\end{aligned}$$

$$\begin{aligned}54168 &= (F(5 \times 4) + 1 \times 6) \times 8 \\541680 &= (F(5 \times 4) + 1 \times 6) \times 80 \\5416800 &= (F(5 \times 4) + 1 \times 6) \times 800.\end{aligned}$$

$$\begin{aligned}54248 &= (F(5 \times 4) + 2^4) \times 8 \\542480 &= (F(5 \times 4) + 2^4) \times 80 \\5424800 &= (F(5 \times 4) + 2^4) \times 800.\end{aligned}$$

$$\begin{aligned}54288 &= (F(5 \times 4) \times F(2) + F(8)) \times 8 \\542880 &= (F(5 \times 4) \times F(2) + F(8)) \times 80 \\5428800 &= (F(5 \times 4) \times F(2) + F(8)) \times 800.\end{aligned}$$

$$\begin{aligned}54568 &= (F(5 \times 4) + 56) \times 8 \\545680 &= (F(5 \times 4) + 56) \times 80 \\5456800 &= (F(5 \times 4) + 56) \times 800.\end{aligned}$$

$$\begin{aligned}54675 &= 5 \times F(4)^{-6+F(7)} \times 5 \\546750 &= 5 \times F(4)^{-6+F(7)} \times 50 \\5467500 &= 5 \times F(4)^{-6+F(7)} \times 500.\end{aligned}$$

$$\begin{aligned}54725 &= 5 \times (F(4)^7 + 2) \times 5 \\547250 &= 5 \times (F(4)^7 + 2) \times 50 \\5472500 &= 5 \times (F(4)^7 + 2) \times 500.\end{aligned}$$

$$\begin{aligned}54735 &= (5 - 4 + F(7 \times 3)) \times 5 \\547350 &= (5 - 4 + F(7 \times 3)) \times 50 \\5473500 &= (5 - 4 + F(7 \times 3)) \times 500.\end{aligned}$$

$$\begin{aligned}57132 &= (5 + F(7)^{1+3}) \times 2 \\571320 &= (5 + F(7)^{1+3}) \times 20 \\5713200 &= (5 + F(7)^{1+3}) \times 200.\end{aligned}$$

$$\begin{aligned}61824 &= (-F(6) + F(18)) \times 24 \\618240 &= (-F(6) + F(18)) \times 240 \\6182400 &= (-F(6) + F(18)) \times 2400.\end{aligned}$$

$$\begin{aligned}62426 &= (F(6) - F(2))^4 \times 26 \\624260 &= (F(6) - F(2))^4 \times 260 \\6242600 &= (F(6) - F(2))^4 \times 2600.\end{aligned}$$

$$\begin{aligned}62715 &= F(6 \times 2 + 7) \times 15 \\627150 &= F(6 \times 2 + 7) \times 150 \\6271500 &= F(6 \times 2 + 7) \times 1500.\end{aligned}$$

$$\begin{aligned}63168 &= (6 + F(3)) \times F(16) \times 8 \\631680 &= (6 + F(3)) \times F(16) \times 80 \\6316800 &= (6 + F(3)) \times F(16) \times 800.\end{aligned}$$

$$\begin{aligned}65522 &= (F(6)^5 - 5 - 2) \times 2 \\655220 &= (F(6)^5 - 5 - 2) \times 20 \\6552200 &= (F(6)^5 - 5 - 2) \times 200.\end{aligned}$$

$$\begin{aligned}65532 &= (F(6)^5 - 5 + 3) \times 2 \\655320 &= (F(6)^5 - 5 + 3) \times 20 \\6553200 &= (F(6)^5 - 5 + 3) \times 200.\end{aligned}$$

$$\begin{aligned}65562 &= (F(6)^5 + 5 + F(6)) \times 2 \\655620 &= (F(6)^5 + 5 + F(6)) \times 20 \\6556200 &= (F(6)^5 + 5 + F(6)) \times 200.\end{aligned}$$

$$\begin{aligned}65572 &= (F(6)^5 + 5 + F(7)) \times 2 \\655720 &= (F(6)^5 + 5 + F(7)) \times 20 \\6557200 &= (F(6)^5 + 5 + F(7)) \times 200.\end{aligned}$$

$$\begin{aligned}67335 &= 67^{F(3)} \times 3 \times 5 \\673350 &= 67^{F(3)} \times 3 \times 50 \\6733500 &= 67^{F(3)} \times 3 \times 500.\end{aligned}$$

$$\begin{aligned}68544 &= 6 \times F(8) \times 544 \\685440 &= 6 \times F(8) \times 5440 \\6854400 &= 6 \times F(8) \times 54400.\end{aligned}$$

$$\begin{aligned}69632 &= F(6) \times F(9) \times F(6) \times 32 \\696320 &= F(6) \times F(9) \times F(6) \times 320 \\6963200 &= F(6) \times F(9) \times F(6) \times 3200.\end{aligned}$$

$$\begin{aligned}73791 &= (7 + F(3)^{F(7)}) \times 9 \times 1 \\737910 &= (7 + F(3)^{F(7)}) \times 9 \times 10 \\7379100 &= (7 + F(3)^{F(7)}) \times 9 \times 100.\end{aligned}$$

$$\begin{aligned}79929 &= (F(7 + 9) \times 9 - 2) \times 9 \\799290 &= (F(7 + 9) \times 9 - 2) \times 90 \\7992900 &= (F(7 + 9) \times 9 - 2) \times 900.\end{aligned}$$

$$\begin{aligned}82824 &= F(8) \times (-F(2) + F(8 \times 2)) \times 4 \\828240 &= F(8) \times (-F(2) + F(8 \times 2)) \times 40 \\8282400 &= F(8) \times (-F(2) + F(8 \times 2)) \times 400.\end{aligned}$$

$$\begin{aligned}83259 &= (F(8)^3 - 2 \times 5) \times 9 \\832590 &= (F(8)^3 - 2 \times 5) \times 90 \\8325900 &= (F(8)^3 - 2 \times 5) \times 900.\end{aligned}$$

$$\begin{aligned}84755 &= (F(8 + 4) + 7^5) \times 5 \\847550 &= (F(8 + 4) + 7^5) \times 50 \\8475500 &= (F(8 + 4) + 7^5) \times 500.\end{aligned}$$

$$\begin{aligned}86688 &= F(8) \times 6 \times 688 \\866880 &= F(8) \times 6 \times 6880 \\8668800 &= F(8) \times 6 \times 68800.\end{aligned}$$

$$\begin{aligned}93312 &= (F(9) + F(3))^3 \times 1 \times 2 \\933120 &= (F(9) + F(3))^3 \times 1 \times 20 \\9331200 &= (F(9) + F(3))^3 \times 1 \times 200.\end{aligned}$$

$$\begin{aligned}94566 &= (F(9) \times 4 + 5^6) \times 6 \\945660 &= (F(9) \times 4 + 5^6) \times 60 \\9456600 &= (F(9) \times 4 + 5^6) \times 600.\end{aligned}$$

$$\begin{aligned}99144 &= F(9) \times 9^{F(1 \times 4)} \times 4 \\991440 &= F(9) \times 9^{F(1 \times 4)} \times 40 \\9914400 &= F(9) \times 9^{F(1 \times 4)} \times 400.\end{aligned}$$

6 More Selfie Numbers

This section deals with the numbers not appearing above. Here also we have three subsections, where first one give the representations in both ways, second subsection give numbers in order of digits and the final subsection give the numbers in reverse order of digits. This section we have limited only up to 5 digits. In a similar way, we can work with number of higher width.

6.1 Both Ways Representations

$$\begin{aligned}143 &= -1 + F(4 \times 3) \\&= F(3 \times 4) - 1.\end{aligned}$$

$$\begin{aligned}144 &= F((-1 + 4) \times 4) \\&= F(4 \times (4 - 1)).\end{aligned}$$

$$\begin{aligned}168 &= 1 \times F(6) \times F(8) \\&= F(8) \times F(6) \times 1.\end{aligned}$$

$$\begin{aligned}377 &= F(3 \times 7 - 7) \\&= F(-7 + 7 \times 3).\end{aligned}$$

$$\begin{aligned}986 &= F(9) \times (F(8) + F(6)) \\&= (F(6) + F(8)) \times F(9).\end{aligned}$$

$$\begin{aligned}1178 &= F(11) \times F(7) + F(8) \\&= F(8) + F(7) \times F(11).\end{aligned}$$

$$\begin{aligned}1292 &= 1 \times F(2 \times 9)/2 \\&= F(2 \times 9)/2 \times 1.\end{aligned}$$

$$\begin{aligned}1536 &= (1 + 5) \times F(3)^{F(6)} \\&= F(6)^3 \times F(5 - 1).\end{aligned}$$

$$\begin{aligned}1589 &= -F(1 + 5) + F(8 + 9) \\&= F(9 + 8) - F(5 + 1).\end{aligned}$$

$$\begin{aligned}1618 &= F(16 + 1) + F(8) \\&= F(8) + F(16 + 1).\end{aligned}$$

$$1848 = (1 + F(8)) \times 4 \times F(8) \\ = 84 \times (F(8) + 1).$$

$$1856 = -1 + F(8 + 5) \times F(6) \\ = F(6) \times (F(5 + 8) - 1).$$

$$1925 = (1 + F(9)) \times F(2 \times 5) \\ = F(5 \times 2) \times (F(9) + 1).$$

$$1973 = -1 + F(9 + 7) \times F(3) \\ = F(3) \times F(7 + 9) - 1.$$

$$2529 = F(2 \times 5) + F(2 \times 9) \\ = F(9 \times 2) - F(5 \times 2).$$

$$2576 = F(25 - 7) - F(6) \\ = -F(6) + F(-7 + 5^2).$$

$$2577 = F(25 - 7) - 7 \\ = -7 + F(-7 + 5^2).$$

$$2582 = F(2 \times 5 + 8) - 2 \\ = -2 + F(8 + 5 \times 2).$$

$$2584 = F(2 \times (5 + 8 - 4)) \\ = F((-4 + 8) \times 5 - 2).$$

$$2585 = F(2) + F(5 + 8 + 5) \\ = F(5 + 8 + 5) + F(2).$$

$$2586 = 2 + F((-5 + 8) \times 6) \\ = F(6 \times (8 - 5)) + 2.$$

$$3373 = (F(3) + F(7))^3 - F(3) \\ = -F(3) + (F(3) + F(7))^3.$$

$$4791 = F(4) \times F(7 + 9 + 1) \\ = F(1 + 9 + 7) \times F(4).$$

$$4876 = -4 + F(8 + 7) \times F(6) \\ = F(6) \times F(7 + 8) - 4.$$

$$4893 = F(4 + 8) \times F(9) - 3 \\ = -3 + F(9) \times F(8 + 4).$$

$$4913 = -4 + F(9 - 1)^3 \\ = (-F(3) + 19)^{F(4)}.$$

$$6936 = 6 \times F(9) \times F(3 + 6) \\ = F(6 + 3) \times F(9) \times 6.$$

$$10336 = (1 + 03) \times F(3 \times 6) \\ = F(6 \times 3) \times (3 + 01).$$

$$10937 = -1 \times 09 + F(3 \times 7) \\ = F(7 \times 3) - 9 \times 01.$$

$$11392 = F(11) \times F(3)^{9-2} \\ = 2^{9-F(3)} \times F(11).$$

$$12776 = F(1 + 2 + 7 + 7) \times F(6) \\ = F(6) \times F(7 + 7 + 2 + 1).$$

$$12788 = -1 + (-F(2) + F(7 + 8)) \times F(8) \\ = F(8) \times (F(8 + 7) - F(2)) - 1.$$

$$12797 = (-1 + F(2 \times 7)) \times F(9) + F(7) \\ = F(7) + F(9) \times (F(7 \times 2) - 1).$$

$$12798 = 1 + F(2 \times 7) \times F(9) - F(8) \\ = -F(8) + F(9) \times F(7 \times 2) + 1.$$

$$12817 = -1 + (F(2 \times 8) - 1) \times F(7) \\ = F(7) \times (-1 + F(8 \times 2)) - 1.$$

$$12818 = (-1 + F(2 \times 8)) \times F(-1 + 8) \\ = F(8 - 1) \times (F(8 \times 2) - 1).$$

$$12819 = 1 + F(2 \times (8 - 1)) \times F(9) \\ = F(9) \times F((-1 + 8) \times 2) + 1.$$

$$12959 = (1 + F(2 \times 9)) \times 5 + F(9) \\ = F(9) + 5 \times (F(9 \times 2) + 1).$$

$$13525 = F((1 + 3) \times 5) \times 2 - 5 \\ = -5 + 2 \times F(5 \times (3 + 1)).$$

$$13546 = F(1 \times 3) \times (F(5 \times 4) + F(6)) \\ = (F(6) + F(4 \times 5)) \times (3 - 1).$$

$$13549 = 1 + F(3) \times (F(5 \times 4) + 9) \\ = (9 + F(4 \times 5)) \times F(3) + 1.$$

$$13572 = (1 + 35) \times F(7 \times 2) \\ = F(2 \times 7) \times (5 + 31).$$

$$13837 = (1 \times 3 \times 8)^3 + F(7) \\ = F(7) + (3 \times 8)^3 \times 1.$$

$$14336 = 14 \times F(3)^{F(3)+F(6)} \\ = F(6)^3 \times (3^{F(4)} + 1).$$

$$14678 = -1 + F(4) \times F(6+7) \times F(8) \\ = F(8) \times F(7+6) \times F(4) - 1.$$

$$14976 = F(-1+4+9) \times F(7) \times F(6) \\ = F(6) \times F(7) \times F(9+4-1).$$

$$14987 = (-1 + F(4) \times F(9) \times F(8)) \times 7 \\ = 7 \times (F(8) \times F(9) \times F(4) - 1).$$

$$15464 = F(1+5) + F(4 \times 6)/F(4) \\ = F(4 \times 6)/F(4) + F(5+1).$$

$$15665 = 1 \times 5^6 + F(6) \times 5 \\ = 5^6 + F(6) \times 5 \times 1.$$

$$16376 = (1^6 + 3)^7 - F(6) \\ = -F(6) + (7-3)^{6+1}.$$

$$16383 = -1 + F(6)^{-3+8}/F(3) \\ = F(3)^{8+3} \times F(6) - 1.$$

$$17496 = (-1 + F(7)^{F(4)} - 9) \times F(6) \\ = F(6) \times (9/F(4))^7 \times 1.$$

$$17711 = F((1+1) \times 7 + 7 + 1) \\ = F(17 + 7 - 1 - 1).$$

$$17997 = (-1 \times F(7) + F(9+9)) \times 7 \\ = (-F(7) + F(9+9)) \times 7 \times 1.$$

$$18756 = (1 + (-8 + F(7))^5) \times 6 \\ = 6 \times (5^{F(7)-8} + 1).$$

$$19447 = -1 + F(9) \times 44 \times F(7) \\ = F(7) \times 44 \times F(9) - 1.$$

$$19449 = -1 - F(9+4) + F(4)^9 \\ = -F(9+4) + F(4)^9 - 1.$$

$$19649 = (1 + F(9) - F(6))^{F(4)} - F(9) \\ = -F(9) + (-F(4) + 6)^9 \times 1.$$

$$19682 = -1 + (9-6)^{8+F(2)} \\ = F(2+8-6)^9 - 1.$$

$$19684 = 1 + (9-6)^8 \times F(4) \\ = F(4)^8 \times (-6+9) + 1.$$

$$19697 = 1 + (9-6)^9 + F(7) \\ = F(7) + (9-6)^9 + 1.$$

$$19747 = (7 + F(4)^7) \times 9 + 1 \\ = 1 + 9 \times (7 + F(4)^7).$$

$$19965 = (-1 + F(9)) \times (F(9+6) - 5) \\ = (-5 + F(6+9)) \times (F(9) - 1).$$

$$20274 = (F(20) \times F(2) - 7) \times F(4) \\ = F(4) \times (-7 + F(20)) \times F(2).$$

$$21168 = (21 + F(16)) \times F(8) \\ = F(8) \times (6+1) \times F(12).$$

$$21894 = 2 \times (1 + F(8+9+4)) \\ = (F(4+9+8) + 1) \times 2.$$

$$23182 = -2 + F(3 \times 1 \times 8)/2 \\ = -2 + F(8 \times 1 \times 3)/2.$$

$$23183 = (-2 + F(3 \times 1 \times 8))/F(3) \\ = F(3 \times 8)/F(1 \times 3) - F(2).$$

$$23184 = F(23+1)/(8/4) \\ = F(4 \times (8+1-3))/2.$$

$$23688 = (F(2) + F(3)) \times F(6) \times F(8+8) \\ = F(8+8) \times 6 \times F(3) \times 2.$$

$$24297 = F(2 \times 4) \times F(2+9) \times F(7) \\ = F(7) \times F(9+2) \times F(4 \times 2).$$

$$24334 = 2 \times (-4 + 3^3)^{F(4)} \\ = (-4 + 3^3)^{F(4)} \times 2.$$

$$24447 = F(2 \times 4 \times 4 - 4)/F(7) \\ = F(7 \times 4)/(F(4) \times 4 + F(2)).$$

$$\begin{aligned} 24649 &= -F(2) + (F(4)^6 - 4) \times F(9) \\ &= (F(9) \times F(4) + F(6 + 4))^2. \end{aligned}$$

$$\begin{aligned} 25368 &= 2 \times (F(5 \times 3) - 6) \times F(8) \\ &= F(8) \times (-6 + F(3 \times 5)) \times 2. \end{aligned}$$

$$\begin{aligned} 27648 &= 2^7 \times 6^{F(-4+8)} \\ &= 8^{F(4)} \times 6 \times (7 + 2). \end{aligned}$$

$$\begin{aligned} 27783 &= (2 + 7/7) \times F(8)^3 \\ &= 3 \times F(8)^{7/7+2}. \end{aligned}$$

$$\begin{aligned} 28547 &= -F(2) + (8 + 5)^4 - F(7) \\ &= F(7)^4 + 5 - F(8) + 2. \end{aligned}$$

$$\begin{aligned} 28623 &= F(2 \times 8) \times (6 + 23) \\ &= (3 + 26) \times F(8 \times 2). \end{aligned}$$

$$\begin{aligned} 28624 &= F(2) + (F(8) + F(6)) \times F(2^4) \\ &= F(4^2) \times (F(6) + F(8)) + F(2). \end{aligned}$$

$$\begin{aligned} 28635 &= -F(2) - F(8) + F(6 \times 3 + 5) \\ &= F(5 + 3 \times 6) - F(8) - F(2). \end{aligned}$$

$$\begin{aligned} 28641 &= -2 \times 8 + F(6 \times 4 - 1) \\ &= F(-1 + 4 \times 6) - 8 \times 2. \end{aligned}$$

$$\begin{aligned} 28644 &= (-F(2) + 8) \times (F(6)^4 - 4) \\ &= (-4 + 4^6) \times (8 - F(2)). \end{aligned}$$

$$\begin{aligned} 28654 &= F(2 \times (8 + 6) - 5) - F(4) \\ &= -F(4) + F(-5 + (6 + 8) \times 2). \end{aligned}$$

$$\begin{aligned} 28655 &= -2 + F(8 \times 6 - 5 \times 5) \\ &= F(5 \times 5 + 6 - 8) - 2. \end{aligned}$$

$$\begin{aligned} 28657 &= F(2 + (-8 + 6 + 5) \times 7) \\ &= F(7 \times 5 - 6 - 8 + 2). \end{aligned}$$

$$\begin{aligned} 28659 &= 2 + F((8 - 6)^5 - 9) \\ &= F(-9 \times 5 + 68) + 2. \end{aligned}$$

$$\begin{aligned} 28678 &= F(2 + 8 + 6 + 7) + F(8) \\ &= F(8) + F(7 + 6 + 8 + 2). \end{aligned}$$

$$\begin{aligned} 29267 &= (-2 + 9) \times F(2 \times 6 + 7) \\ &= 7 \times F(6 + 2 + 9 + 2). \end{aligned}$$

$$\begin{aligned} 29988 &= (F(2) \times F(9) + F(9)) \times F(8) \times F(8) \\ &= F(8) \times (8 + F(9)) \times F(9) \times F(2). \end{aligned}$$

$$\begin{aligned} 32496 &= (F(3 \times 2)^4 - F(9)) \times F(6) \\ &= F(6) \times (-F(9) + 4^{2 \times 3}). \end{aligned}$$

$$\begin{aligned} 32696 &= (F(3)^{2 \times 6} - 9) \times F(6) \\ &= -F(6) \times 9 + F(6)^{2+3}. \end{aligned}$$

$$\begin{aligned} 32736 &= (-F(3) + F((2 + 7) \times 3))/6 \\ &= (-F(6) + F(3)^{F(7)}) \times (2 + F(3)). \end{aligned}$$

$$\begin{aligned} 32739 &= 3 \times (F(2) + F(7 \times 3) - F(9)) \\ &= (-F(9) + F(3 \times 7) + F(2)) \times 3. \end{aligned}$$

$$\begin{aligned} 32748 &= (-3 + 2^{F(7)}) \times 4 - 8 \\ &= (-8 + 4^7 - 2) \times F(3). \end{aligned}$$

$$\begin{aligned} 32758 &= -F(3) + (F(2) + 7)^5 - 8 \\ &= 8^5 + F(7) - 23. \end{aligned}$$

$$\begin{aligned} 32772 &= (2^{7+7} + 2) \times F(3) \\ &= F(3) \times (2^{7+7} + 2). \end{aligned}$$

$$\begin{aligned} 32838 &= 3 \times F(2 \times 8 - 3 + 8) \\ &= F(8 + 3 + 8) + F(23). \end{aligned}$$

$$\begin{aligned} 32856 &= 3 \times (F(2 \times 8 + 5) + 6) \\ &= (6 + F(5 + 8 \times 2)) \times 3. \end{aligned}$$

$$\begin{aligned} 32937 &= 3 \times (-F(2) + F(9) + F(3 \times 7)) \\ &= (F(7 \times 3) + F(9) - F(2)) \times 3. \end{aligned}$$

$$\begin{aligned} 33286 &= F(3 \times 3) \times (F(2 \times 8) - F(6)) \\ &= (-F(6) + F(8 \times 2)) \times F(3 \times 3). \end{aligned}$$

$$\begin{aligned} 33446 &= -F(3) + F(3 + 4 \times 4) \times F(6) \\ &= F(6) \times F(4 \times 4 + 3) - F(3). \end{aligned}$$

$$\begin{aligned} 33552 &= F(2 \times 5) \times F(5 \times 3) + F(3) \\ &= F(3) + F(3 \times 5) \times F(5 \times 2). \end{aligned}$$

$$\begin{aligned} 33592 &= (F(3 + 3) + 5) \times F(9 \times 2) \\ &= F(2 \times 9) \times (5 + F(3 + 3)). \end{aligned}$$

$$\begin{aligned} 33618 &= (F(3) + F(3 \times 6)) \times F(-1 + 8) \\ &= F(8 - 1) \times (F(6 \times 3) + F(3)). \end{aligned}$$

$$\begin{aligned} 33647 &= 3 + (F(3 \times 6) + 4) \times F(7) \\ &= F(7) \times (4 + F(6 \times 3)) + 3. \end{aligned}$$

$$\begin{aligned} 33667 &= -3 + (F(3 \times 6) + 6) \times F(7) \\ &= F(7) \times (6 + F(6 \times 3)) - 3. \end{aligned}$$

$$\begin{aligned} 34992 &= 3 \times ((F(4) + 9) \times 9)^2 \\ &= F(2) \times (9 + 9)^4 / 3. \end{aligned}$$

$$\begin{aligned} 35421 &= F(3) \times F(5 \times 4 + 2) - 1 \\ &= -1 + F(2 + 4 \times 5) \times F(3). \end{aligned}$$

$$\begin{aligned} 35422 &= F(3) \times (5 - 4) \times F(22) \\ &= 2 \times F(24 - 5 + 3). \end{aligned}$$

$$\begin{aligned} 35937 &= (-F(-3 + 5) + F(9))^{F(-3+7)} \\ &= ((F(7) - F(3)) \times F(9 - 5))^3. \end{aligned}$$

$$\begin{aligned} 36173 &= F(3 \times 6) \times (1 + F(7)) - 3 \\ &= -3 + (F(7) + 1) \times F(6 \times 3). \end{aligned}$$

$$\begin{aligned} 36176 &= F(3 \times 6) \times (1 + 7 + 6) \\ &= (6 + 7 + 1) \times F(6 \times 3). \end{aligned}$$

$$\begin{aligned} 36288 &= 36 \times (F(2 \times 8) + F(8)) \\ &= F(8) \times (8 - 2 + 6)^3. \end{aligned}$$

$$\begin{aligned} 38448 &= F(3 + 8) \times F(4) \times F(4 + 8) \\ &= F(8 + 4) \times F(4) \times F(8 + 3). \end{aligned}$$

$$\begin{aligned} 38763 &= 3 + (8 + 7) \times F(6 \times 3) \\ &= (F((3 \times 6)) \times (7 + 8)) + 3. \end{aligned}$$

$$\begin{aligned} 39239 &= 3 + (F(9)^2 - F(3)) \times F(9) \\ &= (F(9)^{F(3)} - 2) \times F(9) + 3. \end{aligned}$$

$$\begin{aligned} 39284 &= (F(3 \times 9) + 2) / (8 - F(4)) \\ &= -4 - 8 \times 2 + F(9)^3. \end{aligned}$$

$$\begin{aligned} 39296 &= -F(3) + F(9)^2 \times F(9) - 6 \\ &= -6 + F(9)^2 \times F(9) - F(3). \end{aligned}$$

$$\begin{aligned} 39298 &= F(3) + F(9)^2 \times F(9) - 8 \\ &= -8 + F(9)^2 \times F(9) + F(3). \end{aligned}$$

$$\begin{aligned} 39302 &= -3 + F(9)^3 + F(02) \\ &= -2 + F(0 \times 3 + 9)^3. \end{aligned}$$

$$\begin{aligned} 39303 &= F(3) + F(9)^3 - 03 \\ &= -3/03 + F(9)^3. \end{aligned}$$

$$\begin{aligned} 39306 &= F(3) + F(9)^{3+0 \times 6} \\ &= -60 + 3^9 \times F(3). \end{aligned}$$

$$\begin{aligned} 39307 &= 3 + F(9)^{3+0 \times 7} \\ &= 7 \times 0 + 3 + F(9)^3. \end{aligned}$$

$$\begin{aligned} 39315 &= 3 + F(9)^3 + F(1 + 5) \\ &= -51 + 3^9 \times F(3). \end{aligned}$$

$$\begin{aligned} 39316 &= 3 + F(9)^3 + 1 + F(6) \\ &= 6 \times (-1 + 3) + F(9)^3. \end{aligned}$$

$$\begin{aligned} 39323 &= -F(3) + F(9)^3 + F(2^3) \\ &= -F(3) + F(2^3) + F(9)^3. \end{aligned}$$

$$\begin{aligned} 39327 &= -3 + F(9)^3 + 2 \times F(7) \\ &= F(7) \times 2 - 3 + F(9)^3. \end{aligned}$$

$$\begin{aligned} 39328 &= F(3) + F(9)^3 + F(2) + F(8) \\ &= F(8 - 2) \times 3 + F(9)^3. \end{aligned}$$

$$\begin{aligned} 39332 &= 3^9 \times F(3) - F(3^2) \\ &= F(2) + 3^3 + F(9)^3. \end{aligned}$$

$$\begin{aligned} 39333 &= 3^9 \times F(3) - 33 \\ &= -33 + 3^9 \times F(3). \end{aligned}$$

$$\begin{aligned} 39334 &= 3 + F(9)^3 + 3^{F(4)} \\ &= -4 + F(3 \times 3) + F(9)^3. \end{aligned}$$

$$\begin{aligned} 39336 &= -F(3) + F(9)^3 + F(3 + 6) \\ &= F(6 + 3)^3 + F(9) - F(3). \end{aligned}$$

$$\begin{aligned} 39348 &= 3^9 \times F(3) + F(4) - F(8) \\ &= -F(8) + F(4) + 3^9 \times F(3). \end{aligned}$$

$$\begin{aligned}
39374 &= F(3) \times (9 \times 3^7 + 4) \\
&= (4 + F(7 - 3)^9) \times F(3). \\
39377 &= F(39/3) \times F(7) \times F(7) \\
&= F(7) \times F(7) \times F(39/3). \\
39384 &= 3^9 \times F(3) + F(8) - F(4) \\
&= (F(4)^8 + 3) \times (9 - 3). \\
39387 &= 3^9 \times F(3) + 8 + F(7) \\
&= F(7) + 8 + 3^9 \times F(3). \\
39394 &= -3 + 93 + F(9)^{F(4)} \\
&= (-4 + F(9)) \times 3 + F(9)^3. \\
39395 &= 3^9 \times F(3) + F(9) - 5 \\
&= -5 + F(9) + 3^9 \times F(3). \\
39396 &= F(3) \times (9 + 3^9 + 6) \\
&= (6 + 9 + 3^9) \times F(3). \\
39397 &= F(3) \times (9 + 3^9) + F(7) \\
&= F(7) + (9 + 3^9) \times F(3). \\
39398 &= (3 + F(9)^{F(3)}) \times F(9) - 8 \\
&= -8 + F(9) \times 3 + F(9)^3. \\
39434 &= F(3) \times (F(9) + F(4)^{3 \times F(4)}) \\
&= (F(4)^{3 \times F(4)} + F(9)) \times F(3). \\
39474 &= F(3) \times 9 \times (-4 + F(7)^{F(4)}) \\
&= (-4 + F(7)^{F(4)}) \times 9 \times F(3). \\
42441 &= (-1 + 44) \times F(2^4) \\
&= F(4^2) \times (44 - 1). \\
42699 &= (F(4^2) + 6) \times (9 + F(9)) \\
&= (9 + F(9)) \times (6 + F(2^4)). \\
43736 &= 4 \times (F(3 \times 7) - F(3) \times 6) \\
&= (-6 \times F(3) + F(7 \times 3)) \times 4. \\
43756 &= 4 \times (F(3 \times 7) - 5) - F(6) \\
&= -F(6) + (-5 + F(7 \times 3)) \times 4. \\
43757 &= 4 \times (F(3 \times 7) - 5) - 7 \\
&= -7 + (-5 + F(7 \times 3)) \times 4. \\
43758 &= 4 \times (F(3 \times 7) - 5) - F(8) \\
&= -F(8) - 5 + F(7 \times 3) \times 4. \\
43771 &= -1 \times F(7) + F(7 \times 3) \times 4 \\
&= 4 \times F(3 \times 7) - F(7) \times 1. \\
43784 &= 4 \times F(3 \times 7) \times F(8/4) \\
&= 4 \times F((87 - 3)/4). \\
43786 &= 4 \times F(3 \times 7) + 8 - 6 \\
&= -6 + 8 + F(7 \times 3) \times 4. \\
43788 &= 4 \times (F(3 \times 7) + 8/8) \\
&= (8/8 + F(7 \times 3)) \times 4. \\
43792 &= 4 \times F(3 \times 7) + 9 - F(2) \\
&= (2 + F(9 \times 7/3)) \times 4. \\
43796 &= 4 \times (3 + F(7 \times (9 - 6))) \\
&= (-6 + 9 + F(7 \times 3)) \times 4. \\
43816 &= 4 \times (F(3 \times (8 - 1)) + F(6)) \\
&= (F(6) + F(18 + 3)) \times 4. \\
43923 &= F(4) \times (F(3) + 9)^{2 \times F(3)} \\
&= 3 \times (F(2) \times 9 + F(3))^4. \\
44898 &= (-4 + F(4) \times F(8) \times F(9)) \times F(8) \\
&= F(8) \times (F(9) \times F(8) \times F(4) - 4). \\
44924 &= 44 \times (F(9) + F(2^4)) \\
&= (F(4^2) + F(9)) \times 44. \\
46096 &= F(4 \times 6) - F(09) \times F(6) \\
&= -F(6) \times F(9) + F(06 \times 4). \\
46179 &= F(4 \times 6) - F(1 + 7) \times 9 \\
&= -9 \times F(7 + 1) + F(6 \times 4). \\
46208 &= F(4 \times 6) - 20 \times 8 \\
&= -80 \times 2 + F(6 \times 4). \\
46224 &= F(4 \times 6) - F(2 \times (2 + 4)) \\
&= -F((4 + 2) \times 2) + F(6 \times 4).
\end{aligned}$$

$$\begin{aligned} 46226 &= F(4 \times 6) + 2 - F(2 \times 6) \\ &= -F(6 \times 2) + 2 + F(6 \times 4). \end{aligned}$$

$$\begin{aligned} 46277 &= F(4 \times 6) - F(2) \times F(7) \times 7 \\ &= -7 \times F(7) \times F(2) + F(6 \times 4). \end{aligned}$$

$$\begin{aligned} 46283 &= -3 - 82 + F(6 \times 4) \\ &= F(4 \times 6) - 2 - 83. \end{aligned}$$

$$\begin{aligned} 46284 &= F(4 \times 6) \times F(2) - 84 \\ &= -4 \times F(8) \times F(2) + F(6 \times 4). \end{aligned}$$

$$\begin{aligned} 46285 &= F(4 \times 6) + 2 - 85 \\ &= 5 \times (F(8)^{F(-2+6)} - 4). \end{aligned}$$

$$\begin{aligned} 46288 &= F(4 \times 6) - (2 + 8) \times 8 \\ &= -8 \times (8 + 2) + F(6 \times 4). \end{aligned}$$

$$\begin{aligned} 46294 &= F(4 \times 6) - 2 \times (F(9) + F(4)) \\ &= -(F(4) + F(9)) \times 2 + F(6 \times 4). \end{aligned}$$

$$\begin{aligned} 46295 &= F(4 \times 6) - 2 \times F(9) - 5 \\ &= -5 - F(9) \times 2 + F(6 \times 4). \end{aligned}$$

$$\begin{aligned} 46296 &= F(4 \times 6) - F(2) \times 9 \times F(6) \\ &= -F(6) \times 9 \times F(2) + F(6 \times 4). \end{aligned}$$

$$\begin{aligned} 46298 &= F(4 \times 6) + 2 - 9 \times 8 \\ &= -8 \times 9 + 2 + F(6 \times 4). \end{aligned}$$

$$\begin{aligned} 46299 &= F(4 \times 6) - F(2) - F(9) - F(9) \\ &= -F(9) - F(9) - F(2) + F(6 \times 4). \end{aligned}$$

$$\begin{aligned} 46313 &= F(4 \times 6) - F(-3 + 13) \\ &= -F(-3 + 13) + F(6 \times 4). \end{aligned}$$

$$\begin{aligned} 46324 &= -46 + F(3) + F(24) \\ &= -42 - F(3) + F(6 \times 4). \end{aligned}$$

$$\begin{aligned} 46326 &= F(4 \times 6) - F(3^2) - F(6) \\ &= -F(6 + 2) \times F(3) + F(6 \times 4). \end{aligned}$$

$$\begin{aligned} 46328 &= F(4 \times 6) - 32 - 8 \\ &= -8 \times (2 + 3) + F(6 \times 4). \end{aligned}$$

$$\begin{aligned} 46329 &= F(4 \times 6) - 3 - 2 - F(9) \\ &= -F(9 - 2) \times 3 + F(6 \times 4). \end{aligned}$$

$$\begin{aligned} 46332 &= F(4 \times 6) - (3 + 3)^2 \\ &= -2 - F(3 \times 3) + F(6 \times 4). \end{aligned}$$

$$\begin{aligned} 46333 &= F(4 \times 6) - F(3) - 33 \\ &= -33 - F(3) + F(6 \times 4). \end{aligned}$$

$$\begin{aligned} 46334 &= F(4 \times 6) - F(-3 + 3 \times 4) \\ &= -F(4 \times 3 - 3) + F(6 \times 4). \end{aligned}$$

$$\begin{aligned} 46336 &= F(4 \times 6) + F(3) - F(3 + 6) \\ &= -F(6) \times F(3) \times F(3) + F(6 \times 4). \end{aligned}$$

$$\begin{aligned} 46338 &= -(4 + 6) \times 3 + F(3 \times 8) \\ &= F(8 \times 3) - 3 \times (6 + 4). \end{aligned}$$

$$\begin{aligned} 46339 &= F(4 \times 6) - F(3) - 3 \times 9 \\ &= -9 \times 3 - F(3) + F(6 \times 4). \end{aligned}$$

$$\begin{aligned} 46341 &= F(4 \times 6) - 3^{4-1} \\ &= -1 \times F(4)^3 + F(6 \times 4). \end{aligned}$$

$$\begin{aligned} 46342 &= F(4 \times 6) - F(3 + 4) \times 2 \\ &= F(24) - F(3) - 6 \times 4. \end{aligned}$$

$$\begin{aligned} 46343 &= F(4 \times 6) - (F(3) + F(4))^{F(3)} \\ &= F(3) - F(4)^3 + F(6 \times 4). \end{aligned}$$

$$\begin{aligned} 46344 &= F((4 + 4) \times 3) - 6 \times 4 \\ &= F(4 \times 6) - 3 \times (4 + 4). \end{aligned}$$

$$\begin{aligned} 46345 &= F(4 \times 6) - 3 - 4 \times 5 \\ &= -5 \times 4 - 3 + F(6 \times 4). \end{aligned}$$

$$\begin{aligned} 46346 &= F(4 \times 6) + F(3) - 4 \times 6 \\ &= F(6 \times 4) - 3 \times 6 - 4. \end{aligned}$$

$$\begin{aligned} 46347 &= F(4 \times 6) - 34 + F(7) \\ &= -F(7 + 4 - 3) + F(6 \times 4). \end{aligned}$$

$$\begin{aligned} 46348 &= F(4 \times 6) - 3 \times 4 - 8 \\ &= -8 - 4 \times 3 + F(6 \times 4). \end{aligned}$$

$$\begin{aligned} 46352 &= F(4 \times 6) - (3 + 5) \times 2 \\ &= -2 \times (5 + 3) + F(6 \times 4). \end{aligned}$$

$$\begin{aligned} 46354 &= F(4 \times 6) - F(3) \times 5 - 4 \\ &= -4 - 5 \times F(3) + F(6 \times 4). \end{aligned}$$

$$\begin{aligned}
46355 &= F(4 \times 6) - 3 - 5 - 5 \\
&= -5 - 5 - 3 + F(6 \times 4). \\
46356 &= F(4 \times 6) + (3 - 5) \times 6 \\
&= 6 \times (-5 + 3) + F(6 \times 4). \\
46357 &= F(4 \times 6) - 3 + 5 - F(7) \\
&= -F(7) + 5 - 3 + F(6 \times 4). \\
46358 &= F(4 \times 6) + 3 - 5 - 8 \\
&= -8 - 5 + 3 + F(6 \times 4). \\
46359 &= -F(4) - 6 + F(3 \times 5 + 9) \\
&= -9 \times F(5 - 3) + F(6 \times 4). \\
46371 &= 1^7 \times 3 + F(6 \times 4) \\
&= F(4) + F(6 \times 3 + 7 - 1). \\
46376 &= F(4 \times 6) + 3 + F(7) - F(6) \\
&= -6 + 7 \times F(3) + F(6 \times 4). \\
46377 &= F(4 \times 6) + 3 - 7 + F(7) \\
&= F(7) - 7 + 3 + F(6 \times 4). \\
46378 &= F(4 \times 6) + F(3) - F(7) + F(8) \\
&= (-8 + F(7)) \times F(3) + F(6 \times 4). \\
46391 &= F(4 \times 6) + F(3) + F(9 - 1) \\
&= F(-1 + 9) + F(3) + F(6 \times 4). \\
46392 &= F(4 \times 6) + F((3 + 9) \times 2) \\
&= 2 \times (9 + 3) + F(6 \times 4). \\
46393 &= F(4 \times 6) - F(3) + 9 \times 3 \\
&= 3 \times 9 - F(3) + F(6 \times 4). \\
46394 &= F(4 \times 6) + F(3) \times (9 + 4) \\
&= (4 + 9) \times F(3) + F(6 \times 4). \\
46395 &= F(4 \times 6) - F(3) + F(9) - 5 \\
&= -5 + F(9) - F(3) + F(6 \times 4). \\
46396 &= F(4 \times 6) + F(3) + F(9) - F(6) \\
&= -F(6) + F(9) + F(3) + F(6 \times 4). \\
46397 &= F(4 \times 6) + F(3) + F(9) - 7 \\
&= -7 + F(9) + F(3) + F(6 \times 4). \\
46399 &= -F(4) + F(6^3/9) + F(9) \\
&= F(9) - 9/3 + F(6 \times 4). \\
46404 &= F(4 \times 6) + 40 - 4 \\
&= 40 - 4 + F(6 \times 4). \\
46407 &= F(4 \times 6) + F(4) \times F(07) \\
&= F(7) \times F(04) + F(6 \times 4). \\
46419 &= -4 + F(6 \times 4) + F(1 + 9) \\
&= F(9 + 1) - 4 + F(6 \times 4). \\
46423 &= F(4 \times 6) + F(4 + 2 \times 3) \\
&= F(3 \times 2 + 4) + F(6 \times 4). \\
46428 &= F(4 \times 6) - F(4) \times (F(2) - F(8)) \\
&= 8^2 - 4 + F(6 \times 4). \\
46432 &= (F(4 \times 6) + 4^3) \times F(2) \\
&= (F(2) + 3)^{F(4)} + F(6 \times 4). \\
46436 &= 4 + F(6 \times 4) + F(3)^6 \\
&= F(6)^{F(3)} + 4 + F(6 \times 4). \\
46439 &= F(4) + F(6 \times 4) + F(3) \times F(9) \\
&= F(9) \times F(3) + F(4) + F(6 \times 4). \\
46448 &= -4 + F(6 \times 4) + 4 \times F(8) \\
&= 84 - 4 + F(6 \times 4). \\
46449 &= F(4 \times 6) + F(4) \times F(4) \times 9 \\
&= (9/F(4))^4 + F(6 \times 4). \\
46472 &= F(4 \times 6) + 4 \times F(7) \times 2 \\
&= 2 \times F(7) \times 4 + F(6 \times 4). \\
46476 &= 4 + F(6 \times 4) + F(7) \times F(6) \\
&= F(6) \times F(7) + 4 + F(6 \times 4). \\
46478 &= F(4 \times 6) + F(4 + 7) + F(8) \\
&= F(8) + F(7 + 4) + F(6 \times 4). \\
46487 &= F(4 \times 6) + (-4 + F(8)) \times 7 \\
&= 7 \times (F(8) - 4) + F(6 \times 4).
\end{aligned}$$

$$46488 = ((F(4) \times 6)^{F(4)} - F(8)) \times 8 \\ = 8 \times (-F(8) + (F(4) \times 6)^{F(4)}).$$

$$46496 = F(4 \times 6) + 4 \times F(9) - F(6) \\ = -F(6) + F(9) \times 4 + F(6 \times 4).$$

$$46497 = F(4 \times 6) + 4 \times F(9) - 7 \\ = -7 + F(9) \times 4 + F(6 \times 4).$$

$$46512 = F(4 \times 6) + F((5 + 1) \times 2) \\ = F(2 \times (1 + 5)) + F(6 \times 4).$$

$$46533 = F(4 \times 6) + 5 \times 33 \\ = 33 \times 5 + F(6 \times 4).$$

$$46536 = F(4 \times 6) + F(5 + 3) \times F(6) \\ = F(6) \times F(3 + 5) + F(6 \times 4).$$

$$46566 = -F(4) \times 6 \times 5 + 6^6 \\ = 6^6 - 5 \times 6 \times F(4).$$

$$46618 = -4 + 6^6 - F(1 + 8) \\ = -F(8 + 1) + 6^6 - 4.$$

$$46619 = -4 + 6^6 + 1 - F(9) \\ = -F(9) \times 1 + 6^6 - F(4).$$

$$46624 = F(4 \times 6) + (6 - 2)^4 \\ = 4 \times 2^6 + F(6 \times 4).$$

$$46627 = -F(4) + 6^6 - 2 \times F(7) \\ = -F(7) \times 2 + 6^6 - F(4).$$

$$46636 = 4 + 6^6 - 3 \times F(6) \\ = -F(6) \times 3 + 6^6 + 4.$$

$$46637 = -4 + 6^6 - F(3) - F(7) \\ = F(7) + F(3)^{F(6)} + F(6 \times 4).$$

$$46638 = F(4) + (6 \times 6)^3 - F(8) \\ = (8 - F(3))^6 - 6 \times F(4).$$

$$46643 = F(4) + 6^6 - 4^{F(3)} \\ = -3 \times F(4) + 6^6 - 4.$$

$$46645 = 4 + 6^6 - F(4) \times 5 \\ = -5 \times F(4) + 6^6 + 4.$$

$$46646 = -4 + (6 \times 6)^{F(4)} - 6 \\ = -6 - 4 + (6 \times 6)^{F(4)}.$$

$$46647 = 4 + (6 \times 6)^{F(4)} - F(7) \\ = -F(7) + 4 + (6 \times 6)^{F(4)}.$$

$$46653 = -4 + 6^6 + F(5 - 3) \\ = (3 - 5 + F(6))^6 - F(4).$$

$$46654 = -4 + 6^6 + 5 - F(4) \\ = -4 + 5 + 6^6 - F(4).$$

$$46657 = F(4) + 6^6 + 5 - 7 \\ = -7 + 5 + 6^6 + F(4).$$

$$46658 = 4 + 6^6 - F(-5 + 8) \\ = F(8 - 5) + (6 \times 6)^{F(4)}.$$

$$46659 = F(4) + 6^{F(6) \times 5 - F(9)} \\ = (9 + 5 - F(6))^6 + F(4).$$

$$46671 = F(4) + 6^6 + F(7) - 1 \\ = -1 + F(7) + 6^6 + F(4).$$

$$46672 = (F(4) + 6^6 + F(7)) \times F(2) \\ = F(2) \times F(7) + 6^6 + F(4).$$

$$46674 = -F(4) + 6^6 + 7 \times F(4) \\ = F(4) \times 7 + 6^6 - F(4).$$

$$46679 = -4 + 6^6 - 7 + F(9) \\ = F(9) - 7 + 6^6 - 4.$$

$$46779 = F(4 \times 6) + F(7 + 7) + F(9) \\ = F(9) + F(7 + 7) + F(6 \times 4).$$

$$46784 = F(4 \times 6) + F(7) \times 8 \times 4 \\ = 4 \times 8 \times F(7) + F(6 \times 4).$$

$$46797 = F(4 \times 6) + F(7) \times F(9) - F(7) \\ = F(7) \times F(9) - F(7) + F(6 \times 4).$$

$$46866 = (4 + 6) \times F(8) + 6^6 \\ = 6^6 + F(8) \times (6 + 4).$$

$$46944 = F(4 \times 6) + 9 \times 4^{F(4)} \\ = 4^{F(4)} \times 9 + F(6 \times 4).$$

$$46969 = F(4 \times 6) - 9 + F(6 + 9) \\ = -9 + F(6 + 9) + F(6 \times 4).$$

$$46987 = F(4 \times 6) + 9 + F(8 + 7) \\ = F(7 + 8) + 9 + F(6 \times 4).$$

$$47345 = 4 + 7 \times (-F(3) + F(4 \times 5)) \\ = (F(5 \times 4) - F(3)) \times 7 + 4.$$

$$49152 = F(4) \times (9 - 1)^5 / 2 \\ = 2^{5 \times 1 + 9} \times F(4).$$

$$49164 = (F(4) + 9) \times (1 + F(6)^4) \\ = (4^6 + 1) \times (9 + F(4)).$$

$$54136 = (F(5 \times 4) + 1 \times F(3)) \times F(6) \\ = F(6) \times (F(3) + F(1 \times 4 \times 5)).$$

$$54298 = (F(5 + 4) \times F(2)) \times F(9 + 8) \\ = F(8 + 9) \times F(2) \times F(4 + 5).$$

$$54336 = (F(5 \times 4) + 3^3) \times F(6) \\ = F(6) \times (3^3 + F(4 \times 5)).$$

$$54696 = (F(5 \times 4) + F(6) \times 9) \times F(6) \\ = F(6) \times (9 \times F(6) + F(4 \times 5)).$$

$$54737 = 5 \times (4 + F(7 \times 3)) - F(7) \\ = -F(7) + (F(3 \times 7) + 4) \times 5.$$

$$54936 = (F(5 \times 4) + F(9) \times 3) \times F(6) \\ = F(6) \times (3 \times F(9) + F(4 \times 5)).$$

$$55924 = -5^5 + 9^{F(2)+4} \\ = F(4)^{F(2)+9} - 5^5.$$

$$59057 = -5 + 9^{05} + F(7) \\ = F(7) - 5 + 09^5.$$

$$62896 = (F(6) \times F(2 \times 8) - F(9)) \times F(6) \\ = F(6) \times (-F(9) + F(8 \times 2) \times F(6)).$$

$$63376 = F(6) \times F(3 \times 3) \times F(7 + 6) \\ = F(6 + 7) \times F(3 \times 3) \times F(6).$$

$$63424 = F(6)^{F(3)} \times (4 + F(2^4)) \\ = (4 + F(2^4)) \times F(3)^6.$$

$$64847 = -F(6) + (4 + F(8)^{F(4)}) \times 7 \\ = 7 \times (4 + F(8)^{F(4)}) - F(6).$$

$$65447 = -F(6 + 5) + 4 \times 4^7 \\ = (F(7) + F(4))^4 - F(5 + 6).$$

$$65533 = F(6)^5 \times (5 - 3) - 3 \\ = -3 + F(3)^{5+5+6}.$$

$$65673 = -F(6) + 5 + 6 \times F(7 \times 3) \\ = F(3 \times 7) \times 6 + 5 - F(6).$$

$$68796 = (F(6) + F(9)) \times F(7) \times F(8) \times 6 \\ = 6 \times F(8) \times F(7) \times (F(9) + F(6)).$$

$$69626 = -6 + F(9) \times F(6) \times 2^{F(6)} \\ = -6 + 2^{F(6)} \times F(9) \times F(6).$$

$$69638 = 6 + F(9) \times F(6) \times F(3)^8 \\ = 8 \times F(3)^{F(6)} \times F(9) + 6.$$

$$69972 = (F(6) + F(9)) \times F(9) \times 7^2 \\ = (F(2 \times 7) - F(9)) \times F(9) \times 6.$$

$$69984 = 6 \times 9 \times 9 \times F(8 + 4) \\ = F(4 + 8) \times 9 \times 9 \times 6.$$

$$73739 = -7 + (F(3)^{F(7)} + F(3)) \times 9 \\ = 9 \times F(3)^{F(7)} - F(3) + F(7).$$

$$74415 = (7 + 4) \times F(4 \times 1 \times 5) \\ = F(5 \times 1 \times 4) \times (4 + 7).$$

$$74752 = -F(7) \times F(4) \times 7 + F(5^2) \\ = F(25) - F(7) \times F(4) \times 7.$$

$$74795 = (F(7) + F(4)^7) \times F(9) - 5 \\ = -5 + F(9) \times (F(7) + F(4)^7).$$

$$\begin{aligned} 74878 &= F(-7 + 4 \times 8) - 7 \times F(8) \\ &= -F(8) \times 7 + F(8 \times 4 - 7). \end{aligned}$$

$$\begin{aligned} 74936 &= (-7 + 4 \times 9) \times F(3 \times 6) \\ &= F(6 \times 3) \times (9 \times 4 - 7). \end{aligned}$$

$$\begin{aligned} 74952 &= -F(7) \times F(4) - F(9) + F(5^2) \\ &= F(25) - F(9) - F(4) \times F(7). \end{aligned}$$

$$\begin{aligned} 74997 &= -7 \times 4 + F(9 + 9 + 7) \\ &= F(7 + 9 + 9) - 4 \times 7. \end{aligned}$$

$$\begin{aligned} 75012 &= -F(7) + F((5 \times 01)^2) \\ &= F(2 \times 10 + 5) - F(7). \end{aligned}$$

$$\begin{aligned} 75025 &= F(7 \times 5 \times 0 + 25) \\ &= F(5^{2 \times 0 - 5 + 7}). \end{aligned}$$

$$\begin{aligned} 75026 &= -7 + F(5^{02}) + F(6) \\ &= -6 + F(20 + 5) + 7. \end{aligned}$$

$$\begin{aligned} 75029 &= F(7) + F(5^{02}) - 9 \\ &= -9 + F(20 + 5) + F(7). \end{aligned}$$

$$\begin{aligned} 75032 &= 7 + F(5^{0 \times 3 + 2}) \\ &= F((2 + 3) \times 05) + 7. \end{aligned}$$

$$\begin{aligned} 75038 &= F(7) + F(5 \times (-03 + 8)) \\ &= F((8 - 3) \times 05) + F(7). \end{aligned}$$

$$\begin{aligned} 76398 &= (F(7) \times F(6) + 3) \times F(9) \times F(8) \\ &= F(8) \times F(9) \times (3 + F(6) \times F(7)). \end{aligned}$$

$$\begin{aligned} 76622 &= 7 \times F((6 + 6^2)/2) \\ &= F(22 - 6/6) \times 7. \end{aligned}$$

$$\begin{aligned} 76678 &= 7 \times (F(6) + F(6 + 7 + 8)) \\ &= (F(8 + 7 + 6) + F(6)) \times 7. \end{aligned}$$

$$\begin{aligned} 76853 &= -7 + 6 \times F(8) \times F(5 \times 3) \\ &= F(3 \times 5) \times F(8) \times 6 - (7). \end{aligned}$$

$$\begin{aligned} 76978 &= F(7) \times 6 \times F(9 + 7) - 8 \\ &= -8 + F(7 + 9) \times 6 \times F(7). \end{aligned}$$

$$\begin{aligned} 78735 &= (F(7) - 8)^7 + F(3 \times 5) \\ &= F(5 \times 3) + (F(7) - 8)^7. \end{aligned}$$

$$\begin{aligned} 79947 &= F(7 + 9) \times (F(9) + 47) \\ &= (F(7) - 4) \times 9 \times F(9 + 7). \end{aligned}$$

$$\begin{aligned} 79968 &= (F(7) \times F(9) + F(9)) \times F(6) \times F(8) \\ &= 8 \times (F(6) + F(9)) \times F(9) \times 7. \end{aligned}$$

$$\begin{aligned} 82936 &= (8 \times (2 + F(9)))^{F(3)} - F(6) \\ &= (F(6) \times (F(3) + F(9)))^2 - 8. \end{aligned}$$

$$\begin{aligned} 83349 &= F(8)^3 \times 3^4/9 \\ &= (9 \times (4 + 3))^{F(3)} \times F(8). \end{aligned}$$

$$\begin{aligned} 85764 &= F(8) \times (-5 - 7 + F(6)^4) \\ &= (4^6 - 7 - 5) \times F(8). \end{aligned}$$

$$\begin{aligned} 86919 &= (-F(9) + F(19) - F(6)) \times F(8) \\ &= F(8) \times (-F(6) - F(9) + F(19)). \end{aligned}$$

$$\begin{aligned} 87387 &= (-F(8) + F(7 \times 3)) \times 8 - F(7) \\ &= -F(7) + (-F(8) + F(3 \times 7)) \times 8. \end{aligned}$$

$$\begin{aligned} 87639 &= F(8) + (-7 + F(6 \times 3)) \times F(9) \\ &= F(9) \times (F(3 \times 6) - 7) + F(8). \end{aligned}$$

$$\begin{aligned} 87672 &= 8 \times (F(7) + F(6 \times 7/2)) \\ &= (F(27 - 6) + F(7)) \times 8. \end{aligned}$$

$$\begin{aligned} 87736 &= 8 + F(7) + F(7 \times 3) \times F(6) \\ &= (F(6) + F(3 \times 7) + F(7)) \times 8. \end{aligned}$$

$$\begin{aligned} 87856 &= (F(8) + F(7)) \times F((8 - 5) \times 6) \\ &= F(6 \times (-5 + 8)) \times (F(7) + F(8)). \end{aligned}$$

$$\begin{aligned} 87937 &= -8 + F(7) \times F(9 \times 3 - 7) \\ &= F(7) \times F(3 \times 9 - 7) - 8. \end{aligned}$$

$$\begin{aligned} 87945 &= (-8 - F(7) + F(9)) \times F(4 \times 5) \\ &= F(5 \times 4) \times (F(9) - F(7) - 8). \end{aligned}$$

$$\begin{aligned} 88595 &= (8 + F(8 + 5 + 9)) \times 5 \\ &= 5 \times (F(9 + 5 + 8) + 8). \end{aligned}$$

$$\begin{aligned} 89964 &= F(8) \times F(9) \times (F(9) + F(6)) \times F(4) \\ &= F(4) \times (F(6) + F(9)) \times F(9) \times F(8). \end{aligned}$$

$$\begin{aligned} 91982 &= F(9 + 1 + 9) \times (F(8) + F(2)) \\ &= (F(2) + F(8)) \times F(9 + 1 + 9). \end{aligned}$$

$$\begin{aligned} 93346 &= F(9) + F(3) \times (F(3) + 4)^6 \\ &= 6^{4+3}/3 + F(9). \end{aligned}$$

$$\begin{aligned} 98325 &= 9 \times (-F(8) + F(3 \times (2 + 5))) \\ &= (F((5 + 2) \times 3) - F(8)) \times 9. \end{aligned}$$

$$\begin{aligned} 98469 &= (9 + F(6)^{F(4)}) \times F(8) \times 9 \\ &= F(9) + (8 - F(4)) \times F(4)^9. \end{aligned}$$

$$\begin{aligned} 98577 &= 9 \times (F((8 - 5) \times 7) + 7) \\ &= (7 + F(7 \times (-5 + 8))) \times 9. \end{aligned}$$

$$\begin{aligned} 98586 &= 9 \times (F(8 + 5 + 8) + F(6)) \\ &= (F(6) + F(8 + 5 + 8)) \times 9. \end{aligned}$$

$$\begin{aligned} 98703 &= 9 \times (F(8) + F(7 \times 03)) \\ &= (F(3 \times 07) + F(8)) \times 9. \end{aligned}$$

6.2 Digit's Order

$$\begin{aligned}
 245 &= 2 + F(4)^5. \\
 256 &= 2^5 \times F(6). \\
 1042 &= F(10) + F(4^2). \\
 1293 &= F(12) \times 9 - 3. \\
 1429 &= 1 + 42 \times F(9). \\
 1597 &= F(1^5 + 9 + 7). \\
 1598 &= 1^5 + F(9 + 8). \\
 1736 &= (-1 + F(7))^3 + F(6). \\
 1763 &= -1 + (7 \times 6)^{F(3)}. \\
 \\
 1976 &= 19 \times F(7) \times F(6). \\
 2048 &= 2^{F(04)+8}. \\
 2185 &= (F(21) - F(8))/5. \\
 2736 &= (2 \times 7)^3 - F(6). \\
 2742 &= (2 \times 7)^{F(4)} - 2. \\
 2744 &= (-2 + F(7) + F(4))^{F(4)}. \\
 2746 &= (2 + 7^{F(4)}) \times F(6). \\
 3178 &= F(3) \times (F(17) - 8). \\
 3367 &= 3 + F(3)^{F(6)} \times F(7). \\
 \\
 3584 &= (F(3) + 5) \times 8^{F(4)}. \\
 3602 &= F(3) + 60^2. \\
 3603 &= 3 + 60^{F(3)}. \\
 3948 &= F(3) \times 94 \times F(8). \\
 4197 &= F(4) + F(19) + F(7). \\
 4198 &= -4 + F(19) + F(8). \\
 4794 &= 47 \times F(9) \times F(4). \\
 \\
 6548 &= -F(6) - 5 + F(4)^8. \\
 6794 &= F(6 + 7) + 9^4. \\
 6928 &= 6 \times F(9)^2 - 8. \\
 6933 &= 6 \times F(9)^{F(3)} - 3. \\
 7776 &= (-7 + F(7))^{F(7)-F(6)}. \\
 8213 &= F(8) + 2^13. \\
 9474 &= 9^{F(4)} \times F(7) - F(4). \\
 9477 &= 9^{-4+7} \times F(7). \\
 \\
 10936 &= -10 + F(9 \times 3 - 6). \\
 10946 &= F(10 + 9 - 4 + 6). \\
 11177 &= -1 - 1 + F(17) \times 7. \\
 11489 &= (1 + (1 + 4)^8)/F(9). \\
 12348 &= (F(12) + 3) \times 4 \times F(8). \\
 12384 &= F(12) \times (F(3) + 84). \\
 12672 &= F(12) \times F(6) \times (F(7) - 2). \\
 12816 &= F(12) \times (81 + F(6)). \\
 \\
 13247 &= -1 + F(3) \times F(24)/7. \\
 13520 &= F(1 \times 3) \times (-5 + F(20)). \\
 13530 &= F((1 + 3) \times 5) \times F(3) + 0. \\
 13543 &= 13 + F(5 \times 4) \times F(3). \\
 13747 &= F(13) \times (F(7) \times 4 + 7). \\
 13776 &= (F(13) + F(7)) \times 7 \times F(6). \\
 13823 &= -1 + (3 \times F(8 - 2))^3. \\
 13824 &= ((1 + 3 + 8) \times 2)^{F(4)}. \\
 \\
 14179 &= 1 + 417 \times F(9). \\
 14326 &= F(14) \times (32 + 6). \\
 14373 &= F(14 + 3) \times (7 + F(3)). \\
 14739 &= (-1 + 4 \times F(7))^3/9. \\
 15448 &= F((1 + 5) \times 4)/F(4) - 8. \\
 15456 &= F((1 + 5) \times 4)/(-5 + F(6)). \\
 15616 &= -1 + 5^6 - 1 \times F(6). \\
 15625 &= 1 \times 5^{F(6)}/25. \\
 \\
 15627 &= 1 + 5^6 + F(2)^{F(7)}. \\
 15634 &= 1 \times 5^6 + 3 \times F(4). \\
 15635 &= 1 \times 5^6 + F(3) \times 5. \\
 15636 &= 1 \times 5^6 + 3 + F(6). \\
 15637 &= 1 + 5^6 - F(3) + F(7). \\
 15647 &= 1 + 5^6 + F(4) \times 7. \\
 15648 &= -1 + 5^6 + F(4) + F(8). \\
 15673 &= -1 + 5^6 + 7^{F(3)}. \\
 \\
 15692 &= -1 + 5^6 + F(9) \times 2. \\
 15693 &= 1 \times 5^6 + F(9) \times F(3). \\
 15696 &= -1 + 5^6 + 9 \times F(6). \\
 15855 &= F(15) \times (F(8) + 5) - 5. \\
 16347 &= -1 - 6^{F(3)} + 4^7. \\
 16368 &= -16 + F(3)^{6+8}. \\
 16371 &= -F(1 + 6) + F(3)^{F(7)+1}. \\
 16372 &= -1 \times 6 + F(3)^{F(7)} \times 2.
 \end{aligned}$$

$$16373 = 1 - 6 + F(3)^{F(7)} \times F(3).$$

$$16378 = -1 \times 6 + F(3)^{-7+F(8)}.$$

$$16779 = F(16) \times ((F(7) + F(7)) - 9).$$

$$16794 = -F(1 + 6) + 7^{9-4}.$$

$$16807 = (1 + 6)^{-8+F(07)}.$$

$$16815 = F(1 \times 6) + (8 - 1)^5.$$

$$16847 = -1 + 6^{8-4} \times F(7).$$

$$16863 = F(16) + (F(8) \times 6)^{F(3)}.$$

$$17239 = 1 + F(7)^2 \times 3 \times F(9).$$

$$17399 = (1 + 7)^3 \times F(9) - 9.$$

$$17564 = F(17) \times (5 + 6) - F(4).$$

$$17568 = (-1 + F(7))^{-5+F(6)} \times 8.$$

$$17583 = 1 \times 7 + (5 + F(8))^3.$$

$$17584 = 1 + 7 + (5 + F(8))^{F(4)}.$$

$$17622 = -F(17 - 6) + F(22).$$

$$17697 = -1 - F(7) + F(6 + 9 + 7).$$

$$17728 = 17 + F(7 \times 2 + 8).$$

$$17849 = -1 + (F(7) + 8^{F(4)}) \times F(9).$$

$$17947 = F(17) - F(9) + 4^7.$$

$$18079 = F(18) \times 07 - 9.$$

$$18177 = -F(18) + F(17) \times F(7).$$

$$18473 = F((18 - 4)) \times (7^{F(3)}).$$

$$18496 = (F(1 + 8) \times 4)^{F(9-6)}.$$

$$18523 = 1 + F(8)^{5-2} \times F(3).$$

$$18970 = (-1 + 8 \times F(9)) \times 70.$$

$$19278 = 1 \times F(9) \times 27 \times F(8).$$

$$19279 = 1 + 9^2 \times 7 \times F(9).$$

$$19652 = 1 \times F(9)^{F(6)-5}/2.$$

$$19653 = 1 + F(9)^{F(6)-5}/F(3).$$

$$19772 = -1 + 9 \times F(7) \times F(7)^2.$$

$$19773 = 1 \times 9 \times F(7)^{F(7-3)}.$$

$$19774 = 1 + 9 \times F(7)^{7-4}.$$

$$20295 = F(20) \times F(2) \times F(9 - 5).$$

$$20304 = (F(20) + 3) \times F(04).$$

$$20329 = F(20) \times 3 \times F(2) + F(9).$$

$$20347 = F(20) \times 3 + 4 \times F(7).$$

$$20439 = F(20) \times F(4) + F(3 + 9).$$

$$20484 = (F(20) + F(4) \times F(8)) \times F(4).$$

$$20692 = 20 + F(6) \times F(9 \times 2).$$

$$20736 = (-F(2) + F(07))^{-F(3)+6}.$$

$$21762 = F(21) + (F(7) \times F(6))^2.$$

$$21837 = (F(21) - F(8)) \times F(3) - F(7).$$

$$21953 = F(2) + (-1 + F(9) - 5)^3.$$

$$21954 = 2 + (-1 + F(9) - 5)^{F(4)}.$$

$$22135 = 2 \times F(21) + 3^5.$$

$$22528 = (2 + 2)^5 \times (F(2) + F(8)).$$

$$23744 = F(23) - (F(7) + 4)^{F(4)}.$$

$$24574 = -2 - (F(4) - 5)^{F(7)} \times F(4).$$

$$24577 = F(2) + F(4) \times (-5 + 7)^{F(7)}.$$

$$26236 = (-2 + 6) \times (-2 + 3^{F(6)}).$$

$$26246 = 2 + 6^2 \times F(4)^6.$$

$$26248 = (-2 + 6) \times (F(2) + F(4)^8).$$

$$26984 = -2 \times F(6) + (9 + F(8))^{F(4)}.$$

$$27634 = 2 \times (-7 + (F(6) \times 3)^{F(4)}).$$

$$27644 = 2^7 \times 6^{F(4)} - 4.$$

$$27945 = (-2 + F(7) \times 9) \times F(4)^5.$$

$$28226 = 2 + F(8)^2 \times 2^6.$$

$$28562 = F(2) + (8 + 5)^{6-2}.$$

$$28563 = 2 + (8 + 5)^{F(6)/F(3)}.$$

$$28574 = F(2) \times (8 + 5) + F(7)^4.$$

$$28584 = 2 + F(8) + (5 + 8)^4.$$

$$28629 = -28 + F(-6 + 29).$$

$$28728 = (-2 + F(8)) \times 72 \times F(8).$$

$$28823 = -2 + 8 \times F(8) + F(23).$$

$$28928 = 2^8 \times (92 + F(8)).$$

$$29184 = (2 + F(9 + 1)) \times 8^{F(4)}.$$

$$29466 = (-2 + F(9)^{F(4)}/F(6)) \times 6.$$

$$29522 = (-F(2) + 9^5)/2 - 2.$$

$$29523 = (F(2) + 9^5)/2 - F(3).$$

$$29525 = (F(2) + 9^5)/F(-2 + 5).$$

$$29537 = (-F(2) + 9^5)/F(3) + F(7).$$

$$29584 = (2 + F(9) \times 5)^{8/4}.$$

$$29644 = F(29 - 6) + F(4 \times 4).$$

$$29793 = 2 + (9 + F(7) + 9)^3.$$

$$31248 = 31 \times (F(2^4) + F(8)).$$

$$31256 = F(3) \times (1 + 2 + 5^6).$$

$$31757 = -F(31 - 7) + 5^7.$$

$$31944 = (3 + 19)^{F(4)} \times F(4).$$

$$32734 = F(3)^{2+F(7)} - 34.$$

$$32757 = F(3) + (F(2) + 7)^5 - F(7).$$

$$32773 = F(3)^{2+F(7)} + 7 - F(3).$$

$$32774 = F(3) \times (2^{7+7} + F(4)).$$

$$32776 = F(3) \times 2^{7+7} + F(6).$$

$$32781 = F(3)^{2+F(7)} + F(8 - 1).$$

$$32796 = F(3)^{2+F(7)} + F(9) - 6.$$

$$32798 = F(3)^{2+F(7)} + 9 + F(8).$$

$$32844 = 3 \times (2 + F(84/4)).$$

$$32877 = 3 \times (F(28 - 7) + F(7)).$$

$$33792 = F(3)^{3+7} \times (F(9) - F(2)).$$

$$33825 = (F(3) + 3) \times F(8/2 \times 5).$$

$$34742 = F(3) \times (4^7 + F(4^2)).$$

$$34974 = 3 \times (-4 + F(9) \times 7^{F(4)}).$$

$$34989 = 3 + 49 \times F(8) \times F(9).$$

$$35934 = (-F(-3 + 5) + F(9))^3 - F(4).$$

$$35987 = -3 + 59 \times F(8 + 7).$$

$$36193 = F(3)^{F(6)} + (-1 + F(9))^3.$$

$$36864 = F(3)^{F(6)} \times F(8 \times 6/4).$$

$$37196 = (3^7 + 1) \times (9 + F(6)).$$

$$37347 = -F(3) + F(7)^3 \times (4 + F(7)).$$

$$37439 = F(3) \times F(7)^4 - 3^9.$$

$$37522 = 3 + (F(7) + F(5^2))/2.$$

$$37523 = (3 \times 7 + F(5^2))/F(3).$$

$$37632 = 3 \times (7 \times F(6) \times F(3))^2.$$

$$38328 = 3 \times 8 \times F(3^2 + 8).$$

$$38374 = -F(3) \times F(8) + (F(3) \times 7)^4.$$

$$38845 = (-F(3)^8 + F(8)^4)/5.$$

$$39194 = -F(3) \times F(9 + 1) + F(9)^{F(4)}.$$

$$39236 = (-F(3) + F(9)^2) \times F(3 + 6).$$

$$39273 = 3 - F(9) + F(2 + 7)^3.$$

$$39285 = (F(3 \times 9) - F(2) + 8)/5.$$

$$39293 = F(3) - F(9 - 2) + F(9)^3.$$

$$39294 = -3 - 9 + 2 + F(9)^{F(4)}.$$

$$39304 = F(3 \times 9/3)^{F(04)}.$$

$$39339 = 3^9 \times F(3) - 3 \times 9.$$

$$43173 = F(4)^3 \times (F(17) + F(3)).$$

$$43742 = 4 \times F(3 \times 7) - 42.$$

$$43782 = (-4 + F(3 \times 7) \times 8)/2.$$

$$43787 = 4 \times F(3 \times 7) + F(8)/7.$$

$$45344 = -4^5 + F(3 \times (4 + 4)).$$

$$45346 = -4^5 + F(3) + F(4 \times 6).$$

$$45783 = -45 \times F(7) + F(8 \times 3).$$

$$46124 = -4 \times 61 + F(24).$$

$$46125 = F(4 \times 6) - (1 + 2)^5.$$

$$46133 = F(4 \times 6) - F(13) - F(3).$$

$$46172 = F(4 \times 6) - (1 + F(7))^2.$$

$$46184 = F(4 \times 6) - 184.$$

$$46243 = F(4 \times 6) - (F(2) + 4)^3.$$

$$46256 = F(4 \times 6) - 2 \times 56.$$

$$46310 = F(4 \times 6) - 3 - F(10).$$

$$46317 = F(4 \times 6) - 3 \times 17.$$

$$46327 = F(4 \times 6) - F(3^2) - 7.$$

$$46335 = F(4 \times 6) + F(3) - 35.$$

$$46370 = F(4 \times 6) + F(3 + 7 \times 0).$$

$$46372 = 4 + F(6^3)/(7 + 2).$$

$$46373 = F(4 \times 6) + F(3) + F(7 - 3).$$

$$46374 = F(4 \times 6) + 3 + 7 - 4.$$

$$46416 = F(4 \times 6) + F(4) \times 16.$$

$$46431 = F(4 \times 6) + 4^3 - 1.$$

$$46493 = F(4 \times 6) + (-4 + 9)^3.$$

$$46524 = F(4 \times 6) + 52 \times F(4).$$

$$46692 = 4 + 6^6 + F(9) - 2.$$

$$46698 = F(4 \times 6) + 6 \times (F(9) + F(8)).$$

$$46993 = F(4 \times 6) + (F(9) - 9)^{F(3)}.$$

$$48382 = 48^{F(3)} \times F(8) - 2.$$

$$48672 = 48 \times 6 \times F(7)^2.$$

$$48828 = ((-F(4) + 8)^8 - F(2))/8.$$

$$49278 = (-F(4) + 9) \times (2^{F(7)} + F(8)).$$

$$49464 = (-4 + F(9 + 4)) \times 6^{F(4)}.$$

$$50653 = (50 - F(6) - 5)^3.$$

$$52486 = -F(5 - 2) + F(4)^8 \times F(6).$$

$$52733 = 5 + (2 \times F(7))^3 \times 3.$$

$$52743 = -5 + (2 \times F(7))^{F(4)} \times 3.$$

$$53680 = F(5 \times 3) \times (F(6) + 80).$$

$$54120 = (5 + F(4)) \times 1 \times F(20).$$

$$54176 = (F(5 \times 4) + 1 \times 7) \times F(6).$$

$$54348 = (F(54/3) + 4) \times F(8).$$

$$54576 = (F(5 \times 4) + 57) \times F(6).$$

$$54795 = 5 \times F(4 \times 7)/(F(9) - 5).$$

$$55339 = F(5 \times 5) - 3 - 3^9.$$

$$55342 = F(5 \times 5) - 3^{F(4)^2}.$$

$$56448 = 56 \times (F(4 \times 4) + F(8)).$$

$$57349 = 5 + 7 \times F(3)^{4+9}.$$

$$57645 = 5^7 - F(6)^4 \times 5.$$

$$58957 = -5 \times F(8) + 9^5 + F(7).$$

$$59049 = F(-5 + 9) \times F(04)^9.$$

$$59314 = (5 + F(9))^3 - 1 - 4.$$

$$59315 = (5 + F(9))^3 + 1 - 5.$$

$$59318 = (5 + F(9))^3 - 1^8.$$

$$59319 = (5 + F(9))^3 \times 1^9.$$

$$59338 = (5 + F(9))^3 - F(3) + F(8).$$

$$59347 = (5 + F(9))^3 + 4 \times 7.$$

$$59349 = (5 + F(9))^3 - 4 + F(9).$$

$$59383 = (5 + F(9))^3 + 8^{F(3)}.$$

$$59392 = (-5 + F(9)) \times F(3)^{9+2}.$$

$$59426 = F(5 + 9) + F(4)^{2+F(6)}.$$

$$60945 = 60 + 9 \times F(4 \times 5).$$

$$61488 = 61 \times 48 \times F(8).$$

$$61848 = F(6) \times (F(18) \times F(4) - F(8)).$$

$$62016 = F(6) \times (F(20) + F(16)).$$

$$62564 = F(6)^2 + 5^6 \times 4.$$

$$62946 = -6 - F(2 \times 9) + 4^{F(6)}.$$

$$63164 = F(6)^{F(3)} \times F(16) - 4.$$

$$63175 = F(6 \times (3 + 1)) + 7^5.$$

$$63964 = -6^{F(3)} + (F(9) + 6)^{F(4)}.$$

$$63994 = -6 + (-3 + 9 + F(9))^{F(4)}.$$

$$64837 = 6 + 4 + F(8)^3 \times 7.$$

$$64872 = 6 \times (-4 + (8 \times F(7))^2).$$

$$65142 = (65 + 1) \times F(4^2).$$

$$65368 = F(6)^5 \times F(3) - F(6) \times F(8).$$

$$65446 = -6 \times 5 \times F(4) + 4^{F(6)}.$$

$$65468 = -F(6 + 5) + 4^{F(6)} + F(8).$$

$$65488 = -F(6) \times 5 + 4^8 - 8.$$

$$65489 = -F(6) - 5 + 4^8 - F(9).$$

$$65523 = (F(6)^5 - 5) \times 2 - 3.$$

$$65528 = F(6)^5 \times F(5 - 2) - 8.$$

$$65536 = F(6)^5 \times (5 + 3 - 6).$$

$$65538 = (F(6)^5 + 5) \times F(3) - 8.$$

$$65546 = (F(6)^5 + 5) \times (-4 + 6).$$

$$65694 = 6 \times (F(5 \times 6 - 9) + F(4)).$$

$$65746 = 6 \times 5 \times 7 + 4^{F(6)}.$$

$$65892 = (65 - 8) \times F(9)^2.$$

$$67116 = (67 + 1) \times F(16).$$

$$67184 = 6 \times F(7) \times F(18)/F(4).$$

$$67712 = F(6) \times (F(7) \times 7 + 1)^2.$$

$$68913 = -F(6) + (8 + F(9) - 1)^3.$$

$$72893 = -7 + (-2 + 8 \times F(9))^{F(3)}.$$

$$73769 = -F(7) + (F(3)^{F(7)} + 6) \times 9.$$

$$73963 = -7 \times 3 + (F(9) \times F(6))^{F(3)}.$$

$$74379 = 7 \times F(4) + 3^7 \times F(9).$$

$$74694 = F(7)^{-F(4)+6} \times F(9) - 4.$$

$$74698 = F(7)^{F(4)} \times F(6) \times F(9)/8.$$

$$74872 = 7^{F(4)} + (F(8) \times F(7))^2.$$

$$74938 = F(7)^4 + 9 + F(3 \times 8).$$

$$74996 = (F(7)^{F(4)} + 9) \times F(9) - F(6).$$

$$75169 = F(7 + 5) + F(16 + 9).$$

$$75625 = 75 \times F(6) + F(25).$$

$$75647 = 7 + F(5 \times 6)/(4 + 7).$$

$$76464 = (7 \times F(6) + F(4)) \times 6^4.$$

$$76594 = 7 \times (F(6 \times 5 - 9) - 4).$$

$$76832 = -7^6 + F(8)^{F(3) \times 2}.$$

$$78125 = (F(7) - 8)^{1 \times 2 + 5}.$$

$$81796 = ((F(8) + 1) \times F(7))^{F(9-6)}.$$

$$82937 = (8 \times (2 + F(9)))^{F(3)} - 7.$$

$$82944 = (-8 - 2 + F(9))^4/4.$$

$$83232 = 8 \times (F(3^2) \times 3)^2.$$

$$83328 = ((F(8) \times 3)^{F(3)} - F(2)) \times F(8).$$

$$85184 = (F(8) + 5 + 18)^{F(4)}.$$

$$85224 = 8 \times (5 + 22^{F(4)}).$$

$$85742 = -8 + (5 \times 7)^{F(4)} \times 2.$$

$$85848 = F(8) \times ((-5 + F(8))^{F(4)} - 8).$$

$$86184 = F(8) \times (F(6) + 1 \times 8^4).$$

$$86528 = (8 \times (F(6) + 5))^2 \times 8.$$

$$87568 = 8 \times F(7 \times 5 - 6 - 8).$$

$$87820 = -F(8) + F(7) \times (-8 + F(20)).$$

$$89712 = 89 \times 7 \times F(12).$$

$$91125 = (F(9) + 11)^{-2+5}.$$

$$91145 = 9 + F(11) \times 4^5.$$

$$93393 = (F(9)^{F(3)} - 3) \times 9^{F(3)}.$$

$$93628 = (9 \times F(3 + 6))^2 - 8.$$

$$\begin{aligned}
93633 &= (9 \times F(3 + 6))^{F(3)} - 3. \\
93636 &= (9 \times F(3 + 6))^{F(-3+6)}. \\
97333 &= (-9 + F(7 + 3))^3 - 3. \\
97336 &= (-9 + F(7 + 3))^{-3+6}. \\
97344 &= 9 \times F(7)^{F(3)} \times 4^{F(4)}. \\
97417 &= (9 + F(7) \times 4) \times F(17). \\
97682 &= (F(9) \times F(7))^{-6+8}/2.
\end{aligned}$$

$$\begin{aligned}
98192 &= F(9) \times 8 \times (19^2). \\
98376 &= (-9 + F(8)) \times (F(3))^{F(7)} + 6). \\
98514 &= 9 \times F((85 - 1)/4). \\
98784 &= 98 \times 7 \times F(8 + 4). \\
98974 &= F(9) \times (F(8) \times F(9) + F(7))^{F(4)}. \\
99223 &= (9 \times (F(9) + F(2)))^2 - F(3). \\
99225 &= (9 \times (F(9) + F(2)))^{F(-2+5)}.
\end{aligned}$$

6.3 Reverse Order of Digits

$$\begin{aligned}
36 &= 6^{F(3)}. \\
84 &= 4 \times F(8). \\
189 &= 9 \times F(8) \times 1. \\
231 &= F(13) - 2. \\
243 &= 3^{F(4)+2}. \\
438 &= F(8)^{F(3)} - F(4). \\
882 &= 2 \times F(8) \times F(8). \\
1631 &= F(13) \times (6 + 1). \\
1897 &= 7 \times (F(9) \times 8 - 1). \\
1972 &= 2 \times (F(7 + 9) - 1).
\end{aligned}$$

$$\begin{aligned}
4455 &= 55 \times F(4)^4. \\
4736 &= F(6)^{F(3)} \times 74. \\
4781 &= F(18) + F(7)^{F(4)}. \\
4896 &= 6 \times F(9) \times 8 \times F(4). \\
4935 &= 5 \times F(3 + 9 + 4). \\
5473 &= F(3 \times 7)/(-F(4) + 5). \\
5728 &= F(8)^2 \times F(7) - 5. \\
5738 &= F(8)^{F(3)} \times F(7) + 5.
\end{aligned}$$

$$\begin{aligned}
2197 &= F(7)^{9/(1+2)}. \\
2296 &= (-F(6) + F(9)^2) \times 2. \\
2581 &= F(18) - 5 + 2. \\
2688 &= 8 \times F(8) \times F(6) \times 2. \\
2704 &= (4 \times F(07))^2. \\
3025 &= F(5 \times 2)^{F(03)}. \\
3087 &= 7 \times F(8)^{F(03)}. \\
3364 &= (F(4 + 6) + 3)^{F(3)}. \\
3372 &= (2 + F(7))^3 - 3. \\
3495 &= 5 \times F(9 + 4) \times 3.
\end{aligned}$$

$$\begin{aligned}
5825 &= 5^2 \times F(8 + 5). \\
6489 &= -9 \times 8 + F(4)^{F(6)}. \\
6493 &= -F(3) \times F(9) + F(4)^{F(6)}. \\
6561 &= 1 \times (F(6) - 5)^{F(6)}. \\
6765 &= F(-56 + 76). \\
7756 &= 6^5 - F(7) - 7. \\
7896 &= F(6) \times 987. \\
8172 &= 2^{F(7)} + 1 - F(8). \\
9248 &= F(8)^{F(4)} - F(-2 + 9).
\end{aligned}$$

$$\begin{aligned}
3528 &= F(8)^2 \times (5 + 3). \\
3635 &= 5 \times (3^6 - F(3)). \\
3645 &= 5 \times (F(4) + 6)^3. \\
3718 &= (F(8) + 1) \times F(7)^{F(3)}. \\
3969 &= (9 \times 6 + 9)^{F(3)}. \\
3999 &= (9 + F(9)) \times 93. \\
4096 &= F(6)^{9 \times 0+4}. \\
4147 &= (7 + 4) \times F(14). \\
4181 &= F(18 + 1^4). \\
4374 &= F(4)^7 \times (-F(3) + 4).
\end{aligned}$$

$$\begin{aligned}
10912 &= F(21) - F(9 \times 01). \\
11125 &= 5^{2+1} \times F(11). \\
11264 &= (4 \times F(6))^2 \times 11. \\
11664 &= (F(4) \times 6 \times 6)^{1+1}. \\
11837 &= 7 \times (-F(3) + F(8)) \times F(11). \\
11844 &= F(4) \times 4 \times F(8 \times (1 + 1)). \\
12238 &= F(8 \times 3)/2 - F(21). \\
12537 &= (-F(7) + F(3 \times 5)) \times 21. \\
12543 &= 3 \times F((4 + 5) \times 2 + 1). \\
12768 &= (F(8) \times 6 - F(7))^2 - 1.
\end{aligned}$$

$$12769 = (9 + F(6) \times F(7))^2 \times 1.$$

$$12815 = 5 \times (F(18) - 21).$$

$$12831 = 13 \times F(8 \times 2 \times 1).$$

$$12873 = 3 + F(7 + 8) \times 21.$$

$$12915 = 5 \times (-1 + F(9 \times 2 \times 1)).$$

$$12925 = 5 \times (F(2) + F(9 \times 2)) \times 1.$$

$$12935 = 5 \times (3 + F(9 \times 2 \times 1)).$$

$$12945 = 5 \times (4 + F(9 \times 2) + 1).$$

$$12965 = 5 \times (F(6) + F(9 \times 2) + 1).$$

$$13176 = 6 \times (F(7)^{1 \times 3} - 1).$$

$$13377 = F(7) \times 7^3 \times 3 \times 1.$$

$$13689 = (9 \times (F(8) - F(6)))^{3-1}.$$

$$13715 = 5 \times ((1 + F(7))^3 - 1).$$

$$13798 = F(8) \times 9 \times 73 + 1.$$

$$14635 = -5 + (3 + F(6))^4 - 1.$$

$$14636 = -6 + (3 + F(6))^4 + 1.$$

$$14759 = (9^5 - F(7))/4 \times 1.$$

$$15251 = F(15) \times 25 + 1.$$

$$15366 = 6 \times (F(6)^3 \times 5 + 1).$$

$$15488 = 8 \times 8 \times (F(4)^5 - 1).$$

$$15498 = F(8) \times (9 + F(4)^{5+1}).$$

$$15544 = -F(4)^4 + 5^{5+1}.$$

$$15563 = F(3) \times (6^5 + 5) + 1.$$

$$15583 = -F(3) \times F(8) + 5^{5+1}.$$

$$15591 = -1 \times F(9) + 5^{5+1}.$$

$$15623 = -F(3) + (-F(2) + 6)^{5+1}.$$

$$15633 = (F(3) + 3)^6 + F(5 + 1).$$

$$15676 = (-F(6) + F(7))^6 + 51.$$

$$15771 = F(1 + 7) \times 751.$$

$$15792 = 2 \times F(9 + 7) \times F(5 + 1).$$

$$16382 = -2 + (8/F(3))^{6+1}.$$

$$16418 = F(8 + 1) + 4^{6+1}.$$

$$16419 = F(9) + 1 + 4^{6+1}.$$

$$16724 = 4 \times F(2 \times 7 + 6 - 1).$$

$$16739 = -F(9) \times F(3) + 7^{6-1}.$$

$$16752 = -F(2 \times 5) + 7^{6-1}.$$

$$16758 = F(8) \times (5 + F(7) \times 61).$$

$$16828 = F(8) + (-F(2) + 8)^{6-1}.$$

$$16926 = 62 \times (F(9) \times F(6) + 1).$$

$$17199 = 9 \times 91 \times F(7 + 1).$$

$$17253 = 3^5 \times F(2) \times 71.$$

$$17339 = F(9)^{F(3)} \times (F(3) + F(7)) - 1.$$

$$17456 = F(6) \times (-5 + F(4)^7 \times 1).$$

$$17484 = -4 + 8 \times (F(4)^7 - 1).$$

$$17488 = 8 \times (F(8 - 4)^7 - 1).$$

$$17576 = F(6) \times F(7)^{-5+7+1}.$$

$$17647 = F(7)^{F(4)} \times F(6) + 71.$$

$$17664 = F(4 \times 6) \times F(6)/F(7 + 1).$$

$$17697 = F(7 + 9 + 6) - F(7) - 1.$$

$$17712 = F(21 + 7/7) + 1.$$

$$17725 = F(-5 + 27) + F(7) + 1.$$

$$18482 = 2 \times (F(8)^{F(4)} - F(8) + 1).$$

$$18592 = (-2 + F(9)) \times 581.$$

$$18873 = F(3 \times 7 - 8) \times 81.$$

$$18954 = (F(4)^5 - 9) \times 81.$$

$$19355 = 553 \times (F(9) + 1).$$

$$19656 = 6^{-5+F(6)} \times 91.$$

$$19745 = 5 \times (4 \times F(7 + 9) + 1).$$

$$19873 = (3^7 + F(8)) \times 9 + 1.$$

$$19893 = 3^9 + F(8) \times (9 + 1).$$

$$20193 = 3 \times (-F(9) + F(10 \times 2)).$$

$$20273 = 3 \times (-7 + F(20)) - F(2).$$

$$20295 = F(-5 + 9) \times F(20) \times F(2).$$

$$20296 = (-6 + 9) \times F(20) + F(2).$$

$$20485 = 5 \times (8^4 + F(02)).$$

$$20886 = 6 \times (-F(8) + 80)^2.$$

$$20915 = 5 \times (F(19) + 02).$$

$$21892 = F(29 - 8) \times 1 \times 2.$$

$$21912 = (F(21) + 9 + 1) \times 2.$$

$$22799 = (F(9) + 9 \times F(7))^2 - 2.$$

$$23176 = -F(6) + F((7 + 1) \times 3)/2.$$

$$23177 = -7 + F((7 + 1) \times 3)/2.$$

$$23188 = (8 + F(8 \times 1 \times 3))/2.$$

$$23197 = F(7) + F((9 - 1) \times 3)/2.$$

$$23256 = F(6 \times (5 - 2)) \times 3^2.$$

$$23264 = (F(4)^6 - 2) \times 32.$$

$$23329 = ((F(9) + 2)^3 + F(3))/2.$$

$$23409 = (9 + F(04 \times 3))^2.$$

$$23478 = F(8) \times F(7) \times 43 \times 2.$$

$$23718 = ((F(8) + 1) \times 7)^{F(3)} + 2.$$

$$23826 = 6 \times (2 + (F(8) \times 3)^2).$$

$$23898 = F(8) \times F(9) + F(8 \times 3)/2.$$

$$23991 = (-1 + F(9)) \times (9^3 - 2).$$

$$24126 = F(6)^2 \times F(14) - 2.$$

$$24128 = 8^2 \times F(14) \times F(2).$$

$$24255 = 55 \times F(2 \times 4)^2.$$

$$24326 = -F(6) + 23^{F(4)} \times 2.$$

$$24327 = -7 + 23^{F(4)} \times 2.$$

$$24328 = ((F(8) + 2)^3 - F(4)) \times 2.$$

$$24337 = F(7)^{F(3)} \times F(3 \times 4) + F(2).$$

$$24339 = (F(9)^{F(3)} + 3) \times F(4 \times 2).$$

$$24368 = (F(8) + F(6))^3 - F(4 \times 2).$$

$$24386 = (F(6) + F(8))^3 - 4 + F(2).$$

$$24387 = (F(7) + 8 \times F(3))^{F(4)} - 2.$$

$$24388 = (8 + F(8))^3 - F(4 - 2).$$

$$24389 = (F(9) - 8 + 3)^{F(4)} \times F(2).$$

$$24392 = (29^3 + F(4)) \times F(2).$$

$$24395 = (-5 + F(9))^3 + 4 + 2.$$

$$24546 = (F(6)^4 - 5) \times (4 + 2).$$

$$24576 = 6 \times (F(7) - 5)^4 \times F(2).$$

$$24675 = 5 \times (F(7) - F(6)) \times F(4^2).$$

$$24964 = (F(4) \times 6 \times 9 - 4)^2.$$

$$24997 = 7 \times (F(9 + 9) + F(4^2)).$$

$$25376 = F(6) \times F(7) \times (3^5 + F(2)).$$

$$25532 = (F(23) - 5^5) \times F(2).$$

$$25662 = 26 \times F(6 + 5 \times 2).$$

$$25921 = (1 + (-2 + F(9)) \times 5)^2.$$

$$26376 = (6 + F(7)^3 \times 6) \times 2.$$

$$26377 = F(7) + F(7)^3 \times 6 \times 2.$$

$$26573 = F(3 \times 7) + 5^6 + 2.$$

$$26637 = F(7) \times (F(3)^{F(6)} \times F(6) + F(2)).$$

$$26896 = (F(6) + (F(9) - 8) \times 6)^2.$$

$$26928 = (F(8) + F(2)) \times F(9) \times 6^2.$$

$$26987 = -F(7) + (F(8) + 9)^{6/2}.$$

$$26998 = (F(8) + 9)^{9-6} - 2.$$

$$27024 = 4 \times (F(20) - 7 - 2).$$

$$27147 = (F(7) + 4) \times F(17) - 2.$$

$$27148 = (F(8) - 4) \times F(17) - F(2).$$

$$27225 = F(5 \times 2)^2 \times (7 + 2).$$

$$27345 = 5 \times (4 + F(3 \times 7))/2.$$

$$27365 = 5 \times F((6 - 3) \times 7)/2.$$

$$27385 = 5 \times (8 + F(3 \times 7))/2.$$

$$27468 = F(8) \times (6^4 + F(7) - F(2)).$$

$$27792 = (2 + F(9)) \times 772.$$

$$27847 = F(7)^4 - F(8) \times F(7 + 2).$$

$$27848 = 8 \times (F(4) + 8 \times 7)^2.$$

$$28237 = F(7) + (F(3 \times 2) \times F(8))^2.$$

$$28288 = (8 \times F(8))^2 + 8^2.$$

$$28376 = F(6) \times (F(7)^{F(3)} \times F(8) - 2).$$

$$28431 = 13 \times F(4)^{8-F(2)}.$$

$$28446 = (6^4 - F(4)) \times (F(8) + F(2)).$$

$$28532 = F(23) - 5^{F(8/2)}.$$

$$28544 = 4^{F(4)} \times (5 + F(8)^2).$$

$$28561 = 1 \times (F(6) + 5)^{8/2}.$$

$$28632 = F(23) - 6 - F(8) + 2.$$

$$28671 = -1 + 7 \times F(6)^{8/2}.$$

$$28672 = F(2) \times 7 \times F(6)^{8/2}.$$

$$28732 = F(23) - 7 + 82.$$

$$28746 = 6 \times F(4) \times F(7 + 8 + 2).$$

$$28794 = F(4 + 9) + F(7)^{8/2}.$$

$$29177 = 7 \times (-F(7) + F(19)) + F(2).$$

$$29197 = 7 \times (-9 + F(19) - F(2)).$$

$$29241 = (1 + (F(4) + 2) \times F(9))^2.$$

$$29529 = ((9 \times F(2))^5 + 9)/2.$$

$$29813 = F(31 - 8) + F(9)^2.$$

$$29989 = 98 \times F(9) \times 9 + F(2).$$

$$30976 = (F(6) \times (F(7) + 9))^{F(03)}.$$

$$31329 = (F(9 + 2) \times F(3) - 1)^{F(3)}.$$

$$32158 = 8^5 - F(12 + 3).$$

$$32677 = -7 \times F(7) + F(6)^{2+3}.$$

$$32684 = -4 \times F(8) + F(6)^{2+3}.$$

$$32746 = F(6)^4 - 7 + F(23).$$

$$32753 = F(3)^{5+7} + F(23).$$

$$32756 = F(6)^5 - 7 - 2 - 3.$$

$$32759 = -9 + (-5 + F(7))^{2+3}.$$

$$32762 = 2^{F(6)+7} - 2 \times 3.$$

$$32763 = -3 + F(6)^{7-2} - F(3).$$

$$32764 = ((-4 + F(6))^7 - 2) \times F(3).$$

$$32765 = -5 + F(6)^{7-2} + F(3).$$

$$32766 = F(6)^{-6+F(7)-2} - F(3).$$

$$32839 = F(9) + 3^8 \times (2 + 3).$$

$$32845 = 5 \times (F(4)^8 + 2^3).$$

$$33282 = (2^8 + 2)^{F(3)}/F(3).$$

$$33327 = 7 \times (23 \times 3)^{F(3)}.$$

$$33448 = 8 \times F(4 + 4 \times 3 + 3).$$

$$33489 = (9 \times F(8) - 4 - F(3))^{F(3)}.$$

$$33578 = (-F(8) + 7^5 + 3) \times F(3).$$

$$33617 = 7^{-1+6} \times F(3) + 3.$$

$$33631 = 13 \times (F(6 \times 3) + 3).$$

$$33696 = (-F(6) + F(9)) \times 6^{F(3) \times F(3)}.$$

$$33785 = 5 \times (-8 + F(-7 + 3^3)).$$

$$33856 = (F(6) \times (5 + F(8) - 3))^{F(3)}.$$

$$34188 = F(8) \times 814 \times F(3).$$

$$34285 = 5 \times ((F(8) - 2)^{F(4)} - F(3)).$$

$$34475 = 5 \times 7 \times (F(4 \times 4) - F(3)).$$

$$34545 = 5 \times (F(4 \times 5) + F(4 \times 3)).$$

$$34596 = (6 + 9 \times 5 \times 4)^{F(3)}.$$

$$34848 = 8 \times (F(4) \times F(8) + F(4))^{F(3)}.$$

$$34968 = 8 \times (6 \times 9^{F(4)} - 3).$$

$$36284 = -4 + F(8) \times (2 \times 6)^3.$$

$$36481 = (-1 + 8 \times 4 \times 6)^{F(3)}.$$

$$36483 = ((F(3) + F(8))^{F(4)} - 6) \times 3.$$

$$36992 = (-2 + F(9)) \times F(9) \times F(6 + 3).$$

$$36994 = 4 \times F(9) \times F(9) \times F(6) + F(3).$$

$$37044 = 4 \times (F(4) \times 07)^3.$$

$$37349 = (9 + 4 \times F(3)) \times F(7)^3.$$

$$37368 = -8 + F(6)^3 \times 73.$$

$$37376 = F(6)^{F(7-3)} \times 73.$$

$$37516 = (F((6 - 1) \times 5) + 7)/F(3).$$

$$37629 = 9 \times F((2^6 - 7)/3).$$

$$37835 = 5 \times (-F(3) + 87^{F(3)}).$$

$$37885 = 5 \times (8 + 87^{F(3)}).$$

$$37947 = F(7) \times F(4) \times 973.$$

$$38413 = -3 + 14^{8/F(3)}.$$

$$38416 = (6 + 1)^4 \times 8 \times F(3).$$

$$38493 = 39 \times F(48/3).$$

$$38565 = 5 \times (6^5 - F(8) \times 3).$$

$$38784 = (-4 + F(8 + 7)) \times 8^{F(3)}.$$

$$38792 = -2^9 + (F(7) + F(8))^3.$$

$$38808 = (80 + 8) \times F(8)^{F(3)}.$$

$$38809 = (9 \times F(08) + 8)^{F(3)}.$$

$$39064 = -4 \times 60 + F(9)^3.$$

$$39139 = F(9)^3 - F(1 + 9) \times 3.$$

$$39178 = -F(8) \times (7 - 1) + F(9)^3.$$

$$39187 = -F(7) \times (8 + 1) + F(9)^3.$$

$$39189 = -F(9) - 81 + F(9)^3.$$

$$39223 = -3^{2 \times 2} + F(9)^3.$$

$$39236 = -F(6 + 3) \times 2 + F(9)^3.$$

$$39238 = -8^{F(3)} - 2 + F(9)^3.$$

$$39249 = -F((9 - 4) \times 2) + F(9)^3.$$

$$39251 = -1 - 52 + F(9)^3.$$

$$39252 = -F(2) \times 52 + F(9)^3.$$

$$39256 = F(6) \times (-5 - F(2)) + F(9)^3.$$

$$39258 = -F(8) - 5^2 + F(9)^3.$$

$$39259 = -9 \times 5 + (F(2) \times F(9))^3.$$

$$39262 = -2 \times F(6 + 2) + F(9)^3.$$

$$39264 = (F(4))^{F(6)} \times 2 - F(9) \times 3.$$

$$39265 = -5 \times F(6) + F(2) + F(9)^3.$$

$$39266 = -6 \times 6 - 2 + F(9)^3.$$

$$39281 = -1 - F(8) - F(2) + F(9)^3.$$

$$39282 = -2 - F(8) + F(2) + F(9)^3.$$

$$39283 = -F(3) \times F(8)/2 + F(9)^3.$$

$$39286 = -6 \times F(8/2) + F(9)^3.$$

$$39287 = -7 - 8 - 2 + F(9)^3.$$

$$39288 = -8 - 8 + (F(2) \times F(9))^3.$$

$$39289 = -9 - 8 + 2 + F(9)^3.$$

$$39291 = -1 \times F(9 - 2) + F(9)^3.$$

$$39295 = -F(-5 + 9)^2 + F(9)^3.$$

$$39297 = -7 + (F(9) \times F(2))^{9/3}.$$

$$39301 = 1 \times 0 - 3 + F(9)^3.$$

$$39305 = F(5 - 03) + F(9)^3.$$

$$39308 = 8/F(03) + F(9)^3.$$

$$39312 = (2 \times 1)^3 + F(9)^3.$$

$$39313 = (3 \times 1) \times 3 + F(9)^3.$$

$$39314 = (4 + 1) \times F(3) + F(9)^3.$$

$$39317 = F(7) + F(1^3 \times 9)^3.$$

$$39318 = (8 - 1) \times F(3) + F(9)^3.$$

$$39322 = (-22 + 3^9) \times F(3).$$

$$39324 = -42 + 3^9 \times F(3).$$

$$39325 = (5 + 2) \times 3 + F(9)^3.$$

$$39329 = -F(9) + 2 \times 3^9 - 3.$$

$$39331 = 1 \times 3^3 + F(9)^3.$$

$$39337 = (F(7) - F(3)) \times 3 + F(9)^3.$$

$$39338 = F(8 + 3/3) + F(9)^3.$$

$$39339 = F(9)^3 - F(3) + F(9) + 3.$$

$$39342 = -24 + 3^9 \times F(3).$$

$$39343 = 3 \times F(4 + 3) + F(9)^3.$$

$$39344 = -F(4) + 43 + F(9)^3.$$

$$39346 = -6 - 4 + 3^9 \times F(3).$$

$$39347 = -F(7) + (-F(4) + 3^9) \times F(3).$$

$$39349 = -9 + (-4 + 3^9) \times F(3).$$

$$39351 = -15 + 3^9 \times F(3).$$

$$39352 = (-2 - 5 + 3^9) \times F(3).$$

$$39353 = F(3) \times (-5 + 3^9) - 3.$$

$$39354 = -F(4) + 53 + F(9)^3.$$

$$39358 = -8 + (5 - F(3))^9 \times F(3).$$

$$39359 = F(9) + F(5 + 3) + F(9)^3.$$

$$39372 = 2 \times (F(7 - 3)^9 + 3).$$

$$39375 = -5 + (7 + 3^9) \times F(3).$$

$$39376 = F(6) \times (7 + F(3)) + F(9)^3.$$

$$39381 = -1 + (8 + 3^9) \times F(3).$$

$$39388 = (F(8) + F(8)) \times F(3) + F(9)^3.$$

$$39392 = (F(-2 + 9) + 3^9) \times F(3).$$

$$39408 = (F(8) + F(04)^9) \times F(3).$$

$$39416 = F(6) \times 14 + F(9)^3.$$

$$39432 = 2^{3+4} + F(9)^3.$$

$$39439 = -9 + F(3 \times 4) + F(9)^3.$$

$$39468 = F(8) \times F(6) - 4 + F(9)^3.$$

$$39475 = 57 \times F(4) + F(9)^3.$$

$$39477 = F(7) \times F(7) + 4 + F(9)^3.$$

$$39478 = (8 \times 7 + F(4)^9) \times F(3).$$

$$39489 = 9 \times F(8) - 4 + F(9)^3.$$

$$39492 = 2 \times 94 + F(9)^3.$$

$$39504 = 40 \times 5 + F(9)^3.$$

$$39524 = 4 \times F(2 \times 5) + F(9)^3.$$

$$39529 = 9 \times 25 + F(9)^3.$$

$$39544 = -F(4) + F(4)^5 + F(9)^3.$$

$$39547 = (7 - 4)^5 + F(9)^3.$$

$$39564 = 4 \times 65 + F(9)^3.$$

$$39598 = F(8) \times (9 + 5) + F(9)^3.$$

$$39647 = 7^{-F(4)+6} + F(9)^3.$$

$$39655 = 55 \times (-F(6) + 9^3).$$

$$39681 = F(1 \times 8 + 6) + F(9)^3.$$

$$39688 = 8 \times 8 \times 6 + F(9)^3.$$

$$39733 = 33 \times F(7) + F(9)^3.$$

$$39738 = F(8)^{F(3)} - 7 + F(9)^3.$$

$$39749 = F(9)^{F(4)} + F(7) \times F(9) + 3.$$

$$39766 = 66 \times 7 + F(9)^3.$$

$$39914 = F(-4 + 19) + F(9)^3.$$

$$39927 = 7 \times F(2 + 9) + F(9)^3.$$

$$39936 = F(6)^3 \times (9 \times 9 - 3).$$

$$39987 = -F(7) + (8 \times (F(9) - 9))^{F(3)}.$$

$$39997 = 7 \times 99 + F(9)^3.$$

$$40698 = F(8) \times F(9) \times (60 - F(4)).$$

$$42272 = -2^{F(7)}/2 + F(24).$$

$$42588 = F(8) \times (F(8) + 5)^2 \times F(4).$$

$$42845 = F(5 \times 4) \times (F(8) - 2)/F(4).$$

$$42873 = -F(3) + (F(7) + F(8) + F(2))^{F(4)}.$$

$$42875 = (5 \times 7)^{F(8 \times 2/4)}.$$

$$42909 = F(9) + (F(09) + F(2))^{F(4)}.$$

$$42938 = F(8) \times 3 + (F(9) + F(2))^{F(4)}.$$

$$43267 = (F(7) \times F(6) \times 2)^{F(3)} + F(4).$$

$$43276 = ((F(6) \times F(7))^2 + 3) \times 4.$$

$$43688 = (-8 + 8^6/F(3))/F(4).$$

$$43752 = -2^5 + F(7 \times 3) \times 4.$$

$$43772 = (F(2 \times 7 + 7) - 3) \times 4.$$

$$43797 = F(7) + F(9 \times 7/3) \times 4.$$

$$43812 = (F(21) + F(8)/3) \times 4.$$

$$43912 = (F(21) + F(9) - F(3)) \times 4.$$

$$44771 = -F(17) + F(7 \times 4 - 4).$$

$$45738 = F(8) \times (3^7 - 5 - 4).$$

$$45753 = F(3 \times 5) \times 75 + F(4).$$

$$45873 = 3^7 \times F(8) - 54.$$

$$45991 = F(19) \times (-9 + 5 \times 4).$$

$$46048 = -8 \times 40 + F(6 \times 4).$$

$$46137 = F(7)^3 \times (1 + 6) \times F(4).$$

$$46152 = F(25 - 1) - 6^{F(4)}.$$

$$46216 = -F(6) - F(12) + F(6 \times 4).$$

$$46217 = -7 - F(12) + F(6 \times 4).$$

$$46245 = -5^{F(4)} + 2 + F(6 \times 4).$$

$$46247 = -(7 + 4)^2 + F(6 \times 4).$$

$$46265 = 5 \times (-F(6) + F(2 + 6)^{F(4)}).$$

$$46274 = -47 \times 2 + F(6 \times 4).$$

$$46304 = -4^{03} + F(6 \times 4).$$

$$46306 = -60 - F(3) + F(6 \times 4).$$

$$46315 = -51 - F(3) + F(6 \times 4).$$

$$46319 = 91 \times (-3 + F(6)^{F(4)}).$$

$$46322 = -2 \times 23 + F(6 \times 4).$$

$$46349 = -(F(9) + 4)/F(3) + F(6 \times 4).$$

$$46351 = -15 - F(3) + F(6 \times 4).$$

$$46361 = -1 - F(6) + F(3) + F(6 \times 4).$$

$$46362 = 2 \times (-6 + 3) + F(6 \times 4).$$

$$46363 = -3 - 6/3 + F(6 \times 4).$$

$$46364 = F(4 \times 6) - 3 + F(6 - 4).$$

$$46365 = (5 - 6) \times 3 + F(6 \times 4).$$

$$46366 = F(6 + 6 \times 3) - 6 + 4.$$

$$46367 = -(7 - 6)^3 + F(6 \times 4).$$

$$46368 = F(8 \times 6/3 \times 6/4).$$

$$46369 = (9 - 6)/3 + F(6 \times 4).$$

$$46379 = (9 + F(7))/F(3) + F(6 \times 4).$$

$$46415 = 51 - 4 + F(6 \times 4).$$

$$46417 = 7^{-1+F(4)} + F(6 \times 4).$$

$$46422 = -F(2) + F(24) + F(6 + 4).$$

$$46426 = 62 - 4 + F(6 \times 4).$$

$$46437 = 73 - 4 + F(6 \times 4).$$

$$46459 = 95 - 4 + F(6 \times 4).$$

$$46537 = F(7)^{-3+5} + F(6 \times 4).$$

$$46563 = 3 \times 65 + F(6 \times 4).$$

$$46601 = -F(10) + (6 \times 6)^{F(4)}.$$

$$46614 = 41 \times 6 + F(6 \times 4).$$

$$46622 = -2 + 2^{F(6)} + F(6 \times 4).$$

$$46635 = -5^{F(3)} + 6^6 + 4.$$

$$46639 = -F(9)/F(3) + (6 \times 6)^{F(4)}.$$

$$46649 = -9/F(4) + 6^6 - 4.$$

$$46652 = F(2)^5 \times (6^6 - 4).$$

$$46655 = -5/5 + (6 \times 6)^{F(4)}.$$

$$46662 = 2 + F(6) + 6^6 - 4.$$

$$46665 = 5 + F(6) + 6^6 - 4.$$

$$46666 = F(6) + 6^6 + 6 - 4.$$

$$46667 = F(7) + 6^6 - 6 + 4.$$

$$46668 = 8 + F(6) + 6^6 - 4.$$

$$46669 = 9 + F(6) + 6^6 - 4.$$

$$46681 = F(1 \times 8) + 6^6 + 4.$$

$$46682 = F(2) + F(8) + 6^6 + 4.$$

$$46683 = F(3) + F(8) + 6^6 + 4.$$

$$46685 = 5 + F(8) + 6^6 + F(4).$$

$$46686 = 6 + F(8) + 6^6 + F(4).$$

$$46687 = F(7) + F(8) + 6^6 - F(4).$$

$$46688 = F(8) + 8 + 6^6 + F(4).$$

$$46689 = 9 + F(8) + 6^6 + F(4).$$

$$46872 = (-F(2) + (F(7) - 8)^6) \times F(4).$$

$$46873 = -F(3) + (F(7) - 8)^6 \times F(4).$$

$$46875 = 5^{(-7+8) \times 6} \times F(4).$$

$$46926 = 62 \times 9 + F(6 \times 4).$$

$$46978 = F(8 + 7) + F(96/4).$$

$$47327 = 7 \times (F(2 \times (3 + 7)) - 4).$$

$$47372 = (F(2 \times 7)^{F(3)} - F(7))/F(4).$$

$$47628 = F(8)^2 \times (F(6) \times F(7) + 4).$$

$$47664 = F(4 \times 6) + 6^{7-F(4)}.$$

$$47736 = 6^3 \times F(7) \times (F(7) + 4).$$

$$47796 = 6 \times (-F(9) + (F(7) + 7)^{F(4)}).$$

$$48384 = (F(4) \times 8)^{F(3)} \times 84.$$

$$49254 = (4^{5+2} + F(9)) \times F(4).$$

$$51764 = F(4)^6 \times 71 + 5.$$

$$52448 = 8 \times (F(4)^{4 \times 2} - 5).$$

$$52493 = (F(3) \times 9)^4/2 + 5.$$

$$52496 = F(6) \times (9^4 + F(2)^5).$$

$$53133 = 3 \times F((3 \times 1)^3 - 5).$$

$$53227 = -F(7) + 22^3 \times 5.$$

$$53482 = -F(28) + F(4 + 3)^5.$$

$$53946 = 6 \times (F(4) + F(9)) \times 3^5.$$

$$54128 = 8 \times (F(2) + F(1 \times 4 \times 5)).$$

$$54168 = 8 \times (6 + F(1 \times 4 \times 5)).$$

$$54176 = F(6) \times (7 + F(1 \times 4 \times 5)).$$

$$54216 = F(6) \times (12 + F(4 \times 5)).$$

$$54248 = 8 \times (4^2 + F(4 \times 5)).$$

$$54288 = 8 \times (F(8) \times F(2) + F(4 \times 5)).$$

$$54289 = F(9 + 8/2)^{-F(4)+5}.$$

$$54294 = F(4 + 9)^{-2+4} + 5.$$

$$54717 = -F(7) + F(17 + 4) \times 5.$$

$$54735 = (5 + F(3 \times 7) - 4) \times 5.$$

$$54849 = 9^{F(4)} + 8 \times F(4 \times 5).$$

$$54925 = (5 \times F(-2 + 9))^{F(4)}/5.$$

$$57267 = 7 \times (-6 + 2^{F(7)} - 5).$$

$$57322 = 2 \times F(23) + F(7) - 5.$$

$$57323 = F(3) \times (F(23) + 7) - 5.$$

$$57326 = (6 + F(23)) \times (7 - 5).$$

$$57327 = F(7) + F(23) \times (7 - 5).$$

$$57332 = F(23) \times F(3) + F(7) + 5.$$

$$57339 = (9 - F(3)) \times F(3)^{F(7)} - 5.$$

$$58944 = F(4) \times (F(4)^9) - F(8) \times 5.$$

$$58964 = F(4)^{F(6)} \times 9 - 85.$$

$$59018 = -F(8) - 10 + 9^5.$$

$$59028 = -F(8) + 2 \times 0 + 9^5.$$

$$59034 = F(4) \times (3^{09} - 5).$$

$$59043 = -3 - F(4) + 09^5.$$

$$59044 = F(4) \times F(4)^{09} - 5.$$

$$59046 = -6 + F(4) + 09^5.$$

$$59047 = -F(7 - 4) + 09^5.$$

$$59048 = -F(8/4) + 09^5.$$

$$59138 = F(8 + 3) + 1 \times 9^5.$$

$$59193 = F(3 + 9) + 1 \times 9^5.$$

$$59218 = F(8 - 1)^2 + 9^5.$$

$$59238 = F(8) \times 3^2 + 9^5.$$

$$59389 = F(9) \times (8 + F(3)) + 9^5.$$

$$59415 = 51 \times F(4 + 9) \times 5.$$

$$59418 = -8 + F(14) + 9^5.$$

$$59426 = F(6 + 2 \times 4) + 9^5.$$

$$59432 = 23 \times F(4 + 9 + 5).$$

$$59617 = 71 \times F(6) + 9^5.$$

$$59647 = F(7) \times 46 + 9^5.$$

$$59651 = F(15) - F(6) + 9^5.$$

$$59653 = F(3 \times 5) - 6 + 9^5.$$

$$59659 = 9^5 + F((-6 + 9) \times 5).$$

$$59725 = 52 \times F(7) + 9^5.$$

$$59764 = F(4 + 6) \times F(7) + 9^5.$$

$$61029 = 9 \times (F(20) + 16).$$

$$62214 = F(4) \times F(12)^2 + 6.$$

$$62426 = (F(6) - F(2))^4 \times 26.$$

$$62584 = 4 \times (F(8) + (5 \times F(2))^6).$$

$$62976 = (F(6) + 7 \times F(9)) \times 2^{F(6)}.$$

$$63368 = (86 + 3)^{F(3)} \times F(6).$$

$$63392 = (F(2 + 9)^{F(3)} + 3) \times F(6).$$

$$63498 = (F(8) \times (9 + F(4)))^{F(3)} - 6.$$

$$63744 = (4^4 - 7) \times F(3)^{F(6)}.$$

$$63888 = (F(8) + 8/8)^3 \times 6.$$

$$64024 = (F(4) + 20^{F(4)}) \times F(6).$$

$$64384 = 4^8 - F(3 \times 4) \times F(6).$$

$$64488 = (F(8) \times 8^{F(4)} - 4) \times 6.$$

$$64539 = 9 \times (F(3 \times 5) + F(4)^{F(6)}).$$

$$64544 = -F(4 \times 4) - 5 + 4^{F(6)}.$$

$$64812 = (F(21) - F(8 + 4)) \times 6.$$

$$64824 = -F(4) + 2 \times F(8)^4/6.$$

$$64826 = (-6 + 2 \times F(8)^4)/6.$$

$$64827 = 7 \times (2 \times F(8))^{F(4)}/F(6).$$

$$64835 = (5 + F(3)) \times F(8)^{F(4)} + F(6).$$

$$64864 = 4^{F(6)} - 84 \times F(6).$$

$$64881 = (1 + 88) \times F(4)^6.$$

$$64935 = -F(5 \times 3) + 9 + 4^{F(6)}.$$

$$64945 = -5^4 + F(9) + 4^{F(6)}.$$

$$65159 = -F(9 + 5) + (-1 + 5)^{F(6)}.$$

$$65464 = 4^{F(6)} - (4 + 5) \times F(6).$$

$$65472 = (2^{F(7)} - F(4) - 5) \times F(6).$$

$$65542 = 2 \times (F(4) + 5)^5 + 6.$$

$$65544 = 4^{F(-4+5+5)} + F(6).$$

$$65562 = 2 \times (F(6)^5 + 5 + F(6)).$$

$$65625 = (5 - F(2))^{F(6)} + F(5 + 6).$$

$$65628 = (-8 + F(26 - 5)) \times 6.$$

$$66912 = 2 \times (F(19) \times F(6) + F(6)).$$

$$67398 = (8 \times 9)^{F(3)} \times F(7) + 6.$$

$$68894 = (F(4)^9 \times F(8) + F(8))/6.$$

$$69631 = -1 + F(3)^{F(6)} \times F(9) \times F(6).$$

$$69632 = (F(2) \times F(3))^{F(6)} \times F(9) \times F(6).$$

$$69956 = 6^5 \times 9 - F(9) + 6.$$

$$71564 = -F(4)^{F(6)} + (5 \times 1)^7.$$

$$72384 = F(4) \times 8^{F(3)} \times F(2 \times 7).$$

$$72893 = -F(3) + (F(9) \times 8)^2 + 7.$$

$$72999 = 9 \times (-9 \times 9 + 2^{F(7)}).$$

$$73539 = -9 \times (F(3+5) - F(3)^{F(7)}).$$

$$73674 = (-4 + F(7)) \times (-6 + F(3)^{F(7)}).$$

$$73719 = 9 \times (-1^7 + F(3)^{F(7)}).$$

$$73724 = -4 + 2^{F(7)} \times (F(3) + 7).$$

$$73728 = (8 \times 2 - 7) \times F(3)^{F(7)}.$$

$$73736 = F(6) + F(3)^{F(7)} \times (F(3) + 7).$$

$$73791 = 1 \times 9 \times (7 + F(3)^{F(7)}).$$

$$73971 = ((1 + 7) \times F(9))^{F(3)} - F(7).$$

$$73984 = (-4 + F(8)) \times F(9) \times F(3)^7.$$

$$73991 = ((-1 + 9) \times F(9))^{F(3)} + 7.$$

$$73997 = (7 \times F(9) + F(9))^{F(3)} + F(7).$$

$$74088 = (F(8) + F(8))^{-04+7}.$$

$$74358 = F((8 - 5) \times 3) \times F(4)^7.$$

$$74366 = F(6) + F(6 + 3) \times F(4)^7.$$

$$74492 = -2 + F(9) \times (4 + F(4)^7).$$

$$74719 = F(9) \times (1 + F(7)^{F(4)}) - F(7).$$

$$75023 = -F(3) + F(2^{05} - 7).$$

$$75031 = -1 + F(30 - 5) + 7.$$

$$75034 = -4 + F(30 - 5) + F(7).$$

$$75059 = F(9) + F(5^{-05+7}).$$

$$75258 = F(8 + 5) + F(2^5 - 7).$$

$$75536 = -F(6 \times 3) - 5 + 5^7.$$

$$75937 = -F(7)^3 + 9 + 5^7.$$

$$75983 = -3 \times F(8) \times F(9) + 5^7.$$

$$76648 = 8 \times (F(4)^6 + F(6)) \times F(7).$$

$$77748 = (8 - F(4))^7 - F(7 + 7).$$

$$77756 = F(6) + 5^7 - F(7 + 7).$$

$$78123 = -F(3) + (-2 - 1 + 8)^7.$$

$$78138 = (8 - 3)^{-1+8} + F(7).$$

$$78159 = F(9) + 5^{1^8 \times 7}.$$

$$78358 = F(8 + 5) + (-3 + 8)^7.$$

$$78399 = 9 \times (F(9) \times F(3)^8 + 7).$$

$$79492 = 2 \times (F(9)^{F(4)} + F(9) \times F(7)).$$

$$79929 = 9 \times (-2 + 9 \times F(9 + 7)).$$

$$82824 = 4 \times (-F(2) + F(8 \times 2)) \times F(8).$$

$$82923 = (32 \times 9)^2 - F(8).$$

$$83478 = -8 + F(7)^{F(4)} \times 38.$$

$$83486 = (-F(6) + F(8))^{F(4)} \times 38.$$

$$83498 = (8 + 9)^4 - F(3) - F(8).$$

$$85293 = 3^{9-F(2)} \times (5 + 8).$$

$$86016 = (F(6)^{10-6}) \times F(8).$$

$$86688 = F(8) \times 86 \times 6 \times 8.$$

$$87455 = -5 \times (5 - F(4)^7 \times 8).$$

$$88809 = 90 \times F(8 + 8) - F(8).$$

$$89355 = (5 + 5^3 \times F(9)) \times F(8).$$

$$89488 = F(8 + 8)/F(4) \times F(9) \times 8.$$

$$91976 = -6 + (F(7) + 9) \times F(19).$$

$$92991 = (-1 + 9 \times F(9))^2 - F(9).$$

$$93296 = F(6) \times (9 - 2)^3 \times F(9).$$

$$94928 = (82 \times F(9) + 4) \times F(9).$$

$$97655 = (-5 + 5^{F(6)})/(F(7) - 9).$$

$$97824 = 4 \times (F(28)/F(7) + 9).$$

$$98183 = 38 \times F(18) - 9.$$

$$98239 = F(9 \times 3)/2 + F(8) + 9.$$

$$98245 = 5 \times (F(4)^{F(2)+8} - F(9)).$$

$$98425 = 5 \times (2 + F(-4 + 8))^9.$$

$$99688 = (8 + 86 \times F(9)) \times F(9).$$

$$99945 = 5 \times (F(4)^9 + 9 \times F(9)).$$

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