Concatenation-Type Selfie Numbers With Factorial and Square-Root

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Abstract

*Numbers represented by their own digits by certain operations are considered as **selfie numbers**. Some times they are called as **wild narcissistic numbers**. There are many ways of representing **selfie numbers**. They can be represented in digit's order, reverse order of digits, increasing and/or decreasing order of digits, etc. These can be obtained by use of basis operations along with **factorial, square-root, Fibonacci sequence, Triangular numbers, binomial coefficients, s-gonal values, centered polygonal numbers**, etc. In this work, we have written **selfie numbers** by use of **concatenation**, along with **factorial** and **square-root**. The concatenation idea is used in a very simple way. The work is limited up to 5 digits. Work on higher digits shall be dealt elsewhere.*

Based on Matt Parker's [10, 11] idea of Concatenation to solve "The 10,958 Problem" [17].

Contents

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1 Crazy Representations

In [17], author wrote number from 1 to 11111 in increasing and decreasing orders of 1 to 9 and 9 to 1. By use of basic opeartion, we got all numbers except 10958 in the increasing case. We can write it by use of factorial and/or square-root. See below:

$$\mathbf{10958} := 1 + 2 + 3!! + (-4 + 5! + 6 - 7) \times 89$$
$$\mathbf{10958} := 1 \times 2 \times (3!! - 4! \times (5 + 6) + 7! - 8 - 9)$$

For more solutions refer [5, 6, 7] Moreover, this work appeared as improbable research [1, 2, 3, 4].

Recently, Matt Parker [10, 11, 12] gave a new idea of finding this number by using **concatenation** among numbers. See below:

$$\mathbf{10958} := 1 \times 23 + ((4 \times 5 \times 6)\|7 + 8) \times 9,$$

where

$$a\|b := 10 \times a + b, a \in \mathbf{Z}, b \in \{0, 1, 2, 3, 4, 6, 7, 8, 9\}. \tag{1}$$

The notation " $\|$ " is known as **concatenation**. More on it can be seen in [9]. The number 23 can also be written as $2\|3$, but it don't make any effect on the representation.

From *mathematical point of view* the study of concatenation as operator is very deep. For details see [9]. Some general idea can be see at [13, 15]. Some times it is called as **Triangles of the Gods** [16] given below:

1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
1 2 3 4 5 6
1 2 3 4 5 6 7
1 2 3 4 5 6 7 8
... ...

Remark 1.1. *Our aim here is not to go much deep. Only to work with basic idea, i.e., $10 \times a + b$, where a and b are integers, with condition that b is only of single digit. Let us see below some examples,*

$$2\|3 := 2 \times 10 + 3 \qquad = 23$$
$$(2+3)\|5 := (2+3) \times 10 + 5 = 55$$
$$(5 \times 4 + 7)\|(2+3) := 27 \times 10 + 5 \qquad = 275.$$

Here we should observe that, in case of real concatenation, when the second component of the pair is of two digits, then the first one is automatically of two digits, i.e., it become as $5\|(7+8) = 5\|15 = 5 \times 100 + 15 = 515$. Another example, $1\|23 := 100 + 23 = 123$. In this case we can say that $5\|15 = 51\|5$ $1\|23 = 12\|3$. This type os situation is still not under study. In another opportunity, we shall work with general case of concatenation.

Based on above details we shall bring selfie numbers. First, below is an idea of **selfie numbers** with examples.

1.1 Selfie Numbers

Numbers represented by their own digits by certain operations are considered as **"selfie numbers"**. Some times they are called as **wild narcissistic numbers**. There are many ways of representing **"selfie numbers"**. They can be represented in digit's order, reverse order of digits, increasing and/or decreasing order of digits, etc. These can be obtained by use of basis operations along with **factorial, square-root, Fibonacci sequence, Triangular numbers, binomial coefficients, s-gonal values, centered polygonal numbers**, etc. Below are some examples with **factorial** and **square-root** written in both ways, i.e., in digit's order and its reverse:

$$\begin{aligned}
\mathbf{936} &:= (\sqrt{9})!^3 + 6! &&= 6! + (3!)^{\sqrt{9}} \\
\mathbf{1296} &:= \sqrt{(1+2)!^9/6} &&= 6^{(\sqrt{9}+2-1)} \\
\mathbf{2896} &:= 2 \times (8 + (\sqrt{9})!! + 6!) &&= (6! + (\sqrt{9})!! + 8) \times 2 \\
\mathbf{331779} &:= 3 + (31-7)^{\sqrt{7+9}} &&= \sqrt{9} + (7 \times 7 - 1)^3 \times 3 \\
\mathbf{342995} &:= (3^4 - 2 - 9)^{\sqrt{9}} - 5 &&= -5 + (-9 + 9^2 - \sqrt{4})^3 \\
\mathbf{759375} &:= (-7 + 59 - 37)^5 &&= (5 + 7 + 3)^{\sqrt{9}-5+7} \\
\mathbf{759381} &:= 7 + (5 \times \sqrt{9})^{-3+8} - 1 &&= -1 + (8 \times 3 - 9)^5 + 7
\end{aligned}$$

More examples of **selfie numbers** in different situations are given as summary in last section 4.

In this work our aim is to bring **selfie numbers** by use of **concatenation**, along with **factorial** and **square-root**. The work is limited up to 5 digits. Study for higher digits shall be dealt elsewhere.

2 Concatenation-Type Selfie Numbers

This section brings the selfie numbers by use of formula (1) with factorial and square-root. It has been divided in small subsections according to each type of situation. Before starting there are few numbers those can be written without use of factorial and square-root. See below:

- **Digit's Order**

$$\begin{aligned}
\mathbf{15129} &:= \langle (-1+5) \parallel 1 \rangle^2 \times 9 \\
\mathbf{33124} &:= \langle (3 \times 3) \parallel 1 \rangle^2 \times 4
\end{aligned}$$

- **Reverse Order of Digits**

$$\begin{aligned}
\mathbf{1255} &:= 5 \times \left\langle 5^2 \parallel 1 \right\rangle \\
\mathbf{1288} &:= 8 \times \langle (8 \times 2) \parallel 1 \rangle \\
\mathbf{1359} &:= 9 \times \langle (5 \times 3) \parallel 1 \rangle \\
\mathbf{1449} &:= 9 \times \langle (4 \times 4) \parallel 1 \rangle
\end{aligned}$$

$$\begin{aligned}
\mathbf{15477} &:= 77 \times \langle (4 \times 5) \parallel 1 \rangle \\
\mathbf{24964} &:= (4 + \langle (6+9) \parallel 4 \rangle)^2 \\
\mathbf{26896} &:= (\langle (6+9) \parallel 8 \rangle + 6)^2 \\
\mathbf{39304} &:= (\langle 4 \parallel 03 \rangle - 9)^3
\end{aligned}$$

2.1 Sequential Representations

There are many numbers those can be written in sequential way, i.e., from 0 to 9 they have symmetric consecutive representations. Again we have divided it in three part. First one both ways, second one in digit's order and third one in reverse order of digits.

2.1.1 Both Ways

$$\mathbf{30960} := \left\langle (3+0!) \parallel \sqrt{9} \right\rangle \times 6! + 0 = 0 + 6! \times \left\langle \left(\sqrt{9}+0!\right) \parallel 3 \right\rangle$$
$$\mathbf{30961} := \left\langle (3+0!) \parallel \sqrt{9} \right\rangle \times 6! + 1 = 1 + 6! \times \left\langle \left(\sqrt{9}+0!\right) \parallel 3 \right\rangle$$
$$\mathbf{30962} := \left\langle (3+0!) \parallel \sqrt{9} \right\rangle \times 6! + 2 = 2 + 6! \times \left\langle \left(\sqrt{9}+0!\right) \parallel 3 \right\rangle$$
$$\mathbf{30963} := \left\langle (3+0!) \parallel \sqrt{9} \right\rangle \times 6! + 3 = 3 + 6! \times \left\langle \left(\sqrt{9}+0!\right) \parallel 3 \right\rangle$$
$$\mathbf{30964} := \left\langle (3+0!) \parallel \sqrt{9} \right\rangle \times 6! + 4 = 4 + 6! \times \left\langle \left(\sqrt{9}+0!\right) \parallel 3 \right\rangle$$
$$\mathbf{30965} := \left\langle (3+0!) \parallel \sqrt{9} \right\rangle \times 6! + 5 = 5 + 6! \times \left\langle \left(\sqrt{9}+0!\right) \parallel 3 \right\rangle$$
$$\mathbf{30966} := \left\langle (3+0!) \parallel \sqrt{9} \right\rangle \times 6! + 6 = 6 + 6! \times \left\langle \left(\sqrt{9}+0!\right) \parallel 3 \right\rangle$$
$$\mathbf{30967} := \left\langle (3+0!) \parallel \sqrt{9} \right\rangle \times 6! + 7 = 7 + 6! \times \left\langle \left(\sqrt{9}+0!\right) \parallel 3 \right\rangle$$
$$\mathbf{30968} := \left\langle (3+0!) \parallel \sqrt{9} \right\rangle \times 6! + 8 = 8 + 6! \times \left\langle \left(\sqrt{9}+0!\right) \parallel 3 \right\rangle$$
$$\mathbf{30969} := \left\langle (3+0!) \parallel \sqrt{9} \right\rangle \times 6! + 9 = 9 + 6! \times \left\langle \left(\sqrt{9}+0!\right) \parallel 3 \right\rangle$$

2.1.2 Digit's Order

$$\mathbf{37440} := 3!! \times \left\langle \left(7-\sqrt{4}\right) \parallel \sqrt{4} \right\rangle + 0$$
$$\mathbf{37441} := 3!! \times \left\langle \left(7-\sqrt{4}\right) \parallel \sqrt{4} \right\rangle + 1$$
$$\mathbf{37442} := 3!! \times \left\langle \left(7-\sqrt{4}\right) \parallel \sqrt{4} \right\rangle + 2$$
$$\mathbf{37443} := 3!! \times \left\langle \left(7-\sqrt{4}\right) \parallel \sqrt{4} \right\rangle + 3$$
$$\mathbf{37444} := 3!! \times \left\langle \left(7-\sqrt{4}\right) \parallel \sqrt{4} \right\rangle + 4$$
$$\mathbf{37445} := 3!! \times \left\langle \left(7-\sqrt{4}\right) \parallel \sqrt{4} \right\rangle + 5$$
$$\mathbf{37446} := 3!! \times \left\langle \left(7-\sqrt{4}\right) \parallel \sqrt{4} \right\rangle + 6$$
$$\mathbf{37447} := 3!! \times \left\langle \left(7-\sqrt{4}\right) \parallel \sqrt{4} \right\rangle + 7$$
$$\mathbf{37448} := 3!! \times \left\langle \left(7-\sqrt{4}\right) \parallel \sqrt{4} \right\rangle + 8$$
$$\mathbf{37449} := 3!! \times \left\langle \left(7-\sqrt{4}\right) \parallel \sqrt{4} \right\rangle + 9$$

$$\mathbf{39840} := -(-3+9)! + 8! + \langle 4! \parallel 0 \rangle$$
$$\mathbf{39841} := -(-3+9)! + 8! + \langle 4! \parallel 1 \rangle$$
$$\mathbf{39842} := -(-3+9)! + 8! + \langle 4! \parallel 2 \rangle$$
$$\mathbf{39843} := -(-3+9)! + 8! + \langle 4! \parallel 3 \rangle$$
$$\mathbf{39844} := -(-3+9)! + 8! + \langle 4! \parallel 4 \rangle$$
$$\mathbf{39845} := -(-3+9)! + 8! + \langle 4! \parallel 5 \rangle$$
$$\mathbf{39846} := -(-3+9)! + 8! + \langle 4! \parallel 6 \rangle$$
$$\mathbf{39847} := -(-3+9)! + 8! + \langle 4! \parallel 7 \rangle$$
$$\mathbf{39848} := -(-3+9)! + 8! + \langle 4! \parallel 8 \rangle$$
$$\mathbf{39849} := -(-3+9)! + 8! + \langle 4! \parallel 9 \rangle$$

$$\mathbf{40080} := -\langle 4! \parallel 0! \rangle + 0! + 8! + 0$$
$$\mathbf{40081} := -\langle 4! \parallel 0! \rangle + 0! + 8! + 1$$
$$\mathbf{40082} := -\langle 4! \parallel 0! \rangle + 0! + 8! + 2$$
$$\mathbf{40083} := -\langle 4! \parallel 0! \rangle + 0! + 8! + 3$$
$$\mathbf{40084} := -\langle 4! \parallel 0! \rangle + 0! + 8! + 4$$
$$\mathbf{40085} := -\langle 4! \parallel 0! \rangle + 0! + 8! + 5$$
$$\mathbf{40086} := -\langle 4! \parallel 0! \rangle + 0! + 8! + 6$$
$$\mathbf{40087} := -\langle 4! \parallel 0! \rangle + 0! + 8! + 7$$
$$\mathbf{40088} := -\langle 4! \parallel 0! \rangle + 0! + 8! + 8$$
$$\mathbf{40089} := -\langle 4! \parallel 0! \rangle + 0! + 8! + 9$$

$$\mathbf{44640} := (4!/4)! \times \left\langle 6 \parallel \sqrt{4} \right\rangle + 0$$
$$\mathbf{44641} := (4!/4)! \times \left\langle 6 \parallel \sqrt{4} \right\rangle + 1$$
$$\mathbf{44642} := (4!/4)! \times \left\langle 6 \parallel \sqrt{4} \right\rangle + 2$$
$$\mathbf{44643} := (4!/4)! \times \left\langle 6 \parallel \sqrt{4} \right\rangle + 3$$
$$\mathbf{44644} := (4!/4)! \times \left\langle 6 \parallel \sqrt{4} \right\rangle + 4$$
$$\mathbf{44645} := (4!/4)! \times \left\langle 6 \parallel \sqrt{4} \right\rangle + 5$$
$$\mathbf{44646} := (4!/4)! \times \left\langle 6 \parallel \sqrt{4} \right\rangle + 6$$
$$\mathbf{44647} := (4!/4)! \times \left\langle 6 \parallel \sqrt{4} \right\rangle + 7$$
$$\mathbf{44648} := (4!/4)! \times \left\langle 6 \parallel \sqrt{4} \right\rangle + 8$$
$$\mathbf{44649} := (4!/4)! \times \left\langle 6 \parallel \sqrt{4} \right\rangle + 9$$

$$\mathbf{46690} := 4 + 6^6 + \left\langle \sqrt{9} \parallel 0 \right\rangle$$
$$\mathbf{46691} := 4 + 6^6 + \left\langle \sqrt{9} \parallel 1 \right\rangle$$
$$\mathbf{46692} := 4 + 6^6 + \left\langle \sqrt{9} \parallel 2 \right\rangle$$
$$\mathbf{46693} := 4 + 6^6 + \left\langle \sqrt{9} \parallel 3 \right\rangle$$
$$\mathbf{46694} := 4 + 6^6 + \left\langle \sqrt{9} \parallel 4 \right\rangle$$
$$\mathbf{46695} := 4 + 6^6 + \left\langle \sqrt{9} \parallel 5 \right\rangle$$
$$\mathbf{46696} := 4 + 6^6 + \left\langle \sqrt{9} \parallel 6 \right\rangle$$
$$\mathbf{46697} := 4 + 6^6 + \left\langle \sqrt{9} \parallel 7 \right\rangle$$
$$\mathbf{46698} := 4 + 6^6 + \left\langle \sqrt{9} \parallel 8 \right\rangle$$
$$\mathbf{46699} := 4 + 6^6 + \left\langle \sqrt{9} \parallel 9 \right\rangle$$

$$\mathbf{69120} := 6! \times \langle 9 \parallel (1+2)! \rangle + 0$$
$$\mathbf{69121} := 6! \times \langle 9 \parallel (1+2)! \rangle + 1$$
$$\mathbf{69122} := 6! \times \langle 9 \parallel (1+2)! \rangle + 2$$
$$\mathbf{69123} := 6! \times \langle 9 \parallel (1+2)! \rangle + 3$$
$$\mathbf{69124} := 6! \times \langle 9 \parallel (1+2)! \rangle + 4$$
$$\mathbf{69125} := 6! \times \langle 9 \parallel (1+2)! \rangle + 5$$
$$\mathbf{69126} := 6! \times \langle 9 \parallel (1+2)! \rangle + 6$$
$$\mathbf{69127} := 6! \times \langle 9 \parallel (1+2)! \rangle + 7$$
$$\mathbf{69128} := 6! \times \langle 9 \parallel (1+2)! \rangle + 8$$
$$\mathbf{69129} := 6! \times \langle 9 \parallel (1+2)! \rangle + 9$$

$$\mathbf{75840} := 7! \times 5!/8 + \langle 4! \parallel 0 \rangle$$
$$\mathbf{75841} := 7! \times 5!/8 + \langle 4! \parallel 1 \rangle$$
$$\mathbf{75842} := 7! \times 5!/8 + \langle 4! \parallel 2 \rangle$$
$$\mathbf{75843} := 7! \times 5!/8 + \langle 4! \parallel 3 \rangle$$
$$\mathbf{75844} := 7! \times 5!/8 + \langle 4! \parallel 4 \rangle$$
$$\mathbf{75845} := 7! \times 5!/8 + \langle 4! \parallel 5 \rangle$$
$$\mathbf{75846} := 7! \times 5!/8 + \langle 4! \parallel 6 \rangle$$
$$\mathbf{75847} := 7! \times 5!/8 + \langle 4! \parallel 7 \rangle$$
$$\mathbf{75848} := 7! \times 5!/8 + \langle 4! \parallel 8 \rangle$$
$$\mathbf{75849} := 7! \times 5!/8 + \langle 4! \parallel 9 \rangle$$

2.1.3 Reverse Order of Digits

$$\mathbf{01320} := 0 + (2+3)! \times \langle 1 \parallel 0! \rangle$$
$$\mathbf{01321} := 1 + (2+3)! \times \langle 1 \parallel 0! \rangle$$
$$\mathbf{01322} := 2 + (2+3)! \times \langle 1 \parallel 0! \rangle$$
$$\mathbf{01323} := 3 + (2+3)! \times \langle 1 \parallel 0! \rangle$$
$$\mathbf{01324} := 4 + (2+3)! \times \langle 1 \parallel 0! \rangle$$
$$\mathbf{01325} := 5 + (2+3)! \times \langle 1 \parallel 0! \rangle$$
$$\mathbf{01326} := 6 + (2+3)! \times \langle 1 \parallel 0! \rangle$$
$$\mathbf{01327} := 7 + (2+3)! \times \langle 1 \parallel 0! \rangle$$
$$\mathbf{01328} := 8 + (2+3)! \times \langle 1 \parallel 0! \rangle$$
$$\mathbf{01329} := 9 + (2+3)! \times \langle 1 \parallel 0! \rangle$$

$$\mathbf{03050} := 0 + 50 \times \langle 3! \parallel 0! \rangle$$
$$\mathbf{03051} := 1 + 50 \times \langle 3! \parallel 0! \rangle$$
$$\mathbf{03052} := 2 + 50 \times \langle 3! \parallel 0! \rangle$$
$$\mathbf{03053} := 3 + 50 \times \langle 3! \parallel 0! \rangle$$
$$\mathbf{03054} := 4 + 50 \times \langle 3! \parallel 0! \rangle$$
$$\mathbf{03055} := 5 + 50 \times \langle 3! \parallel 0! \rangle$$
$$\mathbf{03056} := 6 + 50 \times \langle 3! \parallel 0! \rangle$$
$$\mathbf{03057} := 7 + 50 \times \langle 3! \parallel 0! \rangle$$
$$\mathbf{03058} := 8 + 50 \times \langle 3! \parallel 0! \rangle$$
$$\mathbf{03059} := 9 + 50 \times \langle 3! \parallel 0! \rangle$$

$$\mathbf{03720} := 0 + (-2+7)! \times \langle 3 \parallel 0! \rangle$$
$$\mathbf{03721} := 1 + (-2+7)! \times \langle 3 \parallel 0! \rangle$$
$$\mathbf{03722} := 2 + (-2+7)! \times \langle 3 \parallel 0! \rangle$$
$$\mathbf{03723} := 3 + (-2+7)! \times \langle 3 \parallel 0! \rangle$$
$$\mathbf{03724} := 4 + (-2+7)! \times \langle 3 \parallel 0! \rangle$$
$$\mathbf{03725} := 5 + (-2+7)! \times \langle 3 \parallel 0! \rangle$$
$$\mathbf{03726} := 6 + (-2+7)! \times \langle 3 \parallel 0! \rangle$$
$$\mathbf{03727} := 7 + (-2+7)! \times \langle 3 \parallel 0! \rangle$$
$$\mathbf{03728} := 8 + (-2+7)! \times \langle 3 \parallel 0! \rangle$$
$$\mathbf{03729} := 9 + (-2+7)! \times \langle 3 \parallel 0! \rangle$$

$$\mathbf{04790} := 0 - 9 + 7! - \langle 4! \parallel 0! \rangle$$
$$\mathbf{04791} := 1 - 9 + 7! - \langle 4! \parallel 0! \rangle$$
$$\mathbf{04792} := 2 - 9 + 7! - \langle 4! \parallel 0! \rangle$$
$$\mathbf{04793} := 3 - 9 + 7! - \langle 4! \parallel 0! \rangle$$
$$\mathbf{04794} := 4 - 9 + 7! - \langle 4! \parallel 0! \rangle$$
$$\mathbf{04795} := 5 - 9 + 7! - \langle 4! \parallel 0! \rangle$$
$$\mathbf{04796} := 6 - 9 + 7! - \langle 4! \parallel 0! \rangle$$
$$\mathbf{04797} := 7 - 9 + 7! - \langle 4! \parallel 0! \rangle$$
$$\mathbf{04798} := 8 - 9 + 7! - \langle 4! \parallel 0! \rangle$$
$$\mathbf{04799} := 9 - 9 + 7! - \langle 4! \parallel 0! \rangle$$

$$\mathbf{21960} := 0 + 6! \times \left\langle (\sqrt{9})! \parallel 1 \right\rangle /2$$
$$\mathbf{21961} := 1 + 6! \times \left\langle (\sqrt{9})! \parallel 1 \right\rangle /2$$
$$\mathbf{21962} := 2 + 6! \times \left\langle (\sqrt{9})! \parallel 1 \right\rangle /2$$
$$\mathbf{21963} := 3 + 6! \times \left\langle (\sqrt{9})! \parallel 1 \right\rangle /2$$
$$\mathbf{21964} := 4 + 6! \times \left\langle (\sqrt{9})! \parallel 1 \right\rangle /2$$
$$\mathbf{21965} := 5 + 6! \times \left\langle (\sqrt{9})! \parallel 1 \right\rangle /2$$
$$\mathbf{21966} := 6 + 6! \times \left\langle (\sqrt{9})! \parallel 1 \right\rangle /2$$
$$\mathbf{21967} := 7 + 6! \times \left\langle (\sqrt{9})! \parallel 1 \right\rangle /2$$
$$\mathbf{21968} := 8 + 6! \times \left\langle (\sqrt{9})! \parallel 1 \right\rangle /2$$
$$\mathbf{21969} := 9 + 6! \times \left\langle (\sqrt{9})! \parallel 1 \right\rangle /2$$

$$\mathbf{45360} := 0 + 6! \times \left\langle 3! \parallel \sqrt{5+4} \right\rangle$$
$$\mathbf{45361} := 1 + 6! \times \left\langle 3! \parallel \sqrt{5+4} \right\rangle$$
$$\mathbf{45362} := 2 + 6! \times \left\langle 3! \parallel \sqrt{5+4} \right\rangle$$
$$\mathbf{45363} := 3 + 6! \times \left\langle 3! \parallel \sqrt{5+4} \right\rangle$$
$$\mathbf{45364} := 4 + 6! \times \left\langle 3! \parallel \sqrt{5+4} \right\rangle$$
$$\mathbf{45365} := 5 + 6! \times \left\langle 3! \parallel \sqrt{5+4} \right\rangle$$
$$\mathbf{45366} := 6 + 6! \times \left\langle 3! \parallel \sqrt{5+4} \right\rangle$$
$$\mathbf{45367} := 7 + 6! \times \left\langle 3! \parallel \sqrt{5+4} \right\rangle$$
$$\mathbf{45368} := 8 + 6! \times \left\langle 3! \parallel \sqrt{5+4} \right\rangle$$
$$\mathbf{45369} := 9 + 6! \times \left\langle 3! \parallel \sqrt{5+4} \right\rangle$$

$$\mathbf{84960} := 0 + 6! \times \left\langle \left(9 + \sqrt{4}\right) \parallel 8 \right\rangle$$
$$\mathbf{84961} := 1 + 6! \times \left\langle \left(9 + \sqrt{4}\right) \parallel 8 \right\rangle$$
$$\mathbf{84962} := 2 + 6! \times \left\langle \left(9 + \sqrt{4}\right) \parallel 8 \right\rangle$$
$$\mathbf{84963} := 3 + 6! \times \left\langle \left(9 + \sqrt{4}\right) \parallel 8 \right\rangle$$
$$\mathbf{84964} := 4 + 6! \times \left\langle \left(9 + \sqrt{4}\right) \parallel 8 \right\rangle$$
$$\mathbf{84965} := 5 + 6! \times \left\langle \left(9 + \sqrt{4}\right) \parallel 8 \right\rangle$$
$$\mathbf{84966} := 6 + 6! \times \left\langle \left(9 + \sqrt{4}\right) \parallel 8 \right\rangle$$
$$\mathbf{84967} := 7 + 6! \times \left\langle \left(9 + \sqrt{4}\right) \parallel 8 \right\rangle$$
$$\mathbf{84968} := 8 + 6! \times \left\langle \left(9 + \sqrt{4}\right) \parallel 8 \right\rangle$$
$$\mathbf{84969} := 9 + 6! \times \left\langle \left(9 + \sqrt{4}\right) \parallel 8 \right\rangle$$

2.2 Non Sequential Representations

In this subsection, there are numbers those are not in a sequential way as of subsection above. Again, we have divided it in three subsections. One on both ways. Second on digit's order and third on reverse order of digits.

2.2.1 Both Ways

Below are selfie numbers those can be written in both ways, i.e., in digit's order and its reverse. The first three numbers are written in one way as they are palindromes.

$$\mathbf{15851} := (1+5!) \times \langle (8+5) \parallel 1 \rangle$$
$$\mathbf{44644} := (4!/4)! \times \left\langle 6 \parallel \sqrt{4} \right\rangle + 4$$
$$\mathbf{74347} := 7 \times 43 \times \langle 4! \parallel 7 \rangle$$

$$\mathbf{396} := \left\langle 3! \parallel \left(\sqrt{9}\right)! \right\rangle \times 6 = \left\langle 6 \parallel \left(\sqrt{9}\right)! \right\rangle \times 3!$$

$$\mathbf{10582} := \langle 1 \parallel 0! \rangle \times (5! \times 8 + 2) = (2 + 8 \times 5!) \times \langle 0! \parallel 1 \rangle$$
$$\mathbf{10584} := \langle 1 \parallel 0! \rangle \times 5! \times 8 + 4! = 4! + 8 \times 5! \times \langle 0! \parallel 1 \rangle$$
$$\mathbf{10635} := (-\langle 1 \parallel 0! \rangle + 6!) \times 3 \times 5 = 5 \times 3 \times (6! - \langle 0! \parallel 1 \rangle)$$
$$\mathbf{14379} := (-1 - \langle 4! \parallel 3! \rangle + 7!) \times \sqrt{9} = \sqrt{9} \times (7! - 3! - \langle 4! \parallel 1 \rangle)$$
$$\mathbf{15079} := -\langle (-1+5) \parallel 0! \rangle + 7! \times \sqrt{9} = \sqrt{9} \times 7! - \langle (-0!+5) \parallel 1 \rangle$$

$$\mathbf{15162} := \left\langle \sqrt{-1+5} \parallel 1 \right\rangle \times (6!+2) = (2+6!) \times \left\langle \sqrt{-1+5} \parallel 1 \right\rangle$$
$$\mathbf{15696} := (-1+5)! \times \left(6! - \left\langle \left(\sqrt{9}\right)! \parallel 6 \right\rangle\right) = \left(-\left\langle 6 \parallel \left(\sqrt{9}\right)! \right\rangle + 6!\right) \times (5-1)!$$
$$\mathbf{17324} := \langle 4! \parallel (-2+3!) \rangle \times 71 = \sqrt{1+7!} \times \langle (3!-2)! \parallel 4 \rangle$$
$$\mathbf{17346} := \langle (-1+7) \parallel 3! \rangle + 4! \times 6! = 6! \times 4! + \langle 3! \parallel (7-1) \rangle$$

$$\mathbf{19844} := \left\langle 4! \parallel \sqrt{4} \right\rangle \times \left(\left\langle 8 \parallel \sqrt{9} \right) - 1 \right\rangle = \left(1 + \sqrt{\sqrt{9^8}}\right) \times \left\langle 4! \parallel \sqrt{4} \right\rangle$$
$$\mathbf{20147} := 7! \times 4 - \langle 1 \parallel 0! \rangle - 2 = -2 - \langle 0! \parallel 1 \rangle + 4 \times 7!$$
$$\mathbf{23593} := \left\langle 3 \parallel \sqrt{9} \right\rangle \times (-5 + 3!!) - 2 = -2 + (3!! - 5) \times \left\langle \sqrt{9} \parallel 3 \right\rangle$$
$$\mathbf{24964} := (4 + \langle (6+9) \parallel 4 \rangle)^2 = (2 + \langle (4! - 9) \parallel 6 \rangle)^{\sqrt{4}}$$
$$\mathbf{29789} := \left\langle \sqrt{9} \parallel (8-7) \right\rangle^{\sqrt{9}} - 2 = -2 + \left\langle \sqrt{9} \parallel (-7+8) \right\rangle^{\sqrt{9}}$$

$$\mathbf{29793} := \left\langle 3 \parallel \left(-\left(\sqrt{9}\right)! + 7\right) \right\rangle^{\sqrt{9}} + 2 = 2 + \left\langle \sqrt{9} \parallel \left(7 - \left(\sqrt{9}\right)!\right) \right\rangle^3$$
$$\mathbf{30172} := -2 + (7! - \langle 1 \parallel 0! \rangle) \times 3! = 3! \times (-\langle 0! \parallel 1 \rangle + 7!) - 2$$
$$\mathbf{30174} := \sqrt{4} \times (7! - \langle 1 \parallel 0! \rangle) \times 3 = -3 \times (\langle 0! \parallel 1 \rangle - 7!) \times \sqrt{4}$$
$$\mathbf{30282} := \left\langle \sqrt{2 \times 8} \parallel 2 \right\rangle \times (0! + 3!!) = (3!! + 0!) \times \left\langle \sqrt{2 \times 8} \parallel 2 \right\rangle$$
$$\mathbf{30606} := ((6+0!)! + \langle 6 \parallel 0! \rangle) \times 3! = ((3!+0!)! + \langle 6 \parallel 0! \rangle) \times 6$$

$$\mathbf{30636} := (\langle 6 \parallel 3! \rangle + (6+0!)!) \times 3! \quad = ((3!+0!)! + \langle 6 \parallel 3! \rangle) \times 6$$
$$\mathbf{30897} := \left\langle 3 \parallel \sqrt{0!+8} \right\rangle^{\sqrt{9}} - 7! \quad = -7! + \left\langle \sqrt{9} \parallel \sqrt{8+0!} \right\rangle^{3}$$
$$\mathbf{34398} := \left(\left\langle 3! \parallel \sqrt{4} \right\rangle - 3!! \right) \times 9 + 8! = 8! + 9 \times \left(\left\langle 3! \parallel \sqrt{4} \right\rangle - 3!! \right)$$
$$\mathbf{34704} := 3! \times \langle 4! \parallel (7 \times 0)! \rangle \times 4! \quad = \langle 4! \parallel (0 \times 7)! \rangle \times 4! \times 3!$$
$$\mathbf{39105} := (3!! - 9) \times \langle 1 \parallel 0! \rangle \times 5 \quad = 5 \times \langle 0! \parallel 1 \rangle \times (-9 + 3!!)$$

$$\mathbf{39304} := \left(3^9 - \langle 3 \parallel 0! \rangle \right) \times \sqrt{4} \quad = (\langle 4 \parallel 03 \rangle - 9)^3$$
$$\mathbf{39498} := -\langle 3 \times 9 \parallel 4 \rangle \times \sqrt{9} + 8! \quad = 8! - \left\langle 9 \parallel \sqrt{4} \right\rangle \times 9 + 3!$$
$$\mathbf{39658} := \left\langle 3! \parallel \sqrt{9} \right\rangle - 6! - 5 + 8! \quad = 8! - 5 + \left\langle 6 \parallel \sqrt{9} \right\rangle - 3!!$$
$$\mathbf{39786} := \left(-\left\langle 3! \parallel \left(\sqrt{9}\right)! \right\rangle + 7! \right) \times 8 - 6 \quad = -6 + 8 \times \left(7! - \left\langle \left(\sqrt{9}\right)! \parallel 3! \right\rangle \right)$$
$$\mathbf{39789} := \left(-\left\langle 3! \parallel \left(\sqrt{9}\right)! \right\rangle + 7! \right) \times 8 - \sqrt{9} = -\sqrt{9} + 8 \times \left(7! - \left\langle \left(\sqrt{9}\right)! \parallel 3! \right\rangle \right)$$

$$\mathbf{39792} := \left(-\left\langle 3! \parallel \left(\sqrt{9}\right)! \right\rangle + 7! \right) \times \left(\left(\sqrt{9}\right)! + 2 \right) = 2^{\sqrt{9}} \times \left(7! - \left\langle \left(\sqrt{9}\right)! \parallel 3! \right\rangle \right)$$
$$\mathbf{39879} := \left\langle 3! \parallel \sqrt{9} \right\rangle \times \left(-87 + \left(\sqrt{9}\right)!! \right) \quad = \left(\sqrt{9} + 7!/8 \right) \times \left\langle \left(\sqrt{9}\right)! \parallel 3 \right\rangle$$
$$\mathbf{39918} := -3! \times \left(\left\langle \left(\sqrt{9}\right)! \parallel \left(\sqrt{9}\right)! \right\rangle + 1 \right) + 8! \quad = 8! - \left(1 + \left\langle \left(\sqrt{9}\right)! \parallel \left(\sqrt{9}\right)! \right\rangle \right) \times 3!$$
$$\mathbf{39942} := -\left\langle 3! \parallel \sqrt{9} \right\rangle \times \left(\sqrt{9}\right)! + (4 \times 2)! \quad = (2 \times 4)! - \left\langle \left(\sqrt{9}\right)! \parallel \sqrt{9} \right\rangle \times 3!$$
$$\mathbf{39948} := -\left\langle \left(3 \times \sqrt{9} \right) \parallel \sqrt{9} \right\rangle \times 4 + 8! \quad = 8! - 4 \times \langle 9 \parallel (9/3) \rangle$$

$$\mathbf{40058} := -\sqrt{4} \times (\langle 0! \parallel 0! \rangle + 5!) + 8! \quad = 8! - (5! + \langle 0! \parallel 0! \rangle) \times \sqrt{4}$$
$$\mathbf{40078} := -\langle 4! \parallel 0! \rangle - (0 \times 7)! + 8! \quad = 8! - \left\langle (-7 + \langle 0! \parallel 0! \rangle)! \parallel \sqrt{4} \right)$$
$$\mathbf{40108} := -\left\langle \left\langle \sqrt{4} \parallel 0! \right\rangle \parallel 1 \right\rangle - 0! + 8! = 8! - \left\langle \langle (0!+1) \parallel 0! \rangle \parallel \sqrt{4} \right\rangle$$
$$\mathbf{40158} := -\langle 4 \parallel 0! \rangle - 1 - 5! + 8! \quad = 8! - \left\langle (5 + \langle 1 \parallel 0! \rangle) \parallel \sqrt{4} \right\rangle$$
$$\mathbf{40238} := -\langle 4 \parallel 0! \rangle \times \sqrt{-2+3!} + 8! \quad = 8! - \left\langle (3!+2) \parallel \sqrt{04} \right\rangle$$

$$\mathbf{40353} := \left\langle \left(\sqrt{4} + 0! \right) \parallel 3 \right\rangle + (5+3)! = (3+5)! + \langle 3 \parallel 0! \rangle + \sqrt{4}$$
$$\mathbf{40362} := \left\langle 4 \parallel \sqrt{0!+3} \right\rangle + (6+2)! \quad = (2+6)! + \left\langle (3+0!) \parallel \sqrt{4} \right\rangle$$
$$\mathbf{40364} := \langle 4 \parallel 0! \rangle + 3 + \left(\sqrt{64} \right)! \quad = \left(\sqrt{4} + 6 \right)! + \langle (3+0!) \parallel 4 \rangle$$
$$\mathbf{40378} := \left\langle \sqrt{4} \parallel 0! \right\rangle + 37 + 8! \quad = 8! - 7 + \langle 3! \parallel 0! \rangle + 4$$
$$\mathbf{40479} := \langle 4! \parallel 0! \rangle \times 4! \times 7 - 9 \quad = -9 + 7 \times \langle 4! \parallel 0! \rangle \times 4!$$

$$\mathbf{40698} := \left\langle \sqrt{4} \parallel 0! \right\rangle \times 6 \times \sqrt{9} + 8! = 8! + \left(\sqrt{9}\right)! \times \left(\langle 6 \parallel 0! \rangle + \sqrt{4}\right)$$

$$\mathbf{40998} := -\left\langle 4 \parallel \left(\sqrt{0! + \sqrt{9}}\right) \right\rangle + \left(\sqrt{9}\right)!! + 8! = 8! + \left(\sqrt{9}\right)!! - \left\langle \left(\sqrt{9} + 0!\right) \parallel \sqrt{4} \right\rangle$$

$$\mathbf{43533} := (-4! + 3!! - 5) \times \langle 3! \parallel 3 \rangle = \langle 3! \parallel 3 \rangle \times (-5 + 3!! - 4!)$$

$$\mathbf{43913} := -4 - 3 + \left\langle \left(\sqrt{9}\right)! \parallel 1 \right\rangle \times 3!! = \langle 3! \parallel 1 \rangle \times \left(\sqrt{9}\right)!! - 3 - 4$$

$$\mathbf{43919} := \sqrt{4} + 3!! \times \left\langle \left(\sqrt{9}\right)! \parallel 1 \right\rangle - \sqrt{9} = \left\langle \left(\sqrt{9}\right)! \parallel 1 \right\rangle \times \left(\sqrt{9}\right)!! + 3 - 4$$

$$\mathbf{44164} := \langle (4!/4) \parallel 1 \rangle \times (6! + 4) = \langle (4! - 6) \parallel 1 \rangle \times \langle 4! \parallel 4 \rangle$$

$$\mathbf{44398} := -\left\langle 4! \parallel \sqrt{4} \right\rangle - 3!! + 9!/8 = 8! + \left(\sqrt{9}\right)! \times 3!! - \left\langle 4! \parallel \sqrt{4} \right\rangle$$

$$\mathbf{44469} := \langle 4! \parallel 4 \rangle /4 \times (6! + 9) = \sqrt{9^6} \times \langle 4! \parallel 4 \rangle /4$$

$$\mathbf{44634} := -4!/4 + 6! \times \left\langle 3! \parallel \sqrt{4} \right\rangle = -4 + 3!! \times \left\langle 6 \parallel \sqrt{4} \right\rangle - \sqrt{4}$$

$$\mathbf{44636} := -4 + (-4 + \langle 6 \parallel 3! \rangle) \times 6! = 6! \times \langle 3! \parallel (6 - 4) \rangle - 4$$

$$\mathbf{44642} := (4!/4)! \times \left\langle 6 \parallel \sqrt{4} \right\rangle + 2 = (2 + 4)! \times \left\langle 6 \parallel \sqrt{4} \right\rangle + \sqrt{4}$$

$$\mathbf{44646} := (4!/4)! \times \left\langle 6 \parallel \sqrt{4} \right\rangle + 6 = \left\langle 6 \parallel \sqrt{4} \right\rangle \times 6! + \sqrt{4} + 4$$

$$\mathbf{45699} := 4! + (5 + 6!) \times \left\langle \left(\sqrt{9}\right)! \parallel \sqrt{9} \right\rangle = \left\langle \left(\sqrt{9}\right)! \parallel \sqrt{9} \right\rangle \times (6! + 5) + 4!$$

$$\mathbf{46344} := \sqrt{4^6} \times 3!! + \langle 4! \parallel 4! \rangle = \langle 4! \parallel 4! \rangle + 3!! \times 64$$

$$\mathbf{46693} := 4 + 6^6 + \left\langle \sqrt{9} \parallel 3 \right\rangle = \left\langle 3 \parallel \sqrt{9} \right\rangle + 6^6 + 4$$

$$\mathbf{46944} := 4! + 6^{\left(\sqrt{9}\right)!} + \langle 4! \parallel 4! \rangle = \langle 4! \parallel 4! \rangle + \left(\sqrt{9}\right)!^6 + 4!$$

$$\mathbf{46968} := -4! + \left\langle 6 \parallel \left(\sqrt{9}\right)! \right\rangle \times (6! - 8) = (-8 + 6!) \times \left\langle \left(\sqrt{9}\right)! \parallel 6 \right\rangle - 4!$$

$$\mathbf{47424} := \langle 4! \parallel 7 \rangle \times 4! \times 2 \times 4 = 4 \times 2 \times \langle 4! \parallel 7 \rangle \times 4!$$

$$\mathbf{49236} := \left(4! + \left(\sqrt{9}\right)!! + 2\right) \times \langle 3! \parallel 6 \rangle = \langle 6 \parallel 3! \rangle \times \left(2 + \left(\sqrt{9}\right)!! + 4!\right)$$

$$\mathbf{49923} := \left\langle \left(4 \times \sqrt{9}\right) \parallel 9 \right\rangle^2 \times 3 = 3 \times \left\langle \left(2 \times \left(\sqrt{9}\right)!\right) \parallel 9 \right\rangle^{\sqrt{4}}$$

$$\mathbf{58444} := -5! + \left\langle (8 - 4)! \parallel \sqrt{4} \right\rangle^{\sqrt{4}} = \left\langle 4! \parallel \sqrt{4} \right\rangle^{\sqrt{-4+8}} - 5!$$

$$\mathbf{64944} := \left\langle (6 \times 4) \parallel \left(\sqrt{9}\right)! \right\rangle \times \langle 4! \parallel 4! \rangle = 4! \times \left(\sqrt{4} + 9\right) \times \langle 4! \parallel 6 \rangle$$

$$\mathbf{66954} := -6 + 6! \times \left\langle 9 \parallel \sqrt{5 + 4} \right\rangle = \left\langle (4 + 5) \parallel \sqrt{9} \right\rangle \times 6! - 6$$

$$\mathbf{66996} := 6 \times 6 + \left\langle 9 \parallel \sqrt{9} \right\rangle \times 6! = 6! \times \left\langle 9 \parallel \sqrt{9} \right\rangle + 6 \times 6$$

$$\mathbf{71999} := 7! - 1 + \left(\sqrt{9}\right)!! \times \left\langle 9 \parallel \sqrt{9} \right\rangle = \left(\sqrt{9}\right)!! \times \left\langle 9 \parallel \sqrt{9} \right\rangle - 1 + 7!$$

$$\mathbf{77448} := 7 \times (7! + \langle 4! \parallel 4! \rangle) + 8! = 8! + (\langle 4! \parallel 4! \rangle + 7!) \times 7$$

$$\mathbf{79989} := -7 \times \left(\left\langle 9 \parallel \sqrt{9} \right\rangle + 8!\right) + 9! = 9! - \left(8! + \left\langle 9 \parallel \sqrt{9} \right\rangle\right) \times 7$$

$$\mathbf{80728} := \langle 8 \parallel 0! \rangle + 7 + 2 \times 8! = 8! \times 2 + \langle 7 + 0! \parallel 8 \rangle$$
$$\mathbf{80804} := (\langle 8 \parallel 0! \rangle + 8! + 0!) \times \sqrt{4} = \sqrt{4} \times (0! + \langle 8 \parallel 0! \rangle + 8!)$$
$$\mathbf{85344} := \left(\left\langle 4 \parallel \sqrt{4} \right\rangle + 3!!\right) \times (5! - 8) = (-8 + 5!) \times \left(3!! + \left\langle 4 \parallel \sqrt{4} \right\rangle\right)$$
$$\mathbf{93955} := \left(\left(\sqrt{9}\right)!! + \left\langle 3! \parallel \sqrt{9} \right\rangle\right) \times 5! - 5 = -5 + 5! \times \left(\left(\sqrt{9}\right)!! + \left\langle 3! \parallel \sqrt{9} \right\rangle\right)$$
$$\mathbf{96624} := \left\langle \left(\sqrt{9}\right)! \parallel 6 \right\rangle \times (6! \times 2 + 4!) = (4! + 2 \times 6!) \times \left\langle 6 \parallel \left(\sqrt{9}\right)! \right\rangle$$
$$\mathbf{98404} := \sqrt{9} + 8! + \langle 4! \parallel 0! \rangle^{\sqrt{4}} = \langle 4! \parallel 0! \rangle^{\sqrt{4}} + 8! + \sqrt{9}$$

2.2.2 Digit's Order

Below are selfie numbers written in digit's order. The numbers appearing in subsection 2.2.1 are written again except those given in section on sequential representations 2.1.

$$\mathbf{305} := \langle 3! \parallel 0! \rangle \times 5$$
$$\mathbf{396} := \left\langle 3! \parallel \left(\sqrt{9}\right)! \right\rangle \times 6$$
$$\mathbf{473} := -\langle 4! \parallel 7 \rangle + 3!!$$
$$\mathbf{492} := \left\langle 4! \parallel \left(\sqrt{9}\right)! \right\rangle \times 2$$
$$\mathbf{793} := \left\langle 7 \parallel \sqrt{9} \right\rangle + 3!!$$
$$\mathbf{796} := \left\langle 7 \parallel \left(\sqrt{9}\right)! \right\rangle + 6!$$

$$\mathbf{1446} := \left(-1 + \left\langle 4! \parallel \sqrt{4} \right\rangle\right) \times 6$$
$$\mathbf{1476} := (-1 + \langle 4! \parallel 7 \rangle) \times 6$$
$$\mathbf{1489} := 1 + \langle 4! \parallel 8 \rangle \times \left(\sqrt{9}\right)!$$
$$\mathbf{1493} := -1 + \langle 4! \parallel 9 \rangle \times 3!$$
$$\mathbf{1495} := (-1 + 4!) \times \left\langle \left(\sqrt{9}\right)! \parallel 5 \right\rangle$$
$$\mathbf{1920} := (-1 + 9)! / \langle 2 \parallel 0! \rangle$$
$$\mathbf{1968} := \left\langle \left(1 + \sqrt{9}\right)! \parallel 6 \right\rangle \times 8$$
$$\mathbf{2904} := \left\langle 2 \times \left(\sqrt{9}\right)! \parallel 0! \right\rangle \times 4!$$
$$\mathbf{3050} := \langle 3! \parallel 0! \rangle \times 50$$
$$\mathbf{3535} := 3!! \times 5 - \langle 3! \parallel 5 \rangle$$

$$\mathbf{3844} := \langle 3! \parallel (8/4) \rangle^{\sqrt{4}}$$
$$\mathbf{3905} := \left(3!! + \left\langle \left(\sqrt{9}\right)! \parallel 0! \right\rangle\right) \times 5$$
$$\mathbf{3955} := \left\langle 3 \parallel \sqrt{9} \right\rangle \times 5! - 5$$
$$\mathbf{3960} := \left\langle 3 \parallel \sqrt{9} \right\rangle \times (6 - 0!)!$$
$$\mathbf{3969} := \left\langle 3! \parallel \sqrt{9} \right\rangle^{6/\sqrt{9}}$$
$$\mathbf{4079} := -\langle 4! \parallel 0! \rangle + 7! - \left(\sqrt{9}\right)!!$$
$$\mathbf{4332} := -4! + \langle 3! \parallel 3! \rangle^2$$
$$\mathbf{4920} := \left\langle 4! \parallel \left(\sqrt{9}\right)! \right\rangle \times 20$$
$$\mathbf{4937} := -\left\langle 4 + \left(\sqrt{9}\right)! \parallel 3 \right\rangle + 7!$$
$$\mathbf{4997} := -\left\langle 4 \parallel \left(9/\sqrt{9}\right) \right\rangle + 7!$$
$$\mathbf{5040} := 5! \times (0! + \langle 4 \parallel 0! \rangle)$$
$$\mathbf{5091} := \langle 5 \parallel 0! \rangle + \left(\left(\sqrt{9}\right)! + 1\right)!$$
$$\mathbf{5097} := \langle 5 \parallel 0! \rangle + \left(\sqrt{9}\right)! + 7!$$
$$\mathbf{5640} := 5! \times (6 + \langle 4 \parallel 0! \rangle)$$
$$\mathbf{9984} := -\left\langle 9 \parallel \left(\sqrt{9}\right)! \right\rangle + 8!/4$$

$$\mathbf{10285} := \langle 1 \parallel 0! \rangle^2 \times 85$$
$$\mathbf{10404} := \left\langle 10 \parallel \sqrt{4} \right\rangle^{\sqrt{04}}$$
$$\mathbf{10582} := \langle 1 \parallel 0! \rangle \times (5! \times 8 + 2)$$
$$\mathbf{10584} := \langle 1 \parallel 0! \rangle \times 5! \times 8 + 4!$$
$$\mathbf{10635} := (-\langle 1 \parallel 0! \rangle + 6!) \times 3 \times 5$$
$$\mathbf{10648} := \langle 1 \parallel 0! \rangle^{6/\sqrt{4}} \times 8$$
$$\mathbf{10789} := -\langle 1 \parallel 0! \rangle + (7 + 8) \times \left(\sqrt{9}\right)!!$$
$$\mathbf{12544} := \left\langle (1 + 2 \times 5) \parallel \sqrt{4} \right\rangle^{\sqrt{4}}$$
$$\mathbf{14056} := \langle (1 + 4!) \parallel 0! \rangle \times 56$$

$$\mathbf{14091} := \langle(-1+4!) \parallel 0!\rangle \times \left\langle \left(\sqrt{9}\right)! \parallel 1 \right\rangle$$
$$\mathbf{14379} := (-1-\langle 4! \parallel 3!\rangle + 7!) \times \sqrt{9}$$
$$\mathbf{14632} := \langle(-1+4!) \parallel 6\rangle \times \langle 3! \parallel 2\rangle$$
$$\mathbf{14760} := (-1+\langle 4! \parallel 7\rangle) \times 60$$
$$\mathbf{14873} := 1-\langle 4! \parallel 8\rangle + 7! \times 3$$
$$\mathbf{15079} := -\langle(-1+5) \parallel 0!\rangle + 7! \times \sqrt{9}$$

$$\mathbf{15129} := \langle(-1+5) \parallel 1\rangle^2 \times 9$$
$$\mathbf{15141} := (1+(5+1)!) \times \left\langle \sqrt{4} \parallel 1 \right\rangle$$
$$\mathbf{15162} := \left\langle \sqrt{-1+5} \parallel 1 \right\rangle \times (6!+2)$$
$$\mathbf{15367} := (1+5!) \times \langle(3!+6) \parallel 7\rangle$$
$$\mathbf{15488} := (1+5!) \times \langle(4+8) \parallel 8\rangle$$

$$\mathbf{15535} := (-1+5!+5!) \times \langle 3! \parallel 5\rangle$$
$$\mathbf{15696} := (-1+5)! \times \left(6! - \left\langle \left(\sqrt{9}\right)! \parallel 6 \right\rangle\right)$$
$$\mathbf{15851} := (1+5!) \times \langle(8+5) \parallel 1\rangle$$
$$\mathbf{15972} := (1+5!) \times \left\langle \left(\left(\sqrt{9}\right)!+7\right) \parallel 2 \right\rangle$$
$$\mathbf{16896} := \sqrt{\sqrt{16^8}} \times \left\langle \left(\sqrt{9}\right)! \parallel 6 \right\rangle$$

$$\mathbf{17039} := -1+\langle 7 \parallel 0!\rangle \times 3!!/\sqrt{9}$$
$$\mathbf{17040} := \sqrt{1+7!} \times (-0!+\langle 4! \parallel 0!\rangle)$$
$$\mathbf{17324} := \sqrt{1+7!} \times \langle(3!-2)! \parallel 4\rangle$$
$$\mathbf{17329} := 1+\langle 7 \parallel 3!\rangle^2 \times \sqrt{9}$$
$$\mathbf{17343} := \langle(-1+7) \parallel 3\rangle + 4! \times 3!!$$

$$\mathbf{17346} := \langle(-1+7) \parallel 3!\langle + 4! \times 6!$$
$$\mathbf{17424} := \langle(17-4) \parallel 2\rangle^{\sqrt{4}}$$
$$\mathbf{17463} := \sqrt{1+7!} \times \langle 4! \parallel 6\rangle - 3$$
$$\mathbf{17464} := \sqrt{1+7!} \times \langle 4! \parallel 6\rangle - \sqrt{4}$$
$$\mathbf{17466} := \sqrt{1+7!} \times \langle(4 \times 6) \parallel 6\rangle$$

$$\mathbf{17469} := \sqrt{1+7!} \times \langle 4! \parallel 6\rangle + \sqrt{9}$$
$$\mathbf{17495} := -1+\left\langle 7 \parallel \sqrt{4} \right\rangle \times \sqrt{9^5}$$
$$\mathbf{17640} := 1 \times 7!/6 \times \left\langle \sqrt{4} \parallel 0! \right\rangle$$
$$\mathbf{17641} := 1+7!/6 \times \left\langle \sqrt{4} \parallel 1 \right\rangle$$
$$\mathbf{18504} := \left(\left(\sqrt{1+8}\right)!! + \langle 5 \parallel 0!\rangle\right) \times 4!$$

$$\mathbf{18744} := \sqrt{1^8+7!} \times \langle 4! \parallel 4!\rangle$$
$$\mathbf{19225} := \left(1+\left\langle \left(\sqrt{9}\right)! \parallel 2 \right\rangle^2\right) \times 5$$
$$\mathbf{19680} := \left\langle \left(1+\sqrt{9}\right)! \parallel 6 \right\rangle \times 80$$
$$\mathbf{19844} := \left(1+\sqrt{\sqrt{9^8}}\right) \times \left\langle 4! \parallel \sqrt{4} \right\rangle$$
$$\mathbf{19845} := 1 \times \sqrt{\sqrt{9^8}} \times \langle 4! \parallel 5\rangle$$

$$\mathbf{20147} := -2-\langle 0! \parallel 1\rangle + 4 \times 7!$$
$$\mathbf{20182} := \langle 2 \parallel 0!\rangle + 1 + 8!/2$$
$$\mathbf{20349} := \langle 2 \parallel 0!\rangle \times (3!! + \langle 4! \parallel 9\rangle)$$
$$\mathbf{20880} := (\langle 2 \parallel 0!\rangle + 8) \times \left(\sqrt{8+0!}\right)!!$$
$$\mathbf{20979} := -\langle 2 \parallel 0!\rangle^{\sqrt{9}} + 7! \times \left(\sqrt{9}\right)!$$

$$\mathbf{23042} := 2+3!! \times \left\langle \left(0!+\sqrt{4}\right) \parallel 2 \right\rangle$$
$$\mathbf{23392} := \left(2+3^{3!}\right) \times \left\langle \sqrt{9} \parallel 2 \right\rangle$$
$$\mathbf{23593} := -2+(3!!-5) \times \left\langle \sqrt{9} \parallel 3 \right\rangle$$
$$\mathbf{24288} := 2 \times 4!!/\langle 2 \parallel (8/8)\rangle!$$
$$\mathbf{24957} := -\left\langle 24 \parallel \sqrt{9} \right\rangle + 5 \times 7!$$

$$\mathbf{24964} := (2+\langle(4!-9) \parallel 6\rangle)^{\sqrt{4}}$$
$$\mathbf{25048} := \langle 2 \times 5 \parallel 0!\rangle \times \langle 4! \parallel 8)$$
$$\mathbf{25149} := \langle 2 \times 5 \parallel 1\rangle \times \langle 4! \parallel 9)$$
$$\mathbf{25344} := 2^5 \times 3 \times \langle 4! \parallel 4!\rangle$$
$$\mathbf{25405} := ((2+5)! + \langle 4 \parallel 0!\rangle) \times 5$$

$$\mathbf{25407} := 2+5 \times (\langle 4 \parallel 0!\rangle + 7!)$$
$$\mathbf{25575} := (\langle(2+5) \parallel 5\rangle + 7!) \times 5$$
$$\mathbf{26136} := \langle(2 \times 6) \parallel 1\rangle \times \sqrt{3!^6}$$
$$\mathbf{27362} := 2+\langle 7 \parallel 3!\rangle \times 6!/2$$
$$\mathbf{29040} := \left(2+\sqrt{9}\right)! \times (0! + \langle 4! \parallel 0!\rangle)$$

29042 $:= 2+\left(\left(\sqrt{9}\right)!-0!\right)! \times \langle 4! \parallel 2\rangle$

29440 $:= 2+\left(\left(\sqrt{9}\right)!!-\sqrt{4}\right) \times \langle 4 \parallel 0!\rangle$

29549 $:= 29+5! \times \left\langle 4! \parallel \left(\sqrt{9}\right)!\right\rangle$

29640 $:= \left(2+\sqrt{9}\right)! \times (6+\langle 4! \parallel 0!\rangle)$

29789 $:= -2+\left\langle \sqrt{9} \parallel (-7+8)\right\rangle^{\sqrt{9}}$

29793 $:= 2+\left\langle \sqrt{9} \parallel \left(7-\left(\sqrt{9}\right)!\right)\right\rangle^{3}$

29997 $:= -\left\langle \left(-2+\left(\sqrt{9}\right)!\right)! \parallel \sqrt{9}\right\rangle + \left(\sqrt{9}\right)! \times 7!$

30172 $:= 3! \times (-\langle 0! \parallel 1\rangle + 7!) - 2$

30173 $:= -\langle 3! \parallel 0!\rangle + (-1+7!) \times 3!$

30174 $:= -3 \times (\langle 0! \parallel 1\rangle - 7!) \times \sqrt{4}$

30179 $:= -\langle 3! \parallel 0!\rangle + 1 \times 7! \times \left(\sqrt{9}\right)!$

30264 $:= \langle (3+0!) \parallel 2\rangle \times 6! + 4!$

30273 $:= \langle 3 \parallel 0!\rangle + 2 + 7! \times 3!$

30282 $:= (3!!+0!) \times \left\langle \sqrt{2 \times 8} \parallel 2\right\rangle$

30307 $:= \langle 3! \parallel 0!\rangle + 3! \times (0!+7!)$

30337 $:= \langle 3! \parallel 0!\rangle + 3! \times (3!+7!)$

30500 $:= \langle 3! \parallel 0!\rangle \times 500$

30576 $:= (\langle 3! \parallel 0!\rangle - 5 + 7!) \times 6$

30606 $:= ((3!+0!)! + \langle 6 \parallel 0!\rangle) \times 6$

30636 $:= ((3!+0!)! + \langle 6 \parallel 3!\rangle) \times 6$

30667 $:= (\langle 3! \parallel 0!\rangle + 6! \times 6) \times 7$

30866 $:= \langle 3! \parallel 0!\rangle \times \left(\sqrt{8^6}-6\right)$

30897 $:= \left\langle 3 \parallel \sqrt{0!+8}\right\rangle^{\sqrt{9}} - 7!$

31232 $:= \langle 3! \parallel 1\rangle \times 2^{3^2}$

32830 $:= \langle 3! \parallel 2\rangle + 8^{(3!-0!)}$

32854 $:= \langle 3! \parallel 2\rangle + 8^5 + 4!$

33044 $:= (3!! + \langle 3 \parallel 0!\rangle) \times 44$

33124 $:= \langle (3 \times 3) \parallel 1\rangle^2 \times 4$

33327 $:= (\langle 3! \parallel 3\rangle + 3!)^2 \times 7$

33492 $:= 3+\left\langle (-3!+4!) \parallel \sqrt{9}\right\rangle^2$

33589 $:= (-\langle 3! \parallel 3!\rangle + 5 \times 8!) \,/\, \left(\sqrt{9}\right)!$

33597 $:= 3^{3!} \times \left\langle 5 \parallel \sqrt{9}\right\rangle - 7!$

33696 $:= 3!^3 \times \langle (6+9) \parallel 6\rangle$

34398 $:= \left(\left\langle 3! \parallel \sqrt{4}\right\rangle - 3!!\right) \times 9 + 8!$

34495 $:= 3!! \times (4!+4!) - \left\langle \left(\sqrt{9}\right)! \parallel 5\right\rangle$

34496 $:= -\langle 3! \parallel 4\rangle + 4! \times \left(\left(\sqrt{9}\right)!! + 6!\right)$

34624 $:= \langle 3! \parallel 4\rangle + 6! \times 2 \times 4!$

34702 $:= (3!! \times 4! + \langle 7 \parallel 0!\rangle) \times 2$

34704 $:= 3! \times \langle 4! \parallel (7 \times 0)!\rangle \times 4!$

34937 $:= \left(3! + \left\langle 4 \parallel \sqrt{9}\right\rangle\right) \times (3!! - 7)$

34944 $:= \left(3! \times \left\langle 4! \parallel \sqrt{9}\right\rangle - \sqrt{4}\right) \times 4!$

34972 $:= 3+\left\langle \left(\sqrt{4} \times 9\right) \parallel 7\right\rangle^2$

35939 $:= -3+5+\left\langle \sqrt{9} \parallel 3\right\rangle^{\sqrt{9}}$

35964 $:= (3+5)! - \left(\left\langle \left(\sqrt{9}\right)! \parallel 6\right\rangle^{\sqrt{4}}\right)$

36567 $:= (-3+6!) \times \langle 5 \parallel (-6+7)\rangle$

37560 $:= 3! \times 7! + 5! \times \langle 6 \parallel 0!\rangle$

38073 $:= \langle (3+8) \parallel 0!\rangle \times 7^3$

38520 $:= 3!! + 8! - 5! \times \langle 2 \parallel 0!\rangle$

39050 $:= \left(3!! + \left\langle \left(\sqrt{9}\right)! \parallel 0!\right\rangle\right) \times 50$

39052 $:= \left(3!! + \left\langle \sqrt{9} \parallel 0!\right\rangle\right) \times 52$

39105 $:= (3!! - 9) \times \langle 1 \parallel 0!\rangle \times 5$

39204 $:= \left(3! \times \left(\left\langle \sqrt{9} \parallel 2\right\rangle + 0!\right)\right)^{\sqrt{4}}$

39228 $:= -3! \times \langle (9 \times 2) \parallel 2\rangle + 8!$

39284 $:= 3^9 \times 2 - \left\langle 8 \parallel \sqrt{4}\right\rangle$

39304 $:= \left(3^9 - \langle 3 \parallel 0!\rangle\right) \times \sqrt{4}$

39328 $:= -3!! - \langle (9 \times 3) \parallel 2 \rangle + 8!$
39378 $:= -3! \times \langle (9+3!) \parallel 7 \rangle + 8!$
39435 $:= \left(3!! - \sqrt{9}\right) \times \left\langle \left(\sqrt{4}+3\right) \parallel 5 \right\rangle$
39438 $:= -\langle (3 \times 9) \parallel 4! \rangle \times 3 + 8!$
39468 $:= -\left\langle 3 \parallel \sqrt{9} \right\rangle \times 4 - 6! + 8!$

39484 $:= -3!! - \left\langle 9 \parallel \sqrt{4} \right\rangle + 8! - 4!$
39498 $:= -\langle (3 \times 9) \parallel 4 \rangle \times \sqrt{9} + 8!$
39508 $:= -3!! - \left\langle 9 \parallel \sqrt{5-0!} \right\rangle + 8!$
39535 $:= -3!! + \left(\sqrt{9}+5\right)! - \langle 3! \parallel 5 \rangle$
39538 $:= -\left\langle 3! \parallel \sqrt{9-5} \right\rangle - 3!! + 8!$

39658 $:= \left\langle 3! \parallel \sqrt{9} \right\rangle - 6! - 5 + 8!$
39690 $:= \left\langle 3! \parallel \sqrt{9} \right\rangle \times (6! - 90)$
39738 $:= -\left\langle \left(3 \times \sqrt{9}\right) \parallel 7 \right\rangle \times 3! + 8!$
39768 $:= \left(-\left\langle 3! \parallel \sqrt{9} \right\rangle + 7! - 6\right) \times 8$
39786 $:= \left(-\left\langle 3! \parallel \left(\sqrt{9}\right)! \right\rangle + 7!\right) \times 8 - 6$
39789 $:= \left(-\left\langle 3! \parallel \left(\sqrt{9}\right)! \right\rangle + 7!\right) \times 8 - \sqrt{9}$

39792 $:= \left(-\left\langle 3! \parallel \left(\sqrt{9}\right)! \right\rangle + 7!\right) \times \left(\left(\sqrt{9}\right)! + 2\right)$

39879 $:= \left\langle 3! \parallel \sqrt{9} \right\rangle \times \left(-87 + \left(\sqrt{9}\right)!!\right)$
39894 $:= -\left\langle 3! \parallel \left(\sqrt{9}\right)! \right\rangle + 8! - \left(\sqrt{9}\right)!!/\sqrt{4}$
39918 $:= -3! \times \left(\left\langle \left(\sqrt{9}\right)! \parallel \left(\sqrt{9}\right)! \right\rangle + 1\right) + 8!$

39942 $:= -\left\langle 3! \parallel \sqrt{9} \right\rangle \times \left(\sqrt{9}\right)! + (4 \times 2)!$
39948 $:= -\left\langle \left(3 \times \sqrt{9}\right) \parallel \sqrt{9} \right\rangle \times 4 + 8!$
40058 $:= -\sqrt{4} \times (\langle 0! \parallel 0! \rangle + 5!) + 8!$
40068 $:= -(\langle 4 \parallel 0! \rangle + 0!) \times 6 + 8!$
40073 $:= -\langle 4! \parallel 0! \rangle + (0!+7)! - 3!$

40078 $:= -\langle 4! \parallel 0! \rangle - (0 \times 7)! + 8!$
40079 $:= -\langle 4! \parallel 0! \rangle + \left(\sqrt{0! + 7 \times 9}\right)!$
40098 $:= -\langle (4! - 0!) \parallel 0! \rangle + 9 + 8!$
40108 $:= -\left\langle \left\langle \sqrt{4} \parallel 0! \right\rangle \parallel 1 \right\rangle - 0! + 8!$
40109 $:= -\left\langle \left\langle \sqrt{4} \parallel 0! \right\rangle \parallel 1 \right\rangle + (-0! + 9)!$

40158 $:= -\langle 4 \parallel 0! \rangle - 1 - 5! + 8!$
40185 $:= -4 - \langle 0! \parallel 1 \rangle + 8! + 5!$
40238 $:= -\langle 4 \parallel 0! \rangle \times \sqrt{-2+3!} + 8!$
40247 $:= \langle 4! \parallel 0! \rangle \times \left\langle 2^4 \parallel 7 \right\rangle$
40279 $:= -\langle 4 \parallel 0! \rangle + (2+7)!/9$

40281 $:= -\langle 4 \parallel 0! \rangle + 2 + 8! \times 1$
40299 $:= -\left\langle \sqrt{4} \parallel (0 \times 2)! \right\rangle + 9!/9$
40340 $:= \left\langle \sqrt{4} \parallel 0! \right\rangle + \left(3! + \sqrt{4}\right)! - 0!$
40341 $:= \left\langle \sqrt{4} \parallel 0! \right\rangle + (3+4+1)!$
40353 $:= \left\langle \left(\sqrt{4}+0!\right) \parallel 3 \right\rangle + (5+3)!$

40358 $:= \langle 4 \parallel 03 \rangle - 5 + 8!$
40361 $:= \langle 4 \parallel 0! \rangle + (3+6-1)!$
40362 $:= \left\langle 4 \parallel \sqrt{0!+3} \right\rangle + (6+2)!$
40364 $:= \langle 4 \parallel 0! \rangle + 3 + \left(\sqrt{64}\right)!$
40368 $:= \left\langle \sqrt{4} \parallel 0! \right\rangle + \sqrt{3^6} + 8!$

40378 $:= \left\langle \sqrt{4} \parallel 0! \right\rangle + 37 + 8!$
40428 $:= \langle (4+0!) \parallel 4 \rangle \times 2 + 8!$
40448 $:= \left\langle \left(\sqrt{4}+0!\right) \parallel \sqrt{4} \right\rangle \times 4 + 8!$
40479 $:= \langle 4! \parallel 0! \rangle \times 4! \times 7 - 9$
40482 $:= \langle 4 \parallel 0! \rangle \times 4 + 8! - 2$

40485 $:= \langle 4 \parallel 0! \rangle + 4 + 8! + 5!$
40535 $:= \left\langle \left\langle \sqrt{4} \parallel 0! \right\rangle \parallel 5 \right\rangle + (3+5)!$
40538 $:= \left\langle \left\langle \sqrt{4} \parallel 0! \right\rangle \parallel 5+3 \right\rangle + 8!$
40564 $:= \langle 4! \parallel (-0!+5) \rangle + \left(\sqrt{64}\right)!$
40571 $:= \left\langle 4! \parallel \sqrt{0!+5!} \right\rangle + (7+1)!$

40578 $:= \left\langle 4! \parallel \sqrt{0!+5!} \right\rangle + 7 + 8!$
40588 $:= \left\langle \left\langle \sqrt{4} \parallel 0! \right\rangle + 5 \parallel 8 \right\rangle + 8!$
40648 $:= \langle 4 \parallel 0! \rangle \times \sqrt{64} + 8!$
40685 $:= \langle 4! \parallel (-0! + 6) \rangle + 8! + 5!$
40698 $:= \left\langle \sqrt{4} \parallel 0! \right\rangle \times 6 \times \sqrt{9} + 8!$

40783 $:= -\langle (4! + 0!) \parallel 7 \rangle + 8! + 3!!$
40948 $:= \left(\sqrt{4} + 0!\right)!! - \left\langle 9 \parallel \sqrt{4} \right\rangle + 8!$
40959 $:= \langle 4 \parallel 0! \rangle \times (-9 + 5!) \times 9$
40998 $:= -\left\langle 4 \parallel \sqrt{0! + \sqrt{9}} \right\rangle + \left(\sqrt{9}\right)!! + 8!$
40999 $:= -\langle 4 \parallel 0! \rangle + \left(\sqrt{9}\right)!! + 9!/9$

41248 $:= \langle (4! - 1) \parallel 2 \rangle \times 4 + 8!$
41283 $:= \langle 4! \parallel (1 + 2) \rangle + 8! + 3!!$
41286 $:= \langle 4! \parallel (1 + 2)! \rangle + 8! + 6!$
41328 $:= 4! \times \langle (1 + 3) \parallel 2 \rangle + 8!$
41493 $:= \left\langle \sqrt{4} \parallel 1 \right\rangle + 4!^{\sqrt{9}} \times 3$

41637 $:= \left\langle \sqrt{4} \parallel 1 \right\rangle + 6^{3!} - 7!$
41868 $:= \langle 4! \parallel 18 \rangle \times 6 + 8!$
41934 $:= \langle 4! \parallel 1 \rangle \times \left(-\left(\sqrt{9}\right)! + 3!!/4\right)$
41984 $:= \sqrt{(4 \times 1)^9} \times \left\langle 8 \parallel \sqrt{4} \right\rangle$
42088 $:= \langle (4! - 2) \parallel 0! \rangle \times 8 + 8!$

42498 $:= \langle 4! \parallel (-2 + 4) \rangle \times 9 + 8!$
43152 $:= (-4! + 3!!) \times \langle (1 + 5) \parallel 2 \rangle$
43248 $:= \langle (4 \times 3) \parallel 2 \rangle \times 4! + 8!$
43404 $:= 4! + 3!! \times \langle 4! \parallel 0! \rangle /4$
43533 $:= (-4! + 3!! - 5) \times \langle 3! \parallel 3 \rangle$

43555 $:= (\langle 4! \parallel 3 \rangle + 5!) \times 5! - 5$
43560 $:= (\langle 4! \parallel 3 \rangle + 5!) \times (6 - 0!)!$
43591 $:= -4! + (3!! - 5) \times \left\langle \left(\sqrt{9}\right)! \parallel 1 \right\rangle$
43896 $:= -4! + \langle 3! \parallel (-8 + 9) \rangle \times 6!$
43908 $:= -4 + 3!! \times \left\langle \left(\sqrt{9}\right)! \parallel 0! \right\rangle - 8$

43909 $:= -\sqrt{4} + 3!! \times \left\langle \left(\sqrt{9}\right)! \parallel 0! \right\rangle - 9$
43913 $:= -4 - 3 + \left\langle \left(\sqrt{9}\right)! \parallel 1 \right\rangle \times 3!!$
43914 $:= -4 + 3!! \times \left\langle \left(\sqrt{9}\right)! \parallel 1 \right\rangle - \sqrt{4}$
43915 $:= \left(\sqrt{4} \times 3\right)! \times \left\langle \left(\sqrt{9}\right)! \parallel 1 \right\rangle - 5$
43916 $:= -4 + \langle (-3 + 9) \parallel 1 \rangle \times 6!$

43917 $:= 4 + 3!! \times \left\langle \sqrt{9}! \parallel 1 \right\rangle - 7$
43918 $:= -\sqrt{4} + 3!! \times \left\langle \left(\sqrt{9}\right)! \parallel 1^8 \right\rangle$
43919 $:= \sqrt{4} + 3!! \times \left\langle \left(\sqrt{9}\right)! \parallel 1 \right\rangle - \sqrt{9}$
43920 $:= \left(\sqrt{4} \times 3\right)! \times \left\langle \left(\sqrt{9} \times 2\right) \parallel 0! \right\rangle$
43922 $:= \sqrt{4} + 3!! \times \left\langle \left(\sqrt{9}\right)! \parallel (2/2) \right\rangle$

43924 $:= 4 + 3!! \times \left\langle \left(\sqrt{9}\right)! \parallel \left(2/\sqrt{4}\right) \right\rangle$
43930 $:= 4 + 3! + \left(\sqrt{9}\right)!! \times \langle 3! \parallel 0! \rangle$
43944 $:= 4! + 3!! \times \left\langle \left(\sqrt{9}\right)! \parallel (4/4) \right\rangle$
44164 $:= \langle (4!/4) \parallel 1 \rangle \times (6! + 4)$
44392 $:= \left(-4 + \left(\sqrt{4} \times 3\right)!\right) \times \left\langle \left(\sqrt{9}\right)! \parallel 2 \right\rangle$

44394 $:= \sqrt{4} + (-4 + 3!!) \times \left\langle \left(\sqrt{9}\right)! \parallel \sqrt{4} \right\rangle$
44398 $:= -\left\langle 4! \parallel \sqrt{4} \right\rangle - 3!! + 9!/8$
44469 $:= \langle 4! \parallel 4 \rangle /4 \times (6! + 9)$
44590 $:= \sqrt{4} \times \langle 4! \parallel 5 \rangle \times \langle 9 \parallel 0! \rangle$
44632 $:= -4 - 4 + 6! \times \langle 3! \parallel 2 \rangle$

44634 $:= -4!/4 + 6! \times \left\langle 3! \parallel \sqrt{4} \right\rangle$
44636 $:= -4 + (-4 + \langle 6 \parallel 3! \rangle) \times 6!$
45336 $:= (-4 + 5! \times \langle 3! \parallel 3 \rangle) \times 6$
45479 $:= \left(-\sqrt{4} + 5^4\right) \times \left\langle 7 \parallel \sqrt{9} \right\rangle$
45664 $:= 4^5 + 6! \times \left\langle 6 \parallel \sqrt{4} \right\rangle$

45699 $:= 4! + (5+6!) \times \left\langle \left(\sqrt{9}\right)! \parallel \sqrt{9} \right\rangle$
45835 $:= -\langle 4! \parallel 5\rangle - 8! + 3!! \times 5!$
45909 $:= \left(\left(\sqrt{4}+5\right)! + \left\langle \left(\sqrt{9}\right)! \parallel 0! \right\rangle\right) \times 9$
46056 $:= -4! + \langle 6 \parallel (-0!+5)\rangle \times 6!$
46326 $:= \langle 4! \parallel 6\rangle + 3!! \times 2^6$

46344 $:= \sqrt{4^6} \times 3!! + \langle 4! \parallel 4!\rangle$
46670 $:= \left(\sqrt{4} - 6!\right) \times (6 - \langle 7 \parallel 0!\rangle)$
46763 $:= \langle (4+6) \parallel 7\rangle + 6^{3!}$
46902 $:= \langle 4! \parallel 6\rangle + \left(\sqrt{9}\right)!^{(0!+2)!}$
46930 $:= \left(\sqrt{4}+6!\right) \times \left\langle \left(\sqrt{9}\right)! \parallel (3!-0!) \right\rangle$

46944 $:= 4! + 6^{\left(\sqrt{9}\right)!} + \langle 4! \parallel 4!\rangle$
46954 $:= \left(\sqrt{4}+6!\right) \times \left\langle \left(\sqrt{9}\right)! \parallel 5 \right\rangle + 4!$
46968 $:= -4! + \left\langle 6 \parallel \left(\sqrt{9}\right)! \right\rangle \times (6! - 8)$
47424 $:= \langle 4! \parallel 7\rangle \times 4! \times 2 \times 4$
47488 $:= (\langle 4! \parallel 7\rangle \times 4! + 8) \times 8$

47496 $:= -4! + \left\langle (7-4)! \parallel \left(\sqrt{9}\right)! \right\rangle \times 6!$
49200 $:= \left\langle 4! \parallel \left(\sqrt{9}\right)! \right\rangle \times 200$
49236 $:= \left(4! + \left(\sqrt{9}\right)!! + 2\right) \times \langle 3! \parallel 6\rangle$
49248 $:= 4! \times 9 \times \left\langle \left\langle 2 \parallel \sqrt{4} \right\rangle \parallel 8 \right\rangle$
49704 $:= 4! - \left(\sqrt{9}\right)!! \times \left(-\langle 7 \parallel 0!\rangle + \sqrt{4}\right)$

49790 $:= \left(4 + \left(\sqrt{9}\right)!\right) \times \left(7! - \left\langle \left(\sqrt{9}\right)! \parallel 0! \right\rangle\right)$
49923 $:= \left\langle (4 \times \sqrt{9}) \parallel 9 \right\rangle^2 \times 3$
49933 $:= \left(4 + \left\langle \sqrt{9} \parallel \sqrt{9} \right\rangle\right)^3 - 3!!$
51984 $:= (5! + \langle (1+9) \parallel 8\rangle)^{\sqrt{4}}$
53347 $:= -5 + 3!^3 \times \langle 4! \parallel 7\rangle$

53824 $:= \langle (5 \times 3 + 8) \parallel 2\rangle^{\sqrt{4}}$
54294 $:= 5 + (\langle 4! \parallel 2\rangle - 9)^{\sqrt{4}}$
54590 $:= -5 \times \left(\sqrt{4} - 5! \times \langle 9 \parallel 0!\rangle\right)$
54739 $:= -5 + 4! + \langle 7 \parallel 3!\rangle \times \left(\sqrt{9}\right)!!$
55080 $:= 5! \times \langle 5 \parallel 0!\rangle \times (8+0!)$

58035 $:= 5! + \langle 8 \parallel 0!\rangle \times (3!! - 5)$
58320 $:= (-5+8)!! \times \langle (3!+2) \parallel 0!\rangle$
58444 $:= -5! + \left\langle (8-4)! \parallel \sqrt{4} \right\rangle^{\sqrt{4}}$
58920 $:= 5! \times \left(8^{\sqrt{9}} - \langle 2 \parallel 0!\rangle\right)$
58968 $:= \left(-5 + \left\langle 8 \parallel \left(\sqrt{9}\right)! \right\rangle\right) \times (6! + 8)$

59009 $:= \left(-5! + \sqrt{9^{\langle 0! \parallel 0!\rangle}}\right) / \sqrt{9}$
59045 $:= \langle (-5+9)! \parallel 0!\rangle \times \langle 4! \parallel 5\rangle$
59880 $:= 5! + \left(\sqrt{9}\right)!! \times \left\langle 8 \parallel \sqrt{8+0!} \right\rangle$
59926 $:= \left\langle \left(5+\sqrt{9}\right) \parallel \sqrt{9} \right\rangle \times (2+6!)$
60846 $:= (\langle 6 \parallel 0!\rangle + 8!/4) \times 6$

61832 $:= (6!-1) \times \langle 8 \parallel 3!\rangle - 2$
61834 $:= (6!-1) \times \left\langle 8 \parallel \left(3 \times \sqrt{4}\right) \right\rangle$
61920 $:= 6! \times \langle (-1+9) \parallel (2+0!)!\rangle$
62496 $:= \langle 6 \times 2 \parallel 4\rangle \times 9!/6!$
63084 $:= (6! + \langle 3 \parallel 0!\rangle) \times 84$

63360 $:= 6! \times (-3 + \langle (3+6) \parallel 0!\rangle)$
63888 $:= (6! + 3!) \times \left\langle 8 \parallel \sqrt{8 \times 8} \right\rangle$
64080 $:= 6! \times \left(-\sqrt{4} + \langle (0!+8) \parallel 0!\rangle\right)$
64729 $:= (6 + \langle 4! \parallel 7\rangle)^2 + \left(\sqrt{9}\right)!!$
64944 $:= \left\langle 6 \times 4 \parallel \left(\sqrt{9}\right)! \right\rangle \times \langle 4! \parallel 4!\rangle$

64980 $:= \left(6! + \sqrt{4}\right) \times (9 + \langle 8 \parallel 0!\rangle)$
66954 $:= -6 + 6! \times \left\langle 9 \parallel \sqrt{5+4} \right\rangle$
66996 $:= 6 \times 6 + \left\langle 9 \parallel \sqrt{9} \right\rangle \times 6!$
68085 $:= (6! + \langle 8 \parallel 0!\rangle) \times 85$
68400 $:= 6! \times (84 + \langle 0! \parallel 0!\rangle)$

69092 $:= \left(6! + \left\langle \sqrt{9} \parallel 0! \right\rangle\right) \times 92$

69336 $:= 6! \times \langle 9 \parallel 3! \rangle + \sqrt{3!^6}$

69408 $:= 6 \times \left(\sqrt{9}\right)! \times \langle 4! \parallel 0! \rangle \times 8$

69435 $:= \left(\left\langle 6 \parallel \sqrt{9} \right\rangle + 4!^3\right) \times 5$

69792 $:= \left(-6 + \sqrt{9^7}\right) \times \left\langle \sqrt{9} \parallel 2 \right\rangle$

71999 $:= 7! - 1 + \left(\sqrt{9}\right)!! \times \left\langle 9 \parallel \sqrt{9} \right\rangle$

72595 $:= (\langle (7+2) \parallel 5 \rangle + 9!)\ /5$

73435 $:= \left\langle (7+3) \parallel \sqrt{4} \right\rangle \times 3!! - 5$

73439 $:= (-7 + 3!!) \times \left\langle (4+3!) \parallel \sqrt{9} \right\rangle$

73464 $:= \left\langle (7+3) \parallel \sqrt{4} \right\rangle \times 6! + 4!$

74347 $:= 7 \times 43 \times \langle 4! \parallel 7 \rangle$

74949 $:= 7 \times \left\langle 4 \parallel \sqrt{9} \right\rangle \times \langle 4! \parallel 9 \rangle$

77448 $:= 7 \times (7! + \langle 4! \parallel 4! \rangle) + 8!$

79345 $:= 7 \times 9!/ \left\langle 3 \parallel \sqrt{4} \right\rangle - 5$

79524 $:= \langle 7 \times (9-5) \parallel 2 \rangle^{\sqrt{4}}$

79989 $:= -7 \times \left(\left\langle 9 \parallel \sqrt{9} \right\rangle + 8!\right) + 9!$

80482 $:= \left(- \langle 8 \parallel 0! \rangle + \sqrt{4} + 8!\right) \times 2$

80728 $:= \langle 8 \parallel 0! \rangle + 7 + 2 \times 8!$

80802 $:= (\langle 8 \parallel 0! \rangle + 8!) \times 02$

80804 $:= (\langle 8 \parallel 0! \rangle + 8! + 0!) \times \sqrt{4}$

80832 $:= (8! + \langle (0!+8) \parallel 3! \rangle) \times 2$

85344 $:= (-8 + 5!) \times \left(3!! + \left\langle 4 \parallel \sqrt{4} \right\rangle\right)$

86400 $:= (8! - 6!) \times 4!/ \langle 0! \parallel 0! \rangle$

89264 $:= \left(-8 + \left\langle \left(\sqrt{9}\right)! \parallel 2 \right\rangle \times 6!\right) \times \sqrt{4}$

89304 $:= 8 \times \sqrt{9} \times \langle 3! \parallel 0! \rangle^{\sqrt{4}}$

90659 $:= - \left\langle \left(\sqrt{9}\right)! \parallel 0! \right\rangle + 6! \times \left(5! + \left(\sqrt{9}\right)!\right)$

90741 $:= \left(- \left(\sqrt{9}\right)!! + 0! + 7!\right) \times \left\langle \sqrt{4} \parallel 1 \right\rangle$

90782 $:= \left(\left\langle \sqrt{9} \parallel 0! \right\rangle + 7! + 8!\right) \times 2$

90846 $:= \left(\left(\sqrt{9}\right)!! + 0!\right) \times \langle (8+4) \parallel 6 \rangle$

91295 $:= \left\langle \sqrt{9} \parallel 1 \right\rangle^2 \times 95$

92248 $:= \left\langle \left(\sqrt{9}\right)! \parallel 2 \right\rangle^2 \times 4! - 8$

93259 $:= \left(\sqrt{9}\right)!^{3!} \times 2 - \left\langle 5 \parallel \sqrt{9} \right\rangle$

93584 $:= \left(\left(\sqrt{9}\right)!! \times \langle 3! \parallel 5 \rangle - 8\right) \times \sqrt{4}$

93852 $:= (-9 + 3!!) \times \langle (8+5) \parallel 2 \rangle$

93955 $:= \left(\left(\sqrt{9}\right)!! + \left\langle 3! \parallel \sqrt{9} \right\rangle\right) \times 5! - 5$

93960 $:= \left(\left(\sqrt{9}\right)!! + \left\langle 3! \parallel \sqrt{9} \right\rangle\right) \times (6 - 0!)!$

93984 $:= \left\langle \sqrt{9} \parallel 3 \right\rangle \times \left(\left(\sqrt{9}\right)!! - 8\right) \times 4$

94080 $:= 9! \times \left\langle \sqrt{4} \parallel 0! \right\rangle / \langle 8 \parallel 0! \rangle$

94089 $:= 9 + \left\langle \sqrt{4} \parallel 0! \right\rangle \times 8!/9$

94320 $:= \left(\sqrt{9}\right)!! \times \left\langle \left(4 + 3^2\right) \parallel 0! \right\rangle$

96624 $:= \left\langle \left(\sqrt{9}\right)! \parallel 6 \right\rangle \times (6! \times 2 + 4!)$

96795 $:= \left(-\sqrt{9} + 6!\right) \times \left\langle 7 + \left(\sqrt{9}\right)! \parallel 5 \right\rangle$

97344 $:= \left(\sqrt{9} \times \langle (7+3) \parallel 4 \rangle\right)^{\sqrt{4}}$

97920 $:= \left(\sqrt{9}\right)!! \times \left\langle 7 + \left(\sqrt{9}\right)! \parallel (2+0!)! \right\rangle$

98404 $:= \sqrt{9} + 8! + \langle 4! \parallel 0! \rangle^{\sqrt{4}}$

99225 $:= \left\langle \left(\sqrt{9}\right)! \parallel \sqrt{9} \right\rangle^2 \times 25$

99360 $:= 9! - \left(\sqrt{9}\right)! \times 3!! \times \langle 6 \parallel 0! \rangle$

2.2.3 Reverse Order of Digits

Below are selfie numbers written in reverse order of digits. The numbers appearing in subsection [?] are written again except those given in subsection on sequential representations 2.1.

$\mathbf{147} := 7 \times \left\langle \sqrt{4} \parallel 1 \right\rangle$

$\mathbf{241} := -1 + \langle 4! \parallel 2 \rangle$

$\mathbf{244} := \left\langle 4! \parallel \sqrt{4^2} \right\rangle$

$\mathbf{264} := \langle 4! \parallel (6-2)! \rangle$

$\mathbf{396} := \left\langle 6 \parallel \left(\sqrt{9}\right)! \right\rangle \times 3!$

$\mathbf{0105} := 5 \times \langle (0!+1) \parallel 0! \rangle$

$\mathbf{0109} := \left(\left(\sqrt{9}\right)! - 0!\right)! - \langle 1 \parallel 0! \rangle$

$\mathbf{0122} := 2 \times \langle (2+1)! \parallel 0! \rangle$

$\mathbf{0124} := 4 \times \langle (2+1) \parallel 0! \rangle$

$\mathbf{0132} := 2 \times 3! \times \langle 1 \parallel 0! \rangle$

$\mathbf{0182} := 2 \times \langle (8+1) \parallel 0! \rangle$

$\mathbf{0183} := 3 \times \left\langle \left(\sqrt{8+1}\right)! \parallel 0! \right\rangle$

$\mathbf{0186} := 6 \times \left\langle \sqrt{8+1} \parallel 0! \right\rangle$

$\mathbf{0201} := \langle 10 \times 2 \parallel 0! \rangle$

$\mathbf{0217} := 7 \times \langle (1+2) \parallel 0! \rangle$

$\mathbf{0231} := \langle (-1 + (3!-2)!) \parallel 0! \rangle$

$\mathbf{0241} := \langle 1 \times 4! \parallel (2 \times 0)! \rangle$

$\mathbf{0243} := \langle (3! \times 4) \parallel 2 \rangle + 0!$

$\mathbf{0249} := \left(\sqrt{9}\right)! + \langle 4! \parallel 2 \rangle + 0!$

$\mathbf{0251} := \left\langle (1 \times 5^2) \parallel 0! \right\rangle$

$\mathbf{0261} := \left\langle \left(\sqrt{16}\right)! \parallel \langle 2 \parallel 0! \rangle \right)$

$\mathbf{0273} := 3 \times \langle (7+2) \parallel 0! \rangle$

$\mathbf{0279} := 9 \times \left\langle \sqrt{7+2} \parallel 0! \right\rangle$

$\mathbf{0287} := 7 \times \langle (8/2) \parallel 0! \rangle$

$\mathbf{0305} := \langle 5 \parallel 0! \rangle \times 3! - 0!$

$\mathbf{0306} := 6 \times \langle (-0! + 3!) \parallel 0! \rangle$

$\mathbf{0324} := 4 \times \left\langle 2^3 \parallel 0! \right\rangle$

$\mathbf{0328} := 8 \times \langle (-2+3!) \parallel 0! \rangle$

$\mathbf{0329} := \left(\sqrt{9}\right)!!/2 - \langle 3 \parallel 0! \rangle$

$\mathbf{0357} := 7 \times \langle 5 \parallel (3 \times 0)! \rangle$

$\mathbf{0362} := 2 \times \langle (6 \times 3) \parallel 0! \rangle$

$\mathbf{0364} := 4 \times \langle (6+3) \parallel 0! \rangle$

$\mathbf{0366} := 6 \times \langle 6 \parallel (3 \times 0)! \rangle$

$\mathbf{0375} := 5 \times (\langle 7 \parallel 3! \rangle - 0!)$

$\mathbf{0408} := 8 \times \langle (0!+4) \parallel 0! \rangle$

$\mathbf{0427} := 7 \times \langle (2+4) \parallel 0! \rangle$

$\mathbf{0451} := \sqrt{1+5!} \times \langle 4 \parallel 0! \rangle$

$\mathbf{0455} := 5 \times \langle (5+4) \parallel 0! \rangle$

$\mathbf{0459} := 9 \times \langle 5 \parallel (4 \times 0)! \rangle$

$\mathbf{0482} := 2 \times \langle (8-4)! \parallel 0! \rangle$

$\mathbf{0483} := 3 \times \left\langle \left(8 \times \sqrt{4}\right) \parallel 0! \right\rangle$

$\mathbf{0486} := 6 \times \langle 8 \parallel (4 \times 0)! \rangle$

$\mathbf{0488} := 8 \times \left\langle \left(8 - \sqrt{4}\right) \parallel 0! \right\rangle$

$\mathbf{0492} := 2 \times \left(\sqrt{9}\right)! \times \langle 4 \parallel 0! \rangle$

$\mathbf{0497} := 7 \times \left\langle \left(9 - \sqrt{4}\right) \parallel 0! \right\rangle$

$\mathbf{0498} := \left\langle 8 \parallel \sqrt{9} \right\rangle \times \left(\sqrt{4} + 0!\right)!$

$\mathbf{0504} := \left\langle \sqrt{4} \parallel 0! \right\rangle \times (5-0!)!$

$\mathbf{0546} := 6 \times \langle (4+5) \parallel 0! \rangle$

$\mathbf{0549} := 9 \times \left\langle \left(\sqrt{4+5}\right)! \parallel 0! \right\rangle$

$\mathbf{0589} := \left(\sqrt{9}\right)!! - \langle (8+5) \parallel 0! \rangle$

$\mathbf{0637} := 7 \times \langle (3+6) \parallel 0! \rangle$

0648 $:= 8 \times \left\langle \left(\sqrt{4}+6\right) \parallel 0! \right\rangle$

0659 $:= \left(\sqrt{9}\right)! \times 5! - \langle 6 \parallel 0! \rangle$

0709 $:= \left(\sqrt{9}\right)!! - \langle 0! \parallel (7 \times 0)! \rangle$

0742 $:= \left\langle 2 \parallel \sqrt{4} \right\rangle + (7-0!)!$

0783 $:= 3!! - 8 + \langle 7 \parallel 0! \rangle$

0791 $:= \left(\sqrt{1 \times 9}\right)!! + \langle 7 \parallel 0! \rangle$

0819 $:= 9 \times \langle (1+8) \parallel 0! \rangle$

0847 $:= 7 \times \langle (4+8) \parallel 0! \rangle$

0968 $:= 8 \times \left\langle \left(6 + \left(\sqrt{9}\right)!\right) \parallel 0! \right\rangle$

0987 $:= 7 \times \left\langle \left(8 + \left(\sqrt{9}\right)!\right) \parallel 0! \right\rangle$

1255 $:= 5 \times \left\langle 5^2 \parallel 1 \right\rangle$

1288 $:= 8 \times \langle (8 \times 2) \parallel 1 \rangle$

1342 $:= \left\langle 2 \parallel \sqrt{4} \right\rangle \times \langle 3! \parallel 1 \rangle$

1359 $:= 9 \times \langle (5 \times 3) \parallel 1 \rangle$

1403 $:= \langle 3! \parallel 0! \rangle \times (4! - 1)$

1438 $:= -8 + 3! \times \langle 4! \parallel 1 \rangle$

1449 $:= 9 \times \langle (4 \times 4) \parallel 1 \rangle$

1455 $:= 5 \times \langle (5 + 4!) \parallel 1 \rangle$

1494 $:= \langle 4! \parallel 9 \rangle \times (4-1)!$

1928 $:= 8 \times \left\langle \left(-2 + \left(\sqrt{9}\right)!\right)! \parallel 1 \right\rangle$

1944 $:= 4! \times \left\langle \left(4!/\sqrt{9}\right) \parallel 1 \right\rangle$

1952 $:= 2^5 \times \left\langle \left(\sqrt{9}\right)! \parallel 1 \right\rangle$

1984 $:= \langle 4! \parallel 8 \rangle \times (9-1)$

2809 $:= \left(\left\langle \left(\sqrt{9}\right)! \parallel 0! \right\rangle - 8\right)^2$

3024 $:= 4! \times \langle 2 \parallel 0! \rangle \times 3!$

3044 $:= 4 \times (\langle 4 \parallel 0! \rangle + 3!!)$

3509 $:= -\langle 9 \parallel 0! \rangle + 5 \times 3!!$

3955 $:= -5 + 5! \times \left\langle \sqrt{9} \parallel 3 \right\rangle$

4356 $:= \langle (6!/5!) \parallel 3! \rangle^{\sqrt{4}}$

4392 $:= \langle (2 \times 9) \parallel 3 \rangle \times 4!$

4794 $:= -\left\langle 4! \parallel \left(\sqrt{9}\right)! \right\rangle + \left(\sqrt{\sqrt{7^4}}\right)!$

4973 $:= -3 + 7! - \left\langle \left(\sqrt{9}\right)! \parallel 4 \right\rangle$

4974 $:= -\sqrt{4} + 7! - \left\langle \left(\sqrt{9}\right)! \parallel 4 \right\rangle$

4976 $:= 6! \times 7 - \left\langle \left(\sqrt{9}\right)! \parallel 4 \right\rangle$

4979 $:= \sqrt{9} + 7! - \left\langle \left(\sqrt{9}\right)! \parallel 4 \right\rangle$

5904 $:= \langle 4 \parallel 0! \rangle \times \left(\sqrt{9}\right)!!/5$

00123 $:= \langle (3! \times 2) \parallel 1 \rangle + 0! + 0!$

00124 $:= \sqrt{4} \times (\langle (2+1)! \parallel 0! \rangle + 0!)$

00129 $:= 9 \times 2 + \langle \langle 1 \parallel 0! \rangle \parallel 0! \rangle$

00132 $:= \langle (2 \times 3! + 1) \parallel 0! \rangle + 0!$

00138 $:= (8 + \langle 3! \parallel 1 \rangle) \times (0! + 0!)$

00142 $:= 2 \times \langle ((4-1)! + 0!) \parallel 0! \rangle$

00157 $:= 7 \times (5-1)! - \langle 0! \parallel 0! \rangle$

00159 $:= \left\langle \left(\sqrt{9} \times 5\right) \parallel 10 \right\rangle - 0!$

00162 $:= 2 \times \langle (6+1+0!) \parallel 0! \rangle$

00168 $:= (8+6) \times (\langle 1 \parallel 0! \rangle + 0!)$

00179 $:= \left(\sqrt{9}\right)!!/\left(-7 + \langle 1 \parallel 0! \rangle\right) - 0!$

00182 $:= \langle 2 \times (8+1) \parallel 0! \rangle + 0!$

00183 $:= 3 \times \langle (8-1-0!) \parallel 0! \rangle$

00189 $:= 9 \times \langle (-8+10) \parallel 0! \rangle$

00192 $:= \langle *2 \times 9 + 1) \parallel 0! \rangle + 0!$

00193 $:= 3! \times \left(\left\langle \sqrt{9} \parallel 1 \right\rangle + 0!\right) + 0!$

00198 $:= (8+9+1) \times \langle 0! \parallel 0! \rangle$

00213 $:= 3 \times \langle (1+2)! + 0! \parallel 0! \rangle$

00214 $:= \left\langle \left\langle \sqrt{4} \parallel 1 \right\rangle \parallel 2 \right\rangle + 0! + 0!$

00215 $:= 5 - 1 + \langle \langle 2 \parallel 0! \rangle \parallel 0! \rangle$

00218 $:= 8 - 1 + \langle \langle 2 \parallel 0! \rangle \parallel 0! \rangle$

00219 $:= 9 - 1 + \langle \langle 2 \parallel 0! \rangle \parallel 0! \rangle$

00231 $:= \langle (1 \times 3 + 20) \parallel 0! \rangle$

$$\mathbf{00234} := \langle 4! \parallel (3+2)\rangle - \langle 0! \parallel 0!\rangle$$
$$\mathbf{00247} := 7 + \langle 4! \parallel (2\times 0)!\rangle - 0!$$
$$\mathbf{00248} := 8 \times \left\langle \left(\sqrt{4} + (2\times 0)!\right) \parallel 0!\right\rangle$$

$$\mathbf{00249} := 9 + \langle 4! \parallel ((2\times 0)! - 0!)\rangle$$
$$\mathbf{00256} := 6 + \left\langle 5^2 \parallel 0!\right\rangle - 0!$$
$$\mathbf{00261} := \langle (1\times 6 + 20) \parallel 0!\rangle$$
$$\mathbf{00271} := \langle (1\times 7 + 20) \parallel 0!\rangle$$
$$\mathbf{00275} := 5 \times (7-2) \times \langle 0! \parallel 0!\rangle$$

$$\mathbf{00281} := \langle (1\times 8 + 20) \parallel 0!\rangle$$
$$\mathbf{00284} := 4 \times \langle (8 - (2\times 0)!) \parallel 0!\rangle$$
$$\mathbf{00291} := \langle (1\times 9 + 20) \parallel 0!\rangle$$
$$\mathbf{00297} := \sqrt{7 + \left(\sqrt{9}\right)!! + 2 \times \langle 0! \parallel 0!\rangle}$$
$$\mathbf{00312} := 2 \times 13!/\langle 0! \parallel 0!\rangle!$$
$$\mathbf{00315} := 5 \times (1 + \langle 3! \parallel (0! + 0!)\rangle)$$
$$\mathbf{00341} := (1 + 4! + 3!) \times \langle 0! \parallel 0!\rangle$$

$$\mathbf{00342} := 2 \times \langle (4! - 3! - 0!) \parallel 0!\rangle$$
$$\mathbf{00346} := 6!/\sqrt{4} - 3 - \langle 0! \parallel 0!\rangle$$
$$\mathbf{00349} := (9-4)! \times 3 - \langle 0! \parallel 0!\rangle$$
$$\mathbf{00369} := 9 \times \langle (6 - 3 + 0!) \parallel 0!\rangle$$

$$\mathbf{00372} := \left(\sqrt{2+7}\right)! \times (\langle 3! \parallel 0!\rangle + 0!)$$
$$\mathbf{00374} := (4! + 7 + 3) \times \langle 0! \parallel 0!\rangle$$
$$\mathbf{00394} := -\sqrt{4} + \left(\sqrt{9}\right)! \times 3! \times \langle 0! \parallel 0!\rangle$$
$$\mathbf{00395} := -5! + 9!/3!! + \langle 0! \parallel 0!\rangle$$
$$\mathbf{00396} := 6 \times (9-3) \times \langle 0! \parallel 0!\rangle$$

$$\mathbf{00421} := -1 + 2 \times \left\langle \left\langle \sqrt{4} \parallel 0!\right\rangle \parallel 0!\right\rangle$$
$$\mathbf{00426} := 6 \times \langle (2 + 4 + 0!) \parallel 0!\rangle$$
$$\mathbf{00437} := 7 \times \langle 3! \parallel 4\rangle - \langle 0! \parallel 0!\rangle$$
$$\mathbf{00452} := 2 \times (-5 + \langle (4! - 0!) \parallel 0!\rangle)$$
$$\mathbf{00453} := 3 \times \left(5! + \left\langle \left(\sqrt{4} + 0!\right) \parallel 0!\right\rangle\right)$$
$$\mathbf{00462} := 2 \times \langle (6\times 4 - 0!) \parallel 0!\rangle$$
$$\mathbf{00463} := -3! + 6! - \langle (4! + 0!) \parallel 0!\rangle$$

$$\mathbf{00468} := \sqrt{8^6} - 4 \times \langle 0! \parallel 0!\rangle$$
$$\mathbf{00469} := -9 + 6! - \langle 4! \parallel 0!\rangle - 0!$$
$$\mathbf{00473} := \left(-3! + \sqrt{7^4}\right) \times \langle 0! \parallel 0!\rangle$$
$$\mathbf{00476} := 6! + 7 - \langle (4! + 0!) \parallel 0!\rangle$$
$$\mathbf{00491} := \left(-1 + \left(\sqrt{9}\right)!\right)! \times 4 + \langle 0! \parallel 0!\rangle$$
$$\mathbf{00495} := 5 \times 9 \times \langle (4\times 0)! \parallel 0!\rangle$$

$$\mathbf{00498} := \left\langle 8 \parallel \sqrt{9}\right\rangle \times (4 + 0! + 0!)$$
$$\mathbf{00524} := 4!^2 - \langle 5 \parallel 0!\rangle - 0!$$
$$\mathbf{00528} := 8 \times (-2+5)! \times \langle 0! \parallel 0!\rangle$$
$$\mathbf{00539} := (9\times 3! - 5) \times \langle 0! \parallel 0!\rangle$$
$$\mathbf{00542} := 2 \times \langle (-4! + \langle 5 \parallel 0!\rangle) \parallel 0!\rangle$$

$$\mathbf{00543} := 3 \times \langle (4! - 5 - 0!) \parallel 0!\rangle$$
$$\mathbf{00567} := 7 \times \left\langle \sqrt{65 - 0!} \parallel 0!\right\rangle$$
$$\mathbf{00568} := 8 \times \langle (6 + (5\times 0)!) \parallel 0!\rangle$$
$$\mathbf{00573} := 3!! - 7 \times \left\langle \sqrt{5 - 0!} \parallel 0!\right\rangle$$

$$\mathbf{00579} := \left(\sqrt{9}\right)!! - \left\langle \left(7 \times \sqrt{5 - 0!}\right) \parallel 0!\right\rangle$$
$$\mathbf{00583} := (3! \times 8 + 5) \times \langle 0! \parallel 0!\rangle$$
$$\mathbf{00594} := (49 + 5) \times \langle 0! \parallel 0!\rangle$$
$$\mathbf{00627} := \left(-7 + 2^6\right) \times \langle 0! \parallel 0!\rangle$$
$$\mathbf{00634} := -4! + 3!! - \langle 6 \parallel 0!\rangle - 0!$$

$$\mathbf{00639} := 9 \times \langle (3! + (6\times 0)!) \parallel 0!\rangle$$
$$\mathbf{00653} := -\langle 3! \parallel 5\rangle + 6! - 0! - 0!$$
$$\mathbf{00654} := \left(\sqrt{4+5}\right)!! - 6 \times \langle 0! \parallel 0!\rangle$$
$$\mathbf{00658} := (8-5)!! - \langle 6 \parallel 0!\rangle - 0!$$
$$\mathbf{00684} := 4! + \sqrt{(8! - 6!) \times \langle 0! \parallel 0!\rangle}$$
$$\mathbf{00689} := \left(\sqrt{9}\right)!! - \langle (8 - 6 + 0!) \parallel 0!\rangle$$
$$\mathbf{00695} := -5 - 9 + 6! - \langle 0! \parallel 0!\rangle$$

$$\mathbf{00724} := (4+2)! - 7 + \langle 0! \parallel 0!\rangle$$
$$\mathbf{00731} := (13-7)! + \langle 0! \parallel 0!\rangle$$
$$\mathbf{00732} := 2 \times 3! \times \langle 7 - 0! \parallel 0!\rangle$$
$$\mathbf{00743} := 3 \times \langle 4! \parallel 7\rangle + 0! + 0!$$

00781 $:= \sqrt{1^8+7!} \times \langle 0! \parallel 0! \rangle$
00789 $:= \left(\sqrt{9}\right)!! + 8 + \langle (7-0!) \parallel 0! \rangle$
00791 $:= -1 + 9!/7! \times \langle 0! \parallel 0! \rangle$
00792 $:= (2+9) \times (\langle 7 \parallel 0! \rangle + 0!)$
00794 $:= \sqrt{4} + 9!/7! \times \langle 0! \parallel 0! \rangle$

00837 $:= 7!/3! + 8 - \langle 0! \parallel 0! \rangle$
00843 $:= 3 \times \langle (4 \times (8-0!)) \parallel 0! \rangle$
00846 $:= 6 \times \left\langle \left(\sqrt{4} \times (8-0!)\right) \parallel 0! \right\rangle$

00859 $:= \left(\sqrt{9}\right)!! + 5! + 8 + \langle 0! \parallel 0! \rangle$

00891 $:= 1 \times \sqrt{\sqrt{9^8}} \times \langle 0! \parallel 0! \rangle$
00892 $:= (2+9) \times \langle 8 \parallel 0! \rangle + 0!$
00917 $:= 7 \times \left(\left(-1 + \left(\sqrt{9}\right)!\right)! + \langle 0! \parallel 0! \rangle\right)$
00946 $:= \left\langle \sqrt{64} \parallel \left(\sqrt{9}\right)! \right) \times \langle 0! \parallel 0! \rangle$

00956 $:= 6! - 5 + \left\langle \left(\sqrt{9}+0!\right)! \parallel 0! \right\rangle$
00957 $:= 7!/5 - \left\langle \left(\left(\sqrt{9}\right)! - 0!\right) \parallel 0! \right\rangle$
00968 $:= (8 + 6!/9) \times \langle 0! \parallel 0! \rangle$
00984 $:= 4! \times \left\langle 8 - \sqrt{9} - 0! \parallel 0! \right\rangle$

01044 $:= 4 \times \langle (4! + 0! + 1) \parallel 0! \rangle$
01045 $:= (5! - 4! - 0!) \times \langle 1 \parallel 0! \rangle$
01048 $:= 8 \times \langle (4! - \langle 0! \parallel 1 \rangle) \parallel 0! \rangle$
01055 $:= 5 \times \left\langle \left\langle \sqrt{5-0!} \parallel 1 \right\rangle \parallel 0! \right\rangle$
01059 $:= 9 \times 5! - \langle (0!+1) \parallel 0! \rangle$

01069 $:= 9 \times (6-0!)! - \langle 1 \parallel 0! \rangle$
01089 $:= (98 + 0!) \times \langle 1 \parallel 0! \rangle$
01155 $:= 5 \times \langle ((5-1)! - 1) \parallel 0! \rangle$
01197 $:= 7 \times \left\langle \left(\left(\sqrt{9}\right)! + 11\right) \parallel 0! \right\rangle$
01205 $:= 5 \times \langle (0! + 2 + 1)! \parallel 0! \rangle$

01206 $:= 6 \times \langle (-0! + 21) \parallel 0! \rangle$
01224 $:= 4! \times \langle (2+2+1) \parallel 0! \rangle$
01229 $:= \left(\sqrt{9}\right)!! \times 2 - \langle 21 \parallel 0! \rangle$
01245 $:= 5 \times \langle 4! \parallel (-2 + \langle 1 \parallel 0! \rangle) \rangle$
01247 $:= 7!/4 - 2 - \langle 1 \parallel 0! \rangle$

01254 $:= (-4 + 5! - 2) \times \langle 1 \parallel 0! \rangle$
01298 $:= \left(\left(8 - \sqrt{9}\right)! - 2\right) \times \langle 1 \parallel 0! \rangle$
01302 $:= \langle 2 \parallel 0! \rangle \times (\langle 3! \parallel 1 \rangle + 0!)$

01337 $:= 7 \times \langle (3 \times 3! + 1) \parallel 0! \rangle$
01345 $:= -5! + 4! \times \langle 3! \parallel 1 \rangle + 0!$
01353 $:= (-3 + 5! + 3!) \times \langle 1 \parallel 0! \rangle$
01364 $:= (4! + 6!)\,/3! \times \langle 1 \parallel 0! \rangle$

01369 $:= \left(\sqrt{9}\right)!! + 6! - \langle (3! + 1) \parallel 0! \rangle$
01375 $:= (5 + 7! \times 3)\,/\,\langle 1 \parallel 0! \rangle$
01386 $:= 6 \times \langle (8 \times 3 - 1) \parallel 0! \rangle$
01397 $:= \left(7 + \left(\sqrt{9}\right)!!/3!\right) \times \langle 1 \parallel 0! \rangle$
01399 $:= \left(\sqrt{9}\right)!! + \left(\sqrt{9}\right)!! - \langle (3+1) \parallel 0! \rangle$

01407 $:= 7 \times \left\langle \left(-0! + \left\langle \sqrt{4}\right) \parallel 1 \right\rangle \parallel 0! \right\rangle$
01408 $:= (8 + (0! + 4)!) \times \langle 1 \parallel 0! \rangle$
01429 $:= \left(\sqrt{9} \times 2\right)! \times \sqrt{4} - \langle 1 \parallel 0! \rangle$
01431 $:= (1 + 3!!) \times \sqrt{4} - \langle 1 \parallel 0! \rangle$
01437 $:= (-7 + 3!!) \times \sqrt{4} + \langle 1 \parallel 0! \rangle$

01444 $:= \left(\left\langle 4 \parallel \sqrt{4} \right\rangle - 4\right)^{1+0!}$
01445 $:= \left(\sqrt{5+4}\right)! \times \langle 4! \parallel 1 \rangle - 0!$
01447 $:= (7-4)! \times \langle 4! \parallel 1 \rangle + 0!$
01448 $:= 8 \times \langle (4! - (4-1)!) \parallel 0! \rangle$
01451 $:= (1+5)! \times \sqrt{4} + \langle 1 \parallel 0! \rangle$

01452 $:= (-2+5)! \times (\langle 4! \parallel 1 \rangle + 0!)$
01463 $:= (3! + 6!) \times \sqrt{4} + \langle 1 \parallel 0! \rangle$
01469 $:= \sqrt{9^6 \times 4} + \langle 1 \parallel 0! \rangle$
01498 $:= -8 + \left(\sqrt{9}\right)! \times \langle (4! + 1) \parallel 0! \rangle$

01499 $:= \left(\sqrt{9}\right)! \times (9 + \langle 4! \parallel 1\rangle) - 0!$
01506 $:= 6 \times \langle (0! + (5-1)!) \parallel 0!\rangle$
01525 $:= 5^2 \times \langle (5+1) \parallel 0!\rangle$
01547 $:= 7 \times \left\langle \left(4! - \sqrt{5-1}\right) \parallel 0!\right\rangle$
01549 $:= (9+4) \times 5! - \langle 1 \parallel 0!\rangle$

01559 $:= \left\langle \left(\sqrt{9}\right)! \parallel 5\right\rangle \times (5-1)! - 0!$
01575 $:= 5 \times 7!/\left(5 + \langle 1 \parallel 0!\rangle\right)$
01584 $:= 4! \times (8-5)! \times \langle 1 \parallel 0!\rangle$
01595 $:= \langle 5+9 \parallel 5\rangle \times \langle 1 \parallel 0!\rangle$
01626 $:= 6 \times \langle (26+1) \parallel 0!\rangle$

01669 $:= 9!/\sqrt{6^6} - \langle 1 \parallel 0!\rangle$
01672 $:= 2 \times 76 \times \langle 1 \parallel 0!\rangle$
01688 $:= 8 \times \langle \langle (8-6) \parallel 1\rangle \parallel 0!\rangle$
01697 $:= 7!/\sqrt{9} + 6 + \langle 1 \parallel 0!\rangle$
01746 $:= 6 \times \langle (4 \times 7 + 1) \parallel 0!\rangle$

01749 $:= (-9 + 4! \times 7) \times \langle 1 \parallel 0!\rangle$
01757 $:= 7 \times \left\langle \sqrt{\sqrt{5^{(7+1)}}} \parallel 0!\right\rangle$
01848 $:= \left\langle \left(8 \times \sqrt{4}\right) \parallel 8\right\rangle \times \langle 1 \parallel 0!\rangle$
01879 $:= \sqrt{9} \times 7!/8 - \langle 1 \parallel 0!\rangle$
01897 $:= 7 \times \left\langle \sqrt{9 \times 81} \parallel 0!\right\rangle$

01899 $:= 9 \times \left\langle \left(\sqrt{9} \times (8-1)\right) \parallel 0!\right\rangle$
01923 $:= \langle 3! \parallel 2\rangle \times \left\langle \sqrt{9} \parallel 1\right\rangle + 0!$
01924 $:= \langle 4! \parallel 2\rangle + \left(\sqrt{9}\right)!! \times (1+0!)$
01933 $:= 3!^3 \times 9 - \langle 1 \parallel 0!\rangle$
01942 $:= -2 + 4! \times \langle (9-1) \parallel 0!\rangle$

01947 $:= (7 \times 4! + 9) \times \langle 1 \parallel 0!\rangle$
01955 $:= (5! - 5) \times \left(\left(\sqrt{9}\right)! + \langle 1 \parallel 0!\rangle\right)$
01967 $:= 7 \times \left\langle \sqrt{6! + 9} \parallel \langle 1 \parallel 0!\rangle\right\rangle$
01968 $:= 8 \times 6 \times \left\langle \left(\sqrt{9} + 1\right) \parallel 0!\right\rangle$
02037 $:= 7 \times \langle (\langle 3 \parallel 0!\rangle - 2) \parallel 0!\rangle$

02044 $:= -4 + \sqrt{4^{\langle 0! \parallel (2\times 0)!\rangle}}$
02099 $:= \sqrt{9} \times \left(\sqrt{9}\right)!! - \langle (0!+2)! \parallel 0!\rangle$
02149 $:= 9 \times \langle 4! \parallel 1\rangle - 20$
02184 $:= 4! \times \langle (8+1) \parallel (2 \times 0)!\rangle$
02196 $:= 6 \times \left(\sqrt{9}\right)! \times \langle (1+2)! \parallel 0!\rangle$

02248 $:= 8 \times \langle (4! + 2 + 2) \parallel 0!\rangle$
02255 $:= 55 \times \langle (2+2) \parallel 0!\rangle$
02259 $:= 9 \times \left\langle 5^2 \parallel (2 \times 0)!\right\rangle$
02283 $:= (3! \times 8)^2 - \langle 2 \parallel 0!\rangle$
02305 $:= (\langle 5 \parallel 0!\rangle - 3)^2 + 0!$

02346 $:= \left(\left\langle 6 \parallel \sqrt{4}\right\rangle + 3!!\right) \times (2+0!)$
02349 $:= 9 \times \langle (4 \times 3! + 2) \parallel 0!\rangle$
02352 $:= (-2 + 5! - 3!) \times \langle 2 \parallel 0!\rangle$
02379 $:= \left(\sqrt{9}\right)!! + 7!/3 - \langle 2 \parallel 0!\rangle$
02394 $:= ((-4+9)! - 3!) \times \langle 2 \parallel 0!\rangle$

02415 $:= (5! - 1 - 4) \times \langle 2 \parallel 0!\rangle$
02419 $:= (9+1) \times \langle 4! \parallel 2\rangle - 0!$
02436 $:= (6!/3! - 4) \times \langle 2 \parallel 0!\rangle$
02439 $:= 9 \times \langle (3+4!) \parallel (2 \times 0)!\rangle$
02445 $:= 5 \times (\langle 4! \parallel 4\rangle \times 2 + 0!)$

02454 $:= -4! + \left(5! - \sqrt{4}\right) \times \langle 2 \parallel 0!\rangle$
02495 $:= 5 \times \left(\left(\sqrt{9}\right)!! - \langle (4!-2) \parallel 0!\rangle\right)$
02499 $:= 9!/\left(\left(\sqrt{9}\right)! \times 4!\right\rangle - \langle 2 \parallel 0!\rangle$
02513 $:= -3! - 1 + 5! \times \langle 2 \parallel 0!\rangle$
02514 $:= -(4-1)! + 5! \times \langle 2 \parallel 0!\rangle$

02515 $:= -5 + 1 \times 5! \times \langle 2 \parallel 0!\rangle$
02532 $:= 2 \times 3! + 5! \times \langle 2 \parallel 0!\rangle$
02535 $:= 5 \times 3 + 5! \times \langle 2 \parallel 0!\rangle$
02541 $:= \left(1^4 + 5!\right) \times \langle 2 \parallel 0!\rangle$
02542 $:= \left\langle 2 \parallel \sqrt{4}\right\rangle + 5! \times \langle 2 \parallel 0!\rangle$

02545 $:= \sqrt{5^4} + 5! \times \langle 2 \parallel 0! \rangle$
02562 $:= \left(\sqrt{-2+6} + 5!\right) \times \langle 2 \parallel 0! \rangle$
02568 $:= 8 \times 6 + 5! \times \langle 2 \parallel 0! \rangle$
02583 $:= \left(\sqrt{\sqrt{\sqrt{3^8}} + 5!}\right) \times \langle 2 \parallel 0! \rangle$
02604 $:= (4 + (-0! + 6)!) \times \langle 2 \parallel 0! \rangle$

02646 $:= \left\langle \left(6 \times \sqrt{4}\right) \parallel 6 \right\rangle \times \langle 2 \parallel 0! \rangle$
02651 $:= \sqrt{1+5!} \times \langle (6-2)! \parallel 0! \rangle$
02667 $:= (7 + 6!/6) \times \langle 2 \parallel 0! \rangle$
02684 $:= -4 + 8!/\left(-6 + \langle 2 \parallel 0! \rangle\right)$
02859 $:= \left(\sqrt{9} \times 5!\right) \times 8 - \langle 2 \parallel 0! \rangle$

02892 $:= 2 \times \left(\sqrt{9}\right)! \times \langle (8/2)! \parallel 0! \rangle$
02904 $:= 4! \times \langle (0! + 9 + 2) \parallel 0! \rangle$
02943 $:= \left\langle 3 \parallel \sqrt{4} \right\rangle \times 92 - 0!$
02964 $:= 4 \times ((-6+9)!! + \langle 2 \parallel 0! \rangle)$
02968 $:= 8 \times \left(6 \times \left\langle \left(\sqrt{9}\right)! \parallel 2 \right\rangle - 0!\right)$

02995 $:= 5 \times \left(\left(\sqrt{9}\right)!! - \left\langle \left(\left(\sqrt{9}\right)! \times 2\right) \parallel 0! \right\rangle\right)$
03124 $:= 4 \times ((2+1)!! + \langle 3! \parallel 0! \rangle)$
03142 $:= -2 + 4! \times \langle 13 \parallel 0! \rangle$

03164 $:= 4 \times (6! + \langle (1+3!) \parallel 0! \rangle)$
03195 $:= 5 \times 9 \times \langle (1+3!) \parallel 0! \rangle$
03264 $:= \sqrt{4^6} \times \langle (2+3) \parallel 0! \rangle$
03294 $:= \left(4! + \sqrt{9}\right) \times 2 \times \langle 3! \parallel 0! \rangle$
03295 $:= 5 \times \left(-\left\langle \left(\sqrt{9}\right)! \parallel 2 \right\rangle + 3!! + 0!\right)$

03315 $:= 51 \times (\langle 3! \parallel 3! \rangle - 0!)$
03343 $:= 3!! + 43 \times \langle 3! \parallel 0! \rangle$
03355 $:= 55 \times \langle 3! \parallel (3 \times 0)! \rangle$
03384 $:= 4! \times \langle (8+3!) \parallel (3 \times 0)! \rangle$
03386 $:= 6! + \langle 8 \parallel 3! \rangle \times \langle 3 \parallel 0! \rangle$

03396 $:= 6 \times (9 \times \langle 3! \parallel 3 \rangle - 0!)$
03445 $:= 5 \times ((4!/4)! - \langle 3 \parallel 0! \rangle)$
03482 $:= 2 \times (8!/4! + \langle 3! \parallel 0! \rangle)$
03503 $:= \langle 3 \parallel 0! \rangle \times (5! - 3! - 0!)$
03509 $:= -\langle 9 \parallel 0! \rangle + 5! \times 30$

03552 $:= 2^5 \times \langle (5+3!) \parallel 0! \rangle$
03559 $:= -\left(\sqrt{9}\right)! + (5! - 5) \times \langle 3 \parallel 0! \rangle$
03595 $:= -5^{\sqrt{9}} + 5! \times \langle 3 \parallel 0! \rangle$
03624 $:= 4! \times \langle (2 \times 6 + 3) \parallel 0! \rangle$
03658 $:= (-8 + 5! + 6) \times \langle 3 \parallel 0! \rangle$

03661 $:= (-1+6) \times 6! + \langle 3! \parallel 0! \rangle$
03696 $:= 6! + 96 \times \langle 3 \parallel 0! \rangle$
03843 $:= \langle 3! \parallel (4!/8) \rangle \times \langle 3! \parallel 0! \rangle$
03864 $:= 4! \times \langle (6 \times 8/3) \parallel 0! \rangle$
03865 $:= 5 \times (6! - 8 + \langle 3! \parallel 0! \rangle)$

03904 $:= 4^{\sqrt{09}} \times \langle 3! \parallel 0! \rangle$
03905 $:= 5 \times \left(\left(\sqrt{09}\right)!! + \langle 3! \parallel 0! \rangle\right)$
03906 $:= \left((6-0!)! + \left(\sqrt{9}\right)!\right) \times \langle 3 \parallel 0! \rangle$
03945 $:= -5! + 4^{(\sqrt{9})!} - \langle 3 \parallel 0! \rangle$
03949 $:= \left(\sqrt{9}\right)!^4 \times \sqrt{9} + \langle 3! \parallel 0! \rangle$

03953 $:= -3! + 5! \times \left\langle \sqrt{9} \parallel 3 \right\rangle - 0!$
03954 $:= \left(\sqrt{4+5}\right)! \times \left(\left(\sqrt{9}\right)!! - \langle 3! \parallel 0! \rangle\right)$
03961 $:= (-1+6)! \times \left\langle \sqrt{9} \parallel 3 \right\rangle + 0!$
03963 $:= -3! + \left\langle 6 \parallel \sqrt{9} \right\rangle^{3-0!}$
03964 $:= 4 \times (6! + \langle (9 \times 3) \parallel 0! \rangle)$

03965 $:= (56+9) \times \langle 3! \parallel 0! \rangle$
03966 $:= -6! + 6 \times \left(\left(\sqrt{9}\right)!! + \langle 3! \parallel 0! \rangle\right)$
03968 $:= \left(8 + 6!/\left(\sqrt{9}\right)!\right) \times \langle 3 \parallel 0! \rangle$
03984 $:= 4! \times \left\langle 8 \parallel \sqrt{9} \right\rangle \times (3 - 0!)$
03999 $:= \left\langle \left(9 + \sqrt{9}\right) \parallel 9 \right\rangle \times \langle 3 \parallel 0! \rangle$

04059 $:= 9 \times \sqrt{5! + 0!} \times \langle 4 \parallel 0! \rangle$
04069 $:= \left(\sqrt{9}\right)! \times 6! - \langle (0! + 4!) \parallel 0! \rangle$
04079 $:= \left(\sqrt{9}\right)! \times (7 - 0!)! - \langle 4! \parallel 0! \rangle$
04159 $:= -\left(\sqrt{9}\right)!! + (5! - 1) \times \langle 4 \parallel 0! \rangle$
04163 $:= \langle (3 \times 6) \parallel 1 \rangle \times (4! - 0!)$

04179 $:= -\left(\sqrt{9}\right)!! + 7! - \langle 14 \parallel 0! \rangle$
04236 $:= \langle 6 \parallel 3! \rangle^2 - (4 + 0!)!$
04239 $:= \left(\sqrt{9}\right)! \times 3!! - \langle (2 \times 4) \parallel 0! \rangle$
04299 $:= \left(\sqrt{9}\right)! \times \left(\sqrt{9} \times 2\right)! - \left\langle \sqrt{4} \parallel 0! \right\rangle$
04333 $:= 3^{3!} \times 3! - \langle 4 \parallel 0! \rangle$

04337 $:= (7 - 3)^{3!} + \langle 4! \parallel 0! \rangle$
04338 $:= (8 \times 3 - 3!) \times \langle 4! \parallel 0! \rangle$
04353 $:= 3 \times (5 + 3! \times \langle 4! \parallel 0! \rangle)$
04373 $:= 3!^7 / \langle 3! \parallel 4 \rangle - 0!$
04386 $:= 6 \times (8 + 3 \times \langle 4! \parallel 0! \rangle)$

04389 $:= \left(\sqrt{9}\right)! \times (8 + 3!!) + \left\langle \sqrt{4} \parallel 0! \right\rangle$
04393 $:= \left\langle 3! \times \sqrt{9} \parallel 3 \right\rangle \times 4! + 0!$
04422 $:= 22 \times \langle (4! - 4) \parallel 0! \rangle$
04437 $:= 7! - 3 \times \langle (4! - 4) \parallel 0! \rangle$
04439 $:= 9!/3^4 - \langle 4 \parallel 0! \rangle$

04455 $:= 55 \times \langle (4 + 4) \parallel 0! \rangle$
04471 $:= 17 \times (\langle 4! \parallel 4! \rangle - 0!)$
04473 $:= (3 + 7!/4!) \times \left\langle \sqrt{4} \parallel 0! \right\rangle$
04494 $:= \left\langle 4! - \sqrt{9} \parallel 4 \right\rangle \times \left\langle \sqrt{4} \parallel 0! \right\rangle$
04579 $:= \left(\left(\sqrt{9 + 7}\right)! - 5\right) \times \langle 4! \parallel 0! \rangle$

04584 $:= (-4 + 8)! \times \langle (-5 + 4!) \parallel 0! \rangle$
04586 $:= -6 + (-8 + 5!) \times \langle 4 \parallel 0! \rangle$
04589 $:= -\sqrt{9} + (-8 + 5!) \times \langle 4 \parallel 0! \rangle$
04592 $:= \left(-2^{\sqrt{9}} + 5!\right) \times \langle 4 \parallel 0! \rangle$
04596 $:= 6 \times \left(\left(\sqrt{9}\right)!! + 5 + \langle 4 \parallel 0! \rangle\right)$

04599 $:= (99 + 5!) \times \left\langle \sqrt{4} \parallel 0! \right\rangle$
04623 $:= (\langle 3! \parallel 2 \rangle + 6)^{\sqrt{4}} - 0!$
04674 $:= \left(\left(-\sqrt{4} + 7\right)! - 6\right) \times \langle 4 \parallel 0! \rangle$
04693 $:= 3! \times \left(\left(\sqrt{9}\right)!! + \left\langle 6 \parallel \sqrt{4} \right\rangle\right) + 0!$
04709 $:= -90 + 7! - \langle 4! \parallel 0! \rangle$

04718 $:= -81 + 7! - \langle 4! \parallel 0! \rangle$
04727 $:= -72 + 7! - \langle 4! \parallel 0! \rangle$
04733 $:= (-\langle 3! \parallel 3! \rangle + 7! - \langle 4! \parallel 0! \rangle)$
04736 $:= -63 + 7! - \langle 4! \parallel 0! \rangle$
04754 $:= -45 + 7! - \langle 4! \parallel 0! \rangle$

04757 $:= -7!/5! + 7! - \langle 4! \parallel 0! \rangle$
04763 $:= -36 + 7! - \langle 4! \parallel 0! \rangle$
04767 $:= 7! - (6 + 7) \times \left\langle \sqrt{4} \parallel 0! \right\rangle$
04772 $:= -27 + 7! - \langle 4! \parallel 0! \rangle$
04781 $:= -18 + 7! - \langle 4! \parallel 0! \rangle$

04807 $:= 7! + 08 - \langle 4! \parallel 0! \rangle$
04824 $:= 4! \times \langle (2 \times 8 + 4) \parallel 0! \rangle$
04827 $:= 7! + 28 - \langle 4! \parallel 0! \rangle$
04836 $:= 6 \times \left(3!! + \left\langle 8 \parallel \left(\sqrt{4} + 0!\right)! \right\rangle\right)$
04837 $:= 7! + 38 - \langle 4! \parallel 0! \rangle$

04838 $:= \langle (8 + 3) \parallel 8 \rangle \times \langle 4 \parallel 0! \rangle$
04867 $:= 7! + 68 - \langle 4! \parallel 0! \rangle$
04871 $:= -1 + 7! - 8 \times \left\langle \sqrt{4} \parallel 0! \right\rangle$
04873 $:= -3! + 7! - \left\langle 8 \times \sqrt{4} \parallel 0! \right\rangle$
04874 $:= \sqrt{4} + 7! - 8 \times \left\langle \sqrt{4} \parallel 0! \right\rangle$

04877 $:= 7! + 78 - \langle 4! \parallel 0! \rangle$
04879 $:= \left(\sqrt{9}\right)!! \times 7 - \left\langle \left(8 \times \sqrt{4}\right) \parallel 0! \right\rangle$
04887 $:= 7! + 8 - \left\langle \left(8 \times \sqrt{4}\right) \parallel 0! \right\rangle$
04889 $:= \left(\left(\sqrt{9}\right)!! + 8!\right)/8 - \langle 4! \parallel 0! \rangle$
04909 $:= \left(\left(\sqrt{9}\right)! + 0!\right)! - \langle (9 + 4) \parallel 0! \rangle$

04917 $:= 7! - 1 \times \sqrt{9} \times \langle 4 \parallel 0! \rangle$
04919 $:= \left(\left(\sqrt{9}\right)! + 1\right)! - \left\langle \sqrt{9} \times 4 \parallel 0! \right\rangle$
04927 $:= 7! - \langle (2+9) \parallel 4 \rangle + 0!$
04929 $:= (9-2)! - \left\langle \left(9 + \sqrt{4}\right) \parallel 0! \right\rangle$
04935 $:= \left(-5 + 3!!/\sqrt{9}\right) \times \left\langle \sqrt{4} \parallel 0! \right\rangle$

04937 $:= 7! - \left\langle 3! \parallel \sqrt{9} \right\rangle - 40$
04961 $:= \left(1 + 6!/\left(\sqrt{9}\right)!\right) \times \langle 4 \parallel 0! \rangle$
04972 $:= -2 + 7! - \left\langle \left(\sqrt{9}\right)! \parallel \left(\sqrt{4} + 0!\right)! \right\rangle$
04987 $:= 7! - \left\langle \left(8 - \sqrt{9}\right) \parallel \sqrt{4} \right\rangle - 0!$

04995 $:= 5 \times 9 \times \left\langle \left(9 + \sqrt{4}\right) \parallel 0! \right\rangle$
04999 $:= \left(\left(\sqrt{9}\right)! + 9/9\right)! - \langle 4 \parallel 0! \rangle$
05009 $:= -\left\langle \sqrt{9} \parallel 0! \right\rangle + (0! + 5 + 0!)!$
05019 $:= \left(\left(\sqrt{9}\right)! + 1\right)! - \left\langle \sqrt{-0! + 5} \parallel 0! \right\rangle$
05027 $:= 7! - 2 - \langle 0! \parallel (5 \times 0)! \rangle$

05029 $:= (9-2)! - \langle 0! \parallel (5 \times 0)! \rangle$
05041 $:= (1 + \langle 4 \parallel 0! \rangle) \times 5! + 0!$
05042 $:= 2 \times \left(\left\langle \sqrt{4} \parallel 0! \right\rangle \times 5! + 0!\right)$
05061 $:= (1+6)! + \left\langle \sqrt{-0! + 5} \parallel 0! \right\rangle$
05081 $:= (-1+8)! + \langle (-0! + 5) \parallel 0! \rangle$

05091 $:= (-1 + 9 - 0!)! + \langle 5 \parallel 0! \rangle$
05092 $:= (-2+9)! + 0! + \langle 5 \parallel 0! \rangle$
05147 $:= 7! - 4 + \left\langle \sqrt{1 + 5!} \parallel 0! \right\rangle$
05191 $:= \left(1 + \left(\sqrt{9}\right)!\right)! + \langle 15 \parallel 0! \rangle$
05197 $:= \left(7! + \left(\sqrt{9}\right)!\right) + \langle 15 \parallel 0! \rangle$

05248 $:= \left\langle 8 \parallel \sqrt{4} \right\rangle \times 2^{5+0!}$
05291 $:= \left(1 + \left(\sqrt{9}\right)!\right)! + \langle 25 \parallel 0! \rangle$
05297 $:= 7! + \left(\sqrt{9}\right)! + \langle 25 \parallel 0! \rangle$
05329 $:= \langle 9 - 2 \parallel 3 \rangle^{\sqrt{5-0!}}$
05424 $:= 4! \times \left(\left\langle \left\langle 2 \parallel \sqrt{4} \right\rangle \parallel 5 \right\rangle + 0!\right)$

05466 $:= 6 \times (6! + \langle (4! - 5) \parallel 0! \rangle)$
05467 $:= 7 \times \left(6! + \left\langle \left(\sqrt{4+5}\right)! \parallel 0! \right\rangle\right)$
05522 $:= 22 \times \langle (5 \times 5) \parallel 0! \rangle$
05544 $:= 4! \times \langle (4! - 5/5) \parallel 0! \rangle$
05589 $:= \sqrt{\sqrt{9^8}} \times (5! - \langle 5 \parallel 0! \rangle)$

05709 $:= (9 - 0!)!/7 - \langle 5 \parallel 0! \rangle$
05784 $:= 4! \times \langle (8/(7-5))! \parallel 0! \rangle$
05793 $:= \left\langle 3 \parallel \sqrt{9} \right\rangle + 7! + (5 + 0!)!$
05803 $:= (3!! - 0!) \times 8 + \langle 5 \parallel 0! \rangle$
05819 $:= \left(\left(\sqrt{9}\right)!! + 1\right) \times 8 + \langle 5 \parallel 0! \rangle$

05843 $:= (3!! + 4) \times 8 + \langle 5 \parallel 0! \rangle$
05867 $:= (7 + 6!) \times 8 + \langle 5 \parallel 0! \rangle$
05895 $:= 5 \times 9 \times \langle (8+5) \parallel 0! \rangle$
05904 $:= \left\langle 4! \parallel \left(\sqrt{09}\right)! \right\rangle \times (5 - 0!)!$
05964 $:= 4 \times \left(6! + \left(\sqrt{9}\right)!! + \langle 5 \parallel 0! \rangle\right)$

05967 $:= (7+6) \times 9 \times \langle 5 \parallel 0! \rangle$
06239 $:= 9 \times 3!! - \langle (-2+6)! \parallel 0! \rangle$
06344 $:= \langle 4! \parallel 4 \rangle \times \left(\sqrt{3^6} - 0!\right)$
06393 $:= 3!! + 93 \times \langle 6 \parallel 0! \rangle$
06419 $:= 9 \times (-1+4)!! - \langle 6 \parallel 0! \rangle$

06439 $:= 9 \times 3!! - \langle 4 \parallel (6 \times 0)! \rangle$
06495 $:= -5 + 9^4 - \langle 6 \parallel 0! \rangle$
06497 $:= \left\langle 7 \parallel \left(\sqrt{9}\right)! \right\rangle^{\sqrt{4}} + 6! + 0!$
06539 $:= 9 \times 3!! + 5! - \langle 6 \parallel 0! \rangle$
06655 $:= 55 \times \langle (6+6) \parallel 0! \rangle$

06744 $:= 4! \times \langle (4 \times 7) \parallel (6 \times 0)! \rangle$
06832 $:= ((2+3)! - 8) \times \langle 6 \parallel 0! \rangle$
06952 $:= -2 + \left(5! - \left(\sqrt{9}\right)!\right) \times \langle 6 \parallel 0! \rangle$
06955 $:= -5 + 5! \times \left(-\sqrt{9} + \langle 6 \parallel 0! \rangle\right)$
06993 $:= \left\langle 3! \parallel \sqrt{9} \right\rangle \times (-9 + (6 - 0!)!)$

07299 $:= 9 \times \left(\left(\sqrt{9} \right)!! + \langle (2+7) \parallel 0! \rangle \right)$
07597 $:= \left(-7 - \left(\sqrt{9} \right)! + 5! \right) \times \langle 7 \parallel 0! \rangle$
07755 $:= 55 \times \langle (7+7) \parallel 0! \rangle$
07839 $:= 9 \times (3!! + \langle (8+7) \parallel 0! \rangle)$
07865 $:= (-5+6!) \times \langle (8-7) \parallel 0! \rangle$

07952 $:= \left(-2 + 5! - \left(\sqrt{9} \right)! \right) \times \langle 7 \parallel 0! \rangle$
07995 $:= -\left(5! + \sqrt{9} \right) \times \left(\left(\sqrt{9} \right)! - \langle 7 \parallel 0! \rangle \right)$
08019 $:= 9 \times \langle 1 \parallel 0! \rangle \times \langle 8 \parallel 0! \rangle$
08343 $:= \langle 3! + 4 \parallel 3 \rangle \times \langle 8 \parallel 0! \rangle$
08424 $:= (4! + 2) \times 4 \times \langle 8 \parallel 0! \rangle$

08439 $:= (9! - 3) \,/\, \left\langle 4 \parallel \sqrt{8+0!} \right\rangle$
08444 $:= 4 \times (\langle 4! \parallel 4! \rangle \times 8 - 0!)$
08694 $:= \left(\left\langle 4! \parallel \left(\sqrt{9} \right)! \right\rangle + 6! \right) \times (8+0!)$
08844 $:= 44 \times \sqrt{8! + \langle 8 \parallel 0! \rangle}$
08855 $:= 55 \times \langle (8+8) \parallel 0! \rangle$

08964 $:= 4 \times \left(6! \times \sqrt{9} + \langle 8 \parallel 0! \rangle \right)$
08974 $:= \sqrt{4} \times (7 + 9! / \langle 8 \parallel 0! \rangle)$
08991 $:= \left(\left(-1 + \left(\sqrt{9} \right)! \right)! - 9 \right) \times \langle 8 \parallel 0! \rangle$
09159 $:= (9+5!) \times \left\langle 1 + \left(\sqrt{9} \right)! \parallel 0! \right\rangle$
09168 $:= 8 \times 6 \times \langle 19 \parallel 0! \rangle$

09282 $:= \langle (2+8) \parallel 2 \rangle \times \langle 9 \parallel 0! \rangle$
09348 $:= -\left\langle 8 \parallel \sqrt{4} \right\rangle \times \left(3! - \left(\left(\sqrt{9} \right)! - 0! \right)! \right)$
09373 $:= \langle (3+7) \parallel 3 \rangle \times \langle 9 \parallel 0! \rangle$
09456 $:= 6! + (5! - 4!) \times \langle 9 \parallel 0! \rangle$
09464 $:= \langle (4+6) \parallel 4 \rangle \times \langle 9 \parallel 0! \rangle$

09555 $:= \langle (5+5) \parallel 5 \rangle \times \langle 9 \parallel 0! \rangle$
09646 $:= \langle (6+4) \parallel 6 \rangle \times \langle 9 \parallel 0! \rangle$
09664 $:= \sqrt{4^6} \times \langle (6+9) \parallel 0! \rangle$
09737 $:= \langle (7+3) \parallel 7 \rangle \times \langle 9 \parallel 0! \rangle$
09828 $:= \langle (8+2) \parallel 8 \rangle \times \langle 9 \parallel 0! \rangle$

09834 $:= -\langle 4! \parallel 3! \rangle + 8! / \left(\sqrt{9} + 0! \right)$
09919 $:= \langle (9+1) \parallel 9 \rangle \times \langle 9 \parallel 0! \rangle$
09955 $:= 55 \times \langle (9+9) \parallel 0! \rangle$
09966 $:= 66 \times \left\langle \left(\left(\sqrt{9} \right)! + 9 \right) \parallel 0! \right\rangle$
09984 $:= 4! \times 8 \times \left(-9 + \left\langle \left(\sqrt{9} \right)! \parallel 0! \right\rangle \right)$

09989 $:= \left(\sqrt{9} \right)!! \times \left(8 + \left(\sqrt{9} \right)! \right) - \langle 9 \parallel 0! \rangle$
10275 $:= 5 \times \left(7 + 2^{\langle 0! \parallel 1 \rangle} \right)$
10582 $:= (2 + 8 \times 5!) \times \langle 0! \parallel 1 \rangle$
10584 $:= 4! + 8 \times 5! \times \langle 0! \parallel 1 \rangle$
10593 $:= \left(3!! + \sqrt{9^5} \right) \times \langle 0! \parallel 1 \rangle$

10635 $:= 5 \times 3 \times (6! - \langle 0! \parallel 1 \rangle)$
10789 $:= \left(\sqrt{9} \right)!! \times 8 + (7! - \langle 0! \parallel 1 \rangle)$
10919 $:= \left(\left(\sqrt{9} \right)! - 1 \right)! \times \langle 9 \parallel 0! \rangle - 1$
10997 $:= \left(7 + 9! / \sqrt{9} \right) / \langle 0! \parallel 1 \rangle$
10998 $:= \left(8! + \left(\sqrt{9} \right)! \right) \times \sqrt{9} / \langle 0! \parallel 1 \rangle$

11025 $:= (5 \times \langle 2 \parallel 0! \rangle)^{1+1}$
11568 $:= 8 \times 6 \times \langle (5-1)! \parallel 1 \rangle$
12144 $:= 4!! / \langle (4 \times 1 - 2) \parallel 1 \rangle!$
12384 $:= 4! \times \langle 8 \parallel 3! \rangle \times (2+1)!$
13176 $:= \sqrt{6^{7-1}} \times \langle 3! \parallel 1 \rangle$

13255 $:= 55 \times \langle (-2+3!)! \parallel 1 \rangle$
13448 $:= \left\langle 8 \parallel \sqrt{4} \right\rangle^{\sqrt{4}} \times (3-1)$
14219 $:= \left(\left\langle \left(\sqrt{9} \right)! \parallel 1 \right\rangle - 2 \right) \times \langle 4! \parallel 1 \rangle$
14379 $:= \sqrt{9} \times (7! - 3! - \langle 4! \parallel 1 \rangle)$
14397 $:= 7! \times \sqrt{9} - 3 \times \langle 4! \parallel 1 \rangle$

14455 $:= -5 + 5! / \sqrt{4} \times \langle 4! \parallel 1 \rangle$
14616 $:= \left(6! - \left(\sqrt{16} \right)! \right) \times \left\langle \sqrt{4} \parallel 1 \right\rangle$
14647 $:= 7^4 \times 6 + \langle 4! \parallel 1 \rangle$
14679 $:= \left(-\sqrt{9} \times 7 + 6! \right) \times \left\langle \sqrt{4} \parallel 1 \right\rangle$
14873 $:= 3 \times \left(7! - \left\langle 8 \parallel \sqrt{4} \right\rangle \right) - 1$

14879 $:= \sqrt{9} \times 7! - \langle (8-4)! \parallel 1 \rangle$
14931 $:= (1 \times 3!! - 9) \times \left\langle \sqrt{4} \parallel 1 \right\rangle$
14942 $:= \left(-2 + 4^{\sqrt{9}}\right) \times \langle 4! \parallel 1 \rangle$
14992 $:= -2 + \left(\left(\sqrt{9}\right)!! - \left(\sqrt{9}\right)!\right) \times \left\langle \sqrt{4} \parallel 1 \right\rangle$
14994 $:= \left(\left(\sqrt{4 \times 9}\right)! - \left(\sqrt{9}\right)!\right) \times \left\langle \sqrt{4} \parallel 1 \right\rangle$

15079 $:= \sqrt{9} \times 7! - \langle (-0! + 5) \parallel 1 \rangle$
15096 $:= (6! - \langle 9 \parallel 0! \rangle) \times (5-1)!$
15144 $:= 4! + \left\langle \sqrt{4} \parallel 1 \right\rangle \times (5+1)!$
15162 $:= (2 + 6!) \times \left\langle \sqrt{-1+5} \parallel 1 \right\rangle$
15273 $:= 3 \times \left(7! + \left\langle \sqrt{25} \parallel 1 \right\rangle\right)$

15436 $:= 63 \times \langle 4! \parallel 5 \rangle + 1$
15477 $:= 77 \times \langle (4 \times 5) \parallel 1 \rangle$
15696 $:= \left(-\left\langle 6 \parallel \left(\sqrt{9}\right)! \right\rangle + 6!\right) \times (5-1)!$
15851 $:= (1 + 5!) \times (\langle 8 + 5 \parallel 1 \rangle)$
16104 $:= 4! \times \langle 0! \parallel 1 \rangle \times 61$

16446 $:= \left\langle 6 \parallel \sqrt{4} \right\rangle + 4^{6+1}$
16742 $:= \left\langle 2 \parallel \sqrt{4} \right\rangle \times 761$
16743 $:= -\langle 3! \parallel 4 \rangle + 7^{6+1}$
17249 $:= \left(\sqrt{9}\right)!! \times 4! - \left\langle \sqrt{2+7} \parallel 1 \right\rangle$
17324 $:= \langle 4! \parallel (-2 + 3!) \rangle \times 71$

17346 $:= 6! \times 4! + \langle 3! \parallel (7-1) \rangle$
18244 $:= \left\langle 4! \parallel \sqrt{4} \right\rangle^2 - 8! \times 1$
18264 $:= 4! \times \left(6! + \left\langle \sqrt{2 \times 8} \parallel 1 \right\rangle\right)$
18544 $:= \langle 4! \parallel 4 \rangle \times (-5 + 81)$
19344 $:= (-4! \times 4 + 3!!) \times \left\langle \sqrt{9} \parallel 1 \right\rangle$

19375 $:= 5^{7-3} \times \left\langle \sqrt{9} \parallel 1 \right\rangle$
19592 $:= \left(2^9 + 5!\right) \times \left\langle \sqrt{9} \parallel 1 \right\rangle$
19844 $:= \left\langle 4! \parallel \sqrt{4} \right\rangle \times \left(\left\langle 8 \parallel \sqrt{9} \right\rangle - 1\right)$
19924 $:= \langle 4! \parallel 2 \rangle + \left(\sqrt{9^9} - 1\right)$
19974 $:= 4 \times 7! - \left(\sqrt{9}\right)! \times \left\langle \sqrt{9} \parallel 1 \right\rangle$

20048 $:= 8!/\sqrt{4} - \langle \langle 0! \parallel 0! \rangle \parallel 2 \rangle$
20147 $:= 7! \times 4 - \langle 1 \parallel 0! \rangle - 2$
20909 $:= \left(\left(\sqrt{9}\right)!! + 0!\right) \times \left(\left\langle \sqrt{9} \parallel 0! \right\rangle - 2\right)$
22319 $:= \left\langle \sqrt{9} \parallel 1 \right\rangle \times 3!! - 2/2$
22338 $:= \left(8! + \langle 3! \parallel 3! \rangle^2\right)/2$

23266 $:= 6^6/2 - \langle 3! \parallel 2 \rangle$
23409 $:= \langle (-9 + (04)!) \parallel 3 \rangle^2$
23496 $:= \left\langle 6 \parallel \left(\sqrt{9}\right)! \right\rangle \times (-4 + 3!!/2)$
23593 $:= \left\langle 3 \parallel \sqrt{9} \right\rangle \times (-5 + 3!!) - 2$
23874 $:= -4^7 + 8! - \langle 3! \parallel 2 \rangle .$

23994 $:= \left\langle 4 \parallel \sqrt{9} \right\rangle \times 9 \times \langle 3! \parallel 2 \rangle$
24334 $:= 4^{3!} \times 3! - \langle 4! \parallel 2 \rangle$
24649 $:= \left(\left(\left\langle 9 \parallel \sqrt{4} \right\rangle - 6!\right)/4\right)^2$
24964 $:= (4 + \langle (6+9) \parallel 4 \rangle)^2$
26896 $:= (\langle (6+9) \parallel 8 \rangle + 6)^2$

27883 $:= -3! + \langle (8+8) \parallel 7 \rangle^2$
27889 $:= \left\langle \left(\sqrt{9} \times 8 - 8\right) \parallel 7 \right\rangle^2$
28644 $:= \left\langle 4 \parallel \sqrt{4} \right\rangle \times 682$
28764 $:= (-\langle 4! \parallel 6 \rangle + 7!) \times (8-2)$
29405 $:= (5! + 0!) \times \left\langle 4! \parallel \sqrt{9} \right\rangle + 2$

$$\mathbf{29524} := \langle 4! \parallel 2 \rangle \times \left(5! + \sqrt{\left(\sqrt{9}\right)! - 2}\right)$$
$$\mathbf{29748} := \left(-\left\langle 8 \parallel \sqrt{4}\right) + 7!\right\rangle \times \sqrt{9} \times 2$$
$$\mathbf{29789} := \left\langle \sqrt{9} \parallel (8-7) \right\rangle^{\sqrt{9}} - 2$$
$$\mathbf{29793} := \left\langle 3 \parallel -\left(\sqrt{9}\right)! + 7 \right\rangle^{\sqrt{9}} + 2$$
$$\mathbf{29808} := \langle 8 \parallel 0! \rangle \times \left(8 + \left(\sqrt{9}\right)!!/2\right)$$

$$\mathbf{29848} := \left\langle 8 \parallel \sqrt{4} \right\rangle \times \left(8 + \left(\sqrt{9}\right)!!\right) /2$$
$$\mathbf{29994} := -\left\langle 4! \parallel \left(\sqrt{9}\right)! \right\rangle + \left(\sqrt{9}\right)! \times (9-2)!$$
$$\mathbf{30172} := -2 + (7! - \langle 1 \parallel 0! \rangle) \times 3!$$
$$\mathbf{30174} := \sqrt{4} \times (7! - \langle 1 \parallel 0! \rangle) \times 3$$
$$\mathbf{30282} := \left\langle \sqrt{2 \times 8} \parallel 2 \right\rangle \times (0! + 3!!)$$

$$\mathbf{30378} := (-8 + 7! + \langle 3 \parallel 0! \rangle) \times 3!$$
$$\mathbf{30473} := 3! \times 7! + \langle (4! - 0!) \parallel 3 \rangle$$
$$\mathbf{30474} := \left(-\sqrt{4} + 7! + \langle 4 \parallel 0! \rangle\right) \times 3!$$
$$\mathbf{30476} := 6 \times 7! + \langle (4! - 0!) \parallel 3! \rangle$$
$$\mathbf{30478} := -8 + (7! + \langle 4 \parallel 0! \rangle) \times 3!$$

$$\mathbf{30504} := \langle 4 \parallel 0! \rangle \times ((5-0!)! + 3!!)$$
$$\mathbf{30606} := ((6+0!)! + \langle 6 \parallel 0! \rangle) \times 3!$$
$$\mathbf{30636} := (\langle 6 \parallel 3! \rangle + (6+0!)!) \times 3!$$
$$\mathbf{30879} := \left(\sqrt{9}\right)! \times 7! - \langle 8 \parallel 0! \rangle + 3!!$$
$$\mathbf{30897} := -7! + \left\langle \sqrt{9} \parallel \sqrt{8+0!} \right\rangle^3$$

$$\mathbf{31899} := \left\langle 9 \parallel \sqrt{9} \right\rangle \times (8-1)^3$$
$$\mathbf{32085} := 5 \times \langle 8 \parallel 0! \rangle^2 - 3!!$$
$$\mathbf{32448} := \left\langle \left(8 + \sqrt{4}\right) \parallel 4 \right\rangle^2 \times 3$$
$$\mathbf{32452} := (2 + 5!) \times \langle (4! + 2) \parallel 3! \rangle$$
$$\mathbf{33534} := \langle 4! \parallel 3 \rangle \times (5! + 3 \times 3!)$$

$$\mathbf{33768} := 8 \times 67 \times \langle 3! \parallel 3 \rangle$$
$$\mathbf{33924} := \left(\sqrt{4} + 2^9\right) \times \langle 3! \parallel 3! \rangle$$
$$\mathbf{34398} := 8! + 9 \times \left(\left\langle 3! \parallel \sqrt{4} \right\rangle - 3!!\right)$$
$$\mathbf{34484} := -4 + 8! - 4! \times \langle 4! \parallel 3 \rangle$$
$$\mathbf{34486} := \left(6! + \left\langle 8 \parallel \sqrt{4} \right\rangle\right) \times 43$$

$$\mathbf{34593} := \left(\left\langle 3! \parallel \left(\sqrt{9}\right)! \right\rangle + 5!\right)^{\sqrt{4}} - 3$$
$$\mathbf{34599} := \left(\left\langle \left(\sqrt{9}\right)! \parallel \left(\sqrt{9}\right)! \right\rangle + 5!\right)^{\sqrt{4}} + 3$$
$$\mathbf{34704} := \langle 4! \parallel (0 \times 7)! \rangle \times 4! \times 3!$$
$$\mathbf{35448} := 8! - 4! \times \langle (4 \times 5) \parallel 3 \rangle$$
$$\mathbf{35777} := 7 \times (7! + \langle 7 \parallel (-5 + 3!) \rangle)$$

$$\mathbf{35939} := \left\langle \sqrt{9} \parallel 3 \right\rangle^{\sqrt{9}} + 5 - 3$$
$$\mathbf{36432} := 23 \times 4! \times \langle 6 \parallel 3! \rangle$$
$$\mathbf{37044} := 4 \times \left\langle \sqrt{4} \parallel (0 \times 7)! \right\rangle^3$$
$$\mathbf{37297} := \left\langle 7 \parallel \sqrt{9} \right\rangle^2 \times 7 - 3!$$
$$\mathbf{37453} := 3!! \times \left\langle 5 \parallel \sqrt{4} \right\rangle + 7 + 3!$$

$$\mathbf{37536} := 6^3! - 5! \times \langle 7 \parallel 3! \rangle$$
$$\mathbf{37596} := \left(6! + \sqrt{9}\right) \times \left\langle 5 \parallel \sqrt{7-3} \right\rangle$$
$$\mathbf{38155} := -5 + \left\langle 5 \parallel \sqrt{1+8} \right\rangle \times 3!!$$
$$\mathbf{38428} := 8! - \left\langle 2 \parallel \sqrt{4} \right\rangle \times \langle 8 \parallel 3! \rangle$$
$$\mathbf{38634} := -\langle 4! \parallel 3! \rangle - 6! + 8! - 3!!$$

$$\mathbf{38966} := 6! \times 6 \times 9 + \langle 8 \parallel 3! \rangle$$
$$\mathbf{39105} := 5 \times \langle 0! \parallel 1 \rangle \times (-9 + 3!!)$$
$$\mathbf{39302} := -2 + \left(0! + \left\langle 3 \parallel \sqrt{9} \right\rangle\right)^3$$
$$\mathbf{39304} := (\langle 4 \parallel 03 \rangle - 9)^3$$
$$\mathbf{39375} := 5^{7-3} \times \left\langle \left(\sqrt{9}\right)! \parallel 3 \right\rangle$$

39468 $:= 8! - 6! - 4 \times \left\langle \sqrt{9} \parallel 3 \right\rangle$
39498 $:= 8! - \left\langle 9 \parallel \sqrt{4} \right\rangle \times 9 + 3!$
39509 $:= -\langle 9 \parallel 0! \rangle + \left(5 + \sqrt{9}\right)! - 3!!$
39658 $:= 8! - 5 + \left\langle 6 \parallel \sqrt{9} \right\rangle - 3!!$
39687 $:= 7!/8 \times \left\langle 6 \parallel \sqrt{9} \right\rangle - 3$

39688 $:= -8 + 8! - 6! + \langle 9 \parallel 3! \rangle$
39786 $:= -6 + 8 \times \left(7! - \left\langle \left(\sqrt{9}\right)! \parallel 3! \right\rangle\right)$
39789 $:= -\sqrt{9} + 8 \times \left(7! - \left\langle \left(\sqrt{9}\right)! \parallel 3! \right\rangle\right)$
39792 $:= 2^{\sqrt{9}} \times \left(7! - \left\langle \left(\sqrt{9}\right)! \parallel 3! \right\rangle\right)$
39828 $:= 8! - 2 \times \left\langle \left(8 \times \sqrt{9}\right) \parallel 3! \right\rangle$

39834 $:= \langle 4! \parallel 3 \rangle + 8! - 9^3$
39844 $:= \langle 4! \parallel 4 \rangle + 8! - (9 - 3)!$
39848 $:= 8! + \langle 4! \parallel 8 \rangle - (9 - 3)!$
39854 $:= \langle 4! \parallel 5 \rangle + 8! + 9 - 3!!$
39879 $:= \left(\sqrt{9} + 7!/8\right) \times \left\langle \left(\sqrt{9}\right)! \parallel 3 \right\rangle$

39918 $:= 8! - \left(1 + \left\langle \left(\sqrt{9}\right)! \parallel \left(\sqrt{9}\right)! \right\rangle\right) \times 3!$
39924 $:= (4 \times 2)! - \left\langle \left(\sqrt{9}\right)! \parallel \left(\sqrt{9}\right)! \right\rangle \times 3!$
39942 $:= (2 \times 4)! - \left\langle \left(\sqrt{9}\right)! \parallel \sqrt{9} \right\rangle \times 3!$
39948 $:= 8! - 4 \times \langle 9 \parallel (9/3) \rangle$
40058 $:= 8! - (5! + \langle 0! \parallel 0! \rangle) \times \sqrt{4}$

40078 $:= 8! - \left\langle (-7 + \langle 0! \parallel 0! \rangle)! \parallel \sqrt{4} \right\rangle$
40108 $:= 8! - \left\langle \langle (0! + 1) \parallel 0! \rangle \parallel \sqrt{4} \right\rangle$
40158 $:= 8! - \left\langle 5 + \langle 1 \parallel 0! \rangle \parallel \sqrt{4} \right\rangle$
40184 $:= -4! + 8! - \left\langle \langle 1 \parallel 0! \rangle \parallel \sqrt{4} \right\rangle$
40185 $:= -5! + 8! + \langle 1 \parallel 0! \rangle + 4$

40199 $:= 9!/9 - \langle 1 \parallel 0! \rangle^{\sqrt{4}}$
40208 $:= 8! - \left\langle \langle 0! \parallel (2 \times 0)! \rangle \parallel \sqrt{4} \right\rangle$
40238 $:= 8! - \left\langle (3! + 2) \parallel \sqrt{04} \right\rangle$
40258 $:= 8! - \left\langle (5 - 2)! \parallel \sqrt{04} \right\rangle$
40268 $:= 8! - \left\langle (6 - (2 \times 0)!) \parallel \sqrt{4} \right\rangle$

40353 $:= (3 + 5)! + \langle 3 \parallel 0! \rangle + \sqrt{4}$
40362 $:= (2 + 6)! + \left\langle (3 + 0!) \parallel \sqrt{4} \right\rangle$
40364 $:= \left(\sqrt{4} + 6\right)! + \langle (3 + 0!) \parallel 4 \rangle$
40378 $:= 8! - 7 + \langle 3! \parallel 0! \rangle + 4$
40381 $:= 1 \times 8! + \langle 3! \parallel (0 \times 4)! \rangle$

40384 $:= \sqrt{4} + 8! + \left\langle 3! \parallel \sqrt{04} \right\rangle$
40394 $:= \left(4!/\sqrt{9}\right)! + \langle (3! + 0!) \parallel 4 \rangle$
40401 $:= \left\langle \left(10 \times \sqrt{4}\right) \parallel 0! \right\rangle^{\sqrt{4}}$
40479 $:= -9 + 7 \times \langle 4! \parallel 0! \rangle \times 4!$
40524 $:= (4 \times 2)! + \langle 5 \parallel 0! \rangle \times 4$

40548 $:= 8! + 4! + \langle 5 \parallel 0! \rangle \times 4$
40564 $:= \left(\sqrt{4} + 6\right)! + \langle (5 - 0!)! \parallel 4 \rangle$
40698 $:= 8! + \left(\sqrt{9}\right)! \times \left(\langle 6 \parallel 0! \rangle + \sqrt{4}\right)$
40869 $:= \left(-\sqrt{9} + 6!\right) \times (\langle 8 \parallel 0! \rangle - 4!)$
40926 $:= (6! - 2) \times \left(\left\langle \left(\sqrt{9}\right)! \parallel 0! \right\rangle - 4\right)$

40938 $:= 8! + 3!! - \left\langle (9 + 0!) \parallel \sqrt{4} \right\rangle$
40978 $:= 8! + 7 \times \langle 9 \parallel 04 \rangle$
40983 $:= 3!! + 8! - \left\langle \left(\sqrt{9}\right)! \parallel 0! \right\rangle + 4$
40998 $:= 8! + \left(\sqrt{9}\right)!! - \left\langle \left(\sqrt{9} + 0!\right) \parallel \sqrt{4} \right\rangle$
42384 $:= 4! \times \langle 8 \parallel 3! \rangle + (2 \times 4)!$

$$\mathbf{43533} := \langle 3! \parallel 3\rangle \times (-5+3!!-4!)$$
$$\mathbf{43648} := (8-4!+6!) \times \left\langle 3! \parallel \sqrt{4}\right\rangle$$
$$\mathbf{43856} := 6! \times 5+8!-\langle 3! \parallel 4\rangle$$
$$\mathbf{43913} := \langle 3! \parallel 1\rangle \times \left(\sqrt{9}\right)!!-3-4$$
$$\mathbf{43919} := \left\langle \left(\sqrt{9}\right)! \parallel 1\right\rangle \times \left(\sqrt{9}\right)!!+3-4$$

$$\mathbf{44164} := \langle (4!-6) \parallel 1\rangle \times \langle 4! \parallel 4\rangle$$
$$\mathbf{44394} := \left(-4+\left(\sqrt{9}\right)!!\right) \times \left\langle 3! \parallel \sqrt{4}\right\rangle + \sqrt{4}$$
$$\mathbf{44398} := 8!+\left(\sqrt{9}\right)! \times 3!!-\left\langle 4! \parallel \sqrt{4}\right\rangle$$
$$\mathbf{44469} := \sqrt{9^6} \times \langle 4! \parallel 4\rangle /4$$
$$\mathbf{44528} := \left(8^2+5!\right) \times \left\langle 4! \parallel \sqrt{4}\right\rangle$$

$$\mathbf{44616} := 6! \times \left\langle (1\times 6) \parallel \sqrt{4}\right\rangle - 4!$$
$$\mathbf{44633} := -3+3!! \times \left\langle 6 \parallel \sqrt{4}\right\rangle - 4$$
$$\mathbf{44634} := -4+3!! \times \left\langle 6 \parallel \sqrt{4}\right\rangle - \sqrt{4}$$
$$\mathbf{44636} := 6! \times \langle 3! \parallel (6-4)\rangle - 4$$
$$\mathbf{44639} := \sqrt{9}+3!! \times \left\langle 6 \parallel \sqrt{4}\right\rangle - 4$$

$$\mathbf{44642} := (2+4)! \times \left\langle 6 \parallel \sqrt{4}\right\rangle + \sqrt{4}$$
$$\mathbf{44644} := (4!/4)! \times \left\langle 6 \parallel \sqrt{4}\right\rangle + 4$$
$$\mathbf{44646} := \left\langle 6 \parallel \sqrt{4}\right\rangle \times 6! + \sqrt{4}+4$$
$$\mathbf{44662} := -2+6! \times \left\langle 6 \parallel \sqrt{4}\right\rangle + 4!$$
$$\mathbf{44764} := \left(\sqrt{4}+6!\right) \times \left\langle (7-4)! \parallel \sqrt{4}\right\rangle$$

$$\mathbf{44918} := 8!+19 \times \left\langle 4! \parallel \sqrt{4}\right\rangle$$
$$\mathbf{44942} := -2+\left\langle \left(4!-\sqrt{9}\right) \parallel \sqrt{4}\right\rangle^{\sqrt{4}}$$
$$\mathbf{45308} := 8!+(0!+3!)!-\left\langle 5 \parallel \sqrt{4}\right\rangle$$
$$\mathbf{45696} := \left(6!-\left(\sqrt{9}\right)!\right) \times \langle (6!/5!) \parallel 4\rangle$$
$$\mathbf{45699} := \left\langle \left(\sqrt{9}\right)! \parallel \sqrt{9}\right\rangle \times (6!+5)+4!$$

$$\mathbf{46344} := \langle 4! \parallel 4!\rangle + 3!! \times 64$$
$$\mathbf{46384} := -\langle 4! \parallel 8\rangle + 3!^6 - 4!$$
$$\mathbf{46535} := -5+\langle 3! \parallel 5\rangle \times (6!-4)$$
$$\mathbf{46605} := -\langle 5 \parallel 0!\rangle + \sqrt{6^{(6\times\sqrt{4})}}$$
$$\mathbf{46619} := -\left\langle \left(\sqrt{9}\right)! \parallel 1\right\rangle + 6^6 + 4!$$

$$\mathbf{46693} := \left\langle 3 \parallel \sqrt{9}\right\rangle + 6^6 + 4$$
$$\mathbf{46944} := \langle 4! \parallel 4!\rangle + \left(\sqrt{9}\right)!^6 + 4!$$
$$\mathbf{46968} := (-8+6!) \times \left\langle \left(\sqrt{9}\right)! \parallel 6\right\rangle - 4!$$
$$\mathbf{46978} := 8! \times 7/\left(\sqrt{9}\right)! - \left\langle 6 \parallel \sqrt{4}\right\rangle$$
$$\mathbf{47089} := \left(\left\langle \sqrt{9} \parallel (8\times 0)!\right\rangle \times 7\right)^{\sqrt{4}}$$

$$\mathbf{47334} := (\langle 4! \parallel 3!\rangle + 3!!) \times \sqrt{7^4}$$
$$\mathbf{47424} := 4 \times 2 \times \langle 4! \parallel 7\rangle \times 4!$$
$$\mathbf{47448} := 8 \times 4! \times \langle 4! \parallel 7\rangle + 4!$$
$$\mathbf{47524} := (\langle (4!-2) \parallel 5\rangle - 7)^{\sqrt{4}}$$
$$\mathbf{49005} := 5 \times (\langle 0! \parallel 0!\rangle \times 9)^{\sqrt{4}}$$

$$\mathbf{49236} := \langle 6 \parallel 3!\rangle \times \left(2+\left(\sqrt{9}\right)!!+4!\right)$$
$$\mathbf{49675} := -5+7!+6! \times \left\langle \left(\sqrt{9}\right)! \parallel \sqrt{4}\right\rangle$$
$$\mathbf{49923} := 3 \times \left\langle \left(2\times\left(\sqrt{9}\right)!\right) \parallel 9\right\rangle^{\sqrt{4}}$$
$$\mathbf{50765} := (-5+6!) \times \langle 7 \parallel (0\times 5)!\rangle$$
$$\mathbf{50907} := \langle 7 \parallel 0!\rangle \times \left(-\sqrt{9}+(0!+5)!\right)$$

$$\mathbf{51479} := 9!/7-\langle 4! \parallel 1\rangle - 5!$$
$$\mathbf{53694} := (\langle 4! \parallel 9\rangle - 6!) \times (3!-5!)$$
$$\mathbf{54336} := 6^3! + \langle 3! \parallel 4\rangle \times 5!$$
$$\mathbf{57148} := 8!+\left\langle \sqrt{4} \parallel 1\right\rangle + 7^5$$
$$\mathbf{58444} := \left\langle 4! \parallel \sqrt{4}\right\rangle^{\sqrt{-4+8}} - 5!$$

59014 $:= -4! - \langle 1 \parallel 0! \rangle + 9^5$
59018 $:= -\left\langle \sqrt{8+1} \parallel 0! \right\rangle + 9^5$
59024 $:= -4 - \langle 2 \parallel 0! \rangle + 9^5$
59028 $:= -\left\langle \sqrt{8/2} \parallel 0! \right\rangle + 9^5$
59109 $:= \left\langle \left(\sqrt{9}\right)! \parallel 0! \right\rangle - 1 + 9^5$

59134 $:= 4! + \langle 3! \parallel 1 \rangle + 9^5$
59291 $:= \left\langle \left(1+\sqrt{9}\right)! \parallel 2 \right) + 9^5$
59294 $:= \left\langle 4! \parallel \sqrt{9} \right\rangle + 2 + 9^5$
59345 $:= \langle (5+4!) \parallel 3! \rangle + 9^5$
59433 $:= 3! \times \langle 3! \parallel 4 \rangle + 9^5$

59497 $:= 7 \times \left\langle \left(\sqrt{9}\right)! \parallel 4 \right\rangle + 9^5$
59938 $:= 8! + 3^9 - \left\langle \left(\sqrt{9}\right)! \parallel 5 \right\rangle$
60439 $:= 9!/3! - \langle 4 \parallel (0 \times 6)! \rangle$
62436 $:= (6! + 3!) \times \langle 4 \times 2 \parallel 6 \rangle$
62494 $:= \left(\left\langle 4! \parallel \left(\sqrt{9}\right)! \right\rangle + 4 \right)^2 - 6$

62638 $:= \langle 8 \parallel 3! \rangle \times 6! - 2 + 6!$
63888 $:= \left\langle 8 \parallel \sqrt{8 \times 8} \right\rangle \times (3! + 6!)$
64728 $:= \left\langle \sqrt{8^2} \parallel 7 \right\rangle \times (4! + 6!)$
64944 $:= 4! \times \left(\sqrt{4} + 9\right) \times \langle 4! \parallel 6 \rangle$
64984 $:= 4^8 - \left\langle 9 \parallel \sqrt{4} \right\rangle \times 6$

66898 $:= \left\langle 8 \parallel \sqrt{9} \right\rangle \times (86 + 6!)$
66954 $:= \left\langle 4 + 5 \parallel \sqrt{9} \right\rangle \times 6! - 6$
66996 $:= 6! \times \left\langle 9 \parallel \sqrt{9} \right\rangle + 6 \times 6$
68395 $:= -5 + \langle 9 \parallel (-3+8) \rangle \times 6!$
69399 $:= -9 + \langle 9 \parallel 3! \rangle \times \left(\sqrt{9} + 6!\right)$

69549 $:= \left(\left\langle 9 \parallel \left(\sqrt{4}\right) + 5 \right) \right\rangle \times \left(-\sqrt{9} + 6!\right)$
70682 $:= 2 \times (8! + \langle 6 \parallel 0! \rangle - 7!)$
71065 $:= 5^6 + \langle 0! \parallel 1 \rangle \times 7!$
71999 $:= \left(\sqrt{9}\right)!! \times \left\langle 9 \parallel \sqrt{9} \right\rangle - 1 + 7!$
73444 $:= \langle 4! \parallel 4 \rangle \times 43 \times 7$

74347 $:= 7 \times 43 \times \langle 4! \parallel 7 \rangle$
77448 $:= 8! + (\langle 4! \parallel 4! \rangle + 7!) \times 7$
79989 $:= 9! - \left(8! + \left\langle 9 \parallel \sqrt{9} \right\rangle\right) \times 7$
80472 $:= \left(2 \times 7! - \left\langle \sqrt{4} \parallel 0! \right\rangle\right) \times 8$
80529 $:= -9 + 2 \times (-\langle 5 \parallel 0! \rangle + 8!)$

80532 $:= 2 \times (-3 - \langle 5 \parallel 0! \rangle + 8!)$
80538 $:= (-8 + 3!) \times (\langle 5 \parallel 0! \rangle - 8!)$
80583 $:= -3! + 8! - \langle 5 \parallel 0! \rangle + 8!$
80589 $:= \sqrt{9} \times 8! - \langle 5 \parallel 0! \rangle - 8!$
80598 $:= 8! + 9 - \langle 5 \parallel 0! \rangle + 8!$

80662 $:= 2 \times (\langle (6/6) \parallel 0! \rangle + 8!)$
80682 $:= 2 \times (\langle (8-6) \parallel 0! \rangle + 8!)$
80698 $:= 8! - \sqrt{9} + \langle 6 \parallel 0! \rangle + 8!$
80728 $:= 8! \times 2 + \langle (7+0!) \parallel 8 \rangle$
80742 $:= 2 \times \left\langle \left(-\sqrt{4} + 7\right) \parallel 0! \right\rangle + 8!$

80762 $:= 2 \times (\langle 6 \parallel (7 \times 0)! \rangle + 8!)$
80782 $:= 2 \times (8! + \langle 7 \parallel (0 \times 8)! \rangle)$
80794 $:= \sqrt{4} \times \left(\left(\sqrt{9}\right)! + \langle 7 \parallel 0! \rangle + 8! \right)$
80804 $:= \sqrt{4} \times (0! + \langle 8 \parallel 0! \rangle + 8!)$
80842 $:= 2 \times \left(\left\langle \left(\sqrt{4} + 8\right) \parallel 0! \right\rangle + 8! \right)$

80883 $:= 3 \times (8! + \langle 8 \parallel 0! \rangle) - 8!$
80942 $:= 2 \times (\langle (4! - 9) \parallel 0! \rangle + 8!)$
80982 $:= 2 \times (\langle (8+9) \parallel 0! \rangle + 8!)$
85344 $:= \left(\left\langle 4 \parallel \sqrt{4} \right\rangle + 3!! \right) \times (5! - 8)$

87744 $:= (4! \times \langle 4! \parallel 7\rangle + 7!) \times 8$
90567 $:= (7! \times 6 - \langle 5 \parallel 0!\rangle) \times \sqrt{9}$
92364 $:= (-4 + 6!) \times \langle (3! \times 2) \parallel 9\rangle$
92493 $:= \left(3!! - \sqrt{9}\right) \times \langle (4!/2) \parallel 9\rangle$
93024 $:= \left(-\sqrt{4} + \langle 2 \parallel 0!\rangle\right)!/\,(3! + 9)!$
93504 $:= \left(-\langle 4 \parallel 0!\rangle + 5^{3!}\right) \times \left(\sqrt{9}\right)!$
93955 $:= -5 + 5! \times \left(\left(\sqrt{9}\right)!! + \left\langle 3! \parallel \sqrt{9}\right\rangle\right)$
94058 $:= \langle (8+5) \parallel 0!\rangle \times \left(-\sqrt{4} + \left(\sqrt{9}\right)!!\right)$
94794 $:= \left(4 \times \sqrt{9}\right)!/7! - \left\langle 4! \parallel \left(\sqrt{9}\right)!\right\rangle$
96624 $:= (4! + 2 \times 6!) \times \left\langle 6 \parallel \left(\sqrt{9}\right)!\right\rangle$
98404 $:= \langle 4! \parallel 0!\rangle^{\sqrt{4}} + 8! + \sqrt{9}$
99645 $:= 5 \times \left(\langle 4! \parallel 6\rangle + \sqrt{9^9}\right)$

3 Number Patterns

In 1966, Madachy [14] pp. 174-175, gave an idea of number patterns writing as:

$\mathbf{3^4} \times \mathbf{425} := 34425$
$\mathbf{3^4} \times \mathbf{4250} := 344250$
$\mathbf{3^4} \times \mathbf{42500} := 3442500$

$\mathbf{31^2} \times \mathbf{325} := 312325$
$\mathbf{31^2} \times \mathbf{3250} := 3123250$
$\mathbf{31^2} \times \mathbf{32500} := 31232500$

$\mathbf{73} \times \mathbf{9} \times \mathbf{42} := 73942$
$\mathbf{73} \times \mathbf{9} \times \mathbf{420} := 739420$
$\mathbf{73} \times \mathbf{9} \times \mathbf{4200} := 7394200$

Based on same idea as above, there are some concatenation-type selfie numbers, those can be extended in patterned form just multiplying successively by 10. See below examples:

305 $:= \langle 3! \parallel 0!\rangle \times 5$
3050 $:= \langle 3! \parallel 0!\rangle \times 50$
30500 $:= \langle 3! \parallel 0!\rangle \times 500$

396 $:= \left\langle 3! \parallel \left(\sqrt{9}\right)!\right\rangle \times 6$
3960 $:= \left\langle 3! \parallel \left(\sqrt{9}\right)!\right\rangle \times 60$
39600 $:= \left\langle 3! \parallel \left(\sqrt{9}\right)!\right\rangle \times 600$

492 $:= \left\langle 4! \parallel \left(\sqrt{9}\right)!\right\rangle \times 2$
4920 $:= \left\langle 4! \parallel \left(\sqrt{9}\right)!\right\rangle \times 20$
49200 $:= \left\langle 4! \parallel \left(\sqrt{9}\right)!\right\rangle \times 200$

1446 $:= \left(-1 + \left\langle 4! \parallel \sqrt{4}\right\rangle\right) \times 6$
14460 $:= \left(-1 + \left\langle 4! \parallel \sqrt{4}\right\rangle\right) \times 60$
144600 $:= \left(-1 + \left\langle 4! \parallel \sqrt{4}\right\rangle\right) \times 600$

1476 $:= (-1 + \langle 4! \parallel 7\rangle) \times 6$
14760 $:= (-1 + \langle 4! \parallel 7\rangle) \times 60$
147600 $:= (-1 + \langle 4! \parallel 7\rangle) \times 600$

1968 $:= \left\langle \left(1 + \sqrt{9}\right)! \parallel 6\right\rangle \times 8$
19680 $:= \left\langle \left(1 + \sqrt{9}\right)! \parallel 6\right\rangle \times 80$
196800 $:= \left\langle \left(1 + \sqrt{9}\right)! \parallel 6\right\rangle \times 800$

3905 $:= \left(3!! + \left\langle \left(\sqrt{9}\right)! \parallel 0!\right\rangle\right) \times 5$
39050 $:= \left(3!! + \left\langle \left(\sqrt{9}\right)! \parallel 0!\right\rangle\right) \times 50$
390500 $:= \left(3!! + \left\langle \left(\sqrt{9}\right)! \parallel 0!\right\rangle\right) \times 500$

10285 $:= \langle 1 \parallel 0!\rangle^2 \times 85$
102850 $:= \langle 1 \parallel 0!\rangle^2 \times 850$
1028500 $:= \langle 1 \parallel 0!\rangle^2 \times 8500$

10635 $:= (-\langle 1 \parallel 0!\rangle + 6!) \times 3 \times 5$
106350 $:= (-\langle 1 \parallel 0!\rangle + 6!) \times 3 \times 50$
1063500 $:= (-\langle 1 \parallel 0!\rangle + 6!) \times 3 \times 500$

$$\mathbf{10648} := \langle 1 \parallel 0! \rangle^{6/\sqrt{4}} \times 8$$
$$\mathbf{106480} := \langle 1 \parallel 0! \rangle^{6/\sqrt{4}} \times 80$$
$$\mathbf{1064800} := \langle 1 \parallel 0! \rangle^{6/\sqrt{4}} \times 800$$

$$\mathbf{14056} := \langle (1+4!) \parallel 0! \rangle \times 56$$
$$\mathbf{140560} := \langle (1+4!) \parallel 0! \rangle \times 560$$
$$\mathbf{1405600} := \langle (1+4!) \parallel 0! \rangle \times 5600$$

$$\mathbf{15129} := \langle (-1+5) \parallel 1 \rangle^2 \times 9$$
$$\mathbf{151290} := \langle (-1+5) \parallel 1 \rangle^2 \times 90$$
$$\mathbf{1512900} := \langle (-1+5) \parallel 1 \rangle^2 \times 900$$

$$\mathbf{19225} := \left(1 + \left\langle \left(\sqrt{9}\right)! \parallel 2 \right\rangle^2\right) \times 5$$
$$\mathbf{192250} := \left(1 + \left\langle \left(\sqrt{9}\right)! \parallel 2 \right\rangle^2\right) \times 50$$
$$\mathbf{1922500} := \left(1 + \left\langle \left(\sqrt{9}\right)! \parallel 2 \right\rangle^2\right) \times 500$$

$$\mathbf{25405} := ((2+5)! + \langle 4 \parallel 0! \rangle) \times 5$$
$$\mathbf{254050} := ((2+5)! + \langle 4 \parallel 0! \rangle) \times 50$$
$$\mathbf{2540500} := ((2+5)! + \langle 4 \parallel 0! \rangle) \times 500$$

$$\mathbf{25575} := (\langle (2+5) \parallel 5 \rangle + 7!) \times 5$$
$$\mathbf{255750} := (\langle (2+5) \parallel 5 \rangle + 7!) \times 50$$
$$\mathbf{2557500} := (\langle (2+5) \parallel 5 \rangle + 7!) \times 500$$

$$\mathbf{30576} := (\langle 3! \parallel 0! \rangle - 5 + 7!) \times 6$$
$$\mathbf{305760} := (\langle 3! \parallel 0! \rangle - 5 + 7!) \times 60$$
$$\mathbf{3057600} := (\langle 3! \parallel 0! \rangle - 5 + 7!) \times 600$$

$$\mathbf{30606} := ((3!+0!)! + \langle 6 \parallel 0! \rangle) \times 6$$
$$\mathbf{306060} := ((3!+0!)! + \langle 6 \parallel 0! \rangle) \times 60$$
$$\mathbf{3060600} := ((3!+0!)! + \langle 6 \parallel 0! \rangle) \times 600$$

$$\mathbf{30636} := ((3!+0!)! + \langle 6 \parallel 3! \rangle) \times 6$$
$$\mathbf{306360} := ((3!+0!)! + \langle 6 \parallel 3! \rangle) \times 60$$
$$\mathbf{3063600} := ((3!+0!)! + \langle 6 \parallel 3! \rangle) \times 600$$

$$\mathbf{30667} := (\langle 3! \parallel 0! \rangle + 6! \times 6) \times 7$$
$$\mathbf{306670} := (\langle 3! \parallel 0! \rangle + 6! \times 6) \times 70$$
$$\mathbf{3066700} := (\langle 3! \parallel 0! \rangle + 6! \times 6) \times 700$$

$$\mathbf{33044} := (3!! + \langle 3 \parallel 0! \rangle) \times 44$$
$$\mathbf{330440} := (3!! + \langle 3 \parallel 0! \rangle) \times 440$$
$$\mathbf{3304400} := (3!! + \langle 3 \parallel 0! \rangle) \times 4400$$

$$\mathbf{33124} := \langle (3 \times 3) \parallel 1 \rangle^2 \times 4$$
$$\mathbf{331240} := \langle (3 \times 3) \parallel 1 \rangle^2 \times 40$$
$$\mathbf{3312400} := \langle (3 \times 3) \parallel 1 \rangle^2 \times 400$$

$$\mathbf{33327} := (\langle 3! \parallel 3 \rangle + 3!)^2 \times 7$$
$$\mathbf{333270} := (\langle 3! \parallel 3 \rangle + 3!)^2 \times 70$$
$$\mathbf{3332700} := (\langle 3! \parallel 3 \rangle + 3!)^2 \times 700$$

$$\mathbf{39052} := \left(3!! + \left\langle \sqrt{9} \parallel 0! \right\rangle\right) \times 52$$
$$\mathbf{390520} := \left(3!! + \left\langle \sqrt{9} \parallel 0! \right\rangle\right) \times 520$$
$$\mathbf{3905200} := \left(3!! + \left\langle \sqrt{9} \parallel 0! \right\rangle\right) \times 5200$$

$$\mathbf{39105} := (3!! - 9) \times \langle 1 \parallel 0! \rangle \times 5$$
$$\mathbf{391050} := (3!! - 9) \times \langle 1 \parallel 0! \rangle \times 50$$
$$\mathbf{3910500} := (3!! - 9) \times \langle 1 \parallel 0! \rangle \times 500$$

$$\mathbf{39768} := \left(-\left\langle 3! \parallel \sqrt{9} \right\rangle + 7! - 6\right) \times 8$$
$$\mathbf{397680} := \left(-\left\langle 3! \parallel \sqrt{9} \right\rangle + 7! - 6\right) \times 80$$
$$\mathbf{3976800} := \left(-\left\langle 3! \parallel \sqrt{9} \right\rangle + 7! - 6\right) \times 800$$

$$\mathbf{40959} := \langle 4 \parallel 0! \rangle \times (-9 + 5!) \times 9$$
$$\mathbf{409590} := \langle 4 \parallel 0! \rangle \times (-9 + 5!) \times 90$$
$$\mathbf{4095900} := \langle 4 \parallel 0! \rangle \times (-9 + 5!) \times 900$$

$$\mathbf{45909} := \left(\left(\sqrt{4}+5\right)! + \left\langle \left(\sqrt{9}\right)! \parallel 0! \right\rangle\right) \times 9$$
$$\mathbf{459090} := \left(\left(\sqrt{4}+5\right)! + \left\langle \left(\sqrt{9}\right)! \parallel 0! \right\rangle\right) \times 90$$
$$\mathbf{4590900} := \left(\left(\sqrt{4}+5\right)! + \left\langle \left(\sqrt{9}\right)! \parallel 0! \right\rangle\right) \times 900$$

$$\mathbf{47424} := \langle 4! \parallel 7 \rangle \times 4! \times 2 \times 4$$
$$\mathbf{474240} := \langle 4! \parallel 7 \rangle \times 4! \times 2 \times 40$$
$$\mathbf{4742400} := \langle 4! \parallel 7 \rangle \times 4! \times 2 \times 400$$

$$\mathbf{47488} := (\langle 4! \parallel 7 \rangle \times 4! + 8) \times 8$$
$$\mathbf{474880} := (\langle 4! \parallel 7 \rangle \times 4! + 8) \times 80$$
$$\mathbf{4748800} := (\langle 4! \parallel 7 \rangle \times 4! + 8) \times 800$$

$$\mathbf{49923} := \left\langle (4 \times \sqrt{9}) \parallel 9 \right\rangle^2 \times 3$$
$$\mathbf{499230} := \left\langle (4 \times \sqrt{9}) \parallel 9 \right\rangle^2 \times 30$$
$$\mathbf{4992300} := \left\langle (4 \times \sqrt{9}) \parallel 9 \right\rangle^2 \times 300$$

$$\mathbf{60846} := (\langle 6 \parallel 0! \rangle + 8!/4) \times 6$$
$$\mathbf{608460} := (\langle 6 \parallel 0! \rangle + 8!/4) \times 60$$
$$\mathbf{6084600} := (\langle 6 \parallel 0! \rangle + 8!/4) \times 600$$

$$\mathbf{63084} := (6! + \langle 3 \parallel 0! \rangle) \times 84$$
$$\mathbf{630840} := (6! + \langle 3 \parallel 0! \rangle) \times 840$$
$$\mathbf{6308400} := (6! + \langle 3 \parallel 0! \rangle) \times 8400$$

$$\mathbf{68085} := (6! + \langle 8 \parallel 0! \rangle) \times 85$$
$$\mathbf{680850} := (6! + \langle 8 \parallel 0! \rangle) \times 850$$
$$\mathbf{6808500} := (6! + \langle 8 \parallel 0! \rangle) \times 8500$$

$$\mathbf{69092} := \left(6! + \left\langle \sqrt{9} \parallel 0! \right\rangle\right) \times 92$$
$$\mathbf{690920} := \left(6! + \left\langle \sqrt{9} \parallel 0! \right\rangle\right) \times 920$$
$$\mathbf{6909200} := \left(6! + \left\langle \sqrt{9} \parallel 0! \right\rangle\right) \times 9200$$

$$\mathbf{69408} := 6 \times \left(\sqrt{9}\right)! \times \langle 4! \parallel 0! \rangle \times 8$$
$$\mathbf{694080} := 6 \times \left(\sqrt{9}\right)! \times \langle 4! \parallel 0! \rangle \times 80$$
$$\mathbf{6940800} := 6 \times \left(\sqrt{9}\right)! \times \langle 4! \parallel 0! \rangle \times 800$$

$$\mathbf{69435} := \left(\left\langle 6 \parallel \sqrt{9} \right\rangle + 4!^3\right) \times 5$$
$$\mathbf{694350} := \left(\left\langle 6 \parallel \sqrt{9} \right\rangle + 4!^3\right) \times 50$$
$$\mathbf{6943500} := \left(\left\langle 6 \parallel \sqrt{9} \right\rangle + 4!^3\right) \times 500$$

$$\mathbf{80482} := \left(-\langle 8 \parallel 0! \rangle + \sqrt{4} + 8!\right) \times 2$$
$$\mathbf{804820} := \left(-\langle 8 \parallel 0! \rangle + \sqrt{4} + 8!\right) \times 20$$
$$\mathbf{8048200} := \left(-\langle 8 \parallel 0! \rangle + \sqrt{4} + 8!\right) \times 200$$

$$\mathbf{80802} := (\langle 8 \parallel 0! \rangle + 8!) \times 02$$
$$\mathbf{80802} := (\langle 8 \parallel 0! \rangle + 8!) \times 020$$
$$\mathbf{80802} := (\langle 8 \parallel 0! \rangle + 8!) \times 0200$$

$$\mathbf{80832} := (8! + \langle (0! + 8) \parallel 3! \rangle) \times 2$$
$$\mathbf{808320} := (8! + \langle (0! + 8) \parallel 3! \rangle) \times 20$$
$$\mathbf{8083200} := (8! + \langle (0! + 8) \parallel 3! \rangle) \times 200$$

$$\mathbf{90782} := \left(\left\langle \sqrt{9} \parallel 0! \right\rangle + 7! + 8!\right) \times 2$$
$$\mathbf{907820} := \left(\left\langle \sqrt{9} \parallel 0! \right\rangle + 7! + 8!\right) \times 20$$
$$\mathbf{9078200} := \left(\left\langle \sqrt{9} \parallel 0! \right\rangle + 7! + 8!\right) \times 200$$

$$\mathbf{91295} := \left\langle \sqrt{9} \parallel 1 \right\rangle^2 \times 95$$
$$\mathbf{912950} := \left\langle \sqrt{9} \parallel 1 \right\rangle^2 \times 950$$
$$\mathbf{9129500} := \left\langle \sqrt{9} \parallel 1 \right\rangle^2 \times 9500$$

$$\mathbf{99225} := \left\langle \left(\sqrt{9}\right)! \parallel \sqrt{9} \right\rangle^2 \times 25$$
$$\mathbf{992250} := \left\langle \left(\sqrt{9}\right)! \parallel \sqrt{9} \right\rangle^2 \times 250$$
$$\mathbf{9922500} := \left\langle \left(\sqrt{9}\right)! \parallel \sqrt{9} \right\rangle^2 \times 2500$$

4 Summary: Selfie Numbers

This section, we shall give some idea of selfie numbers calcuated in different situations. These are divided in subsection as below.

4.1 Factorial

This subsection brings **selfie numbers** with use of **factorial**. See below some examples:

$$145 = 1! + 4! + 5!$$
$$733 = 7 + 3!! + 3!$$
$$5177 = 5! + 17 + 7!.$$

$$363239 = 36 + 323 + 9!$$
$$363269 = 363 + 26 + 9!$$
$$403199 = 40319 + 9!.$$

$$1463 = -1! + 4! + 6! + 3!!.$$
$$10077 = -1! - 0! - 0! + 7! + 7!.$$
$$40585 = 4! + 0! + 5! + 8! + 5!.$$
$$80518 = 8! - 0! - 5! - 1! + 8!.$$
$$317489 = -3! - 1! - 7! - 4! - 8! + 9!.$$
$$352797 = -3! + 5 - 2! - 7! + 9! - 7!.$$
$$357592 = -3! - 5! - 7! - 5! + 9! - 2!.$$
$$357941 = 3! + 5! - 7! + 9! - 4! - 1!.$$

$$361469 = 3! - 6! - 1! + 4! - 6! + 9!.$$
$$364292 = 3!! + 6! - 4! - 2! + 9! - 2!.$$
$$397584 = -3!! + 9! - 7! + 5! + 8! + 4!.$$
$$398173 = 3! + 9! + 8! + 1! - 7! + 3!.$$
$$408937 = -4! + 0! + 8! + 9! + 3!! + 7!.$$
$$715799 = -7! - 1! + 5! - 7! + 9! + 9!.$$
$$720599 = -7! - 2! + 0! - 5! + 9! + 9!.$$

For details refer author's work [30, 31].

4.2 Factorial and Square-Root

Below are some examples with **factorial** and **square-root** written in both ways, i.e., in digit's order and its reverse

$$\mathbf{5040} := (5 + 0 + \sqrt{4})! + 0 = 0 + (\sqrt{4} + 0 + 5)!$$
$$\mathbf{5041} := (5 + 0 + \sqrt{4})! + 1 = 1 + (\sqrt{4} + 0 + 5)!$$
$$\mathbf{5042} := (5 + 0 + \sqrt{4})! + 2 = 2 + (\sqrt{4} + 0 + 5)!$$
$$\mathbf{5043} := (5 + 0 + \sqrt{4})! + 3 = 3 + (\sqrt{4} + 0 + 5)!$$
$$\mathbf{5044} := (5 + 0 + \sqrt{4})! + 4 = 4 + (\sqrt{4} + 0 + 5)!$$
$$\mathbf{5045} := (5 + 0 + \sqrt{4})! + 5 = 5 + (\sqrt{4} + 0 + 5)!$$
$$\mathbf{5046} := (5 + 0 + \sqrt{4})! + 6 = 6 + (\sqrt{4} + 0 + 5)!$$
$$\mathbf{5047} := (5 + 0 + \sqrt{4})! + 7 = 7 + (\sqrt{4} + 0 + 5)!$$
$$\mathbf{5048} := (5 + 0 + \sqrt{4})! + 8 = 8 + (\sqrt{4} + 0 + 5)!$$
$$\mathbf{5049} := (5 + 0 + \sqrt{4})! + 9 = 9 + (\sqrt{4} + 0 + 5)!$$

$$
\begin{aligned}
\mathbf{936} &:= (\sqrt{9})!^3 + 6! &&= 6! + (3!)^{\sqrt{9}} \\
\mathbf{1296} &:= \sqrt{(1+2)!^9/6} &&= 6^{(\sqrt{9}+2-1)} \\
\mathbf{2896} &:= 2 \times (8 + (\sqrt{9})!! + 6!) &&= (6! + (\sqrt{9})!! + 8) \times 2 \\
\mathbf{331779} &:= 3 + (31-7)^{\sqrt{7+9}} &&= \sqrt{9} + (7 \times 7 - 1)^3 \times 3 \\
\mathbf{342995} &:= (3^4 - 2 - 9)^{\sqrt{9}} - 5 &&= -5 + (-9 + 9^2 - \sqrt{4})^3 \\
\mathbf{759375} &:= (-7 + 59 - 37)^5 &&= (5+7+3)^{\sqrt{9}-5+7}. \\
\mathbf{759381} &:= 7 + (5 \times \sqrt{9})^{-3+8} - 1 &&= -1 + (8 \times 3 - 9)^5 + 7.
\end{aligned}
$$

The following examples are in digit's order and its reverse separately:

$$
\begin{aligned}
\mathbf{120} &:= ((1+2)! - 0!)! \\
\mathbf{127} &:= -1 + 2^7 \\
\mathbf{1673} &:= -1 - 6 + 7!/3 \\
\mathbf{1679} &:= 1 + (-6 + 7!)/\sqrt{9} \\
\mathbf{1680} &:= (1+6)!/\sqrt{8+0!} \\
\mathbf{38970} &:= -3!! + 8! - 9 \times 70 \\
\mathbf{38986} &:= -3 + 8! - \sqrt{(\sqrt{9}+8)^6} \\
\mathbf{40310} &:= (\sqrt{4^{03}})! - 10 \\
\mathbf{90894} &:= -(\sqrt{9})! + ((0!+8)! + (\sqrt{9})!!)/4 \\
\mathbf{91560} &:= ((\sqrt{9})! + 1)! + 5! \times (6! + 0!)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{25} &:= 5^2 \\
\mathbf{64} &:= \sqrt{4^6} \\
\mathbf{289} &:= (9+8)^2 \\
\mathbf{3894} &:= (\sqrt{4} + \sqrt{(\sqrt{9})!^8}) \times 3 \\
\mathbf{4957} &:= 7! - 59 - 4! \\
\mathbf{6992} &:= 2^9 + 9 \times 6! \\
\mathbf{26493} &:= (2+6)! - 4!^{\sqrt{9}} - 3 \\
\mathbf{30792} &:= 3! \times ((0+7)! + 92) \\
\mathbf{54476} &:= (5! + 4!^4 - 7!)/6 \\
\mathbf{75989} &:= \sqrt{9} \times (8 - (\sqrt{9})!!) + 5^7
\end{aligned}
$$

First column numbers are in **digit's order** and second columns are in **reverse order of digits**. For details refer author's work [18, 19, 20, 23, 24].

4.3 Fibonacci Sequence

Fibonacci sequence numbers are well known in literature. This sequence is defined as

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

Below are examples of **selfie numbers** by use of **Fibonacci sequence values**. This we have done in different situations, such as using $F(\cdot)$ and $F(F(\cdot))$ in separate works. See below examples:

$$
\begin{aligned}
\mathbf{834660} &:= (F(8 \times 3) \times F(4) + 6) \times 6 + 0 = 0 + 6 \times (6 + F(4) \times F(3 \times 8)) \\
\mathbf{834661} &:= (F(8 \times 3) \times F(4) + 6) \times 6 + 1 = 1 + 6 \times (6 + F(4) \times F(3 \times 8)) \\
\mathbf{834662} &:= (F(8 \times 3) \times F(4) + 6) \times 6 + 2 = 2 + 6 \times (6 + F(4) \times F(3 \times 8)) \\
\mathbf{834663} &:= (F(8 \times 3) \times F(4) + 6) \times 6 + 3 = 3 + 6 \times (6 + F(4) \times F(3 \times 8)) \\
\mathbf{834664} &:= (F(8 \times 3) \times F(4) + 6) \times 6 + 4 = 4 + 6 \times (6 + F(4) \times F(3 \times 8))
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{834665} &:= (F(8\times 3)\times F(4)+6)\times 6+5 = 5+6\times(6+F(4)\times F(3\times 8))\\
\mathbf{834666} &:= (F(8\times 3)\times F(4)+6)\times 6+6 = 6+6\times(6+F(4)\times F(3\times 8))\\
\mathbf{834667} &:= (F(8\times 3)\times F(4)+6)\times 6+7 = 7+6\times(6+F(4)\times F(3\times 8))\\
\mathbf{834668} &:= (F(8\times 3)\times F(4)+6)\times 6+8 = 8+6\times(6+F(4)\times F(3\times 8))\\
\mathbf{834669} &:= (F(8\times 3)\times F(4)+6)\times 6+9 = 9+6\times(6+F(4)\times F(3\times 8)).
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{21960} &:= 2\times 1\times(F(9)+F(F(F(6))))+0 = 0+(F(F(F(6)))+F(9))\times 1\times 2\\
\mathbf{21961} &:= 2\times 1\times(F(9)+F(F(F(6))))+1 = 1+(F(F(F(6)))+F(9))\times 1\times 2\\
\mathbf{21962} &:= 2\times 1\times(F(9)+F(F(F(6))))+2 = 2+(F(F(F(6)))+F(9))\times 1\times 2\\
\mathbf{21963} &:= 2\times 1\times(F(9)+F(F(F(6))))+3 = 3+(F(F(F(6)))+F(9))\times 1\times 2\\
\mathbf{21964} &:= 2\times 1\times(F(9)+F(F(F(6))))+4 = 4+(F(F(F(6)))+F(9))\times 1\times 2\\
\mathbf{21965} &:= 2\times 1\times(F(9)+F(F(F(6))))+5 = 5+(F(F(F(6)))+F(9))\times 1\times 2\\
\mathbf{21966} &:= 2\times 1\times(F(9)+F(F(F(6))))+6 = 6+(F(F(F(6)))+F(9))\times 1\times 2\\
\mathbf{21967} &:= 2\times 1\times(F(9)+F(F(F(6))))+7 = 7+(F(F(F(6)))+F(9))\times 1\times 2\\
\mathbf{21968} &:= 2\times 1\times(F(9)+F(F(F(6))))+8 = 8+(F(F(F(6)))+F(9))\times 1\times 2\\
\mathbf{21969} &:= 2\times 1\times(F(9)+F(F(F(6))))+9 = 9+(F(F(F(6)))+F(9))\times 1\times 2.
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{143} &:= -1+F(4\times 3) &&= F(3\times 4)-1\\
\mathbf{986} &:= F(9)\times(F(8)+F(6)) &&= (F(6)+F(8))\times F(9)\\
\mathbf{1178} &:= F(11)\times F(7)+F(8) &&= F(8)+F(7)\times F(11)\\
\mathbf{2585} &:= F(2)+F(5+8+5) &&= F(5+8+5)+F(2)\\
\mathbf{12819} &:= 1+F(2\times(8-1))\times F(9) &&= F(9)\times F((-1+8)\times 2)+1\\
\mathbf{24297} &:= F(2\times 4)\times F(2+9)\times F(7) &&= F(7)\times F(9+2)\times F(4\times 2)\\
\mathbf{39394} &:= -3+93+F(9)^{F(4)} &&= (-4+F(9))\times 3+F(9)^3\\
\mathbf{74997} &:= -7\times 4+F(9+9+7) &&= F(7+9+9)-4\times 7\\
\mathbf{87937} &:= -8+F(7)\times F(9\times 3-7) &&= F(7)\times F(3\times 9-7)-8\\
\mathbf{98703} &:= 9\times(F(8)+F(7\times 03)) &&= (F(3\times 07)+F(8))\times 9
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{34} &:= F(3\times F(4))\\
\mathbf{233} &:= F(F(-2+3\times 3))\\
\mathbf{630} &:= F(F(6))\times 30\\
\mathbf{1178} &:= F(11)\times F(7)+F(8)\\
\mathbf{2079} &:= (-2+F(F(07)))\times 9\\
\mathbf{4864} &:= F(F(4))^8\times(F(F(6))-F(F(4)))\\
\mathbf{8759} &:= -F(9-5)^7+F(F(8))\\
\mathbf{8849} &:= -9\times F(F(F(F(F(4)))-8))+F(F(8))\\
\mathbf{9349} &:= -F(F(9)/F(F(4)))+F(F(F(-3+9)))
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{36} &:= 6^{F(3)}\\
\mathbf{143} &:= F(3\times 4)-1\\
\mathbf{231} &:= F(13)-2\\
\mathbf{377} &:= F(-7+7\times 3)\\
\mathbf{986} &:= (F(6)+F(8))\times F(9)\\
\mathbf{1165} &:= 5\times F(F(6\times 1+1))\\
\mathbf{1596} &:= F(F(6)+9)-F(F(F(5-1)))\\
\mathbf{2592} &:= F(2\times 9)+F(5+F(2))\\
\mathbf{9756} &:= F(F(F(6)))-5\times 7\times F(9)
\end{aligned}
$$

First three blocks are in both ways. In the last block the first column values are in **digit's order** and the second columns values are in **reverse order of digits**. For more details see author's [27, 28, 29].

4.4 Triangular Numbers

Triangular numbers are very much famous in the literature of mathematics. The general formula to write these numbers is given by

$$T(n) = 1 + 2 + 3 + ... = \frac{n+1}{2} = C(n+1, 2)$$

The examples given in above subsections are with **factorial**, **square-root**, **Fibonacci sequence** numbers, etc. Still, one can have similar kind of results using **Triangular numbers**. See below some examples:

$$\begin{aligned}
\mathbf{1069} &:= T(10) - T(6) + T(T(9)) \\
\mathbf{1081} &:= T(1 + T(08 + 1)) \\
\mathbf{2887} &:= T(T(T(T(2)))) + T(T(8) + T(8)) + T(7) \\
\mathbf{4965} &:= T(-4 + 9) + T(-T(6) + T(T(5))) \\
\mathbf{4999} &:= 49 + T(99) \\
\mathbf{99545} &:= T(9) + T(9) \times T(T(T(5) - 4)) + 5 \\
\mathbf{99546} &:= T(9) + T(9) \times T(T(T(5) - 4)) + 6.
\end{aligned}$$

$$\begin{aligned}
\mathbf{874} &:= T(T(T(4))) - T(T(7) + 8) \\
\mathbf{0105} &:= 50 + T(10) \\
\mathbf{1155} &:= -T(T(5)) + T(51 - 1) \\
\mathbf{1224} &:= T(T(T(4)) - T(T(2))) - 2 + 1 \\
\mathbf{2418} &:= T(81) - T(42) \\
\mathbf{99632} &:= 2 + (3 + T(T(6) + T(9))) \times T(9) \\
\mathbf{99633} &:= 3 + (3 + T(T(6) + T(9))) \times T(9).
\end{aligned}$$

First column values are in **digit's order** and the second column values are in **reverse order of digits**. In consecutive sequential values we have:

$$\begin{aligned}
\mathbf{2210} &:= T(T(T(T(T(T(2))))/T(T(T(2))))) - 1 + 0 = 0 - 1 + T(T(T(T(T(T(2))))/T(T(T(2))))) \\
\mathbf{2211} &:= T(T(T(T(T(T(2))))/T(T(T(2))))) - 1 + 1 = 1 - 1 + T(T(T(T(T(T(2))))/T(T(T(2))))) \\
\mathbf{2212} &:= T(T(T(T(T(T(2))))/T(T(T(2))))) - 1 + 2 = 2 - 1 + T(T(T(T(T(T(2))))/T(T(T(2))))) \\
\mathbf{2213} &:= T(T(T(T(T(T(2))))/T(T(T(2))))) - 1 + 3 = 3 - 1 + T(T(T(T(T(T(2))))/T(T(T(2))))) \\
\mathbf{2214} &:= T(T(T(T(T(T(2))))/T(T(T(2))))) - 1 + 4 = 4 - 1 + T(T(T(T(T(T(2))))/T(T(T(2))))) \\
\mathbf{2215} &:= T(T(T(T(T(T(2))))/T(T(T(2))))) - 1 + 5 = 5 - 1 + T(T(T(T(T(T(2))))/T(T(T(2))))) \\
\mathbf{2216} &:= T(T(T(T(T(T(2))))/T(T(T(2))))) - 1 + 6 = 6 - 1 + T(T(T(T(T(T(2))))/T(T(T(2))))) \\
\mathbf{2217} &:= T(T(T(T(T(T(2))))/T(T(T(2))))) - 1 + 7 = 7 - 1 + T(T(T(T(T(T(2))))/T(T(T(2))))) \\
\mathbf{2218} &:= T(T(T(T(T(T(2))))/T(T(T(2))))) - 1 + 8 = 8 - 1 + T(T(T(T(T(T(2))))/T(T(T(2))))) \\
\mathbf{2219} &:= T(T(T(T(T(T(2))))/T(T(T(2))))) - 1 + 9 = 9 - 1 + T(T(T(T(T(T(2))))/T(T(T(2))))).
\end{aligned}$$

For more details see author's work [34]. Due to high quantity of numbers, we worked only up to 4 digits, i.e., from 1 to 9999.

4.5 Binomial Coefficients

Binomial coefficients are well known in literature. They are given by

$$C(m, r) = \frac{m!}{r! \times (m-r)!}, \ m \geq r \geq 0, \ m, r \in \mathbf{N}.$$

In above subsections, we gave examples of selfie numbers with **Fibonacci sequence**, **Triangular numbers**, etc. Still, one can have similar kind results using **binomial coefficients**. See below some examples written in **both ways**, **digit's order** and **reverse order of digits**:

$$\begin{aligned}
\mathbf{6435} &:= C(C(6,\ 4),\ 3+5) &&= C(5\times 3,\ \sqrt{4}+6)\\
\mathbf{15504} &:= C(15+5,\ 0!+4) &&= C(4\times 05,\ 5\times 1)\\
\mathbf{42504} &:= C(4!,\ \sqrt{2\times 50/4}) &&= C(4!,\ -05+24)\\
\mathbf{54264} &:= C(5+4^2,\ C(6,\ 4)) &&= C(4!-6/2,\ (\sqrt{4+5})!)\\
\mathbf{74613} &:= C(7\times 4-6,\ 1\times 3!) &&= C(3!+16,\ (-4+7)!).
\end{aligned}$$

$$\begin{aligned}
\mathbf{12650} &:= C(-1+26,\ 5-0!)\\
\mathbf{12870} &:= C(1\times 2\times 8,\ 7+0!)\\
\mathbf{14950} &:= C(-1+4!+\sqrt{9},\ 5-0!)\\
\mathbf{18564} &:= C(18,\ (5-6+4)!)\\
\mathbf{19448} &:= C(19-\sqrt{4},\ \sqrt{4}+8)\\
\mathbf{26334} &:= C(2+C(6,\ 3),\ 3+\sqrt{4})\\
\mathbf{43758} &:= C(4!-3!,\ 7-5+8)\\
\mathbf{53130} &:= C(5^{3-1},\ 3!-0!).
\end{aligned}$$

$$\begin{aligned}
\mathbf{28} &:= C(8,\ 2)\\
\mathbf{792} &:= C(2\times(\sqrt{9})!,\ 7)\\
\mathbf{924} &:= C(4!/2,\ (\sqrt{9})!)\\
\mathbf{2024} &:= C(4!,\ 2+(0\times 2)!)\\
\mathbf{4845} &:= C(5\times 4,\ 8-4)\\
\mathbf{00378} &:= C(C(8,\ \sqrt{7-3}),\ 0!+0!)\\
\mathbf{00792} &:= C(2\times(\sqrt{9})!,\ 7-0!-0!)\\
\mathbf{00924} &:= C(4!/2,\ \sqrt{9}\times(0!+0!)).
\end{aligned}$$

Consecutive sequential representations:

$$\begin{aligned}
\mathbf{25920} &:= (-2+5)!!\times C(9,2)+0\\
\mathbf{25921} &:= (-2+5)!!\times C(9,2)+1\\
\mathbf{25922} &:= (-2+5)!!\times C(9,2)+2\\
\mathbf{25923} &:= (-2+5)!!\times C(9,2)+3\\
\mathbf{25924} &:= (-2+5)!!\times C(9,2)+4\\
\mathbf{25925} &:= (-2+5)!!\times C(9,2)+5\\
\mathbf{25926} &:= (-2+5)!!\times C(9,2)+6\\
\mathbf{25927} &:= (-2+5)!!\times C(9,2)+7\\
\mathbf{25928} &:= (-2+5)!!\times C(9,2)+8\\
\mathbf{25929} &:= (-2+5)!!\times C(9,2)+9.
\end{aligned}$$

$$\begin{aligned}
\mathbf{98280} &:= 0+C(C(8,2),8-\sqrt{9})\\
\mathbf{98281} &:= 1+C(C(8,2),8-\sqrt{9})\\
\mathbf{98282} &:= 2+C(C(8,2),8-\sqrt{9})\\
\mathbf{98283} &:= 3+C(C(8,2),8-\sqrt{9})\\
\mathbf{98284} &:= 4+C(C(8,2),8-\sqrt{9})\\
\mathbf{98285} &:= 5+C(C(8,2),8-\sqrt{9})\\
\mathbf{98286} &:= 6+C(C(8,2),8-\sqrt{9})\\
\mathbf{98287} &:= 7+C(C(8,2),8-\sqrt{9})\\
\mathbf{98288} &:= 8+C(C(8,2),8-\sqrt{9})\\
\mathbf{98289} &:= 9+C(C(8,2),8-\sqrt{9}).
\end{aligned}$$

For more details refer author's work [32].

4.6 S-gonal numbers

The formula for **S-gonal numbers** is given by

$$\boldsymbol{P(n,s)} := \frac{n(n-1)(s-2)}{2}+n,\ \ s>2.$$

This subsection brings some examples of selfie numbrs using **S-gonal numbers**. These examples are in **digit's order** and in **reverse order of digits**:

$$\mathbf{4992} := P(4!, 9+9+2)$$
$$\mathbf{7744} := (P(7,7) - 4!)^{\sqrt{4}}$$
$$\mathbf{7896} := 7 \times P(8 \times \sqrt{9}, 6)$$
$$\mathbf{65485} := -P(6,5) + \sqrt{4} \times 8^5$$
$$\mathbf{65943} := P(6,5) \times ((\sqrt{9})!^4 - 3)$$
$$\mathbf{67977} := (6+7) \times (P(9,7) + 7!)$$
$$\mathbf{72495} := -P(7+2,4) + 9!/5$$
$$\mathbf{83544} := \sqrt{P(8,3)} \times (5! - \sqrt{4})^{\sqrt{4}}.$$

$$\mathbf{8967} := 7 \times P(P(6, \sqrt{9}), 8)$$
$$\mathbf{9504} := 4! \times P(\sqrt{0!+5!}, 9)$$
$$\mathbf{9744} := 4! \times P(4 \times 7, \sqrt{9})$$
$$\mathbf{49281} := 1 \times 8! + P(29, 4!)$$
$$\mathbf{49548} := -8! - P(4!, 5) + 9!/4$$
$$\mathbf{50424} := 4! \times P(-2+4!, \sqrt{0!+5!})$$
$$\mathbf{52895} := (5 + P(9,8))^2 - 5$$
$$\mathbf{53995} := (5! - P(9, \sqrt{9})) \times 3!! - 5.$$

The consecutive sequential examples are given by

$$\mathbf{86640} := P(8,6) \times (6! + \sqrt{4}) + 0$$
$$\mathbf{86641} := P(8,6) \times (6! + \sqrt{4}) + 1$$
$$\mathbf{86642} := P(8,6) \times (6! + \sqrt{4}) + 2$$
$$\mathbf{86643} := P(8,6) \times (6! + \sqrt{4}) + 3$$
$$\mathbf{86644} := P(8,6) \times (6! + \sqrt{4}) + 4$$
$$\mathbf{86645} := P(8,6) \times (6! + \sqrt{4}) + 5$$
$$\mathbf{86646} := P(8,6) \times (6! + \sqrt{4}) + 6$$
$$\mathbf{86647} := P(8,6) \times (6! + \sqrt{4}) + 7$$
$$\mathbf{86648} := P(8,6) \times (6! + \sqrt{4}) + 8$$
$$\mathbf{86649} := P(8,6) \times (6! + \sqrt{4}) + 9.$$

$$\mathbf{5640} := 0 + P(4!, 6) \times 5$$
$$\mathbf{5641} := 1 + P(4!, 6) \times 5$$
$$\mathbf{5642} := 2 + P(4!, 6) \times 5$$
$$\mathbf{5643} := 3 + P(4!, 6) \times 5$$
$$\mathbf{5644} := 4 + P(4!, 6) \times 5$$
$$\mathbf{5645} := 5 + P(4!, 6) \times 5$$
$$\mathbf{5646} := 6 + P(4!, 6) \times 5$$
$$\mathbf{5647} := 7 + P(4!, 6) \times 5$$
$$\mathbf{5648} := 8 + P(4!, 6) \times 5$$
$$\mathbf{5649} := 9 + P(4!, 6) \times 5.$$

For more details refer author's work [33].

4.7 Centered Polygonal Numbers

The formula for **centered polygonal numbers** is given by

$$\boldsymbol{K(n,t)} := \frac{t\,n(n-1)}{2} + 1, \quad t > 2.$$

Below are some examples of selfie numbers with **centered polygonal numbers**. These are in **digit's order** and in**reverse order of digits**:

$$\mathbf{2883} := K(2 \times 8, 8) \times 3$$
$$\mathbf{2888} := K(2+8, 8) \times 8$$
$$\mathbf{3640} := K(3!, 6) \times 40$$
$$\mathbf{14939} := -1 + (K(4!, (\sqrt{9})!) + 3) \times 9$$
$$\mathbf{14959} := (-1 + K(4!, (\sqrt{9})!) + 5) \times 9$$

$$\mathbf{15144} := K(15, (-1+4)!) \times 4!$$
$$\mathbf{15347} := (-1+5)! \times 3!! - K(4!, 7)$$
$$\mathbf{15399} := K(1 \times 5!/3!, 9) \times 9$$
$$\mathbf{00938} := K(\sqrt{K(8, 3!)}, (\sqrt{9})!) \times (0! + 0!)$$
$$\mathbf{01051} := K(15, 010)$$

$$\mathbf{01199} := K(9,\sqrt{9}) \times (1+10)$$
$$\mathbf{59938} := K(8,3!) + (\sqrt{9})!! + 9^5$$
$$\mathbf{62424} := 4! \times K(2+4!,2+6)$$
$$\mathbf{63384} := 4! + (K(8,3)+3) \times 6!$$
$$\mathbf{63744} := 4! \times (K(4!,7)+3+6!)$$
$$\mathbf{63973} := K(3!+7,9) \times K(3!,6).$$

The consecutive sequential examples are given by

$$\mathbf{99360} := K((\sqrt{9})!,\sqrt{9}) \times 3 \times 6! + 0 = 0 + 6! \times K(3!,\sqrt{9}) \times \sqrt{9}$$
$$\mathbf{99361} := K((\sqrt{9})!,\sqrt{9}) \times 3 \times 6! + 1 = 1 + 6! \times K(3!,\sqrt{9}) \times \sqrt{9}$$
$$\mathbf{99362} := K((\sqrt{9})!,\sqrt{9}) \times 3 \times 6! + 2 = 2 + 6! \times K(3!,\sqrt{9}) \times \sqrt{9}$$
$$\mathbf{99363} := K((\sqrt{9})!,\sqrt{9}) \times 3 \times 6! + 3 = 3 + 6! \times K(3!,\sqrt{9}) \times \sqrt{9}$$
$$\mathbf{99364} := K((\sqrt{9})!,\sqrt{9}) \times 3 \times 6! + 4 = 4 + 6! \times K(3!,\sqrt{9}) \times \sqrt{9}$$
$$\mathbf{99365} := K((\sqrt{9})!,\sqrt{9}) \times 3 \times 6! + 5 = 5 + 6! \times K(3!,\sqrt{9}) \times \sqrt{9}$$
$$\mathbf{99366} := K((\sqrt{9})!,\sqrt{9}) \times 3 \times 6! + 6 = 6 + 6! \times K(3!,\sqrt{9}) \times \sqrt{9}$$
$$\mathbf{99367} := K((\sqrt{9})!,\sqrt{9}) \times 3 \times 6! + 7 = 7 + 6! \times K(3!,\sqrt{9}) \times \sqrt{9}$$
$$\mathbf{99368} := K((\sqrt{9})!,\sqrt{9}) \times 3 \times 6! + 8 = 8 + 6! \times K(3!,\sqrt{9}) \times \sqrt{9}$$
$$\mathbf{99369} := K((\sqrt{9})!,\sqrt{9}) \times 3 \times 6! + 9 = 9 + 6! \times K(3!,\sqrt{9}) \times \sqrt{9}.$$

For more details refer author's work [33].

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