# Selfie Numbers - II: Six Digits Symmetrical, Unified and Patterned Representations Without Factorial

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**Abstract**

*In previous works [11, 15, 16, 22], the construction of Selfie numbers is done in different forms, such as in order of digits, in reverse order of digits, in increasing and decreasing orders of digits. This has been done using factorial and square-root with basic operations. In this work we have obtained Selfie numbers having* ***six digits with repetitions without use of factorial****. Symmetrical consecutive and unified Selfie numbers are also presented.*

## 1 Selfie Numbers

Numbers represented by their own digits connected by certain operations are understood as *"Selfie numbers"*. These numbers are divided in two categories. Each category is again divided in two ways, i.e., one in order of digits appearing in the numbers and their reverse, and the second is in increasing and decreasing order of digits. Below are some examples of *Selfie numbers*.

### 1.1 Representations in Order of Digits and Reverse

- **Order of Digits**

  $24 = (2 \times \sqrt{4})!$.

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

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

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

  $24453 := \sqrt{\sqrt{2^{4!}}} + (4! + 5)^3$.

- **Reverse Order of Digits**

  $24 = \sqrt{(4!)^2}$.

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

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

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

  $91125 = (5 \times (-2 + 11))^{\sqrt{9}}$.

### 1.2 Representations in Increasing and Decreasing Orders of Digits

- **Increasing Order of Digits**

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

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

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

  $45576 := -4! + 5! \times 5 \times 76$.

  $573846 = -3!! - (\sqrt{4} - (5! - 6) \times 7! - 8)$.

- **Decreasing Order of Digits**

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

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

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

  $53783 := 8 + 75 \times (-3 + 3!!)$.

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

Some studied on this kind of numbers appearing in sections 1.1-1.4 can be seen in Taneja [11, 15, 16].

We observe that there are number that can be represented without any order, for example,

$34562 = 2 - (3 - 5) \times 6! \times 4!$.

$87369 = (3! + 7) \times 8!/6 + 9$.

Even though these numbers are also *Selfie numbers*, but still are not under study.

### 1.3 Symmetrical Representations

In [15], author studied an interesting *symmetrical consecutive representation of Selfie numbers*, such as

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$$72590 = 0 + 9!/5 + 2 \times 7.$$
$$72591 = 1 + 9!/5 + 2 \times 7.$$
$$72592 = 2 + 9!/5 + 2 \times 7.$$
$$72593 = 3 + 9!/5 + 2 \times 7.$$
$$72594 = 4 + 9!/5 + 2 \times 7.$$
$$72595 = 5 + 9!/5 + 2 \times 7.$$
$$72596 = 6 + 9!/5 + 2 \times 7.$$
$$72597 = 7 + 9!/5 + 2 \times 7.$$
$$72598 = 8 + 9!/5 + 2 \times 7.$$
$$72599 = 9 + 9!/5 + 2 \times 7.$$

### 1.4 Unified Selfie Numbers

We observe that there are numbers that can be written in all the four ways. For simplicity, we call them as *unified Selfie numbers* [20]. According to subsections 1.1 and 1.2, the numbers 936 and 1296 are *unified Selfie numbers*. See below:

$$936 = (\sqrt{9})!^3 + 6! \quad = 6! + 3!^{\sqrt{9}} = 3!! + 6^{\sqrt{9}} \qquad = (\sqrt{9})!! + 6^3.$$
$$1296 = \sqrt{(1+2)!^9/6} = 6^{\sqrt{9}+2-1} \quad = (1+2)! \times 6^{\sqrt{9}} = ((\sqrt{9})! \times 6)^2 \times 1.$$

More precisely, *unified Selfie numbers* are understood as:

$$\begin{aligned} \text{Unified Selfie number} &= \text{Order of digits} \\ &= \text{Reverse order of digits} \\ &= \text{Increasing order of digits} \\ &= \text{Decreasing order of digits.} \end{aligned}$$

### 1.5 Patterned Selfie Numbers

Madachy [4], pages 174-175 discussed the idea of different kind of number. In [21], we call it *patterned Selfie numbers*. Some examples are as follows:

$$36 = 3! \times 6$$
$$360 = 3! \times 60$$
$$3600 = 3! \times 600$$

$$4296 = (-4 + (2 \times \sqrt{9})!) \times 6$$
$$42960 = (-4 + (2 \times \sqrt{9})!) \times 60$$
$$429600 = (-4 + (2 \times \sqrt{9})!) \times 600$$

$$93552 = ((\sqrt{9})! \times 3!^5 + 5!) \times 2$$
$$935520 = ((\sqrt{9})! \times 3!^5 + 5!) \times 20$$
$$9355200 = ((\sqrt{9})! \times 3!^5 + 5!) \times 200$$

In part 1 - **Selfie Numbers -I** [20], we have worked with extensively *"Selfie numbers"* having the operations, *addition, subtraction, multiplication, potentiation, division, square-root and factorial* i.e., $\left[+\ ,\ -\ ,\ \times\ ,\ \hat{}\ ,\ /\ ,\ \sqrt{}\ ,\ !\right]$. The work was limited only up to 5 digits. Working with six digits with *square-root* and *factorial* there are more than 60000 possibilities. Due to this, in this work we have worked without use of *factorial* for six digits.

Study on numbers in different situation can be seen in [10, 12, 13, 14, 17, 18, 19]. For some comments refer to [1, 5]. Previous work in this direction can seen in [2, 3, 6, 7, 8, 9].

## 2 Unified Selfie Numbers

According to subsection 1.4, below are examples of *unified Selfie numbers*. The study is limited only up to 6 digits without factorial. It uses only square-root with other basic operations:

$$\begin{aligned} 114688 &= (11 \times \sqrt{4} + 6) \times \sqrt{8^8} \\ &= (8 + 8 \times 6) \times \sqrt{4^{11}} \\ &= (11 \times \sqrt{4} + 6) \times \sqrt{8^8} \\ &= (8 + 8 \times 6) \times \sqrt{4^{11}}. \end{aligned}$$

$$\begin{aligned} 117643 &= 1 + 1 \times 7^6 - 4 - 3 \\ &= (3+4)^6 - 7 + 1 \times 1 \\ &= 1 \times 1 + (3+4)^6 - 7 \\ &= 7^6 + \sqrt{4} + 3 - 11. \end{aligned}$$

$$\begin{aligned} 117645 &= -11 + 7^6 + \sqrt{4} + 5 \\ &= (5 + \sqrt{4})^6 + 7 - 11 \\ &= -11 + (\sqrt{4} + 5)^6 + 7 \\ &= 7^6 - \sqrt{\sqrt{\sqrt{5^4}} + 11}. \end{aligned}$$

$$\begin{aligned}117649 &= 11+7^6-\sqrt{4}-9\\ &= (9+4-6)^{7\times1-1}\\ &= \sqrt{(11-4)^{6\times\sqrt{\sqrt{7+9}}}}\\ &= 9+7^6+\sqrt{4}-11.\end{aligned}$$

$$\begin{aligned}117654 &= (1+1)\times(7^6+5)/\sqrt{4}\\ &= (\sqrt{4}+5)^6+7-1-1\\ &= -1-1+(\sqrt{4}+5)^6+7\\ &= 7^6+\sqrt{-5+41}-1.\end{aligned}$$

$$\begin{aligned}139962 &= 1\times3\times((9-\sqrt{9})^6-2)\\ &= (-2+6^{9-\sqrt{9}})\times3\times1\\ &= (-1\times2+36^{\sqrt{9}})\times\sqrt{9}\\ &= \sqrt{9}\times(-\sqrt{9}+6^{3\times2}+1).\end{aligned}$$

$$\begin{aligned}139964 &= 1\times3\times(9-\sqrt{9})^6-4\\ &= 4\times(6\times(9+9)^3-1)\\ &= -1+(3\times\sqrt{4})^6\times\sqrt{9}-\sqrt{9}\\ &= -\sqrt{9}+\sqrt{9}\times\sqrt{6^{4\times3}}-1.\end{aligned}$$

$$\begin{aligned}139966 &= 1+3\times(-9/9+6^6)\\ &= (6^6-9/9)\times3+1\\ &= 1-3+6^6\times\sqrt{\sqrt{9\times9}}\\ &= \sqrt{\sqrt{9\times9}}\times6^6-3+1.\end{aligned}$$

$$\begin{aligned}139968 &= (13\times9-9)\times\sqrt{6^8}\\ &= 8\times6^{\sqrt{9}}\times9^{3-1}\\ &= 1\times\sqrt{36^8}/(\sqrt{9}+9)\\ &= (-\sqrt{9}+9)^8/(6\times(3-1)).\end{aligned}$$

$$\begin{aligned}139969 &= 1-3\times((\sqrt{9}-9)\times6)^{\sqrt{9}}\\ &= \sqrt{9}\times6^{(9+9)/3}+1\\ &= 1+36^{\sqrt{9}}\times\sqrt{\sqrt{9\times9}}\\ &= ((9+9)/\sqrt{9})^6\times3+1.\end{aligned}$$

$$\begin{aligned}139996 &= 1+(36^{\sqrt{9}}+9)\times\sqrt{9}\\ &= (9+(\sqrt{9}-9)^6)\times3+1\\ &= 1+3\times(9+(9-\sqrt{9})^6)\\ &= (6^{9-\sqrt{9}}+9)\times3+1.\end{aligned}$$

$$\begin{aligned}177147 &= \sqrt{(11-\sqrt{4})^{77/7}}\\ &= (77-74)^{11}\\ &= \sqrt{(17-7-1)^{4+7}}\\ &= (7-4)^{17-7+1}.\end{aligned}$$

$$\begin{aligned}186615 &= -1-8+6^6\times(-1+5)\\ &= (5-1)\times6^6-8-1\\ &= -1+(-1+5)\times6^6-8\\ &= -8+6^6\times(5-1)-1.\end{aligned}$$

$$\begin{aligned}186624 &= (18\times(6+6))^2\times4\\ &= 4\times(2+6^6)-8\times1\\ &= 1\times24\times6\times\sqrt{6^8}\\ &= 8\times6^6/\sqrt{4}\times(2-1).\end{aligned}$$

$$\begin{aligned}186628 &= (1^8+6^6)\times\sqrt{2\times8}\\ &= 8/2\times(6^{\sqrt{\sqrt{\sqrt{6^8}}}}+1)\\ &= (-1+2+6^6)\times\sqrt{8+8}\\ &= \sqrt{8+8}\times(6^6+2-1).\end{aligned}$$

$$\begin{aligned}186631 &= -1+8+6^6\times(3+1)\\ &= (1+3)\times6^6+8-1\\ &= -1+(1+3)\times6^6+8\\ &= 8+6^6\times(3+1)-1.\end{aligned}$$

$$\begin{aligned}186648 &= 1\times(8+6^6)\times4-8\\ &= -8+4\times(6^6+8\times1)\\ &= 1\times4\times(6^6+8)-8\\ &= -8+(8+6^6)\times4\times1.\end{aligned}$$

$$\begin{aligned}186649 &= 1+8\times(6^6/\sqrt{4}+\sqrt{9})\\ &= -\sqrt{9}+4\times(6^6+8-1)\\ &= 1+4\times6+6^8/9\\ &= \sqrt{9}\times8+6^6\times4+1.\end{aligned}$$

$$\begin{aligned}196608 &= (-1+9)^6\times6/(08)\\ &= 8^{06}\times6/(9-1)\\ &= (\sqrt{\sqrt{016}}-6)^8\times\sqrt{9}\\ &= \sqrt{9}\times(8-6)^{6+10}.\end{aligned}$$

$$\begin{aligned}234375 &= (2+3)^4\times375\\ &= 5^7\times3\times(4-3)^2\\ &= \sqrt{\sqrt{(-2+3)\times3)^4}}\times5^7\\ &= 75\times(\sqrt{4}+3)^{3+2}.\end{aligned}$$

$$\begin{aligned}236196 &= 12\times(3-6+6)^9\\ &= (9\times6\times(6+3))^2\times1\\ &= 2\times3^{6+1}\times9\times6\\ &= (69\times(1+6)+3)^2.\end{aligned}$$

$$\begin{aligned}248834 &= -2+(4+8)^{8-3}+4\\ &= (4\times3)^{8/8+4}+2\\ &= 2+3\times4\times\sqrt{(4+8)^8}\\ &= (8+8-4)^{\sqrt{4}+3}+2.\end{aligned}$$

$$\begin{aligned}262143 &= 2^{6\times(2+1)}-4+3\\ &= -3+(-4+12)^6+2\\ &= -1+\sqrt{(2\times(-2+34))^6}\\ &= 64^3-2+2-1.\end{aligned}$$

$$\begin{aligned}262144 &= 2^{6\times(2+1)}-4+4\\ &= 4\times4^{12-6+2}\\ &= (12-24+4)^6\\ &= (6-4)^{-4+22}\times1.\end{aligned}$$

$$\begin{aligned}263169 &= (1+2^{3+6})^{6/\sqrt{9}}\\ &= (9\times(6-63))^2\times1\\ &= (2^{6+3}+1)^{6/\sqrt{9}}\\ &= (9\times61-36)^2.\end{aligned}$$

$$\begin{aligned}279927 &= -2-7+\sqrt{(9+9)\times2)^7}\\ &= -7+\sqrt{(2\times(9+9))^7}-2\\ &= (2\times\sqrt{(2+7)^7}-\sqrt{9\times9}\\ &= (9-\sqrt{9})^7-\sqrt{(7+2)^2}.\end{aligned}$$

$$\begin{aligned}279933 &= 2^7\times\sqrt{9}\times9^3-3\\ &= -3/3+(-\sqrt{9}+9)^7-2\\ &= (2\times3)^{3\times7/\sqrt{9}}-\sqrt{9}\\ &= (9-\sqrt{9})^7-3\times(3-2).\end{aligned}$$

$$\begin{aligned}279934 &= -2+(7-9/9)^{3+4}\\ &= (4+3-9/9)^7-2\\ &= -2+(3\times\sqrt{4})^{7-9+9}\\ &= (\sqrt{9}\times(9-7))^{4+3}-2.\end{aligned}$$

$$\begin{aligned}279936 &= (27+9)^{9/3}\times 6\\ &= 6^{39-(9+7)\times 2}\\ &= (2\times 3)^{\sqrt{67-9-9}}\\ &= (\sqrt{9}\times(9-7))^{6+3-2}.\end{aligned}$$

$$\begin{aligned}279939 &= 2^7\times\sqrt{9}\times 9^3+\sqrt{9}\\ &= \sqrt{9}+\sqrt{(3\times 9+9)^{\sqrt{7^2}}}\\ &= (2\times 3)^7-9+9+\sqrt{9}\\ &= \sqrt{9}+(-\sqrt{9}+9)^7\times(3-2).\end{aligned}$$

$$\begin{aligned}279945 &= 2+7+(9-\sqrt{9})^{\sqrt{4}+5}\\ &= 5+\sqrt{4}-(\sqrt{9}-9)^7+2\\ &= (2+4)^{5-7+9}+9\\ &= (9-\sqrt{9})^7+\sqrt{(5+4)^2}.\end{aligned}$$

$$\begin{aligned}279947 &= 2\times 7-\sqrt{9}+\sqrt{(9\times 4)^7}\\ &= 7+\sqrt{4}-(\sqrt{9}-9)^7+2\\ &= (2+4)^7-7+9+9\\ &= (9-\sqrt{9})^7+\sqrt{(7+4)^2}.\end{aligned}$$

$$\begin{aligned}279966 &= (-2+7+(9-\sqrt{9})^6)\times 6\\ &= 6\times(6^{9-\sqrt{9}}+7-2)\\ &= -2-5+6^7+\sqrt{9}\times 9\\ &= \sqrt{9}\times 9-7+6^{5+2}.\end{aligned}$$

$$\begin{aligned}294874 &= -2-9\times(4-8^{7-\sqrt{4}})\\ &= (\sqrt{4^{7+8}}-4)\times 9-2\\ &= -2+(-4+\sqrt{4^{7+8}}\times 9\\ &= 9\times(8^{7-\sqrt{4}}-4)-2.\end{aligned}$$

$$\begin{aligned}294894 &= -2\times(9-4^8\times 9/4)\\ &= (4\times 9\times 8^4-9)\times 2\\ &= (2-4+(4\times 8)^{\sqrt{9}})\times 9\\ &= (-9+9\times 8^4\times 4)\times 2.\end{aligned}$$

$$\begin{aligned}326627 &= (3+2+6^{\sqrt{6^2}})\times 7\\ &= \sqrt{7^2}\times(6^6+2+3)\\ &= (\sqrt{2+23}+6^6)\times 7\\ &= 7\times(6^6+\sqrt{3+22}).\end{aligned}$$

$$\begin{aligned}352947 &= 3\times(5+2)^{9-4}\times 7\\ &= 7\times\sqrt{49^{\sqrt{25}}}\times 3\\ &= (2+3+4^5)\times 7^{\sqrt{9}}\\ &= \sqrt{9}\times 7^{\sqrt{-5+43-2}}.\end{aligned}$$

$$\begin{aligned}354294 &= 3\times(5\times 4-2)\times 9^4\\ &= \sqrt{4}\times 9^{2+\sqrt{4+5}}\times 3\\ &= 2\times 3^{44/(-5+9)}\\ &= \sqrt{9^{54-43}}\times 2.\end{aligned}$$

$$\begin{aligned}373248 &= (3\times(7-3))^{2+4}/8\\ &= (84-2-3-7)^3\\ &= (2\times 3)^{3-4+7}\times 8\\ &= 8\times(-7+43)^{\sqrt{3^2}}.\end{aligned}$$

$$\begin{aligned}388999 &= (\sqrt{3^8}-8)^{\sqrt{9}}-9-9\\ &= -9-9+(9+8\times 8)^3\\ &= (\sqrt{3^8}-8)^{\sqrt{9}}-9-9\\ &= -9-9+(9+8\times 8)^3.\end{aligned}$$

$$\begin{aligned}389899 &= 3+(8-\sqrt{9})^8-9^{\sqrt{9}}\\ &= -9^{\sqrt{9}}+(8-\sqrt{9})^8+3\\ &= (-3+8)^8+\sqrt{9}-9^{\sqrt{9}}\\ &= (-9)^{\sqrt{9}}+(\sqrt{9}-8)^8+3.\end{aligned}$$

$$\begin{aligned}435456 &= (\sqrt{4}\times 3)^{\sqrt{\sqrt{5^4}}}\times 56\\ &= 6^5\times(4\times 5\times 3-4)\\ &= \sqrt{(34+\sqrt{4})^5}\times 56\\ &= 6^5\times(5+\sqrt{4})\times\sqrt{4^3}.\end{aligned}$$

$$\begin{aligned}438976 &= (\sqrt{4}\times 38)^{\sqrt{9}}\times(7-6)\\ &= (67+9)^{\sqrt{8-3+4}}\\ &= (-3\times 4/6+78)^{\sqrt{9}}\\ &= (9-8)\times\sqrt{\sqrt{76^{4\times 3}}}.\end{aligned}$$

$$\begin{aligned}442368 &= 4\times\sqrt{(4\times 2\times 3)^6}\times 8\\ &= (8\times 6)^3+24^4\\ &= (23+4)\times\sqrt{4^{6+8}}\\ &= 864\times\sqrt{4^{3^2}}.\end{aligned}$$

$$\begin{aligned}456973 &= (4-5\times 6)^{\sqrt{9+7}}-3\\ &= -3+(7\times(9-6)+5)^4\\ &= -3+(4\times 5+6)^{\sqrt{7+9}}\\ &= (\sqrt{9}-7+6\times 5)^4-3.\end{aligned}$$

$$\begin{aligned}456974 &= -\sqrt{4}+(5+(-6+9)\times 7)^4\\ &= -\sqrt{4}+(7\times(9-6)+5)^4\\ &= -\sqrt{4}+(4\times 5+6)^{\sqrt{7+9}}\\ &= -\sqrt{\sqrt{9+7}}+(6\times 5-4)^4.\end{aligned}$$

$$\begin{aligned}456976 &= (4\times 5+6)^{\sqrt{9}+7-6}\\ &= (6+(7-9+6)\times 5)^4\\ &= (4-5\times 6)^{6+7-9}\\ &= (97-66-5)^4.\end{aligned}$$

$$\begin{aligned}456979 &= (4-5\times 6)^{\sqrt{9+7}}+\sqrt{9}\\ &= \sqrt{9}+(7\times(9-6)+5)^4\\ &= (4\times 5+6)^{\sqrt{7+9}}+\sqrt{9}\\ &= \sqrt{9}+(\sqrt{9}-7+6\times 5)^4.\end{aligned}$$

$$\begin{aligned}466533 &= \sqrt{4}\times 6^6\times 5-3^3\\ &= -3^3+5\times 6^6\times\sqrt{4}\\ &= -3^3+\sqrt{4}\times 5\times 6^6\\ &= 6^6\times 5\times\sqrt{4}-3^3.\end{aligned}$$

$$\begin{aligned}466572 &= \sqrt{4}\times(6^6\times 5+7)-2\\ &= 2\times(7+5\times 6^6)-\sqrt{4}\\ &= -2+\sqrt{4}\times(5\times 6^6+7)\\ &= (7+6^6\times 5)\times\sqrt{4}-2.\end{aligned}$$

$$\begin{aligned}466574 &= 4\times(6^6\times 5+7)/\sqrt{4}\\ &= 4\times(7+5\times 6^6)/\sqrt{4}\\ &= \sqrt{\sqrt{4\times 4}}\times(5\times 6^6+7)\\ &= (7+6^6\times 5)\times\sqrt{\sqrt{4\times 4}}.\end{aligned}$$

$$\begin{aligned}466584 &= (4+6^6\times 5+8)\times\sqrt{4}\\ &= (4+8+5\times 6^6)\times\sqrt{4}\\ &= \sqrt{4}\times(4+5\times 6^6+8)\\ &= (8+6^6\times 5+4)\times\sqrt{4}.\end{aligned}$$

$$\begin{aligned}466594 &= ((4+6^6)\times 5-\sqrt{9})\times\sqrt{4}\\ &= \sqrt{4}\times(-\sqrt{9}+5\times(6^6+4))\\ &= 4+\sqrt{4}\times 5\times(6^6+\sqrt{9})\\ &= (\sqrt{9}+6^6)\times 5\times\sqrt{4}+4.\end{aligned}$$

$$\begin{aligned}466596 &= \sqrt{4}\times(6^6\times 5+\sqrt{9}\times 6)\\ &= (6\times\sqrt{9}+5\times 6^6)\times\sqrt{4}\\ &= \sqrt{4}\times(5\times 6^6+6\times\sqrt{9})\\ &= (\sqrt{9}\times 6+6^6\times 5)\times\sqrt{4}.\end{aligned}$$

$$\begin{aligned}497664 &= 4\times(9+7)\times 6\times 6^4\\ &= 4\times 6\times(6\times(-7+9))^4\\ &= 4\times 4\times\sqrt{(6\times 6)^7}/9\\ &= ((9-7)\times 6)^6/(\sqrt{4}+4).\end{aligned}$$

$$\begin{aligned}524248 &= (-5+(-2+4)^{2^4})\times 8\\ &= 8\times(4^{2+4+2}-5)\\ &= (2^{(-2+4)^4}-5)\times 8\\ &= 8\times(-5+(4\times 4)^{2^2}).\end{aligned}$$

$$\begin{aligned}524284 &= -5+(2+4^{2+8})/\sqrt{4}\\ &= (4^{8+2}+\sqrt{4})/2-5\\ &= 2\times(2+4^{4+5})-8\\ &= (8^5\times(4+4)-2)\times 2.\end{aligned}$$

$$\begin{aligned}524288 &= (5-2/(4/2))^8\times 8\\ &= (8+8)\times(2+4+2)^5\\ &= 2^{24-5+8-8}\\ &= 8^8/(54-22).\end{aligned}$$

$$\begin{aligned}524289 &= (\sqrt{9}+8^{2+4})\times 2-5\\ &= 5-2\times(\sqrt{4}-\sqrt{(2\times 8)^9})\\ &= 2^{24-5}-8+9\\ &= \sqrt{9}+8^5\times 4^2-2.\end{aligned}$$

$$\begin{aligned}531436 &= -5+3^{14}/(3+6)\\ &= (6-3)^{4\times 1\times 3}-5\\ &= 1-3-3+(4+5)^6\\ &= -6+(5+4)^{3+3}+1.\end{aligned}$$

$$\begin{aligned}531438 &= 5+3^{1\times 4\times 3}-8\\ &= -8+(3^4\times 1)^3+5\\ &= 1\times 3^{3\times 4}+5-8\\ &= (85-4)^3-3\times 1.\end{aligned}$$

$$\begin{aligned}531439 &= -5+3+(-1+4)^{3+9}\\ &= (9\times 3)^4\times 1+3-5\\ &= 1-3+3^{\sqrt{4+5}+9}\\ &= 9^{5+4-3}-\sqrt{3+1}.\end{aligned}$$

$$\begin{aligned}531441 &= (5-3+1)^{4\times(4-1)}\\ &= (1-4)^{4+13-5}\\ &= (1-1+3)^{4\times\sqrt{4+5}}\\ &= (5-4+\sqrt{4})\times 3^{11}.\end{aligned}$$

$$\begin{aligned}531443 &= 5+3^{\sqrt{144}}-3\\ &= 3^{4\times(4-1)}-3+5\\ &= 1+3^{3\times 4}-4+5\\ &= \sqrt{(5+4)^{4\times 3}}+3-1.\end{aligned}$$

$$\begin{aligned}531446 &= 5+(3-\sqrt{144})^6\\ &= (6/\sqrt{4})^{4\times 1\times 3}+5\\ &= -1+3^{4\times\sqrt{4+5}}+6\\ &= 6+\sqrt{(5+4)^{4\times 3}}-1.\end{aligned}$$

$$\begin{aligned}531449 &= 5+3^{\sqrt{144}}+\sqrt{9}\\ &= \sqrt{9^{4\times(4-1)}}+3+5\\ &= -1+3^{4\times\sqrt{4+5}}+9\\ &= 9+\sqrt{(5+4)^{4\times 3}}-1.\end{aligned}$$

$$\begin{aligned}537824 &= ((5-3)\times 7)^{(8+2)/\sqrt{4}}\\ &= (42\times(8-7)/3)^5\\ &= (2\times(3+4))^5\times(-7+8)\\ &= (8+7-5+4)^{3+2}.\end{aligned}$$

$$\begin{aligned}546875 &= (-5+4+6)^8\times 7/5\\ &= 5^7\times 8\times 6/4-5\\ &= (\sqrt{4}+5)\times 5^{6-7+8}\\ &= (8-7+6)\times 5^{5+\sqrt{4}}.\end{aligned}$$

$$\begin{aligned}589824 &= \sqrt{(-24+5\times 8)^8}\times 9\\ &= (\sqrt{9}\times 8^{8-5}/\sqrt{4})^2\\ &= ((-5+8+9)\times 8^2)^{\sqrt{4}}\\ &= 4^2/8\times 9\times 8^5.\end{aligned}$$

$$\begin{aligned}606476 &= (6^{06}-4)\times(7+6)\\ &= -(6+7)\times(4-6^{06})\\ &= (0-4+6^6)\times(6+7)\\ &= (7+6)\times(6^6-4-0).\end{aligned}$$

$$\begin{aligned}649539 &= (-6\times\sqrt{4}+9\times 5)\times 3^9\\ &= (\sqrt{9}\times 3)^5\times(9-4+6)\\ &= (34+5-6)\times\sqrt{9^9}\\ &= \sqrt{9^9}\times(\sqrt{\sqrt{(6\times 5)^4}+3}).\end{aligned}$$

$$\begin{aligned}688128 &= 6\times\sqrt{8^8}\times 1\times 28\\ &= 8\times 21\times 8\times\sqrt{8^6}\\ &= 12\times(6+8)\times\sqrt{8^8}\\ &= 8\times 8\times\sqrt{8^6}\times 21.\end{aligned}$$

$$\begin{aligned}746496 &= (7+\sqrt{4})\times(6\times 4)^{\sqrt{9}}\times 6\\ &= 6^9\times 4/(6\times(\sqrt{4}+7))\\ &= (4-4+6)^6\times(7+9)\\ &= (9+7)\times 6^{\sqrt{64}-\sqrt{4}}.\end{aligned}$$

$$\begin{aligned}786431 &= -7+(8^6+\sqrt{4})\times 3\times 1\\ &= -1+3\times 4^{\sqrt{-6+87}}\\ &= -1+3\times 4^{-6+7+8}\\ &= 8^7/\sqrt{64}\times 3-1.\end{aligned}$$

$$\begin{aligned}823543 &= ((8-2)/3+5)^{4+3}\\ &= (3+4)^{5+\sqrt{32/8}}\\ &= (-2+3\times 3)^{4-5+8}\\ &= (8-5+4)^{3\times 3-2}.\end{aligned}$$

$$\begin{aligned}944784 &= 9^4\times(4\times 7+8)\times 4\\ &= (4+8\times 7/4)^4\times 9\\ &= 4\times 4\times(-4+7)^8\times 9\\ &= \sqrt{9^8}\times(74\times\sqrt{4}-4).\end{aligned}$$

$$\begin{aligned}970299 &= (9\times(7\times 02+9))^{\sqrt{9}}\\ &= 99^{(20+7)/9}\\ &= 0\times 27+99^{\sqrt{9}}\\ &= 99^{\sqrt{\sqrt{9+72}}}+0.\end{aligned}$$

$$\begin{aligned}995319 &= ((\sqrt{9}+9\times 5)^3-1)\times 9\\ &= 9\times(-1+(3+5\times 9)^{\sqrt{9}})\\ &= (-1+(3+5\times 9)^{\sqrt{9}})\times 9\\ &= 9\times((\sqrt{9}+9\times 5)^3-1).\end{aligned}$$

$$995328 = (8+2^3\times 5)^{\sqrt{9}}\times 9 = (9+\sqrt{9})^5\times 32/8 = ((23-5)\times 8)^{\sqrt{9}}/\sqrt{9} = \sqrt{9}\times(9\times 8^{5-3})^2.$$

$$999973 = -\sqrt{9}\times 9+(\sqrt{9}+97)^3 = (3+7)^{9-\sqrt{9}}-9\times\sqrt{9} = (3+7)^{9-\sqrt{9}}-\sqrt{9}\times 9 = -\sqrt{9}\times 9+(\sqrt{9}+97)^3.$$

$$999995 = -5+(9/9+99)^{\sqrt{9}} = (99+9/9)^{\sqrt{9}}-5 = -5+(9/9+99)^{\sqrt{9}} = (9/9+99)^{\sqrt{9}}-5.$$

# 3 Symmetrical Consecutive Representations in Order of Digits and Reverse

This section deals with the representations of numbers appearing in consecutive way. When the representations are in consecutive and symmetrical way, we shall call them as *"Symmetrical consecutive"* representations. These may be either digit's order or reverse or both.

## 3.1 Symmetrical Consecutive Representations in Both Ways - Order of Digits and Reverse Jointly

$466520 := (-4+6^6)\times 5\times 2+0 = 0+2\times 5\times(6^6-4).$
$466521 := (-4+6^6)\times 5\times 2+1 = 1+2\times 5\times(6^6-4).$
$466522 := (-4+6^6)\times 5\times 2+2 = 2+2\times 5\times(6^6-4).$
$466523 := (-4+6^6)\times 5\times 2+3 = 3+2\times 5\times(6^6-4).$
$466524 := (-4+6^6)\times 5\times 2+4 = 4+2\times 5\times(6^6-4).$
$466525 := (-4+6^6)\times 5\times 2+5 = 5+2\times 5\times(6^6-4).$
$466526 := (-4+6^6)\times 5\times 2+6 = 6+2\times 5\times(6^6-4).$
$466527 := (-4+6^6)\times 5\times 2+7 = 7+2\times 5\times(6^6-4).$
$466528 := (-4+6^6)\times 5\times 2+8 = 8+2\times 5\times(6^6-4).$
$466529 := (-4+6^6)\times 5\times 2+9 = 9+2\times 5\times(6^6-4).$

$466540 := (-\sqrt{4}+6^6)\times 5\times\sqrt{4}+0 = 0+\sqrt{4}\times 5\times(6^6-\sqrt{4}).$
$466541 := (-\sqrt{4}+6^6)\times 5\times\sqrt{4}+1 = 1+\sqrt{4}\times 5\times(6^6-\sqrt{4}).$
$466542 := (-\sqrt{4}+6^6)\times 5\times\sqrt{4}+2 = 2+\sqrt{4}\times 5\times(6^6-\sqrt{4}).$
$466543 := (-\sqrt{4}+6^6)\times 5\times\sqrt{4}+3 = 3+\sqrt{4}\times 5\times(6^6-\sqrt{4}).$
$466544 := (-\sqrt{4}+6^6)\times 5\times\sqrt{4}+4 = 4+\sqrt{4}\times 5\times(6^6-\sqrt{4}).$
$466545 := (-\sqrt{4}+6^6)\times 5\times\sqrt{4}+5 = 5+\sqrt{4}\times 5\times(6^6-\sqrt{4}).$
$466546 := (-\sqrt{4}+6^6)\times 5\times\sqrt{4}+6 = 6+\sqrt{4}\times 5\times(6^6-\sqrt{4}).$
$466547 := (-\sqrt{4}+6^6)\times 5\times\sqrt{4}+7 = 7+\sqrt{4}\times 5\times(6^6-\sqrt{4}).$
$466548 := (-\sqrt{4}+6^6)\times 5\times\sqrt{4}+8 = 8+\sqrt{4}\times 5\times(6^6-\sqrt{4}).$
$466549 := (-\sqrt{4}+6^6)\times 5\times\sqrt{4}+9 = 9+\sqrt{4}\times 5\times(6^6-\sqrt{4}).$

$466550 := \sqrt{4}\times(6^6\times 5-5)+0 = 0+(-5+5\times 6^6)\times\sqrt{4}.$
$466551 := \sqrt{4}\times(6^6\times 5-5)+1 = 1+(-5+5\times 6^6)\times\sqrt{4}.$
$466552 := \sqrt{4}\times(6^6\times 5-5)+2 = 2+(-5+5\times 6^6)\times\sqrt{4}.$
$466553 := \sqrt{4}\times(6^6\times 5-5)+3 = 3+(-5+5\times 6^6)\times\sqrt{4}.$
$466554 := \sqrt{4}\times(6^6\times 5-5)+4 = 4+(-5+5\times 6^6)\times\sqrt{4}.$
$466555 := \sqrt{4}\times(6^6\times 5-5)+5 = 5+(-5+5\times 6^6)\times\sqrt{4}.$
$466556 := \sqrt{4}\times(6^6\times 5-5)+6 = 6+(-5+5\times 6^6)\times\sqrt{4}.$
$466557 := \sqrt{4}\times(6^6\times 5-5)+7 = 7+(-5+5\times 6^6)\times\sqrt{4}.$
$466558 := \sqrt{4}\times(6^6\times 5-5)+8 = 8+(-5+5\times 6^6)\times\sqrt{4}.$
$466559 := \sqrt{4}\times(6^6\times 5-5)+9 = 9+(-5+5\times 6^6)\times\sqrt{4}.$

$466560 := (4+6)\times 6^5\times 6+0 = 0+6^5\times 6\times(6+4).$
$466561 := (4+6)\times 6^5\times 6+1 = 1+6^5\times 6\times(6+4).$
$466562 := (4+6)\times 6^5\times 6+2 = 2+6^5\times 6\times(6+4).$
$466563 := (4+6)\times 6^5\times 6+3 = 3+6^5\times 6\times(6+4).$
$466564 := (4+6)\times 6^5\times 6+4 = 4+6^5\times 6\times(6+4).$
$466565 := (4+6)\times 6^5\times 6+5 = 5+6^5\times 6\times(6+4).$
$466566 := (4+6)\times 6^5\times 6+6 = 6+6^5\times 6\times(6+4).$
$466567 := (4+6)\times 6^5\times 6+7 = 7+6^5\times 6\times(6+4).$
$466568 := (4+6)\times 6^5\times 6+8 = 8+6^5\times 6\times(6+4).$
$466569 := (4+6)\times 6^5\times 6+9 = 9+6^5\times 6\times(6+4).$

$656250 := 6\times 5^6\times(2+5)+0 = 0+(5+2)\times 6\times 5^6.$
$656251 := 6\times 5^6\times(2+5)+1 = 1+(5+2)\times 6\times 5^6.$
$656252 := 6\times 5^6\times(2+5)+2 = 2+(5+2)\times 6\times 5^6.$
$656253 := 6\times 5^6\times(2+5)+3 = 3+(5+2)\times 6\times 5^6.$
$656254 := 6\times 5^6\times(2+5)+4 = 4+(5+2)\times 6\times 5^6.$
$656255 := 6\times 5^6\times(2+5)+5 = 5+(5+2)\times 6\times 5^6.$
$656256 := 6\times 5^6\times(2+5)+6 = 6+(5+2)\times 6\times 5^6.$
$656257 := 6\times 5^6\times(2+5)+7 = 7+(5+2)\times 6\times 5^6.$
$656258 := 6\times 5^6\times(2+5)+8 = 8+(5+2)\times 6\times 5^6.$
$656259 := 6\times 5^6\times(2+5)+9 = 9+(5+2)\times 6\times 5^6.$

## 3.2 Symmetrical Consecutive Representations in Order of Digits

$137790 := (1+3^7\times 7)\times 9+0.$
$137791 := (1+3^7\times 7)\times 9+1.$
$137792 := (1+3^7\times 7)\times 9+2.$
$137793 := (1+3^7\times 7)\times 9+3.$
$137794 := (1+3^7\times 7)\times 9+4.$
$137795 := (1+3^7\times 7)\times 9+5.$
$137796 := (1+3^7\times 7)\times 9+6.$
$137797 := (1+3^7\times 7)\times 9+7.$
$137798 := (1+3^7\times 7)\times 9+8.$
$137799 := (1+3^7\times 7)\times 9+9.$

$156250 := 1\times 5^6\times 2\times 5+0.$
$156251 := 1\times 5^6\times 2\times 5+1.$
$156253 := 1\times 5^6\times 2\times 5+3.$
$156254 := 1\times 5^6\times 2\times 5+4.$
$156255 := 1\times 5^6\times 2\times 5+5.$

$156256 := 1 \times 5^6 \times 2 \times 5 + 6.$

$156257 := 1 \times 5^6 \times 2 \times 5 + 7.$

$156258 := 1 \times 5^6 \times 2 \times 5 + 8.$

$156259 := 1 \times 5^6 \times 2 \times 5 + 9.$

$194490 := (19 + \sqrt{4})^4 + 9 + 0.$

$194491 := (19 + \sqrt{4})^4 + 9 + 1.$

$194492 := (19 + \sqrt{4})^4 + 9 + 2.$

$194493 := (19 + \sqrt{4})^4 + 9 + 3.$

$194494 := (19 + \sqrt{4})^4 + 9 + 4.$

$194495 := (19 + \sqrt{4})^4 + 9 + 5.$

$194496 := (19 + \sqrt{4})^4 + 9 + 6.$

$194497 := (19 + \sqrt{4})^4 + 9 + 7.$

$194498 := (19 + \sqrt{4})^4 + 9 + 8.$

$194499 := (19 + \sqrt{4})^4 + 9 + 9.$

$248830 := -2 + (4 + 8)^{8-3} + 0.$

$248831 := -2 + (4 + 8)^{8-3} + 1.$

$248832 := -2 + (4 + 8)^{8-3} + 2.$

$248833 := -2 + (4 + 8)^{8-3} + 3.$

$248834 := -2 + (4 + 8)^{8-3} + 4.$

$248835 := -2 + (4 + 8)^{8-3} + 5.$

$248836 := -2 + (4 + 8)^{8-3} + 6.$

$248837 := -2 + (4 + 8)^{8-3} + 7.$

$248838 := -2 + (4 + 8)^{8-3} + 8.$

$248839 := -2 + (4 + 8)^{8-3} + 9.$

$262140 := 2^{6\times(2+1)} - 4 + 0.$

$262141 := 2^{6\times(2+1)} - 4 + 1.$

$262142 := 2^{6\times(2+1)} - 4 + 2.$

$262143 := 2^{6\times(2+1)} - 4 + 3.$

$262144 := 2^{6\times(2+1)} - 4 + 4.$

$262145 := 2^{6\times(2+1)} - 4 + 5.$

$262147 := 2^{6\times(2+1)} - 4 + 7.$

$262148 := 2^{6\times(2+1)} - 4 + 8.$

$262149 := 2^{6\times(2+1)} - 4 + 9.$

$438980 := 4 + 38^{\sqrt{9}} \times 8 + 0.$

$438981 := 4 + 38^{\sqrt{9}} \times 8 + 1.$

$438982 := 4 + 38^{\sqrt{9}} \times 8 + 2.$

$438983 := 4 + 38^{\sqrt{9}} \times 8 + 3.$

$438984 := 4 + 38^{\sqrt{9}} \times 8 + 4.$

$438985 := 4 + 38^{\sqrt{9}} \times 8 + 5.$

$438986 := 4 + 38^{\sqrt{9}} \times 8 + 6.$

$438987 := 4 + 38^{\sqrt{9}} \times 8 + 7.$

$438988 := 4 + 38^{\sqrt{9}} \times 8 + 8.$

$438989 := 4 + 38^{\sqrt{9}} \times 8 + 9.$

$585640 := 5 \times 8 \times (5 + 6)^4 + 0.$

$585641 := 5 \times 8 \times (5 + 6)^4 + 1.$

$585642 := 5 \times 8 \times (5 + 6)^4 + 2.$

$585643 := 5 \times 8 \times (5 + 6)^4 + 3.$

$585644 := 5 \times 8 \times (5 + 6)^4 + 4.$

$585645 := 5 \times 8 \times (5 + 6)^4 + 5.$

$585646 := 5 \times 8 \times (5 + 6)^4 + 6.$

$585647 := 5 \times 8 \times (5 + 6)^4 + 7.$

$585648 := 5 \times 8 \times (5 + 6)^4 + 8.$

$585649 := 5 \times 8 \times (5 + 6)^4 + 9.$

$995340 := ((9 + \sqrt{9})^5 + 3) \times 4 + 0.$

$995341 := ((9 + \sqrt{9})^5 + 3) \times 4 + 1.$

$995342 := ((9 + \sqrt{9})^5 + 3) \times 4 + 2.$

$995343 := ((9 + \sqrt{9})^5 + 3) \times 4 + 3.$

$995344 := ((9 + \sqrt{9})^5 + 3) \times 4 + 4.$

$995345 := ((9 + \sqrt{9})^5 + 3) \times 4 + 5.$

$995346 := ((9 + \sqrt{9})^5 + 3) \times 4 + 6.$

$995347 := ((9 + \sqrt{9})^5 + 3) \times 4 + 7.$

$995348 := ((9 + \sqrt{9})^5 + 3) \times 4 + 8.$

$995349 := ((9 + \sqrt{9})^5 + 3) \times 4 + 9.$

## 3.3 Symmetrical Consecutive Representations in Reverse Order of Digits

$163840 := 0 + (4 \times 8)^{3\times(6-1)}.$

$163841 := 1 + (4 \times 8)^{3\times(6-1)}.$

$163842 := 2 + (4 \times 8)^{3\times(6-1)}.$

$163843 := 3 + (4 \times 8)^{3\times(6-1)}.$

$163844 := 4 + (4 \times 8)^{3\times(6-1)}.$

$163845 := 5 + (4 \times 8)^{3\times(6-1)}.$

$163846 := 6 + (4 \times 8)^{3\times(6-1)}.$

$163847 := 7 + (4 \times 8)^{3\times(6-1)}.$

$163848 := 8 + (4 \times 8)^{3\times(6-1)}.$

$163849 := 9 + (4 \times 8)^{3\times(6-1)}.$

$279940 := 0 + \sqrt{4} - (\sqrt{9} - 9)^7 + 2.$

$279941 := 1 + \sqrt{4} - (\sqrt{9} - 9)^7 + 2.$

$279942 := 2 + \sqrt{4} - (\sqrt{9} - 9)^7 + 2.$

$279943 := 3 + \sqrt{4} - (\sqrt{9} - 9)^7 + 2.$

$279944 := 4 + \sqrt{4} - (\sqrt{9} - 9)^7 + 2.$

$279945 := 5 + \sqrt{4} - (\sqrt{9} - 9)^7 + 2.$

$279946 := 6 + \sqrt{4} - (\sqrt{9} - 9)^7 + 2.$

$279947 := 7 + \sqrt{4} - (\sqrt{9} - 9)^7 + 2.$

$279948 := 8 + \sqrt{4} - (\sqrt{9} - 9)^7 + 2.$

$279949 := 9 + \sqrt{4} - (\sqrt{9} - 9)^7 + 2.$

$328510 := 0 + 1 + (5 + 8^2)^3.$

$328511 := 1 + 1 + (5 + 8^2)^3.$

$328512 := 2 + 1 + (5 + 8^2)^3.$

$328513 := 3 + 1 + (5 + 8^2)^3.$

$328514 := 4 + 1 + (5 + 8^2)^3.$

$328515 := 5 + 1 + (5 + 8^2)^3.$

$328516 := 6 + 1 + (5 + 8^2)^3.$

$328517 := 7 + 1 + (5 + 8^2)^3.$

$328518 := 8 + 1 + (5 + 8^2)^3.$

$328519 := 9 + 1 + (5 + 8^2)^3.$

$328510 := 01 + (5 + 8^2)^3.$

$328521 := 12 + (5 + 8^2)^3.$

$328532 := 23 + (5 + 8^2)^3.$

$328543 := 34 + (5 + 8^2)^3.$

$328554 := 45 + (5 + 8^2)^3.$

$328565 := 56 + (5 + 8^2)^3.$

$328576 := 67 + (5 + 8^2)^3.$

$328587 := 78 + (5 + 8^2)^3.$

$328598 := 89 + (5 + 8^2)^3.$

$468750 := 0 + 5^7 \times (8 - 6 + 4).$

$468751 := 1 + 5^7 \times (8 - 6 + 4).$

$468752 := 2 + 5^7 \times (8 - 6 + 4).$

$468753 := 3 + 5^7 \times (8 - 6 + 4).$

$468754 := 4 + 5^7 \times (8 - 6 + 4).$

$468755 := 5 + 5^7 \times (8 - 6 + 4).$

$468756 := 6 + 5^7 \times (8 - 6 + 4).$

$468757 := 7 + 5^7 \times (8 - 6 + 4).$

$468758 := 8 + 5^7 \times (8 - 6 + 4).$

$468759 := 9 + 5^7 \times (8 - 6 + 4).$

$573440 := 0 + 4^{4+3} \times 7 \times 5.$

$573441 := 1 + 4^{4+3} \times 7 \times 5.$

$573442 := 2 + 4^{4+3} \times 7 \times 5.$

$573443 := 3 + 4^{4+3} \times 7 \times 5.$

$573444 := 4 + 4^{4+3} \times 7 \times 5.$

$573445 := 5 + 4^{4+3} \times 7 \times 5.$

$573446 := 6 + 4^{4+3} \times 7 \times 5.$

$573447 := 7 + 4^{4+3} \times 7 \times 5.$

$573448 := 8 + 4^{4+3} \times 7 \times 5.$

$573449 := 9 + 4^{4+3} \times 7 \times 5.$

$589840 := 0 + \sqrt{4} \times (8 + 9 \times 8^5).$

$589841 := 1 + \sqrt{4} \times (8 + 9 \times 8^5).$

$589842 := 2 + \sqrt{4} \times (8 + 9 \times 8^5).$

$589843 := 3 + \sqrt{4} \times (8 + 9 \times 8^5).$

$589844 := 4 + \sqrt{4} \times (8 + 9 \times 8^5).$

$589845 := 5 + \sqrt{4} \times (8 + 9 \times 8^5).$

$589846 := 6 + \sqrt{4} \times (8 + 9 \times 8^5).$

$589847 := 7 + \sqrt{4} \times (8 + 9 \times 8^5).$

$589848 := 8 + \sqrt{4} \times (8 + 9 \times 8^5).$

$589849 := 9 + \sqrt{4} \times (8 + 9 \times 8^5).$

$937500 := 0 + 0 + 5^7 \times (3 + 9).$

$937501 := 1 + 0 + 5^7 \times (3 + 9).$

$937502 := 2 + 0 + 5^7 \times (3 + 9).$

$937503 := 3 + 0 + 5^7 \times (3 + 9).$

$937504 := 4 + 0 + 5^7 \times (3 + 9).$

$937505 := 5 + 0 + 5^7 \times (3 + 9).$

$937506 := 6 + 0 + 5^7 \times (3 + 9).$

$937507 := 7 + 0 + 5^7 \times (3 + 9).$

$937508 := 8 + 0 + 5^7 \times (3 + 9).$

$937509 := 9 + 0 + 5^7 \times (3 + 9).$

$937500 := 00 + 5^7 \times (3 + 9).$

$937511 := 11 + 5^7 \times (3 + 9).$

$937522 := 22 + 5^7 \times (3 + 9).$

$937533 := 33 + 5^7 \times (3 + 9).$

$937544 := 44 + 5^7 \times (3 + 9).$

$937555 := 55 + 5^7 \times (3 + 9).$

$937566 := 66 + 5^7 \times (3 + 9).$

$937577 := 77 + 5^7 \times (3 + 9).$

$937588 := 88 + 5^7 \times (3 + 9).$

$937599 := 99 + 5^7 \times (3 + 9).$

# 4 Symmetrical Representations in Increasing and Decreasing Orders of Digits

This section deals with symmetrical representations of *Selfie numbers* in increasing and decreasing order of digits. As in previous section, here in some cases we have symmetry but not necessarily consecutive.

## 4.1 Symmetrical Representations in Both Ways - Increasing and Decreasing Orders of Digits Jointly

$279930 := 0 + (2 \times 3)^7 - 9 + \sqrt{9} = (9 - \sqrt{9})^7 - 3 \times 2 + 0.$
$279931 := 1 + (2 \times 3)^7 + 9 + \sqrt{9} = (9 - \sqrt{9})^7 - 3 \times 2 + 1.$
$279932 := 2 + (2 \times 3)^7 - 9 + \sqrt{9} = (9 - \sqrt{9})^7 - 3 \times 2 + 2.$

$466566 := \sqrt{4} \times 5 \times 6^{\sqrt{6 \times 6}} + 6 = 6 + 6^{\sqrt{6 \times 6}} \times 5 \times \sqrt{4}.$
$466567 := \sqrt{4} \times 5 \times 6^{\sqrt{6 \times 6}} + 7 = 7 + 6^{\sqrt{6 \times 6}} \times 5 \times \sqrt{4}.$
$466568 := \sqrt{4} \times 5 \times 6^{\sqrt{6 \times 6}} + 8 = 8 + 6^{\sqrt{6 \times 6}} \times 5 \times \sqrt{4}.$
$466569 := \sqrt{4} \times 5 \times 6^{\sqrt{6 \times 6}} + 9 = 9 + 6^{\sqrt{6 \times 6}} \times 5 \times \sqrt{4}.$

$466590 := 0 + \sqrt{4} \times 5 \times (6^6 + \sqrt{9}) = (\sqrt{9} + 6^6) \times 5 \times \sqrt{4} + 0.$
$466591 := 1 + \sqrt{4} \times 5 \times (6^6 + \sqrt{9}) = (\sqrt{9} + 6^6) \times 5 \times \sqrt{4} + 1.$
$466592 := 2 + \sqrt{4} \times 5 \times (6^6 + \sqrt{9}) = (\sqrt{9} + 6^6) \times 5 \times \sqrt{4} + 2.$
$466593 := 3 + \sqrt{4} \times 5 \times (6^6 + \sqrt{9}) = (\sqrt{9} + 6^6) \times 5 \times \sqrt{4} + 3.$
$466594 := 4 + \sqrt{4} \times 5 \times (6^6 + \sqrt{9}) = (\sqrt{9} + 6^6) \times 5 \times \sqrt{4} + 4.$

$531445 := -1 + 3^{4 \times \sqrt{4+5}} + 5 = 5 + \sqrt{(5+4)^{4 \times 3}} - 1.$
$531446 := -1 + 3^{4 \times \sqrt{4+5}} + 6 = 6 + \sqrt{(5+4)^{4 \times 3}} - 1.$
$531447 := -1 + 3^{4 \times \sqrt{4+5}} + 7 = 7 + \sqrt{(5+4)^{4 \times 3}} - 1.$
$531448 := -1 + 3^{4 \times \sqrt{4+5}} + 8 = 8 + \sqrt{(5+4)^{4 \times 3}} - 1.$
$531449 := -1 + 3^{4 \times \sqrt{4+5}} + 9 = 9 + \sqrt{(5+4)^{4 \times 3}} - 1.$

## 4.2 Symmetrical Representations in Increasing Order of Digits

$137790 := 0 + (1 + 3^7 \times 7) \times 9.$

$137791 := 1 + (1 + 3^7 \times 7) \times 9.$

$146416 := 11^4 \times (4 + 6) + 6.$

$146417 := 11^4 \times (4 + 6) + 7.$

$146418 := 11^4 \times (4 + 6) + 8.$

$146419 := 11^4 \times (4 + 6) + 9.$

$156250 := 0 \times 1 + 2 \times 5 \times 5^6.$

$156251 := 1 \times 1 + 2 \times 5 \times 5^6.$

$156252 := 1 \times 2 + 2 \times 5 \times 5^6.$

$156256 := 1 \times 2 \times 5 \times 5^6 + 6.$

$156257 := 1 \times 2 \times 5 \times 5^6 + 7.$

$156258 := 1 \times 2 \times 5 \times 5^6 + 8.$

$156259 := 1 \times 2 \times 5 \times 5^6 + 9.$

$468750 := 0 + \sqrt{4} \times 5^6 \times (7 + 8).$

$468751 := 1 + \sqrt{4} \times 5^6 \times (7 + 8).$

$468752 := 2 + \sqrt{4} \times 5^6 \times (7 + 8).$

$468753 := 3 + \sqrt{4} \times 5^6 \times (7 + 8).$

$468754 := 4 + \sqrt{4} \times 5^6 \times (7 + 8).$

$524280 := 0 + 2^{24-5} - 8.$

$524281 := 1 + 2^{24-5} - 8.$

$524282 := 2 + 2^{24-5} - 8.$

$524285 := 2^{24-5} + 5 - 8.$

$524286 := 2^{24-5} + 6 - 8.$

$524287 := 2^{24-5} + 7 - 8.$

$524288 := 2^{24-5} + 8 - 8.$

$524288 := 2^{24-5} - 8 + 9.$

$628936 := 2 \times (36 + 68^{\sqrt{9}}).$

$628954 := 2 \times (45 + 68^{\sqrt{9}}).$

$656250 := 0 + (2 + 5) \times 5^6 \times 6.$

$656251 := 1 + (2 + 5) \times 5^6 \times 6.$

$656252 := 2 + (2 + 5) \times 5^6 \times 6.$

$656256 := (2 + 5) \times 5^6 \times 6 + 6.$

$656257 := (2 + 5) \times 5^6 \times 6 + 7.$

$656258 := (2 + 5) \times 5^6 \times 6 + 8.$

$656259 := (2 + 5) \times 5^6 \times 6 + 9.$

$656272 := 22 + 5^6 \times 6 \times 7.$

$656273 := 23 + 5^6 \times 6 \times 7.$

$656274 := 24 + 5^6 \times 6 \times 7.$

$656275 := 25 + 5^6 \times 6 \times 7.$

$681598 := 1 + \sqrt{5^6} + 88^{\sqrt{9}}.$

$681689 := 1 + \sqrt{6^6} + 88^{\sqrt{9}}.$

$889555 := (-5 + \sqrt{(5+5)^8}) \times 89.$

$889644 := (-4 + \sqrt{(4+6)^8}) \times 89.$

$889733 := (-3 + \sqrt{(3+7)^8}) \times 89.$

$889822 := (-2 + \sqrt{(2+8)^8}) \times 89.$

## 4.3 Symmetrical Consecutive Representations in Decreasing Order of Digits

$117664 := 7^{\sqrt{6\times6}} + 4 + 11.$

$117665 := 7^{\sqrt{6\times6}} + 5 + 11.$

$117666 := 7^{\sqrt{6\times6}} + 6 + 11.$

$117667 := 7 + 7^{\sqrt{6\times6}} + 11.$

$117668 := 8 + 7^{\sqrt{6\times6}} + 11.$

$117669 := 9 + 7^{\sqrt{6\times6}} + 11.$

$177138 := -8 - 7/7 + 3^{11}.$

$177139 := -9 + 7/7 + 3^{11}.$

$177140 := -7 + (7 - 4)^{11} + 0.$

$177141 := -7 + (7 - 4)^{11} + 1.$

$177147 := 7 - 7 + (7 - 4)^{11}.$

$177148 := 8 - 7 + (7 - 4)^{11}.$

$177149 := 9 - 7 + (7 - 4)^{11}.$

$194480 := (9 + 8 + 4)^4 + 1 - 1.$

$194481 := (9 + 8 + 4)^4 + 1 - 1.$

$194482 := (9 + 8 + 4)^4 + 2 - 1.$

$194483 := (9 + 8 + 4)^4 + 3 - 1.$

$209728 := (\sqrt{9^8} - 7) \times \sqrt{\sqrt{2^{20}}}.$

$209824 := (\sqrt{9^8} - 4) \times \sqrt{\sqrt{2^{20}}}.$

$263440 := 6^4 + 4^{3^2} + 0.$

$263441 := 6^4 + 4^{3^2} + 1.$

$263442 := 6^4 + 4^{3^2} + 2.$

$263444 := 6^4 + 4 + 4^{3^2}.$

$263446 := 6 + 6^4 + 4^{3^2}.$

$263447 := 7 + 6^4 + 4^{3^2}.$

$263448 := 8 + 6^4 + 4^{3^2}.$

$263449 := 9 + 6^4 + 4^{3^2}.$

$264448 := 8^6 + (4 + 44)^2.$

$265865 := 8^6 + (6 + 55)^2.$

$349191 := 9 \times 9 \times 4311.$

$349920 := 9 \times 9 \times 4320.$

$373250 := (75 - 3)^3 + 2 + 0.$

$373251 := (75 - 3)^3 + 2 + 1.$

$373252 := (75 - 3)^3 + 2 + 2.$

$373253 := (75 - 3)^3 + 3 + 2.$

$373257 := 7 + (75 - 3)^3 + 2.$

$373258 := 8 + (75 - 3)^3 + 2.$

$373259 := 9 + (75 - 3)^3 + 2.$

$459270 := \sqrt{9^7} \times 5 \times 42 + 0.$

$459271 := \sqrt{9^7} \times 5 \times 42 + 1.$

$459272 := \sqrt{9^7} \times 5 \times 42 + 2.$

$468790 := (-\sqrt{9} + 8)^7 \times 6 + 40.$
$468791 := (-\sqrt{9} + 8)^7 \times 6 + 41.$
$468792 := (-\sqrt{9} + 8)^7 \times 6 + 42.$
$468793 := (-\sqrt{9} + 8)^7 \times 6 + 43.$
$468794 := (-\sqrt{9} + 8)^7 \times 6 + 44.$

$470604 := (7^6 + \sqrt{4}) \times 4 + 00.$
$470614 := (7^6 + \sqrt{4}) \times 4 + 10.$
$470624 := (7^6 + \sqrt{4}) \times 4 + 20.$
$470634 := (7^6 + \sqrt{4}) \times 4 + 30.$
$470644 := (7^6 + \sqrt{4}) \times 4 + 40.$

$524234 := -54 + \sqrt{4}^{-3+22}.$
$524342 := +54 + \sqrt{4}^{-3+22}.$

$537704 := (7 + 7)^5 - 4 \times 30.$
$537731 := (7 + 7)^5 - 3 \times 31.$

$537774 := -7 + (7 + 7)^5 - 43.$
$537783 := -8 + (7 + 7)^5 - 33.$

$537920 := (\sqrt{9} + 7^5) \times 32 + 0.$
$537921 := (\sqrt{9} + 7^5) \times 32 + 1.$
$537922 := (\sqrt{9} + 7^5) \times 32 + 2.$

$559539 := 9 \times (9^5 + 5^5 - 3).$
$559593 := 9 \times (9^5 + 5^5 + 3).$

$573440 := 7 \times 5 \times 4^{4+3} + 0.$
$573441 := 7 \times 5 \times 4^{4+3} + 1.$
$573442 := 7 \times 5 \times 4^{4+3} + 2.$
$573443 := 7 \times 5 \times 4^{4+3} + 3.$

$573447 := 7 + 7 \times 5 \times 4^{4+3}.$
$573448 := 8 + 7 \times 5 \times 4^{4+3}.$
$573449 := 9 + 7 \times 5 \times 4^{4+3}.$

$755919 := 9 \times ((-9 + 7^5) \times 5 + 1).$
$755973 := 9 \times ((-7 + 7^5) \times 5 - 3).$

$852926 := (\sqrt{9^8} \times 65 - 2) \times 2.$
$852936 := (\sqrt{9^8} \times 65 + 3) \times 2.$

$912671 := 97^{6/2} - 1 - 1.$
$912672 := 97^{6/2} - 2 + 1.$

# 5 Selfie Representations in Both Ways - Order of Digits and Reverse

This section deals with the selfie representations of numbers. This we have divided in three subsections. The first one is in both orders, second one is in order of digits and third is in reverse order.

## 5.1 Selfie Representations in Both Orders

| | |
|---|---|
| $116424 := 11 \times 6 \times \sqrt{42^4}$ | $= \sqrt{42^4} \times 6 \times 11.$ |
| $116565 := (-1 + 16) \times (-5 + 6^5)$ | $= 5 \times (3 \times 6^{6-1} - 1).$ |
| $116645 := (1 \times 1 + 6^6/\sqrt{4}) \times 5$ | $= 5 \times (\sqrt{4} + 6^6)/(1 + 1).$ |
| $117647 := 1 + 1 \times 7^6 + 4 - 7$ | $= \sqrt{7^{4+6}} \times 7 - 1 - 1.$ |
| $117652 := 1 \times 1 \times 7^6 + 5 - 2$ | $= (2 + 5)^6 + \sqrt{7 + 1 + 1}.$ |
| $117667 := 11 + 7^{\sqrt{6 \times 6}} + 7$ | $= 7^{\sqrt{6 \times 6}} + 7 + 11.$ |
| $124416 := 12^4 \times (4 + \sqrt{\sqrt{16}})$ | $= 6 \times 144^2 \times 1.$ |
| $131072 := (1 + 3)^{1+0+7} \times 2$ | $= 2^{(7+0-1)\times 3-1}.$ |
| $137799 := (1 + 3^7 \times 7) \times 9 + 9$ | $= (\sqrt{9^9} + 7) \times 7 - 31.$ |
| $137979 := (1 + (3^7 + \sqrt{9}) \times 7) \times 9$ | $= 9 \times (7 \times (\sqrt{9^7} + 3) + 1).$ |
| $143749 := 1 + 4 \times (37 - 4)^{\sqrt{9}}$ | $= (\sqrt{9} \times (4 + 7))^3 \times 4 + 1.$ |
| $147419 := -1 + (4^7 - 4) \times 1 \times 9$ | $= 9 \times (1 \times 4^7 - 4) - 1.$ |
| $147429 := 1 + (4^7 - 4/2) \times 9$ | $= 9 \times (2 + 4^7 - 4 - 1).$ |
| $147439 := 1 + (4^7 - \sqrt{4}) \times 3 \times \sqrt{9}$ | $= \sqrt{9} \times 3 \times (4^7 - \sqrt{4}) + 1.$ |
| $147447 := (-1 + 4^7) \times (4 \times 4 - 7)$ | $= (7 + \sqrt{4}) \times (4^7 - \sqrt{4} + 1).$ |
| $147454 := 1 \times 4^7 \times (4 + 5) - \sqrt{4}$ | $= (4 + 5) \times 4^7 - \sqrt{4} \times 1.$ |
| $147456 := 1 \times 4^7 \times (\sqrt{4 + 5} + 6)$ | $= (6 + 54 \times 7)^{\sqrt{4}} \times 1.$ |
| $147474 := (1 \times 4^7 + \sqrt{4}) \times (7 + \sqrt{4})$ | $= (\sqrt{4} + 7) \times (4^7 + \sqrt{4}) \times 1.$ |
| $147491 := 1 \times (4^7 + 4) \times 9 - 1$ | $= 1 \times 9 \times (4^7 + 4) - 1.$ |
| $147493 := 1 + (4^7 + 4) \times \sqrt{9} \times 3$ | $= 3 \times \sqrt{9} \times (4^7 + 4) + 1.$ |
| $147494 := 1 \times (4^7 + 4) \times 9 + \sqrt{4}$ | $= \sqrt{4} + 9 \times (4^7 + 4) \times 1.$ |
| $149769 := (1 - (4 \times 97))^{6/\sqrt{9}}$ | $= (9 \times 6 \times 7 + 9)^{\sqrt{4}} \times 1.$ |
| $156252 := 1 \times 5^6 \times 2 \times 5 + 2$ | $= 2 \times (5^{2\times 6-5} + 1).$ |
| $157464 := (1 + 57 - 4)^{6/\sqrt{4}}$ | $= 4 \times 6 \times (\sqrt{4} + 7)^{5-1}.$ |
| $157469 := 1 \times 5 + ((7 + \sqrt{4}) \times 6)^{\sqrt{9}}$ | $= (9 \times 6)^{-4+7} + 5 \times 1.$ |
| $163296 := (1 + 6) \times 32 \times \sqrt{9^6}$ | $= 6^{\sqrt{9}+2} \times 3 \times (6 + 1).$ |
| $163875 := (16^3 \times 8 + 7) \times 5$ | $= 5 \times (7 + 8^{\sqrt{36}-1}).$ |
| $170471 := 1 \times 7^{04} \times 71$ | $= 1 \times 7^4 \times (0 + 71).$ |
| $177674 := 1 \times 7 \times \sqrt{7^6} \times 74$ | $= (-\sqrt{4} + 76) \times \sqrt{7^{7+1}}.$ |
| $184877 := (-1 + 8)^{-4+8} \times 77$ | $= 7 \times \sqrt{7^8} \times (4 + 8 - 1).$ |
| $185193 := 1 \times ((8 - 5) \times 19)^3$ | $= (3 + 9 \times (1 + 5))^{\sqrt{\sqrt{81}}}.$ |
| $186622 := 1 \times 8 \times 6^6/2 - 2$ | $= 2 \times 2 \times 6^{\sqrt{\sqrt{6^8}}} - 1.$ |
| $186642 := (1 + 8) \times ((6 + 6)^4 + 2)$ | $= 2 \times \sqrt{4} \times 6^6 + \sqrt{81}.$ |
| $186644 := (1 + 8 + 6^6 - 4) \times 4$ | $= 4 \times (-4 + 6^6) - \sqrt{81}.$ |
| $186646 := (-1 + 8 + 6^6) \times 4 - 6$ | $= -6 + 4 \times (6^6 + 8 - 1).$ |
| $186684 := (-1 + 8 + 6^6 + 8) \times 4$ | $= 4 \times (8 + 6^6 + 8 - 1).$ |
| $194479 := (19 + \sqrt{4})^4 + 7 - 9$ | $= (\sqrt{9} \times 7)^{\sqrt{4\times 4}} - \sqrt{9} + 1.$ |
| $194497 := (19 + \sqrt{4})^4 + 9 + 7$ | $= (7 \times \sqrt{9})^4 + \sqrt{4} \times (9 - 1).$ |
| $194481 := (1 \times 9 - \sqrt{4})^4 \times 81$ | $= 1 \times (84/4)^{\sqrt{9}+1}.$ |

$194672 := (-1+\sqrt{9}) \times 46^{\sqrt{7+2}} = 2 \times (7 \times 6 + 4)^{\sqrt{9}} \times 1.$

$195113 := 1 + (\sqrt{9} + 5 \times 11)^3 = (3 + 11 \times 5)^{\sqrt{9}} + 1.$

$199955 := (1+9) \times \sqrt{9^9} + 5^5 = 5^5 + \sqrt{9^9} \times (9+1).$

$209952 := (2 \times (0-9))^{9-5} \times 2 = 2^5 \times (-9+90)^2.$

$215995 := -2 + (1+59)^{\sqrt{9}} - 5 = -5 + ((9+\sqrt{9}) \times 5)^{1+2}.$

$225792 := 2 \times (2 + 5 - 7^{\sqrt{9}})^2 = 2^9 \times (7 \times (5-2))^2.$

$227529 := (22 \times 7 + 5)^2 \times 9 = (9^2 \times 5 + 72)^2.$

$228484 := ((2-28)^4 - 8)/\sqrt{4} = (4 - 8 + 482)^2.$

$229374 := 2^{2 \times 9 - 3} \times 7 - \sqrt{4} = 4^7 \times (3 + 9 + 2) - 2.$

$232324 := (2 - 3^{2+3})^2 \times 4 = 4 \times (2 - 3^{2+3})^2.$

$233255 := ((2 \times 3)^{3 \times 2} - 5) \times 5 = 5 \times (-5 + (2 \times 3)^{3 \times 2}).$

$233295 := ((2 \times 3)^{3 \times 2} + \sqrt{9}) \times 5 = 5 \times (\sqrt{9} + (2 \times 3)^{3 \times 2}).$

$234365 := (-2 + 3 \times (\sqrt{4}+3)^6) \times 5 = (5^6 \times 3 - \sqrt{4}) \times (3+2).$

$235292 := 2 \times (-3 + (5+2)^{\sqrt{9} \times 2} = 2 \times (-\sqrt{9} + (2+5)^{3 \times 2}).$

$235298 := 2 \times (-3+52)^{\sqrt{\sqrt{\sqrt{\sqrt{9^8}}}}} = (8 + 9 + 2^5)^3 \times 2.$

$236194 := -2 + 36 \times 1 \times 9^4 = 4 \times 9^{\sqrt{\sqrt{16}+3}} - 2.$

$238328 := (23+8)^{\sqrt{3^2}} \times 8 = 8 \times (23+8)^{\sqrt{3^2}}.$

$239432 := 2 \times (3 + (9 - \sqrt{4})^3)^2 = 2 \times (349 - 3)^2.$

$242064 := ((2 + 4 \times 20) \times 6)^{\sqrt{4}} = 4^6 \times (61 - 4/2).$

$255894 := -2 \times 5^5 + 8^{\sqrt{9 \times 4}} = (\sqrt{4}^{9+8} - 5^5) \times 2.$

$258064 := (-2 + (5+80) \times 6)^{\sqrt{4}} = (\sqrt{4} + 6 \times (0 - 85))^2.$

$262136 := -2 - 6 + 2^{1 \times 3 \times 6} = -6 + ((3+1) \times 2)^6 - 2.$

$262137 := (2+62)^{1 \times 3} - 7 = -7 + ((3+1) \times 2)^{\sqrt{6^2}}.$

$262139 := -2 - 6/2 + (1+3)^9 = -\sqrt{9} + ((3+1) \times 2)^6 - 2.$

$262141 := -1 + (-4+12)^6 - 2 = 2^{6 \times (2+1)} - 4 + 1.$

$262142 := 2^{6 \times (2+1)} - 4 + 2 = (2 \times 4)^{12-6} - 2.$

$262146 := 2^{6 \times (2+1)} - 4 + 6 = \sqrt{64^{12-6}} + 2.$

$262148 := 2^{6 \times (2+1)} - 4 + 8 = 8^{(4-1) \times 2} + 6 - 2.$

$262149 := 2^{6 \times (2+1)} - 4 + 9 = \sqrt{9} + (4 \times 1 \times 2)^6 + 2.$

$268322 := -2 + (6 + 8^3)^{\sqrt{2^2}} = -2 + (2 \times 3 + \sqrt{8^6})^2.$

$268324 := (2 \times (6 + 8^3))^2/4 = (\sqrt{4} + 2 \times 3 \times 86)^2.$

$272484 := 2 \times (7 - 2 + \sqrt{4^8})^{\sqrt{4}} = (\sqrt{4} + 8 + 4 \times 2^7)^2.$

$279666 := ((2-7) \times 9 + 6^6) \times 6 = 6 \times (6^6 - 9 \times (7-2)).$

$279928 := -8 + (\sqrt{2 \times (9+9)})^{\sqrt{7^2}} = \sqrt{(27+9)^{9-2}} - 8.$

$279997 := -2 + 7 \times 9 + (9 - \sqrt{9})^7 = 7 \times 9 + (9 - \sqrt{9})^7 - 2.$

$287496 := ((2+8) \times 7 - 4)^{9-6} = (6 \times (9 + \sqrt{4}))^{7 - 8/2}.$

$289444 := ((2^8 + 9 + 4)^{\sqrt{4}}) \times 4 = (\sqrt{4} \times (4^4 + 9) + 8)^2.$

$293764 := (2 + 9 \times (3+7) \times 6)^{\sqrt{4}} = (\sqrt{4} + 6 \times (7+3) \times 9)^2.$

$294847 := -2 + 9 \times (4^8/\sqrt{4} - 7) = (-7 + 4^8/\sqrt{4}) \times 9 - 2.$

$294849 := (2 - 9 + 4^8/\sqrt{4}) \times 9 = 9 \times (4^8/\sqrt{4} - 9 + 2).$

$294892 := -2 + 9 \times ((4 \times 8)^{\sqrt{9}} - 2) = -2 + 9 \times (8^{-4+9} - 2).$

$294912 := 2 \times 9 \times 4^{9 - 1 \times 2} = (2 \times (-1+9))^4 \times 9/2.$

$294914 := 2 + 9 \times 4^{9-1}/\sqrt{4} = \sqrt{4^{19-4}} \times 9 + 2.$

$294928 := 2 \times (9 \times 4^{9-2} + 8) = 8 \times ((2^{\sqrt{9}})^4 \times 9 + 2).$

$294965 := -5 \times ((6 - 9^4) \times 9 + 2) = -(29 \times \sqrt{4} - 9^5) \times 5.$

$295235 := (-2 + 9^5) \times (-2+3) \times 5 = 5 \times (3 \times (-2+5)^9 - 2).$

$295243 := -2 + 9^5 \times (2 \times 4 - 3) = 3^{4 \times 2} \times 5 \times 9 - 2.$

$295245 := (2 + 9^5 + 2 - 4) \times 5 = 5 \times ((\sqrt{4} + 25) \times 9)^2.$

$296344 := (((-2+9) \times 6)^3 - \sqrt{4}) \times 4 = 4 \times (((4+3) \times 6)^{\sqrt{9}} - 2).$

$311469 := 3 \times (1 + 1 \times 46)^{\sqrt{9}} = \sqrt{9} \times (6 + 41 \times 1)^3.$

$314431 := ((3+14) \times 4)^3 - 1 = -1 + (34 \times \sqrt{4})^{1 \times 3}.$

$314432 := (23 + 4 + 41)^3 = ((3+14) \times 4)^{\sqrt{3^2}}.$

$314434 := ((3+14) \times 4)^3 + \sqrt{4} = \sqrt{4} + (34 \times \sqrt{4})^{1 \times 3}.$

$314928 := \sqrt{3^1 4} \times 9 \times 2 \times 8 = 8 \times 2 \times (9^4 \times 1 \times 3).$

$314931 := (((1-3) \times 9)^4 + 1) \times 3 = 3 \times (1 + (\sqrt{4} \times 9)^{3+1}).$

$314946 := (6 + (\sqrt{4} \times 9)^4) \times 1 \times 3 = 3 \times 1 \times ((\sqrt{4} \times 9)^4 + 6).$

$326557 := (3 \times 2 \times 6^5 - 5) \times 7 = 7 \times (-\sqrt{5 \times 5} + 6^{2 \times 3}).$

$326634 := (3 \times 2 + 6^6) \times (3+4) = (4+3) \times (6 + (6^{2 \times 3})).$

$326697 := ((3 \times 2)^6 + 6 + 9) \times 7 = 7 \times (9 + 6 + 6^{2 \times 3}).$

$331773 := -3 + (31-7)^{7-3} = 3 \times (7 \times 7 - 1)^3 - 3.$

$331779 := 3 + (31-7)^{\sqrt{7+9}} = \sqrt{9} + (7 \times 7 - 1)^3 \times 3.$

$342995 := (3^4 - 2 - 9)^{\sqrt{9}} - 5 = -5 + (-9 + 9^2 - \sqrt{4})^3.$

$352964 := 3 \times (5 + (2-9)^6) + \sqrt{4} = (4 + 7^{\sqrt{9} \times 2} + 5) \times 3.$

$354276 := (-3 + (5+4)^{-2+7}) \times 6 = 6 \times ((7 - 2 + 4)^5 - 3).$

$354375 := (3 \times 5)^4 \times (\sqrt{-3+7} + 5) = 5 \times 7 \times 3^4 \times 5^3.$

$389344 := (3+89)^3 \times \sqrt{4}/4 = 4 \times (\sqrt{4} \times 3 \times 9 - 8)^3.$

$393645 := (-3 + (\sqrt{9^{3+6}} \times 4)) \times 5 = 5 \times (4 \times (6-3)^9 - 3).$

$411772 := (\sqrt{4} - 1) \times (1 + 7^7)/2 = 2 \times (7^7 + 1)/(1 \times 4).$

$411774 := \sqrt{4} \times (1 + (1 + 7^7)/4) = (4 + 7^7 + 1 \times 1)/\sqrt{4}.$

$419904 := 4 \times 1 \times (9+9)^{0+4} = (4+0) \times (9+9)^{1 \times 4}.$

$425984 := (4 \times 2)^5 \times (9 + 8 - 4) = 4 \times 8^{\sqrt{9}} \times 52 \times 4.$

$432964 := 4 \times 329^{6-4} = (4 + (6^{\sqrt{9}} + 2) \times 3)^{\sqrt{4}}.$

$437656 := 4 \times (-3 + 7 \times (6 + 5^6)) = ((6 + 5^6) \times 7 - 3) \times 4.$

$438244 := 4 \times (3 + 82 \times 4)^{\sqrt{4}} = (\sqrt{4} - 4 \times 2 \times 83)^{\sqrt{4}}.$

$438983 := 4 + 38^{\sqrt{9}} \times 8 + 3 = 38^{\sqrt{9}} \times 8 + 3 + 4.$

$451584 := (4 - 51 - \sqrt{5^8})^{\sqrt{4}} = ((4+8) \times (51+5))^{\sqrt{4}}.$

$455625 := \sqrt{(45 \times 5)^6}/25 = (5 \times (2 \times 65 + 5))^{\sqrt{4}}.$

$458748 := -\sqrt{4^5}/8 + 7 \times 4^8 = 8/4 \times 7 \times 8^5 - 4.$

$466495 := (\sqrt{4} \times 6^6 - 4 - 9) \times 5 = 5 \times (-9 - 4 + 6^6 \times \sqrt{4}).$

$466515 := (\sqrt{4} \times (6^6 - 5) + 1) \times 5 = 5 \times (1 + (-5 + 6^6) \times \sqrt{4}).$

$466534 := ((-\sqrt{4} + 6^6) \times 5 - 3) \times \sqrt{4} = \sqrt{4} \times (-3 + 5 \times (6^6 - \sqrt{4})).$

$466538 := \sqrt{4} \times (6^6 \times 5 - 3 - 8) = (-8 - 3 + 5 \times 6^6) \times \sqrt{4}.$

$466575 := (\sqrt{4} \times (6^6 + 5) - 7) \times 5 = 5 \times (-7 + (5 + 6^6) \times \sqrt{4}).$

$466585 := (\sqrt{4} \times 6^6 + \sqrt{\sqrt{\sqrt{5^8}}}) \times 5 = \sqrt{\sqrt{5^8}} + (5 \times 6^6) \times \sqrt{4}.$

$466595 := (\sqrt{4} \times (6^6 + 5) - \sqrt{9}) \times 5 = 5 \times (-\sqrt{9} + (5 + 6^6) \times \sqrt{4}).$

$466615 := (\sqrt{4} \times (6 + 6^6) - 1) \times 5 = 5 \times (-1 + (6 + 6^6) \times \sqrt{4}).$

$466635 := (\sqrt{4} \times (6 + 6^6) + 3) \times 5 = 5 \times (3 + (6 + 6^6) \times \sqrt{4}).$

$472386 := (\sqrt{4} + 7)^{2+3} \times 8 - 6 = -6 + 8 \times 3^{2 \times 7 - 4}.$

$472389 := (\sqrt{4} + 7)^{2+3} \times 8 - \sqrt{9} = -\sqrt{9} + 8 \times 3^{2 \times 7 - 4}.$

$472392 := (4 + 7 \times 2)^3 \times 9^2 = 2 \times 9^{\sqrt{32-7}} \times 4.$

$473344 := (4+7^3-3)^{\sqrt{4}} \times 4 = (4 \times 43 \times (3-7))^{\sqrt{4}}.$

$493832 := \sqrt{4}+9 \times (38^3-2) = (-2+38^3) \times 9 + \sqrt{4}.$

$493834 := 4+9 \times (38^3-\sqrt{4}) = (-\sqrt{4}+38^3) \times 9 + 4.$

$493837 := -4+9 \times 38^3 - 7 = -7+38^3 \times 9 - 4.$

$493838 := -\sqrt{4}+9 \times 38^3 - 8 = (-8+38^3 \times 9) - \sqrt{4}.$

$493839 := (-4+\sqrt{9}+38^3) \times 9 = 9 \times (38^3 - \sqrt{9} + \sqrt{4}).$

$493852 := 4+9 \times 38^{5-2} = (-2+5 \times 8)^3 \times 9 + 4.$

$497662 := (-4+9+7)^6/6 - 2 = 2^6 \times \sqrt{6^{(7+\sqrt{9})}} - \sqrt{4}.$

$524278 := -5 \times 2 + \sqrt{4^{27-8}} = 8^7/\sqrt{2^4} - 2 \times 5.$

$524282 := 2 \times (8^{2+4}+2-5) = -5+(-2+4^{2+8})/2.$

$524294 := (5-2+\sqrt{4^{2\times 9}}) \times \sqrt{4} = 4^9 \times 2 - 4 + 2 \times 5.$

$524298 := 5 \times 2 + 4 \times 2^{9+8} = 8^{9-2}/4 + 2 \times 5.$

$524488 := (5^{-2+4}+4^8) \times 8 = 8 \times ((8 \times \sqrt{4})^4 + 25).$

$529984 := (52 \times (9-\sqrt{9}+8))^{\sqrt{4}} = (4+8^3) \times (8/2)^5.$

$531433 := -5+3^{1\times 4\times 3} - 3 = 3^{3\times 4} - 13 + 5.$

$531434 := -5+3^{1\times 4\times 3} - \sqrt{4} = -\sqrt{4}+3^{4\times 1\times 3} - 5.$

$583443 := (3+4)^4 \times \sqrt{\sqrt{\sqrt{3^{8\times 5}}}} = (5+8-34)^4 \times 3.$

$588245 := (5+\sqrt{\sqrt{8+8}})^{2+4} \times 5 = (5+\sqrt{4})^{\sqrt{28+8}} \times 5.$

$589829 := 5+8^{-\sqrt{9}+8} \times 2 \times 9 = 9 \times 2^{8\times\sqrt{9}-8} + 5.$

$589864 := 5 \times 8 + 9 \times 8^6/4 = (\sqrt{4}-6)^8 \times 9 + 8 \times 5.$

$592699 := -5+(9^2-6+9)^{\sqrt{9}} = (9 \times 9 + 6/2)^{\sqrt{9}} - 5.$

$597878 := 5+(9^7+8+7)/8 = (8+\sqrt{25}) \times 6^{06}.$

$614648 := ((6+1) \times 4)^{6-\sqrt{4}} - 8 = -8+(4 \times 6 + 4)^{\sqrt{16}}.$

$629984 := (6-2+\sqrt{9^9}) \times 8 \times 4 = 4 \times 8 \times (\sqrt{9^9} - 2 + 6).$

$640024 := (6+400^2) \times 4 = 4 \times (20^{0+4}+6).$

$649545 := 6+(\sqrt{4}+9) \times (5+4)^5 = (5+4)^5 \times (9+\sqrt{4}) + 6.$

$655354 := -6+5 \times (5+3)^5 \times 4 = 4^{5+3} \times (5+5) - 6.$

$656187 := (6 \times 5^6 - 1 - 8) \times 7 = 7 \times (-\sqrt{81} + 6 \times 5^6).$

$656376 := (6+5^6-3) \times 7 \times 6 = 6 \times 7 \times (-3+6+5^6).$

$663552 := 6 \times (6 \times (3+5))^{5-2} = 2^{5+5} \times 3 \times \sqrt{6^6}.$

$684288 := \sqrt{6^8} \times (4+2) \times 88 = 88 \times \sqrt{(2+4)^8} \times 6.$

$685464 := 6 \times (8+5)^4 \times (6-\sqrt{4}) = 4 \times \sqrt{(\sqrt{64}+5)^8} \times 6.$

$699735 := (6^{9-\sqrt{9}} - 7) \times 3 \times 5 = 5 \times 3 \times (-7+(9-\sqrt{9})^6).$

$728995 := (\sqrt{\sqrt{(7+2)^8}} + 9)^{\sqrt{9}} - 5 = (5 \times 9)^{\sqrt{9}} \times 8 + 2 - 7.$

$729009 := 7+2+90^{\sqrt{09}} = 90^{\sqrt{09}} + 2 + 7.$

$746489 := -7+\sqrt{4} \times (64+8)^{\sqrt{9}} = 9 \times \sqrt{8^4} \times 6^4 - 7.$

$751599 := (7+(5-1)^5) \times 9^{\sqrt{9}} = (9^{\sqrt{9}}) \times ((5-1)^5 + 7).$

$759359 := -7+(5 \times 9/3)^5 - 9 = -9+(5 \times \sqrt{3 \times \sqrt{9}})^5 - 7.$

$759368 := -7+(5 \times \sqrt{9})^{3-6+8} = ((8-6) \times 3 + 9)^5 - 7.$

$759375 := (-7+59-37)^5 = (5+7+3)^{\sqrt{9}-5+7}.$

$759381 := 7+(5 \times \sqrt{9})^{-3+8} - 1 = -1+(8 \times 3 - 9)^5 + 7.$

$759382 := 7+(5 \times \sqrt{9})^{3+\sqrt{8/2}} = \sqrt{((28-3) \times 9)^5} + 7.$

$759384 := 7+(5 \times \sqrt{9})^{-3+8} + \sqrt{4} = \sqrt{4}+(8 \times 3 - 9)^5 + 7.$

$765625 := \sqrt{7^6} \times 5^6/(2+5) = \sqrt{5^{2\times 6}} \times (56-7).$

$765667 := 7 \times (6+(5^{\sqrt{6\times 6}}) \times 7) = 7 \times (\sqrt{6 \times 6} + 5^6 \times 7).$

$776887 := 7^7 - 6^{-8/8+7} = -(7-8/8)^6 + 7^7.$

$786429 := (7+8^6-4 \times 2) \times \sqrt{9} = \sqrt{9} \times ((2 \times 4)^6 - 8 + 7).$

$786439 := 7+(8 \times 6 \times 4)^3/9 = (9+3) \times (\sqrt{4}-6)^8 + 7.$

$786449 := -7+(8^6+4+4) \times \sqrt{9} = \sqrt{9} \times ((4+4)^6 + 8) - 7.$

$786463 := 3 \times (\sqrt{64^6}+8) + 7 = 7+(8^6+\sqrt{4}+6) \times 3.$

$823477 := -(8/2)^3 - \sqrt{4} + 7^7 = 7^7 - 4^3 - \sqrt{\sqrt{2 \times 8}}.$

$823527 := -8-2^3+(5+2)^7 = 7^{2+5} - \sqrt{32 \times 8}.$

$823547 := 7^{\sqrt{4}+5} + 32/8 = \sqrt{8+2^3} + (5+\sqrt{4})^7.$

$839784 := -(\sqrt{4}-8)^7 \times \sqrt{9} - 3 \times 8 = 8 \times (-3+(\sqrt{9}+7+8)^4).$

$839816 := (8+(3-9)^8)/\sqrt{\sqrt{16}} = 6^{1+8}/(9+3) + 8.$

$851942 := (-2+4^{9-1}) \times (5+8) = (8^5-1) \times (9+4) \times 2.$

$851968 := (8+5) \times (1+9-6)^8 = 8^6 \times \sqrt{9} + (-1+5)^8.$

$884736 := 8 \times 8^4 \times (7 \times 3 + 6) = (-6+3 \times 74) \times \sqrt{8^8}.$

$917494 := -9-1+7 \times 4^9/\sqrt{4} = 4^9/\sqrt{4} \times 7 - 1 - 9.$

$937577 := (9+3) \times (7+5^7) - 7 = 77 + 5^7 \times (3+9).$

$944847 := 9 \times ((\sqrt{4}+(\sqrt{4} \times 8))^4 + 7) = (7+(\sqrt{4}+8 \times \sqrt{4})^4) \times 9.$

$958464 := 9 \times (5+8) \times 4^6 \times \sqrt{4} = 4^6 \times \sqrt{4} \times (8+5) \times 9.$

$979766 := -\sqrt{9}-7+\sqrt{9} \times 7 \times 6^6 = 6^6 \times 7 \times \sqrt{9} - 7 - \sqrt{9}.$

$995364 := ((9+\sqrt{9})^5+3+6) \times 4 = (4+(6 \times (3+5))^{\sqrt{9}}) \times 9.$

$999919 := -9 \times 9 + (9+91)^{\sqrt{9}} = (91+9)^{\sqrt{9}} - 9 \times 9.$

## 5.2 Selfie Representations in Order of Digits

$102487 := \sqrt{(10+2/\sqrt{4})^8} \times 7.$

$103823 := (-1+03 \times 8 \times 2)^3.$

$104964 := -10-\sqrt{4}+(\sqrt{9} \times 6)^4.$

$104976 := (10-\sqrt{4}) \times \sqrt{9^7} \times 6.$

$106929 := (106+\sqrt{9})^2 \times 9.$

$114244 := ((-1+14) \times 2)^4/4.$

$114677 := -11-(\sqrt{4}-6)^7 \times 7.$

$114687 := -1 \times 1 + \sqrt{4^{6+8}} \times 7.$

$114950 := \sqrt{11^4} \times 950.$

$116964 := (116 \times \sqrt{9} - 6)^{\sqrt{4}}.$

$117128 := 11^{7-1-2} \times 8.$

$117396 := (-117+3^9) \times 6.$

$117476 := 1-174+7^6.$

$117571 := (-11+7^5) \times 7 - 1.$

$117572 := -(11-7^5) \times \sqrt{7^2}.$

$117574 := (-11+7^5) \times 7 + \sqrt{4}.$

$117576 := 1+1-75+7^6.$

$117587 := 1+(-1+7^5-8) \times 7.$

$117597 := 11+(7^5-9) \times 7.$

$117619 := -11+7^6-19.$

$117624 := -1+1 \times 7^6 - 24.$

$117625 := 1+1 \times 7^6 - 25.$

$117626 := -11+7^6-2 \times 6.$

$117628 := -11+7^6-2-8.$

$117629 := -11-1+7^6-2 \times 9.$

$117630 := 11+7^6-30.$

$117632 := -11+7^6-3 \times 2.$

$117633 := 11+7^6-3^3.$

$117635 := 1+1 \times 7^6 - 3 \times 5.$

$117637 := -1-1+7^6-3-7.$

$117638 := 1 \times 1 \times 7^6 - 3 - 8.$

$117639 := 1+1+7^6-3-9.$

$117640 := -11 + 7^6 + \sqrt{4} + 0.$
$117641 := -11 + 7^6 + 4 - 1.$
$117642 := 1 + 1 \times 7^6 - 4 \times 2.$
$117644 := 11 + 7^6 - 4 \times 4.$
$117646 := 1 + 1 \times 7^6 + \sqrt{4} - 6.$
$117648 := 11 + 7^6 - 4 - 8.$
$117650 := 1 + 1 \times 7^6 + 5 \times 0.$
$117651 := -1 - 1 + 7^6 + 5 - 1.$
$117653 := 1 + 1 + 7^6 + 5 - 3.$
$117655 := (1 + (1 + 7^6)/5) \times 5.$
$117659 := 1 + 1 + 7^6 + 5 + \sqrt{9}.$
$117660 := 11 + 7^6 + 6 \times 0.$
$117661 := 11 + 7^{\sqrt{6 \times 6}} + 1.$
$117662 := 1 + 1 \times 7^6 + 6 \times 2.$
$117663 := 11 + 7^6 + 6 - 3.$
$117664 := 11 + 7^6 + 6 - \sqrt{4}.$
$117665 := 11 + 7^{\sqrt{6 \times 6}} + 5.$
$117666 := 11 + 7^6 + \sqrt{6 \times 6}.$
$117668 := 11 + 7^{\sqrt{6 \times 6}} + 8.$
$117669 := 11 + 7^6 + 6 + \sqrt{9}.$
$117674 := 11 + 7^6 + 7 \times \sqrt{4}.$
$117676 := \sqrt{\sqrt{(1 + 1 + 7)^6}} + 7^6.$
$117686 := -11 + 7^6 + 8 \times 6.$
$117695 := 1 + 1 \times 7^6 + 9 \times 5.$
$117726 := 11 \times 7 + \sqrt{7^{2 \times 6}}.$
$117763 := 117 + 7^6 - 3.$
$117764 := 117 + 7^6 - \sqrt{4}.$
$117766 := 117 + 7^{\sqrt{6 \times 6}}.$
$117769 := 117 + 7^6 + \sqrt{9}.$
$117777 := (1 + 1)^7 + 7^7/7.$
$117996 := 1 \times (-17 + \sqrt{9^9}) \times 6.$
$118098 := 1 \times 18 \times \sqrt{0 + 9^8}.$
$118328 := (1 + (-1 + 8)^3)^2 - 8.$
$124386 := (12^4 + 3 - 8) \times 6.$
$124413 := (12^4 \times \sqrt{4} - 1) \times 3.$
$124419 := (12^4 \times \sqrt{4} + 1) \times \sqrt{9}.$
$124428 := (12^4 + \sqrt{4}) \times (-2 + 8).$
$124852 := \sqrt{(1 - 2 \times 4)^8} \times 52.$
$124856 := -\sqrt{12^4} + 8 \times 5^6.$
$124995 := (1^2 + 49)^{\sqrt{9}} - 5.$
$124999 := -1 + (-2 + 49 + \sqrt{9})^{\sqrt{9}}.$
$125003 := 1 + 2 + 50^{0+3}.$
$125012 := 12 + 50^{1+2}.$
$128500 := (1 + 2^8) \times 500.$
$129283 := (-1 + 2^9) \times (2^8 - 3).$
$129375 := (12^{\sqrt{9}} - 3) \times 75.$
$131071 := (-1 + 3)^{10+7} - 1.$
$131074 := (-1 + 3)^{10+7} + \sqrt{4}.$
$132519 := -132 + 51^{\sqrt{9}}.$
$134456 := 1 \times (3 + 4)^4 \times 56.$
$136162 := 1 + (3 + 61 \times 6)^2.$
$136462 := (\sqrt{13^6} + 4) \times 62.$
$136857 := \sqrt{(13 - 6)^8} \times 57.$
$137718 := (-1 + 3^7) \times (71 - 8).$
$137772 := (-1 + 3^7 \times 7) \times (7 + 2).$
$137781 := 1 \times 3^7 \times 7 \times \sqrt{81}.$
$137839 := -1 + 3 + 7 \times (8 + 3^9).$
$137948 := -1 + 3 \times 7 \times (9^4 + 8).$
$138915 := (13 + 8)^{\sqrt{9}} \times 15.$
$139953 := (((1 + 3) \times 9)^{\sqrt{9}} - 5) \times 3.$
$139965 := -1 \times 3 + (9 + 9) \times 6^5.$
$139972 := 1 + 3 + (9 - \sqrt{9})^7/2.$
$146410 := (1 + 4 + 6)^4 \times 10.$
$146411 := 11^4 \times (6 + 4) + 1.$
$146461 := (1^4 + 6)^4 \times 61.$
$147249 := (1 + 4^7 - 24) \times 9.$
$147349 := 1 + (4^7 - 3 \times 4) \times 9.$
$147438 := 1 \times (4^7 - \sqrt{4}) \times \sqrt{\sqrt{3^8}}.$
$147453 := 1 \times 4^7 \times (4 + 5) - 3.$
$147455 := -1 + 4^7 \times 45/5.$
$147459 := 1 \times 4^7 \times (4 + 5) + \sqrt{9}.$
$147465 := (1 + 4^7) \times (-\sqrt{4} + 6 + 5).$
$147492 := 1 \times (4^7 + 4) \times \sqrt{9^2}.$
$147519 := (1 + 4^7 + 5 + 1) \times 9.$
$148862 := \sqrt{\sqrt{(1 + 48)^8}} \times 62.$
$148945 := ((-1 + 4 \times 8)^{\sqrt{9}} + \sqrt{4}) \times 5.$
$148955 := (-1 + 4 \times 8)^{\sqrt{9}} \times \sqrt{5 \times 5}.$
$149797 := 1 \times (4^{\sqrt{9}+7} + \sqrt{9})/7.$
$151875 := 15^{\sqrt{(18+7)/5}}.$
$155520 := (1^5 + 5)^5 \times 20.$
$155850 := 1 \times (5^5 - 8) \times 50.$
$156225 := (-1 + (5^6 - 2) \times 2) \times 5.$
$156235 := 1 \times (5^6 \times 2 - 3) \times 5.$
$156245 := (-1 + 5^6 \times (-2 + 4)) \times 5.$
$156249 := -1 + 5^6 \times 2 \times (-4 + 9).$
$156275 := ((-1 + 5^6) \times 2 + 7) \times 5.$
$156285 := (-1 + 5^6 \times 2 + 8) \times 5.$
$156295 := (1 \times 5^6 \times 2 + 9) \times 5.$
$157459 := -1 \times 5 + (\sqrt{7^4} + 5)^{\sqrt{9}}.$
$157463 := -1 + ((5 + 7) \times 4 + 6)^3.$
$157479 := 15 + (7 + 47)^{\sqrt{9}}.$
$158466 := (15 - 8)^4 \times 66.$
$158499 := (1 + \sqrt{(5 \times 8)^4}) \times 99.$
$159744 := (-1 + 5^{\sqrt{9+7}}) \times 4^4.$
$161051 := (1^6 + 10)^5 \times 1.$
$161999 := -1 + 6 \times ((1 + 9) \times \sqrt{9})^{\sqrt{9}}.$
$163297 := 1 + 6^{3+2} \times \sqrt{9} \times 7.$
$163825 := (-1 + 6) \times (-3 + 8^{\sqrt{25}}).$
$163835 := (-1 + (-6 + 38)^3) \times 5.$
$163840 := \sqrt{\sqrt{(1 + 63)^8}} \times 40.$
$163855 := 1 \times (6 - 3 + 8^5) \times 5.$
$163885 := (-1 + 6) \times (\sqrt{\sqrt{3^8}} + 8^5).$
$164592 := 1 \times 6^4 \times (5^{\sqrt{9}} + 2).$
$165884 := \sqrt{(1 + 6 + 5)^8} \times 8 - 4.$
$165888 := \sqrt{(\sqrt{16} \times (5 - 8))^8} \times 8.$
$165889 := 1 + 6^5 \times 8 \times 8/\sqrt{9}.$
$166464 := ((\sqrt{16} + 64) \times 6)^{\sqrt{4}}.$
$166698 := \sqrt{(1 + 6)^6} \times 6 \times \sqrt{\sqrt{9^8}}.$
$167286 := (167^2 - 8) \times 6.$
$167961 := (-1 + 6^7) \times \sqrt{9}/(6 - 1).$
$168070 := \sqrt{(1 + 6)^8} \times (0 + 70).$
$169744 := 1 \times ((6 + 97) \times 4)^{\sqrt{4}}.$
$172872 := 1 \times 7^{\sqrt{2 \times 8}} \times 72.$
$175232 := (-1 + 75)^2 \times 32.$
$175274 := 1 + (75 - 2) \times 7^4.$
$175446 := \sqrt{(175 - 4)^4} \times 6.$
$175609 := -1 \times 7 + 56^{\sqrt{09}}.$
$175623 := 1 \times 7 + \sqrt{56^{2 \times 3}}.$
$175633 := 17 + 56^{\sqrt{3 \times 3}}.$
$176129 := 1 + (\sqrt{7^6} + 1) \times 2^9.$
$176466 := (-1 + 7^6)/4 \times 6 - 6.$
$176469 := (-1 + 7^6)/4 \times 6 - \sqrt{9}.$
$176472 := (-1 + 7^6) \times (-4 + 7)/2.$
$176474 := (1 + 7^6 \times (-4 + 7))/\sqrt{4}.$
$176499 := ((-1 + 7^6)/\sqrt{4} - 9) \times \sqrt{9}.$
$176868 := \sqrt{17^{\sqrt{\sqrt{6^8}}}} \times \sqrt{\sqrt{6^8}}.$
$179469 := (17 \times \sqrt{9})^{\sqrt{4}} \times 69.$
$181447 := (1 - 81 \times \sqrt{4})^{\sqrt{4}} \times 7.$
$182476 := (1 + 8 - 2)^4 \times 76.$
$184275 := (-1 + 8^4) \times (2 + 7) \times 5.$
$184325 := (1 + 8^4 \times 3^2) \times 5.$
$184329 := (1 + 8^4 \times (3 + 2)) \times 9.$
$184335 := (1 + 8^4 \times 3) \times 3 \times 5.$
$184365 := (1 + 8^4) \times (3 + 6) \times 5.$
$184495 := (-1 + (8^4 + 4) \times 9) \times 5.$
$184545 := 1 \times (8^4 + 5) \times 45.$
$186599 := -1 + 8 \times (6^5 \times \sqrt{9} - \sqrt{9}).$
$186616 := -1 \times 8 + 6^6 \times \sqrt{16}.$
$186641 := 18 + 6^6 \times 4 - 1.$
$186687 := (1 + 8) \times (\sqrt{(6 + 6)^8} + 7).$
$187278 := ((-1 + 8) \times 7)^2 \times 78.$
$188415 := -1 + \sqrt{8^8} \times (41 + 5).$
$188461 := (1 + \sqrt{8^8}) \times 46 - 1.$
$188462 := (1 + \sqrt{8^8}) \times \sqrt{46^2}.$
$188464 := (1 + \sqrt{8^8}) \times 46 + \sqrt{4}.$

$188646 := (-1+\sqrt{8^8}+6)\times 46.$

$194463 := (19+\sqrt{4})^4-6\times 3.$

$194472 := (19+\sqrt{4})^4-7-2.$

$194474 := (19+\sqrt{4})^4-\sqrt{\sqrt{7^4}}.$

$194634 := (-19+46^3)\times\sqrt{4}.$

$194692 := (1+9+46^{\sqrt{9}})\times 2.$

$195776 := -1+\sqrt{9}+5^7+7^6.$

$196830 := 1\times(9-6)^8\times 30.$

$209944 := 2\times(0+(9+9)^4-4).$

$209946 := 2\times(0+(9+9)^4)-6.$

$209949 := 2\times(0+(9+9)^4)-\sqrt{9}.$

$210125 := (2^10+1)^2/5.$

$215994 := -2+(1+59)^{\sqrt{9}}-4.$

$215996 := -2+(1+59)^{\sqrt{9}}-6.$

$215998 := -2+(1+59)^{\sqrt{\sqrt{\sqrt{\sqrt{9^8}}}}}.$

$215999 := 2+(1+59)^{\sqrt{9}}-\sqrt{9}.$

$216003 := 2+1+60^{0+3}.$

$216021 := 21+60^{2+1}.$

$218491 := (-2+1+8)^4\times 91.$

$218568 := 21\times 8\times(5+\sqrt{6^8}).$

$218756 := 2\times(\sqrt{1+8}+7\times 5^6).$

$226979 := -2+(-2+(6+\sqrt{9})\times 7)^{\sqrt{9}}.$

$226981 := (2\times 26+9)^{\sqrt{\sqrt{81}}}.$

$226983 := \sqrt{2^2}+(69-8)^3.$

$228488 := \sqrt{((-2+28)/\sqrt{4})^8}\times 8.$

$229373 := 2^{2\times 9-3}\times 7-3.$

$229378 := 2+2^{9+3}\times 7\times 8.$

$229379 := 2^{2\times 9-3}\times 7+\sqrt{9}.$

$229397 := (2^{2\times 9-3}+\sqrt{9})\times 7.$

$232897 := \sqrt{(2-3^2)^8}\times 97.$

$233280 := (2\times 3^3)^2\times 80.$

$234224 := 2-34+22^4.$

$234248 := (23-\sqrt{4}/2)^4-8.$

$234254 := -2+(34/2+5)^4.$

$234264 := 2^3+(-4+26)^4.$

$234357 := -2\times\sqrt{3^4}+3\times 5^7.$

$234373 := -2+(-3+\sqrt{4^3})^7\times 3.$

$234377 := 2+3\times(4\times 3-7)^7.$

$234579 := (2\times 34+5^7)\times\sqrt{9}.$

$234757 := -2+3\times(\sqrt{4^7}+5^7).$

$235224 := 2\times 3^5\times\sqrt{22^4}.$

$235294 := 2\times(-3+52)^{\sqrt{9}}-4.$

$235296 := -2+(-3+5)\times(-2+9)^6.$

$235768 := 2\times(3^5+7^6-8).$

$235784 := 2\times(3^5+7^{8-\sqrt{4}}).$

$236198 := 2+36\times 1\times\sqrt{9^8}.$

$236268 := (2+3^{6+2})\times\sqrt{\sqrt{6^8}}.$

$236665 := -\sqrt{23^6}+(6+6)^5.$

$236764 := 2\times(3^6+7^6+4).$

$238144 := (2\times 3\times 81+\sqrt{4})^{\sqrt{4}}.$

$238519 := -2+3\times(-8+51)^{\sqrt{9}}.$

$238648 := 23\times(8+6^4\times 8).$

$245760 := (2-4)^{5+7}\times 60.$

$247167 := -2\times 4^7-1+6^7.$

$249318 := (2+(4\times 9))\times(3^{1\times 8}).$

$249856 := 2^4\times(-\sqrt{\sqrt{\sqrt{9^8}}}+5^6).$

$250002 := 2+500^{02}.$

$252928 := 2^{5\times 2}\times(-9+2^8).$

$253135 := (2+(5\times 3)^{1+3})\times 5.$

$255886 := -2\times 5^5-8+8^6.$

$257049 := (2^5+7)^{0+4}/9.$

$259549 := -2595+4^9.$

$261883 := -261+(8\times 8)^3.$

$261949 := -(2^6+1)\times\sqrt{9}+4^9.$

$261982 := \sqrt{(2\times 8)^9}-162.$

$262118 := -26+2^{1\times 18}.$

$262122 := 2^{6\times(2+1)}-22.$

$262128 := 2^{6\times(2+1)}-2\times 8.$

$262154 := 2^{6\times(2+1)}+5\times\sqrt{4}.$

$262156 := 2\times 6+(2\times(1-5))^6.$

$262159 := 2^{6\times(2+1)}+5\times\sqrt{9}.$

$262176 := 2^6/2+(1+7)^6.$

$262186 := \sqrt{-2+6}\times 21+8^6.$

$262196 := 26\times 2+(-1+9)^6.$

$262286 := (2\times 6)^2-2+8^6.$

$262438 := -2+(6^2+4)\times 3^8.$

$263866 := (2\times 6)^3+8^6-6.$

$263869 := (2\times 6)^3+8^6-\sqrt{9}.$

$265617 := -2-6+5^6\times 17.$

$265689 := 2^6+5^6\times(8+9).$

$266565 := (2^{6+6}+5)\times 65.$

$268321 := -2+(6+8^3)^2-1.$

$268323 := 2+(6+8^3)^2-3.$

$268326 := 2+(6+8^3)^{\sqrt{-2+6}}.$

$268329 := 2+(6+8^3)^2+\sqrt{9}.$

$269568 := 26\times(\sqrt{9}+5)\times\sqrt{6^8}.$

$272976 := (-2+7)^{2^{\sqrt{9}}}-7^6.$

$273375 := (2+7)^3\times 375.$

$274623 := -2+(7-4+62)^3.$

$274639 := 2\times 7+(\sqrt{4}+63)^{\sqrt{9}}.$

$274653 := 2\times 7\times\sqrt{4}+65^3.$

$275686 := (2\times 7)^5+6-8^6.$

$278868 := (-2+7+\sqrt{8^8})\times 68.$

$278949 := -2+7^{8-\sqrt{9}}+4^9.$

$279675 := -\sqrt{2^{7+9}}+6^7-5.$

$279814 := -27+(\sqrt{9}\times 8-1)^4.$

$279841 := (2\times 7+9)^{8-4}\times 1.$

$279844 := \sqrt{2+7}+(9-8\times 4)^4.$

$279867 := 2-79+8+6^7.$

$279937 := (2+7)/9+(9-3)^7.$

$279962 := 26+(-\sqrt{9}+9)^{\sqrt{7^2}}.$

$279967 := 279/9+6^7.$

$282240 := (2+82)^2\times 40.$

$286497 := (2^8+6)/\sqrt{4}\times\sqrt{9^7}.$

$287492 := -(2+(8-74)^{\sqrt{9}})-2.$

$287493 := ((2+8)\times 7-4)^{\sqrt{9}}-3.$

$287494 := 2-(8-74)^{\sqrt{9}}-4.$

$287498 := 2+(-8+74)^{\sqrt{\sqrt{\sqrt{\sqrt{9^8}}}}}.$

$287499 := ((2+8)\times 7-4)^{\sqrt{9}}+\sqrt{9}.$

$289536 := 2^8\times(9\times 5^3+6).$

$291602 := 2+(9\times 1\times 60)^2.$

$292820 := (2+9)^{\sqrt{2\times 8}}\times 20.$

$292864 := 2^9\times 286\times\sqrt{4}.$

$294350 := \sqrt{29^4}\times 350.$

$294698 := 2+9\times(4^6-\sqrt{9})\times 8.$

$294778 := 2\times 9\times(4^7-7)-8.$

$294782 := -2+94\times(7\times 8)^2.$

$294784 := 2\times(9\times 4^7-\sqrt{8^4}).$

$294829 := -2-(9-4^8/2)\times 9.$

$294838 := -2+9\times((4\times 8)^3-8).$

$294856 := -2+\sqrt{\sqrt{9^4}}\times(8^5-6).$

$294895 := (2+(9^4-8)\times 9)\times 5.$

$294939 := (2^{9+\sqrt{4\times 9}}+3)\times 9.$

$295195 := (-2+9^5+1-9)\times 5.$

$295198 := -2-9\times 5\times(1-\sqrt{9^8}).$

$295225 := (-2+9^5-2)\times\sqrt{25}.$

$295247 := 2+9^5\times(2-4+7).$

$295255 := (2+9^5)\times 25/5.$

$295265 := -2+(9^{\sqrt{5^2}}+6)\times 5.$

$295285 := 2+(9^5-2+8)\times 5.$

$295295 := (2+9^5+2^{\sqrt{9}})\times 5.$

$295465 := (-2+9^5+46)\times 5.$

$295505 := (2+9^5+50)\times 5.$

$296346 := ((-2+9)\times 6)^3\times 4-6.$

$296349 := ((-2+9)\times 6)^3\times 4-\sqrt{9}.$

$296384 := (((-2+9)\times 6)^3+8)\times 4.$

$297434 := 2+\sqrt{9^7}\times 4\times 34.$

$299575 := (2^9+9)\times 575.$

$299617 := -2+\sqrt{9^9}+6^{1\times 7}.$

$299975 := 2+\sqrt{9}\times(-9+(\sqrt{9}+7)^5).$

$300763 := (3-6+70)^{0+3}.$

$311364 := (31\times 1\times 3\times 6)^{\sqrt{4}}.$

$312325 := 31^2\times 325.$

$314463 := 31+(4+\sqrt{4^6})^3.$

$319488 := (-3+1\times\sqrt{(1\times 9)^4})\times\sqrt{8^8}.$

$325125 := ((3+2)\times 51)^2\times 5.$
$326586 := 3\times(-2+6^5\times(8+6)).$
$326592 := (3\times 2)^6\times(5+9)/2.$
$326617 := 32+(6^6-1)\times 7.$
$327485 := (-2-7+4^8)\times 5.$
$327680 := \sqrt{(3^2+7)^6}\times 80.$
$327695 := (3+2^{7+6+\sqrt{9}})\times 5.$
$328050 := \sqrt{3^{2\times 8}}\times(0+50).$
$328509 := (3+2\times 8+50)^{\sqrt{9}}.$
$331683 := 3\times(-31+(6\times 8)^3).$
$331869 := 3\times(31+(8\times 6)^{\sqrt{9}}).$
$333234 := (3\times 33)^2\times 34.$
$334365 := -\sqrt{3\times 3}+43\times 6^5.$
$334368 := (3+3)\times 43\times\sqrt{6^8}.$
$334611 := 3^{\sqrt{3^4}}\times(6+11).$
$338724 := (3+3+8\times 72)^{\sqrt{4}}.$
$342950 := (3+4^2)^{\sqrt{9}}\times 50.$
$344250 := 3^4\times 4250.$
$344450 := (3^4+\sqrt{4})^{\sqrt{4}}\times 50.$
$345744 := ((3-45)\times 7)^{\sqrt{4}}\times 4.$
$347736 := 3+477\times 3^6.$
$348145 := \sqrt{(3+4)^8}\times 145.$
$349920 := (3\times(\sqrt{4}\times 9)^{\sqrt{9}})\times 20.$
$349965 := (3+\sqrt{4})\times(9+9\times 6^5).$
$351232 := (3+51+2)^3\times 2.$
$352926 := 3\times(-5-2+(9-2)^6).$
$352932 := 3\times(-5+(2-9)^{3\times 2}).$
$352961 := 3\times(5+(2-9)^6)-1.$
$352962 := 3\times(5+(2-9)^{\sqrt{6^2}}).$
$354186 := (3^{5\times\sqrt{4}}-18)\times 6.$
$354246 := (3^{5\times\sqrt{4}}-2\times 4)\times 6.$
$354273 := (3^{5\times\sqrt{4}}\times 2-7)\times 3.$
$354277 := ((3\times 5)^4-2\times 7)\times 7.$
$354282 := (3^{5\times\sqrt{4}}-2)\times(8-2).$
$354287 := 3^{5\times\sqrt{4}}\times(-2+8)-7.$
$354292 := 3^{5+4}\times 2\times 9-2.$
$354329 := 35+\sqrt{4}\times 3^{2+9}.$
$354354 := ((3\times 5)^4-3)\times(5+\sqrt{4}).$
$354486 := (3^{5\times\sqrt{4}}+4\times 8)\times 6.$
$354487 := ((3\times 5)^4+\sqrt{4}\times 8)\times 7.$
$354627 := ((3\times 5)^4+6^2)\times 7.$
$354726 := (3^{5\times\sqrt{4}}+72)\times 6.$
$356445 := (3^5+6\times 4)^{\sqrt{4}}\times 5.$
$357210 := 3^5\times 7\times 210.$
$360855 := (3-6)^{0+8}\times 55.$
$364500 := 3^{\sqrt{\sqrt{6^4}}}\times 500.$
$365471 := \sqrt{36^5}\times 47-1.$
$365472 := \sqrt{36^5}\times\sqrt{47^2}.$
$365474 := \sqrt{36^5}\times 47+\sqrt{4}.$
$366052 := \sqrt{3^6}+605^2.$
$366795 := (-3^6+(6\times 7)^{\sqrt{9}})\times 5.$
$367272 := (3^6\times 7+2)\times 72.$
$368500 := (3^6+8)\times 500.$
$368640 := 3\times 6\times\sqrt{8^6}\times 40.$
$371314 := 3\times 7+13^{1+4}.$
$372573 := 3^7+2\times 57^3.$
$373239 := (-3+73+2)^3-9.$
$374439 := (-3+7^4\times 4)\times 39.$
$374452 := (3\times 7^4-\sqrt{4})\times 52.$
$374529 := 3\times(7^4\times 52-9).$
$374544 := ((37\times 4+5)\times 4)^{\sqrt{4}}.$
$374845 := (37^4+\sqrt{8^4})/5.$
$374850 := \sqrt{(3\times 7)^4}\times 850.$
$375021 := 3\times(7+50^{2+1}).$
$375168 := 3\times(7+5^{1\times 6})\times 8.$
$379793 := (-3+7)^9+7^{9-3}.$
$384750 := \sqrt{3^8}\times 4750.$
$386758 := -3867+5^8.$
$388560 := (3^8-85)\times 60.$
$388993 := -3\times 8+(-8+9\times 9)^3.$
$389342 := ((3+89)^3-4)/2.$
$389893 := (-3+(8-\sqrt{9})^8)-9^3.$
$390358 := 3-90\times 3+5^8.$
$390583 := -39+0+5^8-3.$
$390584 := -39+0+5^8-\sqrt{4}.$
$390589 := -3\times 9+0+5^8-9.$
$390628 := 3+(9+0-6+2)^8.$
$390658 := 39+0-6+5^8.$
$391864 := (-3^9+(-1+8)^6)\times 4.$
$393189 := -3\times(9-(3-1)^{8+9}).$
$393198 := (-3+9)\times(-3+(1+\sqrt{9})^8).$
$393216 := \sqrt{39-3}\times 2^16.$
$393217 := 3/\sqrt{9}+3\times 2^17.$
$393420 := (3^9-3\times 4)\times 20.$
$393660 := 3\times\sqrt{9}\times 3^6\times 60.$
$393720 := (3+9\times 3^7)\times 20.$
$393820 := ((3\times 9)^3+8)\times 20.$
$394384 := (3+\sqrt{(\sqrt{9}-\sqrt{4^3})^8})^{\sqrt{4}}.$
$397535 := (3\times(9+7)-5)^3\times 5.$
$411845 := (41\times(-1+8))^{\sqrt{4}}\times 5.$
$413357 := (\sqrt{4}+1\times(3\times 3)^5)\times 7.$
$413466 := (41^3-4-6)\times 6.$
$413496 := (41^3+4-9)\times 6.$
$413499 := (41^3\times\sqrt{4}-9)\times\sqrt{9}.$
$413518 := 41^3\times(5+1)-8.$
$413526 := 41^{\sqrt{3\times(5-2)}}\times 6.$
$413556 := (41^3+\sqrt{5\times 5})\times 6.$
$417595 := (-\sqrt{4}+17^{-5+9})\times 5.$
$417625 := (4+17^{6-2})\times 5.$
$419888 := (-\sqrt{4}+1\times\sqrt{9^8}\times 8)\times 8.$
$419944 := 4\times(1+9+(9\times\sqrt{4})^4).$
$420175 := (4+20+1)\times 7^5.$
$425958 := (-\sqrt{4}+2^{5\times\sqrt{9}})\times(5+8).$
$437456 := 4\times(3+7\times(-\sqrt{4}+5^6)).$
$437512 := 4\times(3+7\times\sqrt{5^12}).$
$437564 := 4^3+7\times 5^6\times 4.$
$437750 := (4\times 3^7+7)\times 50.$
$438928 := (-4+38^{\sqrt{9}}-2)\times 8.$
$438938 := (\sqrt{4}\times 38)^{\sqrt{9}}-38.$
$438944 := \sqrt{4}\times(38^{\sqrt{9}}-4)\times 4.$
$438948 := 4+(38^{\sqrt{9}}-4)\times 8.$
$438964 := (4\times 38^{\sqrt{9}}-6)\times\sqrt{4}.$
$438965 := (\sqrt{4}\times 38)^{\sqrt{9}}-6-5.$
$438968 := (\sqrt{4}\times 38)^{9-6}-8.$
$438977 := (\sqrt{4}\times 38)^{\sqrt{9}}+7/7.$
$438994 := (4\times 38^{\sqrt{9}}+9)\times\sqrt{4}.$
$438997 := (\sqrt{4}\times 38)^{\sqrt{9}}+\sqrt{9}\times 7.$
$438998 := -\sqrt{4}+(38^{\sqrt{9}}+\sqrt{9})\times 8.$
$441344 := 4\times 431\times 4^4.$
$446148 := (4+\sqrt{4^6})\times(-1+4)^8.$
$453789 := (4+5)\times 3\times 7^{8-\sqrt{9}}.$
$455147 := (-4+(5\times 51)^{\sqrt{4}})\times 7.$
$455593 := -\sqrt{4^5}+5\times(5\times 9)^3.$
$456533 := (4+5+65+3)^3.$
$459270 := ((4+5)\times 9)^2\times 70.$
$459450 := (4^5-\sqrt{9})\times 450.$
$466375 := (\sqrt{4}\times 6^6-37)\times 5.$
$466530 := \sqrt{4}\times 6^6\times 5-30.$
$466536 := (-4+6^6\times 5/3)\times 6.$
$466652 := (46+6^6\times 5)\times 2.$
$466880 := (4+6^6/8)\times 80.$
$466944 := 4^6\times 6\times(\sqrt{9}+4\times 4).$
$469264 := 4^6\times\sqrt{9}+26^4.$
$469732 := 4\times(-6^{\sqrt{9}}+7^{3\times 2}).$
$470576 := 4\times(7\times 0-5+7^6).$
$470596 := 4\times 7^{0\times 59+6}.$
$470604 := (\sqrt{4}+7^{0+6})\times(0+4).$
$470616 := 4\times(7^{0+6}-1+6).$
$470628 := 4\times(7^{\sqrt{0+6^2}}+8).$
$470632 := 4\times(7^{0+6}+3^2).$
$471576 := (471+5^7)\times 6.$
$472364 := 4\times(-7+2\times 3^{6+4}).$
$472384 := -4+72\times 3^8-4.$
$472385 := -\sqrt{4}+72\times 3^8-5.$
$472387 := \sqrt{4}+72\times 3^8-7.$
$472388 := 4+72\times 3^8-8.$

$472394 := \sqrt{4} + 72 \times (3 \times \sqrt{9})^4$.
$472395 := -4 + 7 + 2^3 \times 9^5$.
$472398 := (-4 + 7) \times (2 + 3^9 \times 8)$.
$472439 := 47 + 24 \times 3^9$.
$474546 := (4 + 74)^{\sqrt{5+4}} - 6$.
$474549 := (4 + 74)^{\sqrt{5+4}} - \sqrt{9}$.
$474552 := (4 + 74)^{5/5+2}$.
$475136 := 4^7 \times (5 + (1 + 3) \times 6)$.
$475281 := (4^7 + 5) \times (28 + 1)$.
$476254 := 4 + 762 \times 5^4$.
$483149 := -4 + (8 + 3)^{1+4} \times \sqrt{9}$.
$483153 := (\sqrt{48 \times 3} - 1)^5 \times 3$.
$483159 := (\sqrt{4} + (8 + 3)^{1\times 5}) \times \sqrt{9}$.
$484128 := (48 \times 41)^2/8$.
$491775 := (-4 + \sqrt{9^{1+7}}) \times 75$.
$492205 := 49^2 \times 205$.
$492375 := (4 + \sqrt{9^{2^3}}) \times 75$.
$492802 := -\sqrt{4} + (9 \times (2 - 80))^2$.
$493039 := (49 + 30)^{\sqrt{3\times\sqrt{9}}}$.
$493895 := \sqrt{4} + 9 \times (38^{\sqrt{9}} + 5)$.
$495616 := (4^{\sqrt{9}} \times (5 + 6))^{\sqrt{\sqrt{16}}}$.
$497442 := 4^9 + 7^{4+\sqrt{4}} \times 2$.
$497657 := 4 \times (9 + 7) \times 6^5 - 7$.
$497666 := \sqrt{4} + ((9 - 7) \times 6)^6/6$.
$499280 := (\sqrt{4} - 9 \times 9)^2 \times 80$.
$499755 := (-49 + (\sqrt{9} + 7)^5) \times 5$.
$508276 := 5^{0+8} + 2 + 7^6$.
$511949 := -51 + (-1 + \sqrt{9^4})^{\sqrt{9}}$.
$515816 := -5^{1+5} + \sqrt{81^6}$.
$518400 := \sqrt{(5 + 1)^8} \times 400$.
$523665 := ((5 - 2) \times 3)^6 - 6^5$.
$524088 := (-5^2 + 4^{0+8}) \times 8$.
$524184 := (-52 + \sqrt{4^{18}}) \times \sqrt{4}$.
$524236 := -52 + \sqrt{4} \times 2^{3\times 6}$.
$524263 := -5^2 + \sqrt{4} \times 2^{6\times 3}$.
$524274 := (-5 - 2 + 4^{2+7}) \times \sqrt{4}$.
$524283 := -5 + (-2 + 4)^{2\times 8+3}$.
$524285 := -5 + 2 + 4^2 \times 8^5$.
$524286 := -\sqrt{5 - 2/\sqrt{4}} + 2 \times 8^6$.
$524291 := 5 + 2 \times (\sqrt{4^{2\times 9}} - 1)$.
$524293 := 5 + 2^{4^2+9/3}$.
$524297 := -5 + 2 \times (\sqrt{4^{2\times 9}} + 7)$.
$524299 := 5 + 2 \times (\sqrt{4^{2\times 9}} + \sqrt{9})$.
$524328 := (5 + 2^{\sqrt{4^3}\times 2}) \times 8$.
$524392 := (52 + 4^{3\times\sqrt{9}}) \times 2$.
$524880 := (5 - 2 \times 4)^8 \times 80$.
$524979 := 5 + 2 \times (4^9 + 7^{\sqrt{9}})$.
$526833 := (-5 + (2^6 - 8)^3) \times 3$.
$528220 := \sqrt{(5 + 2)^8} \times 220$.
$531296 := -5 \times (31 - 2) + 9^6$.
$531389 := -53 + 1 + \sqrt{(3^{8\times\sqrt{9}}}$.
$531396 := -5 \times 3 \times 1 \times 3 + 9^6$.
$531426 := -5 \times 3 + (-1 + 4)^{2\times 6}$.
$531428 := -5 + 3^{14-2} - 8$.
$531444 := 5 + 3^{\sqrt{144}} - \sqrt{4}$.
$531456 := 5 \times 3 + (14 - 5)^6$.
$531494 := 53 + ((-1 + 4) \times 9)^4$.
$531496 := 53 + 1 \times \sqrt{4} + 9^6$.
$531566 := 5^3 + (15 - 6)^6$.
$531966 := 531 + 9^6 - 6$.
$531969 := 531 + 9^6 - \sqrt{9}$.
$538412 := (5 + 3^8) \times 41 \times 2$.
$548937 := (-5 + \sqrt{4^8}) \times (9/3)^7$.
$549365 := 5 \times (49^3 - 6^5)$.
$551343 := -5 \times 5 + (1 + 3^4)^3$.
$559539 := (5^5 + 9^5 - 3) \times 9$.
$559867 := -5 + \sqrt{5 - 9 + 8} \times 6^7$.
$559872 := (\sqrt{5 \times 5} + 9 - 8)^7 \times 2$.
$562419 := ((5^6 - 2) \times 4 - 1) \times 9$.
$562428 := (5^6 - 2) \times \sqrt{\sqrt{(4 + 2)^8}}$.
$562464 := (5^6 - 2/\sqrt{4}) \times \sqrt{6^4}$.
$562495 := 5^{\sqrt{6^2}} \times 4 \times 9 - 5$.
$563868 := (5^6 + 38) \times \sqrt{\sqrt{6^8}}$.
$563922 := ((56 + 3) \times 9)^2 \times 2$.
$566440 := (\sqrt{5^6} - 6)^{\sqrt{4}} \times 40$.
$566937 := \left(\sqrt{(5 \times 6)^6} - \sqrt{9}\right) \times 3 \times 7$.
$574644 := (5^7 + 4^{\sqrt{64}}) \times 4$.
$574992 := ((-5 + 74 - \sqrt{9})^{\sqrt{9}}) \times 2$.
$575995 := (5 + 7 \times 5)^{\sqrt{9}} \times 9 - 5$.
$577602 := -5 + 7 + 760^2$.
$583889 := -5 \times 8 + 3^8 \times 89$.
$584199 := (-\sqrt{5^8} + 4^{-1+9}) \times 9$.
$584647 := (5 + 8/4 \times 6)^4 \times 7$.
$585925 := (5^8 - 5) \times \sqrt{9}/2 - 5$.
$585944 := ((5^8 + 5) \times \sqrt{9} - \sqrt{4})/\sqrt{4}$.
$587615 := -\sqrt{5^8} + (7^6 - 1) \times 5$.
$587635 := -\sqrt{5^8} + (7^6 + 3) \times 5$.
$588765 := ((5 + 8) \times 8 + 7^6) \times 5$.
$589748 := -5 - 8 + 9 \times (-7 + 4^8)$.
$590945 := 5 + 90 \times (9^4 + 5)$.
$592697 := (5 \times 9 \times 2 - 6)^{\sqrt{9}} - 7$.
$592763 := 59 + (2 \times 7 \times 6)^3$.
$592829 := 5^{\sqrt{9}} + (2 + 82)^{\sqrt{9}}$.
$606528 := 6^{0+6} \times (\sqrt{5^2} + 8)$.
$614125 := (6 \times 14 + 1)^{-2+5}$.
$624978 := -6 + (-2 + (-4 + 9)^7) \times 8$.
$627264 := (6 \times 2 \times (72 - 6))^{\sqrt{4}}$.
$629784 := 6^2 \times (\sqrt{9^7} \times 8 - \sqrt{4})$.
$629844 := 6 \times (-2 + (9 \times 8/4)^4)$.
$629848 := (6/2)^9 \times 8 \times 4 - 8$.
$629868 := 6 \times (2 + \sqrt{\sqrt{9^8}} \times \sqrt{6^8})$.
$629964 := 6 \times (2 \times 9 + (\sqrt{9} \times 6)^4)$.
$645500 := (6^4 - 5) \times 500$.
$649495 := (6 - 4 + 9) \times (-4 + 9^5)$.
$649500 := (6^4 + \sqrt{9}) \times 500$.
$649511 := -6 + (-\sqrt{4} + 9^5) \times 11$.
$649529 := -6 - 4 + 9^5 \times (2 + 9)$.
$649547 := \sqrt{64} + 9^5 \times (4 + 7)$.
$649549 := 6 + 4 + 9^5 \times (\sqrt{4} + 9)$.
$649583 := (6 - \sqrt{4} + 9^5) \times (8 + 3)$.
$649589 := 6 + (4 + 9^5) \times (8 + \sqrt{9})$.
$653184 := 6^5 \times (3 + 18) \times 4$.
$655284 := (6^5 + 5^2) \times 84$.
$655935 := (6 \times 5^5 - 9) \times 35$.
$656244 := -6 + 5^6 \times (-2 + 44)$.
$656274 := 6 \times (5^{\sqrt{6^2}} \times 7 + 4)$.
$656298 := 6 \times (5^6 \times (-2 + 9) + 8)$.
$656373 := 6 \times (5^6 + 3) \times 7 - 3$.
$656374 := 6 \times ((5^6 + 3) \times 7 - \sqrt{4})$.
$656379 := 6 \times (5^6 + 3) \times 7 + \sqrt{9}$.
$656397 := (6 \times (5^6 + 3) + \sqrt{9}) \times 7$.
$656418 := 6 \times (5^6 + 4) \times (-1 + 8)$.
$656790 := 6 \times (5^6 \times 7 + 90)$.
$656817 := (6 \times 5^6 + 81) \times 7$.
$657874 := (-6 + 5 \times 7 \times 8) \times 7^4$.
$658845 := (6 + 5)^{\sqrt{8+8}} \times 45$.
$659344 := (6 \times 5 \times 9 \times 3 + \sqrt{4})^{\sqrt{4}}$.
$659685 := (6^5 - 9 - 6) \times 85$.
$668174 := \sqrt{6 \times 6} + 8 \times 17^4$.
$675684 := (6 + (7 + 5) \times 68)^{\sqrt{4}}$.
$677328 := 6 \times ((7 - 7^3)^2 - 8)$.
$685984 := (((6 + 8) \times 5)^{\sqrt{9}} - 8) \times \sqrt{4}$.
$685994 := (((6 + 8) \times 5)^{\sqrt{9}} - \sqrt{9}) \times \sqrt{4}$.
$690768 := (6 \times 90 - 7) \times \sqrt{6^8}$.
$691488 := 6 \times \sqrt{9} \times 14^{\sqrt{8+8}}$.
$699840 := 6^{\sqrt{9}} \times \sqrt{\sqrt{9^8}} \times 40$.
$699875 := (6^9/(9 \times 8) + 7) \times 5$.
$704899 := -\sqrt{\sqrt{70^4}} + 89^{\sqrt{9}}$.
$704969 := (70 + 4 + 9 + 6)^{\sqrt{9}}$.
$705642 := (7^{0+5} - 6) \times 42$.
$708295 := \sqrt{7^{0+8}} \times 295$.
$715821 := 71^{-5+8} \times 2 - 1$.
$715822 := 71^{\sqrt{5+8/2}} \times 2$.
$715824 := 71^{-5+8} \times 2 + \sqrt{4}$.
$726880 := 7 \times (2 + \sqrt{6^8}) \times 80$.

$728993 := -7 + ((2+8) \times 9)^{9/3}$.
$729003 := \sqrt{7+2} + 90^{0+3}$.
$729014 := 7 \times 2 + 90^{-1+4}$.
$729049 := 7^2 + (\sqrt{\sqrt{90^4}})^{\sqrt{9}}$.
$729072 := 72 + 90^{\sqrt{7+2}}$.
$741321 := (7 \times 41 \times 3)^2 \times 1$.
$742572 := ((7+4+2)^5 - 7) \times 2$.
$742586 := (7+4+2)^5 \times (8-6)$.
$742592 := ((7+4+2)^5 + \sqrt{9}) \times 2$.
$744310 := 7^{\sqrt{4 \times 4}} \times 310$.
$744385 := (\sqrt{7^4}+4)^{\sqrt{\sqrt{\sqrt{3^8}}}} \times 5$.
$746503 := 7 + (\sqrt{4} \times 6)^5 \times (0+3)$.
$746523 := (7 + (\sqrt{4} \times 6)^5 + 2) \times 3$.
$753424 := (7 \times (5^3 - \sqrt{4}/2))^{\sqrt{4}}$.
$756045 := (7^5 - 6) \times (0+45)$.
$756315 := 7^5 \times (6-3) \times 15$.
$756325 := (7^5 \times (6+3) + 2) \times 5$.
$756495 := (7^5 + 6 - \sqrt{4}) \times 9 \times 5$.
$756549 := ((7^5+6) \times 5 - 4) \times 9$.
$756585 := (7^5+6) \times (5 + 8 \times 5)$.
$765674 := (7 - 6 + 5^6) \times \sqrt{7^4}$.
$766927 := (7 + 6 \times 6 \times 9)^2 \times 7$.
$774137 := 7 \times (7+41)^3 - 7$.
$774198 := (77+41) \times \sqrt{9^8}$.
$777922 := ((7+7) \times 7 \times 9)^2 - 2$.
$777924 := 7 \times 7 \times (7 \times 9)^2 \times 4$.
$778034 := (-\sqrt{7 \times 7} + 80)^3 \times \sqrt{4}$.
$780325 := \sqrt{7^8} \times (0+325)$.
$781257 := 7 + (8 + 1 \times 2) \times 5^7$.
$781258 := \sqrt{\sqrt{\sqrt{7^8}}} + 1 + 2 \times 5^8$.
$786329 := -7 + (8^6 - 32) \times \sqrt{9}$.
$786385 := -7 + 8^6 \times 3 - 8 \times 5$.
$786393 := (-7 + 8^6 + 3 - 9) \times 3$.
$786396 := (-7 + 8^6) \times 3 - 9 - 6$.
$786399 := (-7 + 8^6) \times 3 - 9 - \sqrt{9}$.
$786411 := (-7 + 8^6) \times (4 - 1 \times 1)$.
$786413 := -7 + (8^6 - 4) \times 1 \times 3$.
$786417 := -7 - 8 + 6 \times \sqrt{4^1 7}$.
$786419 := -7 + (8^6 - \sqrt{4}) \times 1 \times \sqrt{9}$.
$786423 := (-7 + 8^6 + \sqrt{4^2}) \times 3$.
$786425 := -7 - 8^6 + 4^{2 \times 5}$.
$786427 := 7 + (8^6 - 4) \times \sqrt{2+7}$.
$786432 := \sqrt{7+8-6} \times 4^{3^2}$.
$786433 := -7 + 8 + 64^3 \times 3$.
$786441 := (7 + 8^6 - 4) \times (4-1)$.
$786443 := -7 + (8^6 + 4 + \sqrt{4}) \times 3$.
$786445 := 7 + (8^6 + \sqrt{4}) \times \sqrt{4+5}$.
$786447 := (7 + 8^6 - \sqrt{4}) \times (-4+7)$.
$786453 := (7+8^6) \times (4+5)/3$.
$786467 := (7 + 8^6/\sqrt{4}) \times 6 - 7$.
$786469 := 7 + (8^6 + 4 + 6) \times \sqrt{9}$.
$786483 := (7 + 8^6 + \sqrt{4} + 8) \times 3$.
$786489 := (7 + 8^6 + 4 + 8) \times \sqrt{9}$.
$786493 := 7 + (8^6 + \sqrt{4} \times 9) \times 3$.
$786499 := \sqrt{\sqrt{7^8}} + (6 + 4^9) \times \sqrt{9}$.
$788544 := (7 + 885 - 4)^{\sqrt{4}}$.
$788833 := \sqrt{7^8} + (8 \times 8)^3 \times 3$.
$789264 := 7 \times (89-2) \times 6^4$.
$789647 := (7^{8-\sqrt{9})-6} \times 47$.
$796488 := 7 \times (-\sqrt{9} + 6^4) \times 88$.
$798848 := (79 \times \sqrt{8+8})^{\sqrt{4}} \times 8$.
$805255 := (8 + 05 - 2)^5 \times 5$.
$805655 := (80 + (5+6)^5) \times 5$.
$806752 := 8 \times (06 \times 7^5 + 2)$.
$819200 := 8^{1+\sqrt{9}} \times 200$.
$823297 := -82 \times 3 + (-2+9)^7$.
$823461 := -82 + (3+4)^{6+1}$.
$823727 := 8 \times 23 + \sqrt{7^{2 \times 7}}$.
$824577 := 8 + 2 + 4^5 + 7^7$.
$829440 := \sqrt{(8 \times 2 \times 9)^4} \times 40$.
$839424 := 8 \times (-3 + 9^4) \times 2^4$.
$839673 := ((-8+3) \times 9 + 6^7) \times 3$.
$839779 := -8 + ((-3+9)^7 - 7) \times \sqrt{9}$.
$839793 := (-8 + (-3+9)^7 + \sqrt{9}) \times 3$.
$839795 := -8 + (-3+9)^7 \times \sqrt{9} - 5$.
$839804 := (-8 + (3-9)^8 + 0)/\sqrt{4}$.
$839812 := (8 + (3-9)^8 \times 1)/2$.
$839827 := -8 + 3 \times (9 + (8-2)^7)$.
$839867 := 8 + 3 \times (9 + 8 + 6^7)$.
$844277 := (8+4)^4 - 2 + 7^7$.
$851964 := 8^5 \times (-1 + \sqrt{\sqrt{9^6}}) - 4$.
$851969 := -8^5 + 1 + 96^{\sqrt{9}}$.
$851981 := (8+5) \times ((1+\sqrt{9})^8 + 1)$.
$856192 := (8^5 + 6^{-1+9})/2$.
$857383 := 8 + (57+38)^3$.
$859775 := 85^{\sqrt{9}} \times \sqrt{7 \times 7}/5$.
$864557 := 8^6 \times \sqrt{4+5} + 5^7$.
$875336 := 8 \times 7 \times (5^{3+3} + 6)$.
$875448 := 8 \times 7 \times (5^{\sqrt{4}+4} + 8)$.
$879795 := ((8 \times 7)^{\sqrt{9}} + 7^{\sqrt{9}}) \times 5$.
$884728 := (8 \times (8+4))^{\sqrt{7+2}} - 8$.
$884733 := ((8 \times 84)/7)^3 - 3$.
$884734 := ((8 \times 84)/7)^3 - \sqrt{4}$.
$884739 := (8 \times 84/7)^3 + \sqrt{9}$.
$886464 := (8 \times 86 - 4) \times 6^4$.
$898779 := (8 - 9 + 8^7)/7 \times \sqrt{9}$.
$907569 := 9 \times 07^5 \times 6 - 9$.
$907596 := (9 \times (07)^5 + \sqrt{9}) \times 6$.
$911493 := (9 \times 11)^{\sqrt{4}} \times 93$.
$912247 := (9 + 12 - 2)^4 \times 7$.
$912673 := ((\sqrt{9}+1) \times 26 - 7)^3$.
$917448 := (\sqrt{9}-1) \times 7 \times (-4 + 4^8)$.
$917484 := (-9 - 1 + 7 \times 4^8) \times \sqrt{4}$.
$917488 := (\sqrt{9}-1) \times (7 \times 4^8 - 8)$.
$923314 := -9 \times 23 + 31^4$.
$923524 := \sqrt{9} + (2 \times 3 + 5^2)^4$.
$924385 := (9-2)^4 \times 385$.
$938492 := (93+8)^{\sqrt{4}} \times 92$.
$941168 := (\sqrt{9} + (-4+11)^6) \times 8$.
$943299 := \sqrt{9} + \sqrt{9} \times (2 \times 34)^{\sqrt{9}}$.
$944559 := ((9 \times \sqrt{4})^4 - 5 \times 5) \times 9$.
$946176 := \sqrt{9} \times 4^6 \times (1+76)$.
$948395 := \sqrt{(9 - \sqrt{4})^8} \times 395$.
$968244 := (-\sqrt{9} + (6 \times 82)^{\sqrt{4}}) \times 4$.
$972405 := (\sqrt{9} \times 7)^{\sqrt{2^4}} \times 05$.
$973944 := ((9 \times 7)^3 - 9^4) \times 4$.
$984150 := 9^{8-4} \times 150$.
$984375 := (\sqrt{9^8} \times \sqrt{4} + 3) \times 75$.
$989497 := (98 + \sqrt{9})^{\sqrt{4}} \times 97$.
$994842 := \sqrt{9 \times 9^4} \times (8^4 - 2)$.
$995316 := ((9+\sqrt{9})^5 - 3) \times \sqrt{16}$.
$995324 := ((9+\sqrt{9})^5 - 3 + 2) \times 4$.
$995453 := (9+\sqrt{9})^5 \times 4 + 5^3$.
$995544 := ((9+\sqrt{9})^5 + 54) \times 4$.
$999916 := -9 \times 9 - \sqrt{9} + (9+1)^6$.
$999976 := -\sqrt{9} \times 9 + \sqrt{9} + (\sqrt{9}+7)^6$.

## 5.3 Selfie Representations in Reverse Order of Digits

$102912 := 2^{1\times 9} \times 201.$

$104968 := -8 + (6 \times \sqrt{9})^4 \times 01.$

$104975 := ((-5+7)\times 9)^4 + 0 - 1.$

$112536 := 6^3 \times 521 \times 1.$

$116675 := 5 \times (7 + 6^6/(1+1)).$

$117567 := 7^6 - 5 - 7 \times 11.$

$117577 := 7 \times 7^5 - 71 - 1.$

$117729 := 9^2 + 7^{7-1} - 1.$

$118336 := (6 + 338)^{1+1}.$

$126737 := (7^3 + 7 + 6)^2 + 1.$

$127985 := ((5\times 8)^{\sqrt{9}} - 7) \times 2 - 1.$

$131584 := \sqrt{4^8} \times (513 + 1).$

$132651 := (15 + 6^2)^3 \times 1.$

$134375 := \sqrt{5^{7+3}} \times 43 \times 1.$

$134457 := 7^5 \times (-4 + 4 \times 3) + 1.$

$135685 := 5 \times (\sqrt{8^6} \times 53 + 1).$

$136079 := 9 \times 70 \times 6^3 - 1.$

$136296 := 6^{\sqrt{\sqrt{9^2}}} \times 631.$

$136945 := (5^4 + 9) \times 6^3 + 1.$

$137544 := 44 \times (\sqrt{5^{7+3}} + 1).$

$137842 := 2 \times (48 - 7)^3 \times 1.$

$137844 := \sqrt{4} \times ((48-7)^3 + 1).$

$139264 := 4^6 \times ((2+9)\times 3 + 1).$

$139947 := (-7 + (4\times 9)^{\sqrt{9}}) \times 3 \times 1.$

$139994 := ((4\times 9)^{\sqrt{9}} + 9) \times 3 - 1.$

$140608 := (-8 + 060)^{4-1}.$

$140822 := 22 \times (\sqrt{80^4} + 1).$

$145232 := 232 \times (5^4 + 1).$

$147469 := 9 \times (6 + 4^7) - 41.$

$147483 := \sqrt{\sqrt{3^8}} \times (4^7 + 4 - 1).$

$148176 := (6\times 7)^{\sqrt{1+8}} \times \sqrt{4} \times 1.$

$148877 := (7 \times 7 + \sqrt{8+8})^{4-1}.$

$149783 := 3 \times 8 \times \sqrt{79^4} - 1.$

$153097 := 7 \times (90 \times 3^5 + 1).$

$153728 := 8^2 \times (\sqrt{7^{3+5}} + 1).$

$154275 := \sqrt{(57-2)^4} \times 51.$

$154884 := 4 \times (\sqrt{88^4} \times 5 + 1).$

$155684 := 4 \times ((8 + 6^5) \times 5 + 1).$

$157437 := 7^3 \times (\sqrt{4} + 7) \times 51.$

$157457 := -7 + 54^{7-5+1}.$

$157546 := 6^4 + 5^7 \times \sqrt{5-1}.$

$157752 := 2 \times (5^7 + 751).$

$159375 := 5^{-7+3+9} \times 51.$

$160867 := \sqrt{(1+6)^{0+8}} \times 67.$

$164944 := \sqrt{(4\times(4+9))^4} \times 61.$

$166957 := (-7 + \sqrt{(5+9)^6}) \times 61.$

$172773 := 3^7 \times (72+7) \times 1.$

$177139 := \sqrt{9}^{3+1+7} - 7 - 1.$

$177153 := 3^{5-1+7} + 7 - 1.$

$179275 := 5 \times (-7 + 2^9) \times 71.$

$183704 := 4 \times (0 + 7 \times 3^8 - 1).$

$183744 := 4 \times (\sqrt{4} + 7 \times (3^8 + 1)).$

$186623 := 32 \times 6^6/8 - 1.$

$186633 := 3 \times 3 \times (\sqrt{(6+6)^8} + 1).$

$187029 := 9 \times 20781.$

$187277 := (7\times 7)^2 \times 78 - 1.$

$189035 := (5 + 30^{\sqrt{9}}) \times (8-1).$

$189567 := 7 \times ((6\times 5)^{\sqrt{9}} + 81).$

$194471 := (17+4)^4 - 9 - 1.$

$194473 := (3\times 7)^4 - \sqrt{49} - 1.$

$194477 := (7 - 7\times 4)^4 - \sqrt{9} - 1.$

$194485 := (5 + 8 \times \sqrt{4})^4 + \sqrt{9} + 1.$

$194489 := (9+8+4)^4 + 9 - 1.$

$194674 := \sqrt{4} \times ((7\times 6+4)^{\sqrt{9}} + 1).$

$195364 := 4 \times (6^3 + 5)^{\sqrt{9}-1}.$

$196517 := (7+1)^5 \times 6 - 91.$

$196584 := (-4 + 8^5) \times \sqrt{6^{\sqrt{9}-1}}.$

$196589 := -9 + 8^5 \times 6 - 9 - 1.$

$196618 := 8^{-1+6} \times 6 + 9 + 1.$

$196832 := 2 \times (3^8 \times (6+9) + 1).$

$196882 := \sqrt{(1^9+6)^8} \times 82.$

$199472 := 274 \times (9^{\sqrt{9}} - 1).$

$199927 := (7 + 2\times\sqrt{9})^{\sqrt{9}} \times 91.$

$207936 := (6 \times (-3 + 9 + 70))^2.$

$209764 := (467-9)^{0+2}.$

$211595 := -5 + (9 \times 51 + 1)^2.$

$214375 := (5\times 7)^3 \times (4 + 1^2).$

$219488 := (-8+84)^{\sqrt{9}} \times 1/2.$

$221184 := 48^{\sqrt{11-2}} \times 2.$

$223524 := 42 \times 5322.$

$224674 := (476 - \sqrt{4})^2 - 2.$

$224676 := (6 \times (7 + (\sqrt{6^4} \times 2)))^2.$

$225625 := ((5^2-6)\times 5^2)^2.$

$233265 := 5 \times (6^{2\times 3} - \sqrt{3^2}).$

$233289 := (-9 + 82 \times (3+3))^2.$

$234222 := -2 + 22^4 - 32.$

$234247 := ((7+4)\times 2)^4 - 3^2.$

$234253 := (-3 + 5^2)^4 - \sqrt{3^2}.$

$234256 := ((6+5)\times 2)^4 \times (3-2).$

$234259 := (-\sqrt{9} + 5^2)^4 + \sqrt{3^2}.$

$234265 := ((5+6)\times 2)^4 + 3^2.$

$234759 := \sqrt{9} \times (5^7 + 4 \times 32).$

$235282 := 2 \times (-8 + (2+5)^{3\times 2}).$

$235445 := 5 \times (44 \times 5 - 3)^2.$

$235956 := 6 \times (5+9) \times 53^2.$

$237169 := ((9+61)\times 7 - 3)^2.$

$238326 := (62^3 - 8) + 3 \times 2.$

$238464 := \sqrt{(2\times 3)^8} \times 46 \times 4.$

$245025 := (520 - \sqrt{5^4})^2.$

$247301 := 103 \times 7^4 - 2.$

$248368 := 86 \times \sqrt{38^4} \times 2.$

$249696 := 6 \times ((\sqrt{9} - 6\times 9)\times 4)^2.$

$249952 := (25^{\sqrt{9}} - \sqrt{9}) \times 4^2.$

$249998 := (8^{\sqrt{9}} - 9 - \sqrt{9})^{\sqrt{4}} - 2.$

$253984 := 4 \times (-8 + (9 + 3^5)^2).$

$254368 := 8^6 - (3 \times \sqrt{4})^{\sqrt{5^2}}.$

$254448 := (-8 + 4^4) \times (4^5 + 2).$

$255025 := (5 + 20 \times 5 \times 5)^2.$

$255367 := 7 \times (6^3 - 5 \times 5)^2.$

$255879 := \sqrt{9^7} \times (-8 + 5 \times 5^2).$

$260846 := (-6^4 + 8^{0+6}) - 2.$

$261568 := 8^6 - ((5-1)\times 6)^2.$

$262138 := -8 + ((3+1)\times 2)^6 + 2.$

$262158 := 8^{5+1} + 2 \times 6 + 2.$

$262168 := 8^6 \times 1 + 26 - 2.$

$262178 := 8^{7-1} - 2 + 6^2.$

$262194 := 4^9 - 12 + 62.$

$262268 := 8^6 + 2 \times (2^6 - 2).$

$262288 := 8^{8-2} + (2\times 6)^2.$

$262394 := 4^9 + \sqrt{(3+2)^6} \times 2.$

$263424 := (4+24)^3 \times 6 \times 2.$

$264386 := \sqrt{6^8} \times 34 \times 6 + 2.$

$265225 := (5 \times (22 - \sqrt{5^6}))^2.$

$265625 := \sqrt{5^{2\times 6}} \times (5 + 6 \times 2).$

$265695 := (5 + 9^6 - 56)/2.$

$265721 := (1 + (2\times 7 - 5)^6)/2.$

$266248 := -8 + (4 + \sqrt{(2+6)^6})^2.$

$267034 := 4307 \times 62.$

$267126 := 6 \times (217-6)^2.$

$267289 := ((9+8^2)\times 7 + 6)^2.$

$268667 := \sqrt{7^6} + (6 + \sqrt{8^6})^2.$

$268868 := 8^6 + (88-6)^2.$

$269361 := (1 + (6/3)^9 + 6)^2.$

$273125 := 5^{2+1} \times (3^7 - 2).$

$273455 := (5 + 5^{4+3}) \times 7/2.$

$273625 := \sqrt{\sqrt{5^{2\times 6}}} \times (3^7 + 2).$

$274625 := (5 \times 26/\sqrt{4})^{\sqrt{7+2}}.$

$275625 := ((5\times 2 + 65)\times 7)^2.$

$276576 := 6^7 - 5 \times 672.$

$279568 := 8^6 + (5^{\sqrt{9}} + 7)^2.$

$279742 := (2+4)^7 - 97 \times 2.$

$279876 := 6^7 - 8 - \sqrt{9} - 7^2.$

$279926 := -6 - 2 + (9 - \sqrt{9})^7 - 2.$

$279929 := -9 + \sqrt{(2 \times (9 + 9))^7} + 2.$

$279931 := -1 \times 3 + (9 - \sqrt{9})^7 - 2.$

$279932 := -2 \times 3 - (\sqrt{9} - 9)^7 + 2.$

$279938 := (8 \times 3 - 9 - 9)^7 + 2.$

$279951 := 15 - (\sqrt{9} - 9)^{\sqrt{7^2}}.$

$279953 := 3 \times 5 - (\sqrt{9} - 9)^7 + 2.$

$279954 := 4 \times 5 - (\sqrt{9} - 9)^7 - 2.$

$279963 := \sqrt{3^6} - (\sqrt{9} - 9)^{\sqrt{7^2}}.$

$279973 := 37 - (\sqrt{9} - 9)^{\sqrt{7^2}}.$

$279976 := 6 \times 7 - (\sqrt{9} - 9)^7 - 2.$

$279984 := 48 - (\sqrt{9} - 9)^{\sqrt{7^2}}.$

$279986 := 6 \times 8 - (\sqrt{9} - 9)^7 + 2.$

$279987 := \sqrt{\sqrt{7^8}} + (9 - \sqrt{9})^7 + 2.$

$279995 := 59 - (\sqrt{9} - 9)^{\sqrt{7^2}}.$

$283215 := 5 \times (-1 + 238^2).$

$283235 := 5 \times (3 + 238^2).$

$283392 := 2 \times (9 + 3)^3 \times 82.$

$285374 := (4 \times 7)^3 \times (5 + 8) - 2.$

$287296 := (6 \times (9^2 + 7) + 8)^2.$

$288369 := (9 + 6 \times (3 + 8) \times 8)^2.$

$289737 := 73 \times \sqrt{(7 \times 9)^{8/2}}.$

$291595 := -5 + (9 \times (51 + 9))^2.$

$292681 := 1 \times (\sqrt{8^6} + 29)^2.$

$294858 := (8^5 - 8 + \sqrt{4}) \times \sqrt{9^2}.$

$294864 := 4 \times 6 \times (8^4 \times \sqrt{9} - 2).$

$294883 := (-3 + 8 \times 8^4) \times 9 - 2.$

$294888 := -8 + 8 \times (8^4 \times 9 - 2).$

$294948 := (8 + 4^9/4) \times 9/2.$

$294984 := (4 + \sqrt{8^9 \times \sqrt{4}}) \times 9 \times 2.$

$295159 := (9^5 - 1) \times 5 - 9^2.$

$295239 := 9^{3+2} \times 5 - \sqrt{9} \times 2.$

$295275 := 5 \times ((7 + 2)^5 + \sqrt{9} \times 2).$

$295335 := 5 \times ((3 \times 3)^5 + 9 \times 2).$

$296595 := 5 \times ((9 + 5 \times 6)^{\sqrt{\sqrt{9^2}}}).$

$297747 := -7 + (4 + 7 \times 7)^{\sqrt{9}} \times 2.$

$297992 := 2 \times (9^{\sqrt{9}} - 7^{\sqrt{9}})^2.$

$298116 := (6 \times (1 + 1 + 89))^2.$

$314922 := (-2 + (2 \times 9)^4) \times 1 \times 3.$

$314924 := -4 + (2 \times 9)^4 \times 1 \times 3.$

$314929 := \sqrt{9} \times (2 \times 9)^4 + 1^3.$

$316227 := 72^2 \times 61 + 3.$

$318864 := (4^6 - 8) \times (81 - 3).$

$321489 := \sqrt{9^8} \times (41 + 2^3).$

$324555 := -5^5 + 5 \times 4^{2^3}.$

$324723 := (327 + \sqrt{4})^2 \times 3.$

$326424 := 42 \times (-4 + 6^{2+3}).$

$328509 := (((9 + 058) + 2)^3).$

$331749 := (-9 + (47 + 1)^3) \times 3.$

$331764 := (-4 + (6 \times (7 + 1))^3) \times 3.$

$331768 := -8 + (6 \times (7 + 1))^3 \times 3.$

$331774 := -\sqrt{4} + (7 \times 7 - 1)^3 \times 3.$

$331776 := (6 + 7 \times (7 - 1))^3 \times 3.$

$331782 := (2 + (8 \times (7 - 1))^3) \times 3.$

$332367 := \sqrt{7^6} \times 323 \times 3.$

$342744 := -4^4 + (72 - \sqrt{4})^3.$

$343007 := 70^{0+3} + 4 + 3.$

$343656 := (6^5 + 6^3) \times 43.$

$344148 := 84 \times (1 + (4 \times 4)^3).$

$345747 := 7^4 \times \sqrt{(7 + 5)^4} + 3.$

$346794 := (-\sqrt{4} + (\sqrt{9} - \sqrt{7^6})^{\sqrt{4}}) \times 3.$

$346795 := -5 + (\sqrt{9} - \sqrt{7^6})^{\sqrt{4}} \times 3.$

$348758 := 85 \times (7 + 8^4) + 3.$

$349524 := (4^{2+5+\sqrt{9}} - 4)/3.$

$352977 := ((7 \times 7)^{\sqrt{9}} + 2 \times 5) \times 3.$

$353673 := 3 \times (7^6 + 3^5) - 3.$

$353674 := -\sqrt{4} + (7^6 + 3^5) \times 3.$

$353679 := \sqrt{9} + (7^6 + 3^5) \times 3.$

$354279 := (9^{7-2} \times \sqrt{4} - 5) \times 3.$

$354571 := 1 \times 7 \times (5 + \sqrt{4^5})^3.$

$357696 := \sqrt{6^9 \times 6} \times (-7 + 53).$

$357911 := 1 \times (-1 - \sqrt{9} + 75)^3.$

$357917 := 71^{\sqrt{9}} + (7 - 5) \times 3.$

$365835 := 5 \times \sqrt{(3 \times 8 + 5)^6} \times 3.$

$368549 := (9 + 4)^5 - (8 + 6)^3.$

$369757 := 7^5 \times (7 + 9 + 6) + 3.$

$373227 := \sqrt{72^{2 \times 3}} - 7 \times 3.$

$373238 := (8 \times 3^2)^3 - 7 - 3.$

$373244 := -4 + 4 \times (2 \times 3)^7/3.$

$373246 := (-6 + 4 \times (2 \times 3)^7)/3.$

$373249 := (\sqrt{9} + 4 \times (2 \times 3)^7)/3.$

$373269 := (9 \times (6 + 2))^3 + 7 \times 3.$

$374979 := \sqrt{9} \times (-7 + (\sqrt{9} + 47)^3).$

$374995 := -5 + \sqrt{9} \times (\sqrt{9} + 47)^3.$

$379453 := -3 + (5^4 - 9)^{\sqrt{7-3}}.$

$379454 := -\sqrt{4} + (5^4 - 9)^{\sqrt{7-3}}.$

$379456 := (6 - 5^4 + \sqrt{9})^{\sqrt{7-3}}.$

$379459 := (-9 + 5^4)^{9-7} + 3.$

$383856 := 6 \times ((5 \times 8)^3 - 8 \times 3).$

$387577 := -7 + 757 \times 8^3.$

$389017 := (-7 + (1 + 0 + 9) \times 8)^3.$

$390224 := 4^2 \times (20 + 9)^3.$

$390625 := 5^{2+6} + 0 \times 93.$

$390685 := 5^8 + 60 \times \sqrt{9}/3.$

$391355 := 5^{5+3} + 1 + 9^3.$

$391385 := 5^8 + 31 + 9^3.$

$391625 := 5^{2+6} + (1 + 9)^3.$

$392784 := (4^8 - 72) \times (9 - 3).$

$393222 := (2 + 2^{2^3+9}) \times 3.$

$393545 := -5 \times (4 \times (5 - 3^9) + 3).$

$394385 := (\sqrt{5^8} + 3)^{\sqrt{4}} + \sqrt{9}/3.$

$394752 := 257 \times \sqrt{4^9} \times 3.$

$396568 := -8 + 6^5 \times (6 \times 9 - 3).$

$397953 := (35 + 9 + 7)^{\sqrt{9}} \times 3.$

$399492 := (2^9 + 4 \times 9) \times 9^3.$

$404968 := 8 \times ((6 + 9)^4 - 04).$

$408321 := (1 - 2^3 \times 80)^{\sqrt{4}}.$

$410881 := 1 \times (8 \times 80 + 1)^{\sqrt{4}}.$

$411771 := (-1 + 7^7) \times (1 + 1)/4.$

$411773 := (3 + 7^7) \times (1 + 1)/4.$

$411775 := (5 + 7^7 + 1 + 1)/\sqrt{4}.$

$411777 := (7 + 7^7)/(1 + 1) + \sqrt{4}.$

$413343 := (3 + 4) \times (3 \times 3)^{1+4}.$

$419796 := 69 \times \sqrt{(79 - 1)^4}.$

$419886 := (6^8 - 8 \times 9)/(1 \times 4).$

$419897 := -7 + \sqrt{9^8} \times \sqrt{(9 - 1)^4}.$

$419949 := 9 \times (4 \times 9)^{\sqrt{9}} + 1 + 4.$

$421873 := (-3 + 78)^{1+2} - \sqrt{4}.$

$421875 := (5 \times (7 + 8))^{12/4}.$

$421879 := (-\sqrt{9} + 78)^{1+2} + 4.$

$422498 := (8 \times \sqrt{9^4} + 2)^2 - \sqrt{4}.$

$425944 := 44^{\sqrt{9}} \times 5 + 24.$

$428738 := (8^3 - \sqrt{\sqrt{7^8}})^2 \times \sqrt{4}.$

$436875 := 5 \times ((-7 + 8^6)/3 - 4).$

$438967 := 76^{\sqrt{9}} - 8 + 3 - 4.$

$438972 := (2 - 7 + \sqrt{\sqrt{9^8}})^3 - 4.$

$438974 := (4 \times 7 \times \sqrt{9} - 8)^3 - \sqrt{4}.$

$438978 := (87 - \sqrt{9} - 8)^3 + \sqrt{4}.$

$439569 := ((9 + 65) \times 9 - 3)^{\sqrt{4}}.$

$440898 := (8 \times (\sqrt{9} + 80))^{\sqrt{4}} + \sqrt{4}.$

$442369 := (96^3 \times 2 + 4)/4.$

$442384 := (48^3 + \sqrt{2^4}) \times 4.$

$443556 := (6 \times 55 + 3)^{\sqrt{4}} \times 4.$

$444885 := (-5 + 8 \times 84)^{\sqrt{4}} - 4.$

$444889 := (-9 + 8 \times 84 + 4)^{\sqrt{4}}.$

$446168 := 86 \times (1 + 6^4) \times 4.$

$446224 := (4 \times 2 - \sqrt{26^4})^{\sqrt{4}}.$

$452893 := (3^9 + 8) \times (25 - \sqrt{4}).$

$453952 := ((2 + 59)^3 - 5) \times \sqrt{4}.$

$453972 := ((-2 + 7 \times 9)^3 + 5) \times \sqrt{4}.$

$456529 := -4 + ((5 + 6) \times (5 + 2))^{\sqrt{9}}.$

$456968 := -8 + (6 + 9 + 6 + 5)^4.$

$457885 := 5^8 + (8 + 7^5) \times 4.$

$458329 := ((9^2 + 3) \times 8 + 5)^{\sqrt{4}}.$

$458444 := (-44 + 4^8) \times (5 + \sqrt{4}).$

$458668 := (8 + 6) \times (-6 + 8^{\sqrt{\sqrt{5^4}}}).$

$458672 := (2 + 7 \times (-6 + 8^5)) \times \sqrt{4}.$
$458688 := -8 + (8 + 6) \times (8^5 - 4).$
$458722 := -2 + 2 \times 7 \times (8^5 - \sqrt{4}).$
$458724 := 4/2 \times 7 \times (8^5 - \sqrt{4}).$
$458738 := -8 + (-3 + 7 \times 8^5) \times \sqrt{4}.$
$458742 := -2 + (-4 + 7 \times 8^5) \times \sqrt{4}.$
$458743 := -\sqrt{3^4} + 7 \times 8^5 \times \sqrt{4}.$
$458744 := 4/\sqrt{4} \times (7 \times 8^5 - 4).$
$458745 := -5 + \sqrt{4} \times 7 \times 8^5 - \sqrt{4}.$
$458746 := -6 + 4^7 \times (8 + 5 \times 4).$
$458747 := -7 + \sqrt{4} \times 7 \times 8^5 + \sqrt{4}.$
$458749 := -\sqrt{9} + 4^7 \times (8 + 5 \times 4).$
$458751 := -1^5 + 7 \times 8^5 \times \sqrt{4}.$
$458752 := (2 \times (-5 + 7))^8 \times (5 + \sqrt{4}).$
$458754 := \sqrt{4} \times (5 + 7 \times 8^5 - 4).$
$458756 := -6 + (5 + 7 \times 8^5) \times \sqrt{4}.$
$458758 := (8^5 \times 7 + 8 - 5) \times \sqrt{4}.$
$458759 := -\sqrt{9} + (5 + 7 \times 8^5) \times \sqrt{4}.$
$458762 := 2 \times (6 + 7 \times 8^5) - \sqrt{4}.$
$458764 := 4 \times (6 + 7 \times 8^5)/\sqrt{4}.$
$458773 := 3 \times 7 + (7 \times 8^5) \times \sqrt{4}.$
$458774 := (4 + 7 + 7 \times 8^5) \times \sqrt{4}.$
$458775 := -5 + (7 + 7) \times (8^5 + \sqrt{4}).$
$458784 := 4 \times (8 + (7 \times 8^5)/\sqrt{4}).$
$458847 := 7 \times (4^8 + 8 + 5) + 4.$
$458868 := (8 + 6) \times (8 + 8^5) + 4.$
$458872 := 2 \times (7 \times (8 + 8^5) + 4).$
$458876 := (6 + 7 \times (8 + 8^5)) \times \sqrt{4}.$
$459999 := 9^{\sqrt{9}} \times (9 - \sqrt{9} + 5^4).$
$466345 := 5 \times (-43 + 6^6 \times \sqrt{4}).$
$466695 := 5 \times (\sqrt{\sqrt{9^6}} + 6^6 \times \sqrt{4}).$
$467455 := -5^5 + (-4 + 7^6) \times 4.$
$467856 := ((6 - 5 + 8) \times 76)^{\sqrt{4}}.$
$468494 := \sqrt{4} \times (-9 + (\sqrt{4} \times 8 + 6)^4).$
$468512 := 2 \times (\sqrt{\sqrt{(1 - 5)^8}} + 6)^4.$
$468794 := ((-4 + 9)^7 + 8) \times 6 - 4.$
$468798 := ((8 - \sqrt{9})^7 + 8) \times \sqrt{\sqrt{6^4}}.$
$471969 := (\sqrt{9} + 691 - 7)^{\sqrt{4}}.$
$472396 := (6 \times 9)^3 \times \sqrt{2 + 7} + 4.$
$473256 := 6^{5-2} \times (3^7 + 4).$
$478864 := (\sqrt{4} - 6 + 8 \times 87)^{\sqrt{4}}.$
$479979 := \sqrt{9} \times (-7 + (9 \times \sqrt{9} - 7)^4).$
$479995 := -5 + \sqrt{9} \times (9 \times \sqrt{9} - 7)^4.$
$484384 := 4 \times (-8 + 348^{\sqrt{4}}).$
$484416 := ((6 + (1 - 4)^4) \times 8)^{\sqrt{4}}.$
$485809 := (9 \times 08 + \sqrt{5^8})^{\sqrt{4}}.$
$489636 := 63 \times (6^{-\sqrt{9}-8} - 4).$
$492075 := (5 + \sqrt{70^2}) \times 9^4.$
$492125 := 5^2 \times ((1 + 2)^9 + \sqrt{4}).$
$492804 := ((4 + 0 - 82) \times 9)^{\sqrt{4}}.$
$493846 := (6 + 4 \times 8)^3 \times 9 - \sqrt{4}.$
$494648 := (-8 + 4^6) \times (\sqrt{4} + 9)^{\sqrt{4}}.$
$496125 := 5 \times (21 \times (6 + 9))^{\sqrt{4}}.$
$497648 := 8 \times (\sqrt{4} \times 6^7/9 - \sqrt{4}).$
$498436 := (634 + 8 \times 9)^{\sqrt{4}}.$
$499447 := ((7 \times \sqrt{4})^4 + \sqrt{9}) \times (9 + 4).$
$499849 := (-94 + 89 \times 9)^{\sqrt{4}}.$
$499964 := ((-4 + 6 \times 9)^{\sqrt{9}} - 9) \times 4.$
$517536 := 6^3 \times (-5 + 7^{-1+5}).$
$518395 := (5 \times \sqrt{(9 + 3)^8} - 1) \times 5.$
$521017 := \sqrt{7^10} \times (-1 + 2^5).$
$521645 := (54 \times 6 - 1)^2 \times 5.$
$524181 := (181 \times 4)^2 + 5.$
$524268 := 8^6 \times 2 - \sqrt{4} \times 2 \times 5.$
$524281 := (-1 + 8^{2+4}) \times 2 - 5.$
$524384 := 4 \times 8 \times (3 + 4^{2+5}).$
$528369 := 9^6 - 3 \times (8/2)^5.$
$529979 := ((\sqrt{9^7} - \sqrt{9})/\sqrt{9})^2 - 5.$
$529989 := ((\sqrt{9^8} - 9)/9)^2 + 5.$
$530469 := 9^6 - 4 \times (03)^5.$
$531459 := (9^5 + \sqrt{4}) \times (1 + 3 + 5).$
$531469 := 9^6 - 4 \times (1 - 3 - 5).$
$531683 := \sqrt{\sqrt{3^{8 \times 6}}} - 1 + 3^5.$
$534375 := 57 \times 3 \times (\sqrt{4} + 3)^5.$
$537574 := (\sqrt{4} \times 7)^5 - 7 - 3^5.$
$537743 := -3^4 + (-7 + 7 \times 3)^5.$
$537817 := -7 + (18 - 7 + 3)^5.$
$537822 := -2 - ((2 - 8) \times 7/3)^5.$
$544639 := (9 + 3^6)^{4-\sqrt{4}} - 5.$
$544768 := (8 \times 67 - 4) \times 4^5.$
$546750 := \sqrt{(5 + 4)^6} \times 750.$
$549948 := 84 \times (-9 + 9^4 - 5).$
$552771 := 177 \times (-2 + 5^5).$
$556574 := (\sqrt{4} \times 7)^5 + 6 \times 5^5.$
$559817 := (7 - 1)^8/\sqrt{9} - 55.$
$559861 := -1 + 6^8/\sqrt{9} - 5 - 5.$
$559862 := 2 \times (6^{-8+\sqrt{9} \times 5} - 5).$
$559863 := (3 + 6^8)/\sqrt{9} - 5 - 5.$
$559864 := \sqrt{4} + 6^8/\sqrt{9} - 5 - 5.$
$559866 := -6 + 6^8/\sqrt{9} + 5 - 5.$
$559869 := \sqrt{9} \times (6^8/9 - 5/5).$
$559871 := (1 - 7)^8/\sqrt{9} - 5/5.$
$559882 := (2 - 8)^8/\sqrt{9} + 5 + 5.$
$567137 := 73 \times 1 \times (-7 + 6^5).$
$567644 := -4 + \sqrt{4} \times 6^7 + 6^5.$
$567648 := (8 \times (4 + 6) - 7) \times 6^5.$
$571434 := -4 + 34 \times 1 \times 7^5.$
$571574 := (4 + 7^5) \times (-1 + 7 \times 5).$
$581358 := 85^3 + 1 - 8^5.$
$589662 := (2 \times 6 + 6) \times (-9 + 8^5).$
$589672 := 2 \times (-76 + 9 \times 8^5).$
$589754 := \sqrt{4} \times (-5 \times 7 + 9 \times 8^5).$
$589779 := 9 \times ((7/7 + \sqrt{9})^8 - 5).$
$589782 := (-2 + 8) \times (-7 + \sqrt{9} \times 8^5).$
$589792 := 2 \times (-9 - 7 + 9 \times 8^5).$
$589817 := -7 + (1 + 8 + 9) \times 8^5.$
$589819 := 9 \times (1^8 + \sqrt{9})^8 - 5.$
$589822 := -2 + (-2 + 8) \times \sqrt{9} \times 8^5.$
$589834 := \sqrt{4} \times (-3 + 8 + 9 \times 8^5).$
$589837 := (7 - 3)^8 \times 9 + 8 + 5.$
$589866 := -6 + 6 \times (8 + \sqrt{9} \times 8^5).$
$589869 := -\sqrt{9} + 6 \times (8 + \sqrt{9} \times 8^5).$
$589935 := 5 \times (3^9 + \sqrt{9} \times 8^5).$
$589956 := 6 \times (-5 + \sqrt{9} \times (9 + 8^5)).$
$589962 := 2 \times (69 + 9 \times 8^5).$
$589972 := 2 \times (-7 + 9 \times (9 + 8^5)).$
$589986 := (-6 + 8) \times 9 \times (9 + 8^5).$
$589992 := 2 \times (\sqrt{9} + 9 \times (9 + 8^5)).$
$590485 := -5 + (8 + \sqrt{4}) \times (0 + 9^5).$
$614652 := (2 - 5 \times 6)^4 - \sqrt{16}.$
$614653 := -3 + 56^4/16.$
$614654 := -\sqrt{4} + 56^4/16.$
$614656 := (6 - 5 \times 6 - 4)^{\sqrt{16}}.$
$614659 := \sqrt{9} + 56^4/16.$
$624683 := ((38 + 6)^4 + 2)/6.$
$625687 := (786 + 5)^2 + 6.$
$629856 := 6^5 \times (89 - 2 - 6).$
$632684 := (4 + 8 \times 6) \times \sqrt{23^6}.$
$635993 := -63 + (5 + 9 \times 9)^3.$
$642972 := 2 \times (7 \times 9^2)^{\sqrt{4}} - 6.$
$644198 := (8 + \sqrt{9})^{1+4} \times 4 - 6.$
$649533 := (3 \times 3)^5 \times (9 + \sqrt{4}) - 6.$
$649594 := (\sqrt{4} + 9) \times (5 + \sqrt{9^{4+6}}).$
$652808 := 808^2 - 56.$
$655384 := (4^8 + 3) \times (5 + 5) - 6.$
$655584 := 4 \times (8^5 \times 5 + 56).$
$656196 := 6 \times (-9 + (1 + 6) \times 5^6).$
$658378 := 87^{\sqrt{\sqrt{\sqrt{3^8}}}} - \sqrt{5^6}.$
$658497 := (-7 + 94)^{8-5} - 6.$
$663546 := 6^4 \times \sqrt{(5 + 3)^6} - 6.$
$663549 := -\sqrt{9} + 4^5 \times 3 \times \sqrt{6^6}.$
$663588 := ((8 + 8 \times 5)^3 + 6) \times 6.$
$663759 := 9 \times (5^7 - 3^6 \times 6).$
$666791 := -1 + 9 \times \sqrt{7^6} \times \sqrt{6^6}.$
$666792 := 2 \times \sqrt{(\sqrt{9} \times 7)^6} \times 6 \times 6.$
$666794 := \sqrt{4} + 9 \times \sqrt{7^6} \times \sqrt{6^6}.$

$668736 := 6^{-3+7} \times 86 \times 6.$

$671742 := -2 + 4^7 \times (-1 + 7 \times 6).$

$671744 := \sqrt{(4 \times 4)^7} \times (-1 + 7 \times 6).$

$681478 := (8 \times (7 + 4))^{\sqrt{1+8}} + 6.$

$695478 := 87 \times ((4 \times 5)^{\sqrt{9}} - 6).$

$733824 := 42 \times 8 \times (-3 + 3^7).$

$734811 := 1 \times (18^4 - 3) \times 7.$

$734824 := 4 \times (-2 + 84 \times 3^7).$

$734832 := 2 \times 3^8 \times \sqrt{4^3} \times 7.$

$742558 := (8 + 5)^5 \times 2 - 4 \times 7.$

$746493 := -3 + \sqrt{(9 \times \sqrt{4})^6} \times \sqrt{4^7}.$

$746494 := -\sqrt{4} + \sqrt{(9 \times \sqrt{4})^6} \times \sqrt{4^7}.$

$746499 := \sqrt{9} + \sqrt{9} \times (\sqrt{4} \times 6)^{-\sqrt{4}+7}.$

$746624 := 4^2 \times 6^6 + \sqrt{4^7}.$

$747392 := ((2 \times 9)^3 + 7) \times \sqrt{4^7}.$

$753569 := (96 - 5)^3 + 5 - 7.$

$753664 := 46 \times (6 + 3 - 5)^7.$

$754279 := 97 \times (2 + 4)^5 + 7.$

$759364 := -4 + \sqrt{(6^3 + 9)^5} - 7.$

$759597 := (-7 + 95)^{\sqrt{9}} + 5^7.$

$765276 := -6 + 7^2 \times (5^6 - 7).$

$765279 := -\sqrt{9} + 7^2 \times (5^6 - 7).$

$765392 := 7^6 \times 5 + 3^{9+2}.$

$765429 := (9 - 2) \times (-4 + 5^6) \times 7.$

$765527 := 7^2 \times (5 + 5^6 - 7).$

$765597 := 7 \times (-9 + 5 + 5^6 \times 7).$

$773879 := -97 \times 8^3 + 7^7.$

$781264 := \sqrt{4} \times ((6 - 2 + 1)^8 + 7).$

$786434 := \sqrt{4} + 3 \times 4^{\sqrt{-6+87}}.$

$786583 := 3 \times (8^5 + 6) \times 8 + 7.$

$792098 := 890^2 - 9 + 7.$

$794624 := \sqrt{4} \times (2 + 6)^4 \times 97.$

$805295 := 5 \times ((9 + 2)^5 + 0 + 8).$

$822657 := (7 + (5 \times 6)^2)^2 + 8.$

$823287 := 7^{8+2-3} - 2^8.$

$823487 := 7 \times (-8 + (4 + 3)^{-2+8}).$

$823677 := 7^7 + 63 \times 2 + 8.$

$823778 := -8 + 7^7 + \sqrt{3^{2+8}}.$

$827992 := (2 + 9) \times 97^2 \times 8.$

$828092 := (2 + 908)^2 - 8.$

$830536 := (-6 + (-3 + 50)^3) \times 8.$

$830592 := (2 \times (-\sqrt{9} + 50))^3 + 8.$

$831875 := 5 \times (7 \times 8 - 1)^{\sqrt{\sqrt{\sqrt{3^8}}}}.$

$838784 := \sqrt{(-4 + 8)^7} \times (-8 + 3^8).$

$839763 := 3 \times 6^7 + 9 \times (3 - 8).$

$839764 := (-\sqrt{4} + 6^7) \times \sqrt{9} - 38.$

$839765 := -5 + 6^7 \times \sqrt{9} - 38.$

$839766 := (-6 + 6^7) \times \sqrt{9} - 3 \times 8.$

$839776 := (6^7 - 7) \times \sqrt{9} - 3 - 8.$

$839799 := (9 - \sqrt{9})^7 \times \sqrt{9} - \sqrt{\sqrt{3^8}}.$

$843648 := (8 \times 4 - 6)^3 \times 48.$

$845649 := (-9 + (46 + 5)^4)/8.$

$852384 := (4^8 + 32) \times (5 + 8).$

$854375 := (-5 + 7^3 \times 4) \times \sqrt{5^8}.$

$857157 := (7^5 \times 17) \times (-5 + 8).$

$857359 := 95^3 - (7 - 5) \times 8.$

$857565 := (56 - 5) \times (7^5 + 8).$

$859265 := (5^6 - 2) \times (-\sqrt{9} + 58).$

$859375 := 5^7 \times (-3 + 9) + 5^8.$

$885369 := 96^3 + \sqrt{5^8} + 8.$

$885695 := 5 \times (9^6/(-5 + 8) - 8).$

$885735 := 5 \times 3^{75-8\times8}.$

$885743 := 3^{4+7} \times 5 + \sqrt{8 \times 8}.$

$885816 := 6^{\sqrt{1+8}} \times (5 + \sqrt{8^8}).$

$892296 := (69 \times 2 - 2) \times \sqrt{9^8}.$

$907924 := \sqrt{4} \times 2 \times (-9 + 70)^{\sqrt{9}}.$

$917495 := (5 + 9) \times 4^{7+1} - 9.$

$923521 := (-1 + 2^5)^{-3-2+9}.$

$925965 := 5 \times (6 \times 9 + 5 - 2)^{\sqrt{9}}.$

$927369 := 963^{7-2-\sqrt{9}}.$

$928557 := 7 \times (55 - 8/2)^{\sqrt{9}}.$

$934407 := (\sqrt{7^{0+4}} - \sqrt{4})^3 \times 9.$

$937495 := -5 + (9 - 4)^7 \times (3 + 9).$

$937512 := (2 - 1 + 5^7) \times (3 + 9).$

$937514 := \sqrt{4} + (1 + 5^7) \times (3 + 9).$

$937524 := (4 - 2 + 5^7) \times (3 + 9).$

$937525 := 5^2 + 5^7 \times (3 + 9).$

$937534 := -\sqrt{4} + (3 + 5^7) \times (3 + 9).$

$937536 := (6 - 3 + 5^7) \times (3 + 9).$

$937539 := (9 + 3) \times 5^7 + 39.$

$937542 := (2 + 4 \times (5^7 + 3)) \times \sqrt{9}.$

$937548 := (8 - 4 + 5^7) \times (3 + 9).$

$937564 := \sqrt{4^6} + 5^7 \times (3 + 9).$

$937569 := -\sqrt{9} + (6 + 5^7) \times (3 + 9).$

$937584 := 4 \times ((8 + 5^7) \times 3 - \sqrt{9}).$

$940785 := -5 + (8 \times 70)^{\sqrt{4}} \times \sqrt{9}.$

$941186 := -6 + ((8 - 1) \times 14)^{\sqrt{9}}.$

$941189 := 98^{-1\times1+4} - \sqrt{9}.$

$941192 := (2 + 91 + 1 + 4)^{\sqrt{9}}.$

$943284 := ((4 + 8^2)^3 - 4) \times \sqrt{9}.$

$943293 := -3 + \sqrt{9} \times (2 \times 34)^{\sqrt{9}}.$

$943294 := -\sqrt{4} + \sqrt{9} \times (2 \times 34)^{\sqrt{9}}.$

$943296 := (6 + 9 \times 2) \times 34^{\sqrt{9}}.$

$944777 := -7 + (7 + 7 + 4)^4 \times 9.$

$944781 := 18^{7-\sqrt{4}}/\sqrt{4} - \sqrt{9}.$

$944782 := -2 + (8 \times 7 - \sqrt{4})^4/9.$

$944793 := 3^{\sqrt{9}+7} \times 4 \times 4 + 9.$

$944811 := (-1 + 18^4 + 4) \times 9.$

$944815 := -5 + (18^4 + 4) \times 9.$

$944928 := 8 \times (2 \times 9^4 + \sqrt{4}) \times 9.$

$944973 := (3 \times 7 + (9 \times \sqrt{4})^4) \times 9.$

$946239 := 9^3 \times (2 + 6^4) - \sqrt{9}.$

$957996 := (6 \times 9 + \sqrt{9}) \times 7^5 - \sqrt{9}.$

$979767 := 7 \times 6^7/(9 - 7) - 9.$

$994599 := (9 + \sqrt{9})^5 \times 4 - 9^{\sqrt{9}}.$

$996625 := (5 \times 2)^6 - (6 + 9)^{\sqrt{9}}.$

$997568 := -8^6 + ((5 + 7) \times 9)^{\sqrt{9}}.$

$999744 := -4^4 + (7 + \sqrt{9})^{9-\sqrt{9}}.$

$999901 := (10^{9-\sqrt{9}}) - 99.$

$999982 := (2 + 8)^{9-\sqrt{9}} - 9 - 9.$

$999991 := (1^9 + 99)^{\sqrt{9}} - 9.$

$999997 := (7 + \sqrt{9})^{9-\sqrt{9}} - 9/\sqrt{9}.$

# 6 Selfie Representations in Increasing and Decreasing Order of Digits

This section deals with the selfie numbers represented in increasing and decreasing order of digits . This we have divided in three subsections. The first one is in both orders, second is in increasing order of digits and third is in decreasing order.

## 6.1 Selfie Representations in Increasing and Decreasing Orders of Digits

$117641 := -1 + ((11 - 4)^6 - 7) = 7^6 + 4 - 11 - 1.$

$117642 := (-1 + 12 - 4)^6 - 7 = 7^6 + \sqrt{4} + 2 - 11.$

$117648 := (11 - 4)^6 + 7 - 8 = -8 + 7^6 - 4 + 11.$

$117655 := -1 + (\sqrt{-1 + 5} + 5)^6 + 7 = 7^6 + \sqrt{5 \times 5 + 11}.$

$117656 := \sqrt{(11\times 5-6)^6}+7 = 7^6+\sqrt{65-1}-1.$

$117659 := (1+1+5)^6+7+\sqrt{9} = 9+7^6+\sqrt{5-1}-1.$

$117669 := -1+(1+6)^6+7\times\sqrt{9} = \sqrt{9}+7^6+6+11.$

$118784 := (11\times\sqrt{4}+7)\times\sqrt{8^8} = \sqrt{8^8}\times(7+\sqrt{4}\times 11).$

$137732 := ((1+2)^{3\times 3}-7)\times 7 = 7\times(-7+\sqrt{3^{-3+21}}).$

$137733 := 1+(3^{3\times 3}-7)\times 7 = 7\times(-7+3^{3\times 3})+1.$

$137799 := (1+3^7\times 7)\times 9+9 = (\sqrt{9^9}+7)\times 7-31.$

$139965 := \sqrt{(1+35)^6}\times\sqrt{9}-\sqrt{9} = -\sqrt{9}+\sqrt{9}\times 6^{\sqrt{5+31}}.$

$139967 := -1+3\times 6^{(-7+9)\times\sqrt{9}} = (-9/9+7)^6\times 3-1.$

$139994 := -1+3\times((4\times 9)^{\sqrt{9}}+9) = \sqrt{9}\times(9+(9\times 4)^3)-1.$

$147393 := ((1+3)^{3+4}-7)\times 9 = 9\times(-7+\sqrt{\sqrt{4^{-3+31}}}).$

$147394 := 1+(-3-4+4^7)\times 9 = 9\times(-7+4^{4+3})+1.$

$156245 := -1+2\times(-\sqrt{4}+5\times 5^6) = -6+5^{5+\sqrt{4}}\times 2+1.$

$159358 := (-1+3\times 5^5)\times(8+9) = (9+8)\times(5^5\times 3-1).$

$165888 := \sqrt{\left(\sqrt{(-1+5)\times\sqrt{\sqrt{6^8}}}\right)^8\times 8} = 8\times(8+8)\times 6^{5-1}.$

$177143 := -11+3^{4+7}+7 = 7-7-4+3^{11}.$

$186368 := (-1+3^6)\times(-6+8)^8 = (-8\times 8+6^6)\times(3+1).$

$186614 := -1-1+4\times 6^6-8 = (-8+6^6\times 4)-1-1.$

$186616 := \sqrt{1\times 16}\times 6^6-8 = -8+6^6\times(6-1-1).$

$186625 := 1+(2^5\times 6^6)/8 = 8\times 6\times 6^5/2+1.$

$186626 := (1+2\times 6^6)\times(-6+8) = (8-6)\times(6^6\times 2+1).$

$186629 := \sqrt{-1+26}+6^8/9 = -\sqrt{9}+8\times(6^6/2+1).$

$186632 := 12/3\times 6^6+8 = 8+6^6\times(3+2-1).$

$186634 := \sqrt{1+3}+4\times 6^6+8 = 8+6^6\times 4+3-1.$

$186645 := 1+4\times(5+6^{\sqrt{\sqrt{\sqrt{6^8}}}}) = 8\times(6^6+5)/\sqrt{4}+1.$

$186656 := (-1+5)\times(6+6^6)+8 = 8+(6+6^6)\times(5-1).$

$186659 := (-1+5)\times(6^6+8)+\sqrt{9} = \sqrt{9}+(8+6^6)\times(5-1).$

$188415 := -1+(1+45)\times\sqrt{8^8} = \sqrt{8^8}\times(5+41)-1.$

$188416 := (1-1+46)\times\sqrt{8^8} = \sqrt{8^8}\times(6+41-1).$

$194478 := (-1+4)^4\times\sqrt{7^8}-\sqrt{9} = \sqrt{\sqrt{9^8}}\times 7^4-4+1.$

$196829 := -1+(\sqrt{-2+6}+8)\times\sqrt{9^9} = \sqrt{9^9}\times(8+\sqrt{6-2})-1.$

$226981 := (122/(-6+8))^{\sqrt{9}} = (-9+8+62)^{2+1}.$

$234256 := 22^{34-5\times 6} = (65-43)^{2^2}.$

$234259 := 22^{3-4+5}+\sqrt{9} = \sqrt{9}+(\sqrt{5^4}-3)^{2\times 2}.$

$236199 := 12\times\sqrt{(3+6)^9}+\sqrt{9} = \sqrt{9}\times((9\times 6)^3/2+1).$

$248831 := 12^{3+\sqrt{4}}-8/8 = (8+8-4)^{3+2}-1.$

$248832 := 2\times 2\times 3\times\sqrt{(4+8)^8} = (8+8-4)^{\sqrt{3+22}}.$

$253125 := \sqrt{(1+2)^{2^3}}\times 5^5 = 5\times(5\times 3)^{2\times 2}\times 1.$

$262138 := 1\times 2+2^{3\times 6}-8 = 8^6-\sqrt{3+22}-1.$

$262148 := 12+(-2\times 4)^6-8 = 8^6+4^{2-2+1}.$

$265489 := (-2\times 4+5^6)\times(8+9) = (-\sqrt{9}+\sqrt{8^6})\times 521.$

$265795 := (2+5^5)\times(6+79) = (9+76)\times(5^5+2).$

$278528 := (-2+2\times 5\times 7)\times\sqrt{8^8} = \sqrt{(8+8)^7}\times(-5+22).$

$279848 := (2+4)^7-8\times(8+\sqrt{9}) = 9+(8+8+7)^4-2.$

$279924 := (-2+2\times 4)^7-9-\sqrt{9} = (9-\sqrt{9})^7-(4+2)\times 2.$

$279926 := -22+6^7+9+\sqrt{9} = (9-\sqrt{9})^7-6\times 2+2.$

$279935 := (-2+3+5)^7-9/9 = ((9-\sqrt{9})^7)-(5-3)/2.$

$279937 := (2-3+7)^7+9/9 = (\sqrt{9}\times(9-7))^7+3-2.$

$279941 := -1+(2+4)^7+9-\sqrt{9} = (9-\sqrt{9})^7+\sqrt{4+21}.$

$279942 := (2+(2+4)^7/\sqrt{9})\times\sqrt{9} = (9-\sqrt{9})^7+4\times 2-2.$

$279943 := -2+(3\times\sqrt{4})^7+\sqrt{9\times 9} = (9-\sqrt{9})^7+\sqrt{(4+3)^2}.$

$279944 := 2+(\sqrt{4}+4)^7+9-\sqrt{9} = (9-\sqrt{9})^7-(4\times 4)/2.$

$279946 := 2-4+6^7+9+\sqrt{9} = (9-\sqrt{9})^7+\sqrt{(6+4)^2}.$

$279954 := (2\times\sqrt{4+5})^7+9+9 = (9-\sqrt{9})^7+5\times 4-2.$

$279966 := 2\times 6+6^7+9+9 = (9-\sqrt{9})^7-6+6^2.$

$279969 := (2+6^7/\sqrt{9}+9)\times\sqrt{9} = -\sqrt{9}-((\sqrt{9}-9)^7)+6^2.$

$285719 := (12+5)\times 7^{8-\sqrt{9}} = (9+8)\times 7^5\times(2-1).$

$294897 := (-2+\sqrt{4^{7+8}})\times 9+\sqrt{9} = \sqrt{9}+9\times(8^{7-\sqrt{4}}-2).$

$294948 := (\sqrt{2^4}+(4\times 8)^{\sqrt{9}})\times 9 = (9+9)\times(8^4\times 4+2).$

$294984 := (2\times 4+(4\times 8)^{\sqrt{9}})\times 9 = (9+9\times 8^4)\times 4\times 2.$

$314429 := -1-2+(34\times\sqrt{4})^{\sqrt{9}} = -\sqrt{9}+(4+4^3)^{2+1}.$

$314929 := 1+2^3\times\sqrt{4}\times\sqrt{9^9} = (9^{\sqrt{9}})\times 432+1.$

$323435 := 2+33^3\times(4+5) = (5+4)\times 33^3+2.$

$326567 := -(2+3)\times 5+6^6\times 7 = 7\times 6^6-5\times(3+2).$

$326576 := -\sqrt{2^{3+5}}+6^6\times 7 = 7\times(6^6-5+3)-2.$

$326613 := (1+2\times 3)\times(3+6^6) = (6^6+3)/3\times 21.$

$326648 := (2+3+\sqrt{4})\times(6^6+8) = (8+6^6)\times(\sqrt{4}+3+2).$

$326674 := -2+(3\times 4+6^6)\times 7 = 7\times(6^6+4\times 3)-2.$

$326676 := (2\times\sqrt{36}+6^6)\times 7 = 7\times(6^6+6+3\times 2).$

$342998 := -2+(3^4-8-\sqrt{9})^{\sqrt{9}} = (\sqrt{9\times 9}\times 8-\sqrt{4})^3-2.$

$352949 := 2+3\times(4+5\times 9)^{\sqrt{9}} = \sqrt{9}\times(9\times 5+4)^3+2.$

$354286 := 2\times\sqrt{\sqrt{3^{4\times(5+6)}}}-8 = -8+6\times(5+4)^{3+2}.$

$354291 := (-1+2\times(\sqrt{3^{4\times 5}}))\times\sqrt{9} = 9^5\times\sqrt{4}\times 3-2-1.$

$354292 := -2+2\times 3^{4+5}\times 9 = 9^5\times\sqrt{4+32}-2.$

$354296 := 2\times(3+(4+5)^6)/\sqrt{9} = (\sqrt{9}^{6+5}+4-3)\times 2.$

$354339 := (3^{3\times 3}\times\sqrt{4}+5)\times 9 = 9\times(5+\sqrt{4}\times 3^{3\times 3}).$

$389018 := 0+1+(\sqrt{3^8}-8)^{\sqrt{9}} = (9+8\times 8)^3+1+0.$

$397944 := 3\times(4+47)^{\sqrt{9}}-9 = \sqrt{9}\times(-\sqrt{9}+(7+44)^3).$

$397953 := (-3-3+57)^{\sqrt{9}}\times\sqrt{9} = \sqrt{9}\times(-9+7+53)^3.$

$419966 := -1+(-\sqrt{4}+6^6+9)\times 9 = 9\times(\sqrt{9}+6^6+4)-1.$

$438979 := 3+(-\sqrt{4}+78)^{\sqrt{\sqrt{9\times 9}}} = \sqrt{9}+(-9+87-\sqrt{4})^3.$

$453789 := 3\times(4+5)\times 7^{8-\sqrt{9}} = \sqrt{\sqrt{\sqrt{9^8}}}\times\sqrt{(7^5)^{\sqrt{4}}}\times 3.$

$453962 := 2\times(3+\sqrt{4}+56)^{\sqrt{9}} = (9\times 6+5+\sqrt{4})^3\times 2.$

$458744 := \sqrt{4}\times(4+4)^5\times 7-8 = -8+7\times(5\times 4-4)^4.$

$459375 := (3+4)\times 5^5\times 7\times\sqrt{9} = \sqrt{9}\times 7\times 5^5\times(4+3).$

$466539 := -3+\sqrt{4}\times(5\times 6^6-9) = (-9+6^6\times 5)\times\sqrt{4}-3.$

$466544 := -4\times 4+\sqrt{4}\times 5\times 6^6 = (6^6\times 5)\times\sqrt{4}-4\times 4.$

$466546 := -\sqrt{4}+\sqrt{4}\times(5\times 6^6-6) = (6+6^6\times 5)\times\sqrt{4}+\sqrt{4}.$

$466548 := 4+\sqrt{4}\times(5\times 6^6-8) = (-8+6^6\times 5+\sqrt{4})\times\sqrt{4}.$

$466549 := \sqrt{4}\times(-4+5\times 6^6)-\sqrt{9} = -\sqrt{9}+(6^6\times 5-4)\times\sqrt{4}.$

$466550 := \sqrt{04}\times(-5+5\times 6^6) = (6^6\times 5-5)\times\sqrt{4}+0.$

$466551 := 1+\sqrt{4}\times(-5+5\times 6^6) = (6^6\times 5-5)\times\sqrt{4}+1.$

$466552 := -2\times 4+(5+5)\times 6^6 = 6^6\times(5+5)-4\times 2.$

$466553 := -3-4+(5+5)\times 6^6 = 6^6\times(5+5)-4-3.$

$466554 := -\sqrt{4}-4+(5+5)\times 6^6 = (6^6\times 5-\sqrt{5+4})\times\sqrt{4}.$

$466556 := \sqrt{4}+(5+5)\times 6^6-6 = 6^{\sqrt{6\times 6}}\times(5+5)-4.$

$466557 := 4+(5+5)\times 6^6-7 = -7+6^6\times(5+5)+4.$

$466558 := -\sqrt{4}+(5+5)\times 6^{\sqrt{\sqrt{6^8}}} = 8+(6^6\times 5-5)\times\sqrt{4}.$

$466559 := \sqrt{4}+(5+5)\times 6^6-\sqrt{9} = \sqrt{9}+6^6\times(5+5)-4.$

$466560 := \sqrt{04}\times 5\times 6^{\sqrt{6\times 6}} = 6^6\times(-6\times 5+40).$

$466561 := 1+(\sqrt{4}\times 5)\times 6^{\sqrt{6\times 6}} = 6^{\sqrt{6\times 6}}\times 5\times\sqrt{4}+1.$

$466562 := 2\times(4+5\times 6^6)-6 = 6+(6^6\times 5-\sqrt{4})\times 2.$

$466563 := -3+\sqrt{4}\times(5\times 6^6)+6 = 6+6^6\times 5\times\sqrt{4}-3.$

$466564 := \sqrt{4}\times(-4+5\times 6^6+6) = (6+6^6\times 5-4)\times\sqrt{4}.$

$466566 := \sqrt{4}\times 5\times 6^6+\sqrt{6\times 6} = \sqrt{6\times 6}+(6^6\times 5)\times\sqrt{4}.$

$466567 := \sqrt{4}\times 5\times 6^{\sqrt{6\times 6}}+7 = 7+6^{\sqrt{6\times 6}}\times 5\times\sqrt{4}.$

$466568 := (4+5\times 6^6)\times(-6+8) = (8-6)\times(6^6\times 5+4).$

$466569 := \sqrt{4}\times(5\times 6^6+6)-\sqrt{9} = -\sqrt{9}+(6+6^6\times 5)\times\sqrt{4}.$

$466599 := \sqrt{4}\times 5\times(6^6+\sqrt{9})+9 = 9+((\sqrt{9}+6^6)\times 5)\times\sqrt{4}.$

$468528 := (2+4\times\sqrt{(5+6)^8})\times 8 = (8+(8-6\times 5)^4)\times 2.$

$468759 := \sqrt{4}\times 5^6\times(7+8)+9 = (-\sqrt{9}+8)^7\times 6+5+4.$

$472398 := (2+3^{\sqrt{4}+7}\times 8)\times\sqrt{9} = \sqrt{9}\times((8\times 7-\sqrt{4})^3+2).$

$497666 := ((\sqrt{4}\times 6)^6/6-7+9) = ((9-7)\times 6)^6/6+\sqrt{4}.$

$497668 := 4+(6+6)^7/(8\times 9) = (\sqrt{9}-8-7)^6/6+4.$

$513216 := 11\times(-2+3+5)^6 = 6^{5+3-2}\times 11.$

$524286 := 2^{24-5}+6-8 = (8-6)^{5\times 4}/2-2.$

$524292 := 2\times(2+2^{4+5+9}) = ((\sqrt{9}+5)^{4+2}+2)\times 2.$

$524328 := 2^{23-4}+5\times 8 = 8\times 5+\sqrt{4^{-3+22}}.$

$524448 := (2^{4\times 4}+4\times 5)\times 8 = 8\times(5\times 4+4^{4\times 2}).$

$531395 := -1+((3\times 3)^5-5)\times 9 = (9^5-5)\times 3\times 3-1.$

$531396 := (1+(3\times 3)^5-6)\times 9 = 9^6-5\times 3^{3-1}.$

$531435 := -1+3^{3+4+5}-5 = -5+(5+4)^{3+3}-1.$

$531440 := 0-1+3^{4\times\sqrt{4+5}} = \sqrt{(5+4)^{4\times 3}}-1+0.$

$531442 := (1+2)^{3\times 4}-4+5 = (5+4)^{\sqrt{4+32}}+1.$

$531459 := (\sqrt{1+3}+(4+5)^5)\times 9 = 9^6-\sqrt{5+4}+31.$

$531496 := 1+(\sqrt{3^{4\times 5}}+6)\times 9 = 9^6+5\times(4\times 3-1).$

$548864 := (4\times\sqrt{4^5}+6)\times\sqrt{8^8} = \sqrt{8^8}\times(65\times\sqrt{4}+4).$

$559862 := (-25-5+6^8)/\sqrt{9} = 9\times 8\times 6^5-5\times 2.$

$559869 := ((5-5+6)^8-9)/\sqrt{9} = -\sqrt{9}+9\times 8\times\sqrt{6^{5+5}}.$

$574992 := \sqrt{\sqrt{2^4}}\times(57+9)^{\sqrt{9}} = (\sqrt{9}+9\times 7)^{\sqrt{5+4}}\times 2.$

$589818 := -1-5+\sqrt{(8+8)^8}\times 9 = 9\times\sqrt{(8+8)^8}-5-1.$

$589822 := -2+2^{5+8}\times 8\times 9 = \sqrt{\sqrt{\sqrt{9^8}}}\times 8^5\times 2-2.$

$589842 := (2+4^5\times 8\times 8)\times 9 = 9\times(8\times 8^5/4+2).$

$592704 := ((0+2+\sqrt{4}\times 5)\times 7)^{\sqrt{9}} = (9+75)^{4-2^0}.$

$629848 := -2\times 4+6^8/8\times\sqrt{9} = (\sqrt{9^8}\times 8\times 6-4)\times 2.$

$629853 := (2\times 3^5)\times\sqrt{6^8}-\sqrt{9} = \sqrt{\sqrt{9^8}}\times 6^5-\sqrt{3^2}.$

$629856 := (-2+56)\times\sqrt{6^8}\times 9 = 9^{8-6}\times\sqrt{6^{5\times 2}}.$

$629868 := (-2+6+6^8/8)\times\sqrt{9} = (\sqrt{9^8}\times 8\times 6+6)\times 2.$

$663546 := 3\times 4^5\times\sqrt{6^6}-6 = -6+6\times(-6+54)^3.$

$663549 := (3\times 4^5)\times\sqrt{6^6}-\sqrt{9} = -\sqrt{9}+6\times(-6+54)^3.$

$699846 := (\sqrt{4}+6^6\times(8-\sqrt{9}))\times\sqrt{9} = -\sqrt{9}\times((\sqrt{9}-8)\times 6^6-\sqrt{4}).$

$699867 := 6^6\times(7+8)+\sqrt{9}\times 9 = \sqrt{9}\times 9+(8+7)\times 6^6.$

$728991 := (12+78)^{\sqrt{9}}-9 = -9+(\sqrt{9}+87)^{2+1}.$

$728997 := (2\times 7\times 7-8)^{\sqrt{9}}-\sqrt{9} = -\sqrt{9}+(\sqrt{9}+87)^{\sqrt{7+2}}.$

$746464 := -4+4\times(4\times 6^6-7) = (-7+6^6\times 4)\times 4-4.$

$746468 := 4\times(4\times 6^6-\sqrt{\sqrt{\sqrt{7^8}}}) = 8\times(-7+6^6\times 4)/\sqrt{4}.$

$746493 := -3+(4+4)\times 6^7/\sqrt{9} = (9+7)\times 6^{\sqrt{4}+4}-3.$

$746494 := -\sqrt{4}+(4+4)\times 6^7/\sqrt{9} = (9+7)\times 6^{\sqrt{4}+4}-\sqrt{4}.$

$746498 := \sqrt{4}+\sqrt{4}\times(-6+78)^{\sqrt{9}} = (\sqrt{9}-8-7)^6/4+\sqrt{4}.$

$746499 := ((4+4)\times 6^7+9)/\sqrt{9} = \sqrt{9}+(9+7)\times 6^{\sqrt{4}+4}.$

$746608 := \sqrt{04}\times(6^6+7)\times 8 = 8\times(7+6^6)\times\sqrt{4}+0.$

$746664 := 4\times(4\times 6^6+6\times 7) = (7\times 6+6^6\times 4)\times 4.$

$759358 := (3\times 5)^5+7-8\times\sqrt{9} = (-9+(8+7)^5-5-3).$

$777924 := ((2-\sqrt{4^7})\times 7)^{\sqrt{\sqrt{7+9}}} = (9\times 7\times(7+7))^{4/2}.$

$786429 := ((2\times 4)^6+7-8)\times\sqrt{9} = -\sqrt{9}+8^7\times 6/4^2.$

$786432 := 2\times 3\times(-\sqrt{4}+6)^7\times 8 = \sqrt{\sqrt{87-6}}\times 4^{3^2}.$

$823545 := 2+(3+4)^{-\sqrt{5/5}+8} = (8-5/5)^{4+3}+2.$

$823767 := \sqrt{(2\times 3)^6}+7^7+8 = 8+7^7+\sqrt{6^{3\times 2}}.$

$827647 := \sqrt{2^{4\times 6}}+7^7+8 = 8+7^7+64^2.$

$839664 := 3\times\sqrt{4}\times(6^6-8)\times\sqrt{9} = \sqrt{9}\times(-8\times 6+6^{4+3}).$

$875336 := (3+3+5^6)\times 7\times 8 = 8\times 7\times(6+5^{3+3}).$

$884739 := 3+(\sqrt{4}\times(7\times 8-8))^{\sqrt{9}} = \sqrt{9}+((-8+8\times 7)\times\sqrt{4})^3.$

$885735 := 3^{5+5}\times(7+\sqrt{8\times 8}) = \sqrt{(88-7)^5}\times 5\times 3.$

$886468 := 4+\sqrt{6^6}\times(8+\sqrt{8^8}) = (8+\sqrt{8^8})\times\sqrt{6^6}+4.$

$912673 := ((12+3)\times 6+7)^{\sqrt{9}} = 97^{63/21}.$

$934407 := \sqrt{(03)^4}\times(47)^{\sqrt{9}} = 9\times(\sqrt{7^4}-\sqrt{4})^3+0.$

$943298 := 2+3\times(-4+8\times 9)^{\sqrt{9}} = \sqrt{9}\times(9\times 8-4)^3+2.$

$944496 := (44+4)\times(-6+\sqrt{9^9}) = (\sqrt{9^9}-6)\times(4+44).$

## 6.2 Selfie Representations in Increasing Order of Digits

$112896 := 112^{-6+8} \times 9.$

$112923 := (112^2 + 3) \times 9.$

$114244 := (-11 + 24)^4 \times 4.$

$114352 := 112 \times (-3 + 4^5).$

$114674 := (-1 - 1 + 4 \times 4^6) \times 7.$

$114677 := -11 - (\sqrt{4} - 6)^7 \times 7.$

$114772 := (1 \times 12 + 4^7) \times 7.$

$114921 := \sqrt{(1 + 112)^4} \times 9.$

$115472 := 112 \times (4^5 + 7).$

$117128 := 11^{-1-2+7} \times 8.$

$117184 := (11^{1\times4} + 7) \times 8.$

$117584 := (11^4 + 57) \times 8.$

$117777 := (1 + 1)^7 + 7^7/7.$

$118459 := 11^{\sqrt{4+5}} \times 89.$

$123541 := 11^2 \times (-3 + 4^5).$

$124416 := \sqrt{(1 \times 12)^{4+4}} \times 6.$

$124419 := (1 + 12^4) \times \sqrt{4} \times \sqrt{9}.$

$124464 := (12^4 + 4 + 4) \times 6.$

$124751 := 11^2 \times (4^5 + 7).$

$124856 := -\sqrt{12^4} + 5^6 \times 8.$

$124925 := 122 \times 4^5 - \sqrt{9}.$

$124928 := 122 \times \sqrt{4} \times 8^{\sqrt{9}}.$

$124997 := (1 + 2 + 47)^{\sqrt{9}} - \sqrt{9}.$

$124998 := 1 + (2 + 48)^{\sqrt{9}} - \sqrt{9}.$

$124999 := -1 + (-2 + 49 + \sqrt{9})^{\sqrt{9}}.$

$125294 := 122 \times (4^5 + \sqrt{9}).$

$125648 := ((1 + 2)^4 + 5^6) \times 8.$

$125943 := 123 \times 4^5 - 9.$

$131769 := \sqrt{11^{sqrt-3+67}} \times 9.$

$133848 := \sqrt{(13 \times 3)^4} \times 88.$

$134456 := (1 \times 3 + 4)^4 \times 56.$

$136857 := (1^3 + 56) \times \sqrt{7^8}.$

$137719 := 1 + (-1 + 3^7) \times 7 \times 9.$

$137774 := (-1 + 3^{\sqrt{4+77}}) \times 7.$

$138958 := (-1 + 35) \times (\sqrt{8^8} - 9).$

$139959 := (1 + 35)^{\sqrt{9}} \times \sqrt{9} - 9.$

$139971 := (1 + (-1 + 37)^{\sqrt{9}}) \times \sqrt{9}.$

$139995 := ((1 + 35)^{\sqrt{9}} + 9) \times \sqrt{9}.$

$140625 := \sqrt{(01 + 2)^4} \times 5^6.$

$143648 := 134^{-4+6} \times 8.$

$145117 := ((1 + 11)^4 - 5) \times 7.$

$146410 := (0 + 11)^4 \times (4 + 6).$

$146411 := 1 + 11^4 \times (4 + 6).$

$146655 := -1 + (\sqrt{4} \times 5)^5 + 6^6.$

$147249 := (1 - 24 + 4^7) \times 9.$

$147349 := 1 + (-3 \times 4 + 4^7) \times 9.$

$147383 := -1 + 3 \times 3 \times (4^7 - 8).$

$147384 := (13 - 4) \times (4^7 - 8).$

$147397 := 1 + 3 + (4^7 - 7) \times 9.$

$147419 := -1 - (1 \times 4 - 4^7) \times 9.$

$147429 := (-12/4 + 4^7) \times 9.$

$147439 := -13 - 4 + 4^7 \times 9.$

$147448 := \sqrt{(1 - 4)^4} \times 4^7 - 8.$

$147449 := -14/\sqrt{4} + 4^7 \times 9.$

$147491 := -1 + (1 \times 4 + 4^7) \times 9.$

$147492 := (\sqrt{12 + 4} + 4^7) \times 9.$

$147493 := 1^3 + (4 + 4^7) \times 9.$

$147494 := 1 \times sqrt4 + (4 + 4^7) \times 9.$

$147897 := (1 \times 4^7 + \sqrt{\sqrt{7^8}}) \times 9.$

$151734 := 11^3 \times \sqrt{4} \times 57.$

$151959 := ((1 + 1)^5 + 5)^{\sqrt{9}} \times \sqrt{9}.$

$153657 := (-1 + \sqrt{(3 + 5 \times 5)^6}) \times 7.$

$156254 := 1 \times 2 \times (\sqrt{4} + 5 \times 5^6).$

$156816 := (115 + 6) \times \sqrt{6^8}.$

$156864 := (-1 + (\sqrt{4} + 5)^6)/6 \times 8.$

$160867 := (0 + 1 + 66) \times \sqrt{7^8}.$

$161045 := \sqrt{\sqrt{(011)^{4\times5}}} - 6.$

$161051 := (011)^{-1^5+6}.$

$161587 := 11^5 + 67 \times 8.$

$165886 := -\sqrt{-1 + 5} + \sqrt{(6 + 6)^8} \times 8.$

$171875 := 11 \times 5^{7+7-8}.$

$172836 := 12 \times (-3 + 6 \times \sqrt{7^8}).$

$172869 := 12 \times 6 \times \sqrt{7^8} - \sqrt{9}.$

$172889 := -1 + (2 + \sqrt{7^8} \times 8) \times 9.$

$173664 := 134 \times \sqrt{6 \times 6^7}.$

$175692 := 12 \times (5 + 6)^{\sqrt{7+9}}.$

$176457 := (1 + 4 + 5)^6 - 7^7.$

$182476 := (12 + \sqrt{4^6}) \times \sqrt{7^8}.$

$185191 := -1 - 1 + (-1 + 58)^{\sqrt{9}}.$

$185192 := -1 + (1 - 2 + 58)^{\sqrt{9}}.$

$185193 := (1^13 + 58)^{\sqrt{9}}.$

$185194 := 1 + (-1^4 + 58)^{\sqrt{9}}.$

$186569 := 1 - 56 + 6^8/9.$

$186592 := -1 \times 2^5 + 6^8/9.$

$186619 := -11 + 6 + 6^8/9.$

$186643 := -13 + 4 \times (6^6 + 8).$

$186669 := (-1 + 6 + \sqrt{(6 + 6)^8}) \times 9.$

$186673 := (1 + 3) \times 6^6 + \sqrt{\sqrt{7^8}}.$

$186674 := 1 + 4 \times 6^6 + \sqrt{\sqrt{7^8}}.$

$186696 := \sqrt{16} \times 6^6 + 8 \times 9.$

$188417 := 1 + (-1 + 47) \times \sqrt{8^8}.$

$188784 := (-1 + 47) \times (\sqrt{8^8} + 8).$

$191664 := \sqrt{(11 \times \sqrt{4})^6} \times 6 \times \sqrt{9}.$

$192699 := (\sqrt{12^6} + \sqrt{9^9}) \times 9.$

$194672 := \sqrt{(-1 + 24)^6} \times (7 + 9).$

$195112 := (-1 - 1 + 12 \times 5)^{\sqrt{9}}.$

$196841 := (\sqrt{\sqrt{11^{4\times6}}} + 8)/9.$

$206839 := \sqrt{(023)^6} \times (8 + 9).$

$215991 := (1 \times 12 \times 5)^{\sqrt{9}} - 9.$

$215996 := -1 + (2 \times 5 \times 6)^{\sqrt{9}} - \sqrt{9}.$

$215997 := (1 + 2 + 57)^{\sqrt{9}} - \sqrt{9}.$

$215998 := 1 + (2 + 58)^{\sqrt{9}} - \sqrt{9}.$

$215999 := (12 \times 5)^{\sqrt{9}} - 9/9.$

$217728 := 12^{-2+7} \times 7/8.$

$218765 := -1 + 2 \times (5^6 \times 7 + 8).$

$223573 := (22^3 \times 3 - 5) \times 7.$

$226979 := -2 + (-\sqrt{-2 + 6} + 7 \times 9)^{\sqrt{9}}.$

$228488 := \sqrt{(2/2 + 4 + 8)^8} \times 8.$

$229373 := 2^{(2+3)\times3} \times 7 - \sqrt{9}.$

$229375 := 2 + 2^{3\times5} \times 7 - \sqrt{9}.$

$231525 := (-1 + 22)^3 \times 5 \times 5.$

$234178 := (-1 + 23)^4 - 78.$

$234222 := 22^{2\times2} - 34.$

$234248 := (22 \times (-3 + 4))^4 - 8.$

$234251 := (1 - 2 + 23)^4 - 5.$

$234262 := (22/(-2 + 3))^4 + 6.$

$234357 := -2 \times 3 + 3 \times (-4 + 5^7).$

$234373 := -2 + 3 \times (3 \times 3 - 4)^7.$

$234377 := 2 + 3 \times (3 \times 4 - 7)^7.$

$234579 := (2 \times 34 + 5^7) \times \sqrt{9}.$

$234759 := (2^{3+4} + 5^7) \times \sqrt{9}.$

$234989 := (-2 + (3^4 + 8)^{\sqrt{9}})/\sqrt{9}.$

$235364 := 2 \times (33 + (\sqrt{4} + 5)^6).$

$236193 := 12 \times 3^{3+6} - \sqrt{9}.$

$236195 := -1 + (2 \times 3^5)^{6/\sqrt{9}}.$

$237998 := 2 + (3 + \sqrt{7^8}) \times 99.$

$238326 := -2 + \sqrt{(-2 + 33)^6} \times 8.$

$238464 := 23 \times 4 \times \sqrt{4 \times 6^8}.$

$242998 := -2 + (-2 + 4 \times 8)^{\sqrt{9}} \times 9.$

$245856 := (2 + 4^5 \times 5) \times 6 \times 8.$

$248754 := (2 \times 4 + 4)^5 - 78.$

$248835 := 2 + (3 \times 4)^5 + 8/8.$

$248897 := \sqrt{(\sqrt{2^4} + 7)^8} \times (8 + 9).$

$249175 := \sqrt{\sqrt{12^{4\times5}}} + 7^{\sqrt{9}}.$

$249657 := 2^4 \times 5^6 - 7^{\sqrt{9}}.$

$249856 := 2^4 \times (5^{\sqrt{\sqrt{\sqrt{6^8}}}} - 9).$

$249957 := -2 \times 45 + (7 \times 9)^{\sqrt{9}}.$

$249982 := 2 \times (2 + 48)^{\sqrt{9}} - 9.$

$249997 := 2 \times (47 + \sqrt{9})^{\sqrt{9}} - \sqrt{9}.$

$251957 := 12^5 + \sqrt{5^{7+\sqrt{9}}}.$

$255994 := 2 \times (4^5 \times (5^{\sqrt{9}}) - \sqrt{9})$.
$259584 := (2^{4+5} - 5) \times 8^{\sqrt{9}}$.
$262123 := 1 - 22 + 2^{3\times 6}$.
$262131 := -11 - 2 + 2^{3\times 6}$.
$262132 := -12 + (2 + 2 \times 3)^6$.
$262136 := -1 \times 2 + 2^{3\times 6} - 6$.
$262137 := (12 \times 2/3)^6 - 7$.
$262139 := -1 \times 2 + 2^{3\times 6} - \sqrt{9}$.
$262141 := -\sqrt{11 - 2} + (2 \times 4)^6$.
$262142 := -1 \times 2 + 2^{24-6}$.
$262145 := 1 + 2^{(2-4+5)\times 6}$.
$262146 := 1 \times 2 + (-2 + 4 + 6)^6$.
$262149 := 1 \times 2 + (-2 \times 4)^6 + \sqrt{9}$.
$262153 := (1 + 2)^2 + (3 + 5)^6$.
$263538 := 2 \times 3 \times 3 \times \sqrt{(5 + 6)^8}$.
$264386 := 2 + 34 \times 6 \times \sqrt{6^8}$.
$265625 := (22 - 5) \times \sqrt{5^{6+6}}$.
$269586 := (2 \times 5^6 - \sqrt{6^8}) \times 9$.
$273383 := (2 + 3)^3 \times 3^7 + 8$.
$273456 := -(2 \times 3)^4 \times 5 + 6^7$.
$274629 := 2 \times 2 + (-\sqrt{4} + 67)^{\sqrt{9}}$.
$274649 := 24 + (-\sqrt{4} + 67)^{\sqrt{9}}$.
$275562 := 2 \times \sqrt{(2 + 5 \times 5)^6} \times 7$.
$276561 := -\sqrt{((1 + 2) \times 5)^6} + 6^7$.
$276563 := 2 - \sqrt{(3 \times 5)^6} + 6^7$.
$278492 := -2 + (-2 + 4^7) \times (8 + 9)$.
$278494 := (2 - 4 + 4^7) \times (8 + 9)$.
$279463 := 23^4 - 6 \times 7 \times 9$.
$279697 := -2 + 6^7 - 79 \times \sqrt{9}$.
$279834 := 23^4 + 7 \times (8 - 9)$.
$279838 := (2 + 3 \times 7)^{\sqrt{8+8}} - \sqrt{9}$.
$279841 := (-1 + 24)^{\sqrt{(\sqrt{\sqrt{\sqrt{7^8}}+9)}}}$.
$279843 := 23^4 + 7 - 8 + \sqrt{9}$.
$279846 := -\sqrt{2/\sqrt{4}} + 6^7 - 89$.
$279847 := (2 + 4)^{\sqrt{7\times 7}} - 89$.
$279861 := -1 - 2 + 6^7 - 8 \times 9$.
$279862 := -\sqrt{2^2} + 6^7 - 8 \times 9$.
$279863 := 2 - 3 + 6^7 - 8 \times 9$.
$279864 := \sqrt{((2 + 4) \times 6)^7} - 8 \times 9$.
$279866 := 2 + \sqrt{(6 \times 6)^7} - 8 \times 9$.
$279869 := 2 + 6^7 - 8 \times 9 + \sqrt{9}$.
$279873 := (2 \times 3)^7 - \sqrt{\sqrt{\sqrt{7^8}}} \times 9$.
$279876 := -2 + 6^7 - \sqrt{\sqrt{7^8}} - 9$.
$279886 := -2 + 6^7 - (8 + 8) \times \sqrt{9}$.
$279916 := -1 \times 2 + 6^7 - 9 - 9$.
$279938 := (2 \times 3)^7 + 8 - 9 + \sqrt{9}$.
$279948 := (2 + 4)^7 + \sqrt{8 \times (9 + 9)}$.
$279961 := -1 \times 2 + 6^7 + \sqrt{9} \times 9$.
$279962 := -\sqrt{2/2} + 6^7 + \sqrt{9} \times 9$.
$279963 := (2 \times (-3 + 6))^7 + \sqrt{9} \times 9$.
$279964 := 2^4 + 6^7 + 9 + \sqrt{9}$.
$279965 := 2^5 + 6^7 - \sqrt{\sqrt{9 \times 9}}$.
$279976 := -2 + 6^7 + 7 \times (-\sqrt{9} + 9)$.
$279984 := (2 + 4)^7 - 8 \times (\sqrt{9} - 9)$.
$279986 := 2 + 6^7 - 8 \times (\sqrt{9} - 9)$.
$282123 := (-1 + 22 \times 2) \times 3^8$.
$285768 := (-2 + 5)^6 \times \sqrt{\sqrt{7^8}} \times 8$.
$287496 := (24 \times 6 - 78)^{\sqrt{9}}$.
$287498 := 2 + (-4 + 78 - 8)^{\sqrt{9}}$.
$294768 := 2 \times ((-\sqrt{4} + 6)^7 - 8) \times 9$.
$294888 := -24 + \sqrt{8^8} \times 8 \times 9$.
$294892 := -2 + (-2 + (4 \times 8)^{\sqrt{9}}) \times 9$.
$294912 := (1 \times 2)^{24-9} \times 9$.
$294913 := 1 + (-2 + 34)^{\sqrt{9}} \times 9$.
$294915 := (12 - 4)^5 \times 9 + \sqrt{9}$.
$294917 := -1 + 2 \times (4^7 \times 9 + \sqrt{9})$.
$294921 := 1 + 2^{24-9} \times 9$.
$294927 := (2 + 2 \times 4^7) \times 9 - \sqrt{9}$.
$294928 := -2 + (2 + (4 \times 8)^{\sqrt{9}}) \times 9$.
$294935 := 23 + \sqrt{4^{5\times\sqrt{9}}} \times 9$.
$294936 := 2^3 \times (4^6 \times 9 + \sqrt{9})$.
$294939 := ((-2 + 34)^{\sqrt{9}} + \sqrt{9}) \times 9$.
$294946 := -2 + (4 + \sqrt{4^{6+9}}) \times 9$.
$294974 := 2 \times (4 + (4^7 + \sqrt{9}) \times 9)$.
$294975 := ((2 \times 4)^5 + 7) \times \sqrt{9 \times 9}$.
$294987 := (2 \times 4^7 + 8) \times 9 + \sqrt{9}$.
$294993 := ((-2 + 34)^{\sqrt{9}} + 9) \times 9$.
$294995 := 2 + (\sqrt{4^{5\times\sqrt{9}}} + 9) \times 9$.
$295335 := (2 + 3^{3+5}) \times 5 \times 9$.
$295463 := 23^4 + 5^6 - \sqrt{9}$.
$295479 := ((2 \times 4)^5 + 7 \times 9) \times 9$.
$295488 := ((2 \times 4)^5 + 8 \times 8) \times 9$.
$296347 := -2 - 3 + 4 \times (6 \times 7)^{\sqrt{9}}$.
$296595 := \sqrt{25} \times (5 \times 6 + 9)^{\sqrt{9}}$.
$296597 := 2 + 5 \times (6 \times 7 - \sqrt{9})^{\sqrt{9}}$.
$299617 := -1 \times 2 + 6^7 + \sqrt{9^9}$.
$316368 := 13^3 \times \sqrt{\sqrt{(6 + 6)^8}}$.
$319488 := 13 \times 48 \times 8^{\sqrt{9}}$.
$326376 := -(2 \times 3)^3 + 6^6 \times 7$.
$328509 := ((0 + 23) \times (-5 + 8))^{\sqrt{9}}$.
$342997 := (23 + 47)^{\sqrt{9}} - \sqrt{9}$.
$343476 := (3 + 3^4) \times (4^6 - 7)$.
$347733 := 3^{3+3} \times 477$.
$349525 := (2 - 3 + 4^{5+5})/\sqrt{9}$.
$349528 := ((2^3 \times \sqrt{4})^5 + 8)/\sqrt{9}$.
$349875 := -3 \times (4^5 - \sqrt{\sqrt{7^8}}^{\sqrt{9}})$.
$352843 := 23^3 \times (4 + \sqrt{\sqrt{5^8}})$.
$352946 := 2 - 3 + (\sqrt{4} + 5)^6 \times \sqrt{9}$.
$354699 := 3^4 \times (5 + 6 \times 9^{\sqrt{9}})$.
$357911 := (1 + 13 + 57)^{\sqrt{9}}$.
$357926 := 23 \times (5^6 - 7 \times 9)$.
$359286 := 23 \times 5^6 - 89$.
$359628 := 23 \times (5^6 + 8 + \sqrt{9})$.
$367389 := (-3 + 3^6 \times 7 \times 8) \times 9$.
$369754 := (3 + 4)^5 \times (6 + 7 + 9)$.
$374994 := 3 \times (-\sqrt{4} + (47 + \sqrt{9})^{\sqrt{9}})$.
$375168 := 1 \times 3 \times (5^6 + 7) \times 8$.
$376824 := 23 \times (-\sqrt{4} + 6)^7 - 8$.
$389286 := 2 \times \sqrt{3^{6+8}} \times 89$.
$389893 := -3 + (3 - 8)^8 - 9^{\sqrt{9}}$.
$389896 := (3 - 6 + 8)^8 - 9^{\sqrt{9}}$.
$390583 := -033 + 5^8 - 9$.
$390598 := 0 \times 3 + 5^8 - \sqrt{9} \times 9$.
$390625 := (02 + 3)^{\sqrt{-5+69}}$.
$390628 := (-02 + 3 - 6)^8 + \sqrt{9}$.
$413357 := (\sqrt{1 + 3} + \sqrt{3^{4\times 5}}) \times 7$.
$419869 := 1 + (-4 + \sqrt{\sqrt{6^{8\times\sqrt{9}}}}) \times 9$.
$419886 := 1 \times \sqrt{4} \times (6^8/8 - 9)$.
$419895 := (-1 - (4 - 5 \times 8)^{\sqrt{9}}) \times 9$.
$419949 := (1 + 4 + (4 \times 9)^{\sqrt{9}}) \times 9$.
$434328 := (233^{\sqrt{4}} + \sqrt{4}) \times 8$.
$437465 := (-3 - \sqrt{4} + 4 \times 5^6) \times 7$.
$437516 := (1 + 3) \times (4 + 5^6 \times 7)$.
$437563 := (3 \times 3 + 4 \times 5^6) \times 7$.
$437665 := -3 + 4 \times (5^6 + 6) \times 7$.
$437675 := (-3 + 4 \times (5^6 + 7)) \times 7$.
$438973 := -\sqrt{3 \times 3} + (-\sqrt{4} + 78)^{\sqrt{9}}$.
$446148 := (-1 + 4)^{4+4} \times 68$.
$452939 := 23 \times (\sqrt{4} \times 5 + \sqrt{9^9})$.
$453317 := 1 + 3^{3\times 4} - 5^7$.
$453965 := 3 + \sqrt{4} \times (5 + 56)^{\sqrt{9}}$.
$454896 := (44 - 5) \times \sqrt{6^8} \times 9$.
$457143 := (1 + (3 + \sqrt{4}) \times 4)^5/7$.
$458748 := -4 + 4^5 \times 7 \times 8 \times 8$.
$458752 := \sqrt{2 \times \sqrt{4^{5\times 5}}} \times 7 \times 8$.
$458784 := (4 + 4^5 \times 7 \times 8) \times 8$.
$458966 := (-\sqrt{4} + \sqrt{(5 \times 6)^6}) \times (8 + 9)$.
$468522 := (22^4 + 5) \times (-6 + 8)$.
$468758 := \sqrt{4} \times 5^6 \times (7 + 8) + 8$.
$470596 := (0 + 4) \times (56 - 7)^{\sqrt{9}}$.
$472336 := 2^3 \times (3^{4+6} - 7)$.
$474298 := 2 - 4^4 + 78^{\sqrt{9}}$.
$479466 := (\sqrt{4} + 4^6) \times (6 + 7) \times 9$.
$492975 := -2 \times \sqrt{4^5} + 79^{\sqrt{9}}$.

$497662 := -2 + \sqrt{4^6} \times \sqrt{6^{7+\sqrt{9}}}$.

$499125 := (1+2) \times (-4+59)^{\sqrt{9}}$.

$499964 := 4 \times ((-4+6\times 9)^{\sqrt{9}} - 9)$.

$511999 := -1 + (-1^5 + 9 \times 9)^{\sqrt{9}}$.

$515625 := (1+2^5) \times \sqrt{(5\times 5)^6}$.

$517968 := \sqrt{(1+5)^6} \times (\sqrt{7^8} - \sqrt{9})$.

$518617 := 1 + \sqrt{(1+5)^6} \times \sqrt{7^8}$.

$524243 := 2^{23-4} - 45$.

$524274 := \sqrt{2^2} \times (4^{4+5} - 7)$.

$524279 := 2^{-2+\sqrt{4+5}\times 7} - 9$.

$524290 := 0 + 2 + 2^{\sqrt{4}\times 5+9}$.

$524291 := 1 \times 2^{24-5} + \sqrt{9}$.

$524294 := \sqrt{2^2} \times (4^{4+5} + \sqrt{9})$.

$524297 := 2^{-2+\sqrt{4+5}\times 7} + 9$.

$524299 := 2 + 2^{\sqrt{4}\times 5+9} + 9$.

$524488 := (2^{4\times 4} + \sqrt{\sqrt{5^8}}) \times 8$.

$524974 := 2 \times (4^{4+5} + 7^{\sqrt{9}})$.

$528632 := (-2 + (2\times 3)^5) \times 68$.

$531379 := 1 + ((3\times 3)^5 - 7) \times 9$.

$531384 := 1 + 3^{3\times 4} - 58$.

$531426 := -12 - 3 + (4+5)^6$.

$531428 := (1+2)^{3\times 4} - 5 - 8$.

$531429 := -12 + 3^{\sqrt{4+5}+9}$.

$531433 := -13 + 3^{3\times 4} + 5$.

$531434 := 1 \times 3^{3\times 4} - \sqrt{4} - 5$.

$531437 := -1 - 3 + \sqrt{\sqrt{3^{4*(5+7)}}}$.

$531495 := (1 + \sqrt{3^{4\times 5}} + 5) \times 9$.

$533847 := (3^{3\times 4} + 5) + \sqrt{7^8}$.

$534375 := 3 \times (3+\sqrt{4})^5 \times 57$.

$534573 := 3^{3\times 4} + 5^5 + 7$.

$537789 := -35 + (7+7)^{8-\sqrt{9}}$.

$546656 := \sqrt{4^5} \times 5^6 + 6^6$.

$546879 := 4 + 5^6 \times 7 \times (8 - \sqrt{9})$.

$547337 := (33 \times \sqrt{4} + 5^7) \times 7$.

$547575 := (4\times 5\times 5 + 5^7) \times 7$.

$549258 := 2 \times (4 + (5\times(5+8))^{\sqrt{9}})$.

$559816 := -1 - 55 + 6^8/\sqrt{9}$.

$559861 := -1 - 5 - 5 + 6^8/\sqrt{9}$.

$559864 := \sqrt{4} - 5 - 5 + 6^8/\sqrt{9}$.

$559866 := 5 - 5 - 6 + 6^8/\sqrt{9}$.

$559867 := -5 + (5 - 6 + 7)^8/\sqrt{9}$.

$559868 := -5 + (-5 + 6^8 + 8)/\sqrt{9}$.

$559871 := -1 + (-5/5 + 7)^8/\sqrt{9}$.

$559872 := (-2+5) \times \sqrt{(5+7)^8} \times 9$.

$559873 := (3 + (-5/5+7)^8)/\sqrt{9}$.

$559874 := \sqrt{4} + (-5/5+7)^8/\sqrt{9}$.

$559877 := 5 + (5 + 7/7)^8/\sqrt{9}$.

$559896 := 5\times 5 + (6^8 - \sqrt{9})/\sqrt{9}$.

$562392 := (2+2) \times (-3 + 5^6) \times 9$.

$562491 := (1 - 2 + 4 \times 5^6) \times 9$.

$562492 := (2+2) \times (-\sqrt{4} + 5^6 \times 9)$.

$562494 := -2 - 4 + 4 \times 5^6 \times 9$.

$562496 := 2 \times (-\sqrt{4} + 5^6 \times 6 \times \sqrt{9})$.

$562498 := -2 + 4 \times 5^{\sqrt{\sqrt{6^8}}} \times 9$.

$562499 := 2 + 4 \times 5^6 \times 9 - \sqrt{9}$.

$562644 := (2+4) \times (4 + 5^6) \times 6$.

$562646 := 2 + (4 + 5^6) \times 6 \times 6$.

$566937 := \left(-3 + \sqrt{(5\times 6)^6}\right) \times 7 \times \sqrt{9}$.

$566973 := 3 \times (\sqrt{(5\times 6)^6} \times 7 - 9)$.

$566997 := \sqrt{(5\times 6)^6} \times 7 \times \sqrt{9} - \sqrt{9}$.

$567378 := (-3^5 + 6) \times (7 - \sqrt{7^8})$.

$574991 := -1 + \sqrt{4} \times (57+9)^{\sqrt{9}}$.

$574994 := \sqrt{4} + \sqrt{4} \times (57+9)^{\sqrt{9}}$.

$575991 := (-1 + (5 + 5\times 7)^{\sqrt{9}}) \times 9$.

$575995 := (-5 + (5 + 5\times 7)^{\sqrt{9}}) \times 9$.

$583443 := (3 \times (3+4))^4 \times (-5+8)$.

$583759 := (3\times 5)^5 - (7\times 8)^{\sqrt{9}}$.

$585387 := \sqrt{3^{5+5}} \times (\sqrt{7^8} + 8)$.

$587965 := -5 \times (56 - (\sqrt{\sqrt{7^8}}^{\sqrt{9}}))$.

$588237 := (2 + 3^5) \times \sqrt{7^8} - 8$.

$589797 := ((5 - 7/7)^8 - \sqrt{9}) \times 9$.

$591948 := 14 \times 58 \times 9^{\sqrt{9}}$.

$595276 := 2 \times (-5^5 + 67^{\sqrt{9}})$.

$596288 := (2+5) \times (\sqrt{\sqrt{6^8}} + 8)^{\sqrt{9}}$.

$599386 := (-3 + \sqrt{5^6}) \times (8+9)^{\sqrt{9}}$.

$614644 := (14 \times \sqrt{4})^4 - 6 - 6$.

$627264 := \sqrt{22^4} \times \sqrt{6 \times 6^7}$.

$628342 := 22 \times \sqrt{(3+4+6)^8}$.

$629784 := 2 \times (-4 + 6^7/8) \times 9$.

$629838 := (-2\times 3 + 6^8/8) \times \sqrt{9}$.

$629847 := 2 \times (-4 + 6^7)/8 \times 9$.

$629874 := (2 + \sqrt{4} \times 6^7/8) \times 9$.

$629889 := (2 + 6^8/8 + 9) \times \sqrt{9}$.

$649728 := \sqrt{24^6} \times (7\times 8 - 9)$.

$655473 := 3 \times (\sqrt{4}+5)^5 \times (6+7)$.

$655935 := 35 \times (5^5 \times 6 - 9)$.

$656244 := (-2 + 44) \times 5^6 - 6$.

$656271 := (1 + 2 + 5^6 \times 6) \times 7$.

$656373 := -3 + (3 + 5^6) \times 6 \times 7$.

$656376 := (-3 + 5^6 + 6) \times 6 \times 7$.

$656379 := (3 + 5^6) \times 6 \times 7 + \sqrt{9}$.

$656417 := -1 + (4 + 5^6) \times 6 \times 7$.

$656979 := 5^6 \times 6 \times 7 + 9^{\sqrt{9}}$.

$658485 := 45 \times (\sqrt{(5+6)^8} - 8)$.

$658845 := 45 \times (5+6)^{\sqrt{8+8}}$.

$658944 := \sqrt{4^{4+5}} \times (\sqrt{6^8} - 9)$.

$659664 := (4^5 - 6) \times \sqrt{6^6 \times 9}$.

$663543 := 3 \times (-3 + 4^5 \times \sqrt{6^6})$.

$667648 := 4^6 \times (-6 + \sqrt{\sqrt{(6+7)^8}})$.

$684288 := (2+4) \times \sqrt{6^8} \times 88$.

$685994 := \sqrt{4} \times ((5\times(6+8))^{\sqrt{9}} - \sqrt{9})$.

$687544 := 44 \times (5^6 - 7 + 8)$.

$689395 := 35 \times (6 + 8 + \sqrt{9^9})$.

$699855 := (5 + 5 \times \sqrt{\sqrt{6^8}}^{\sqrt{9}}) \times \sqrt{9}$.

$703125 := (0 + 12 - 3) \times 5^7$.

$704969 := (0 + 4 + 6 + 79)^{\sqrt{9}}$.

$728998 := -2 + (-7 + 88 + 9)^{\sqrt{9}}$.

$734824 := (2 \times \sqrt{3^4})^4 \times 7 - 8$.

$734832 := (-2 \times 3 \times 3)^4 \times \sqrt{\sqrt{7^8}}$.

$746492 := 2 \times (-\sqrt{4} + 4 \times 6^7/\sqrt{9})$.

$751599 := ((-1+5)^5 + 7) \times 9^{\sqrt{9}}$.

$759312 := (12+3)^5 - 7 \times 9$.

$759352 := -2 + (3\times 5)^5 - 7 \times \sqrt{9}$.

$759354 := (3^4 \times 5^5 - 7) \times \sqrt{9}$.

$759355 := (3\times 5)^5 - 5 \times \sqrt{7+9}$.

$759359 := (3\times 5)^5 - 7 - \sqrt{9\times 9}$.

$759365 := (3\times 5)^5 + 6 - 7 - 9$.

$759366 := (3\times 5)^{6+6-7} - 9$.

$759375 := (3\times 5)^{\sqrt{57+7}-\sqrt{9}}$.

$759385 := (3\times 5)^5 - 7 + 8 + 9$.

$759395 := (3\times 5)^5 - 7 + \sqrt{9} \times 9$.

$759519 := 15^5 + (7+9) \times 9$.

$765427 := -2 + (-4 + 5^6) \times 7 \times 7$.

$765478 := (4 + 5^6 - 7) \times \sqrt{\sqrt{7^8}}$.

$765527 := (-2 + \sqrt{(5\times 5)^6}) \times 7 \times 7$.

$765576 := (5 + 5^6 - 6) \times 7 \times 7$.

$765625 := (2+5) \times \sqrt{5^{6+6}} \times 7$.

$765627 := 2 + 5^6 \times (6\times 7 + 7)$.

$765772 := ((2 + 5^6) \times 7 + 7) \times 7$.

$765977 := (5^6 + 7) \times 7 \times 7 + 9$.

$781243 := -1 + 2 \times (-3 + (\sqrt{4} - 7)^8)$.

$796875 := 5^6 \times ((-7 + \sqrt{\sqrt{7^8}}) + 9)$.

$815775 := -(1+5)^5 + 7^7 + 8$.

$823574 := 23 + (\sqrt{4}+5)^7 + 8$.

$824577 := 2 + 4^5 + 7^7 + 8$.

$830746 := 0346 \times \sqrt{7^8}$.

$839523 := 23^{\sqrt{\sqrt{(3-5)^8}}} \times \sqrt{9}$.

$839676 := (-36 + 6^7 - 8) \times \sqrt{9}$.

$839736 := 3 \times \sqrt{36^7} - 8 \times 9$.

$839766 := (-\sqrt{36} + 6^7 - 8) \times \sqrt{9}$.

$839768 := 3 \times 6^7 + 8 \times (-8 + \sqrt{9})$.

$839776 := 3 \times (6^7 - 7) - 8 - \sqrt{9}$.

$839784 := ((3 \times \sqrt{4})^7 - \sqrt{8\times 8}) \times \sqrt{9}$.

$839793 := ((3+3)^7 - 8) \times \sqrt{9} + 9.$
$839796 := 3 \times (6^7 + 8 - 9) - 9.$
$852357 := 2 + 355 \times \sqrt{7^8}.$
$859287 := (\sqrt{25^7} - 8) \times (8 + \sqrt{9}).$
$859371 := -1 - 3 + 5^7 \times (8 + \sqrt{9}).$
$859374 := 3 - 4 + 5^7 \times (8 + \sqrt{9}).$
$859378 := 3 + 5^7 \times (\sqrt{\sqrt{8+8}} + 9).$
$868352 := (2 + 35 \times 6) \times \sqrt{8^8}.$
$868624 := (2 \times 466)^{\sqrt{\sqrt{8+8}}}.$
$874576 := (-4 + (5^6 - 7) \times 7) \times 8.$
$874965 := (-4 + 5^6 \times 7) \times 8 - \sqrt{9}.$
$875256 := (2^5 + 5^6 \times 7) \times 8.$
$877952 := 2 \times (5 - 7 + 78)^{\sqrt{9}}.$
$884928 := 24 \times (8 + \sqrt{8^8} \times 9).$
$885743 := \sqrt{3^{4\times5}} \times (7+8) + 8.$
$889288 := (\sqrt{(2+8)^8} - 8) \times 89.$
$899973 := ((3+7)^{8-\sqrt{9}} - \sqrt{9}) \times 9.$
$917487 := ((-1 + 4^7 \times 7) \times 8 - 9).$
$923521 := (1 - 2^{2+3})^{-5+9}.$
$923523 := 2 + (-2 + 33)^{-5+9}.$
$925967 := 2 + 5 \times (-6 + 7 \times 9)^{\sqrt{9}}.$
$928557 := (2+5) \times (-5 + 7 \times 8)^{\sqrt{9}}.$
$937485 := (3 + 4 \times 5^7 - 8) \times \sqrt{9}.$
$937495 := (-3 - \sqrt{4}) + 5^7 \times (\sqrt{9} + 9).$
$937497 := -3 - (\sqrt{4} - 7)^7 \times (\sqrt{9} + 9).$
$937524 := (2^3 + 4 \times 5^7) \times \sqrt{9}.$
$937539 := 3 + (3 + 5^7) \times (\sqrt{9} + 9).$
$941191 := -1 + ((1+1) \times 49)^{\sqrt{9}}.$
$941192 := ((1 - 1 + 2) \times 49)^{\sqrt{9}}.$
$941193 := 1 + ((-1+3) \times 49)^{\sqrt{9}}.$
$941194 := 1 + 1 + (\sqrt{4} \times 49)^{\sqrt{9}}.$
$941869 := 1 + (-4 + \sqrt{6^8}) \times 9^{\sqrt{9}}.$
$943286 := 2 + 3 \times (-4 + 68^{\sqrt{9}}).$
$943294 := -2 + (34 \times \sqrt{4})^{\sqrt{9}} \times \sqrt{9}.$
$943296 := (2 \times 34)^{-6+9} \times \sqrt{9}.$
$943299 := (2 \times 34)^{\sqrt{9}} \times \sqrt{9} + \sqrt{9}.$
$946177 := 1 + 4^6 \times 77 \times \sqrt{9}.$
$959985 := 5 \times ((5 \times 8)^{\sqrt{9}} \times \sqrt{9} - \sqrt{9}).$
$963144 := 13 \times (-4 + 46)^{\sqrt{9}}.$
$979767 := 6^7 \times 7 / \sqrt{\sqrt{7+9}} - 9.$
$979776 := 6^7 \times 7 / \sqrt{\sqrt{7 + \sqrt{9 \times 9}}}.$
$984149 := -1 + (\sqrt{4} + 48) \times \sqrt{9^9}.$
$995326 := -2 + ((3+5) \times 6)^{\sqrt{9}} \times 9.$
$995626 := (2 \times 5)^6 - 6 \times 9^{\sqrt{9}}.$
$996625 := (2 \times 5)^6 - (6+9)^{\sqrt{9}}.$
$999919 := (1 + 99)^{\sqrt{9}} - 9 \times 9.$
$999982 := (2+8)^{9-\sqrt{9}} - 9 - 9.$
$999991 := (19 + 9 \times 9)^{\sqrt{9}} - 9.$
$999997 := (7 + \sqrt{9})^{(9+9)/\sqrt{9}} - \sqrt{9}.$

## 6.3 Selfie Representations in Decreasing Order of Digits

$104858 := ((8+8)^5 + 4)/10.$
$104944 := (9 \times \sqrt{4})^4 - \sqrt{\sqrt{4^{10}}}.$
$104963 := (\sqrt{9} \times 6)^4 - 3 - 10.$
$104964 := (\sqrt{9} \times 6)^4 - \sqrt{4} - 10.$
$104966 := ((9-6) \times 6)^4 - 10.$
$104969 := \sqrt{9} + (\sqrt{9} \times 6)^4 - 10.$
$104975 := (9 \times (7-5))^4 - 1^0.$
$104986 := (9 \times (8-6))^4 + 10.$
$105625 := (65 \times 5)^{2\times1+0}.$
$114737 := 7 \times (7 + \sqrt{4^{3+11}}).$
$115249 := (9+5)^4 \times (2+1) + 1.$
$116640 := 6^6/4 \times 1 \times 10.$
$116745 := (7 + 6^5) \times (4 + 11).$
$116964 := (9 \times (6 \times 6 + \sqrt{4}))^{1+1}.$
$117316 := 7^6 - 3 \times 111.$
$117406 := 7^6 - \sqrt{(4-1)^{10}}.$
$117571 := 7 \times (7^5 - 11) - 1.$
$117572 := 7 \times (\sqrt{7^{5\times2}} - 11).$
$117586 := -8 + 7^6 - 5 \times 11.$
$117596 := -\sqrt{9} + 7^6 - 51 + 1.$
$117613 := 7^6 - 3 \times (1 + 11).$
$117623 := 7^6 - 3^{2+1} + 1.$
$117624 := 7^6 - (4 + 21) \times 1.$
$117625 := 7^6 - (5^2 - 1) \times 1.$
$117626 := 7^6 - 6 \times 2 - 11.$
$117627 := \sqrt{(7 \times 7)^6} - 21 - 1.$
$117628 := -8 + 7^6 - 2 - 11.$
$117629 := -9 + 7^{\sqrt{6^2}} - 11.$
$117632 := 7^6 + 3 - 21 + 1.$
$117633 := 7^6 - 3^3 + 11.$
$117634 := 7^6 - 4^{3-1} + 1.$
$117635 := 7^6 - 5 \times 3 + 1 \times 1.$
$117636 := 7^6 - 6/3 - 11.$
$117637 := -7 + 7^6 - 3 - 1 - 1.$
$117638 := -8 + 7^6 - 3 + 1 - 1.$
$117639 := -9 + 7^6 - 3 + 1 + 1.$
$117640 := 7^{\sqrt{\sqrt{6^4}}} + 1 - 10.$
$117644 := 7^6 + \sqrt{4} + 4 - 11.$
$117646 := 7^6 + \sqrt{64} - 11.$
$117647 := 7 + 7^6 + \sqrt{4} - 11.$
$117650 := 7^6 + 511^0.$
$117651 := 7^6 + \sqrt{\sqrt{5+11}} \times 1.$
$117652 := 7^6 + \sqrt{-5+21} - 1.$
$117653 := 7^6 + 5 \times 3 - 11.$
$117657 := 7 + 7^6 + \sqrt{5-1} - 1.$
$117658 := 8 + 7^6 + \sqrt{5-1} - 1.$
$117673 := -7 + 7^6 + 31 \times 1.$
$117694 := \sqrt{9} + 7^6 + 41 + 1.$
$117695 := -9 + 7^6 + 5 \times 11.$
$117747 := 7 \times 7 \times (7^4 + 1 + 1).$
$117754 := 7 \times (7^5 + 4 + 11).$
$117775 := 7 \times (7 + 7^5 + 11).$
$117963 := \sqrt{9} + 7^6 + 311.$
$118098 := \sqrt{9^8} \times (8 + 1 \times 10).$
$119716 := (\sqrt{9} + \sqrt{7^{6\times1}})^{1+1}.$
$122880 := \sqrt{8^8} \times (-2 + \sqrt{2^{10}}).$
$126000 := 6 \times 21000.$
$127680 := 8 \times 76 \times 210.$
$127893 := \sqrt{9} \times (8 \times 73^2 - 1).$
$129024 := \sqrt{9} \times 42 \times 2^{10}.$
$129598 := -\sqrt{9} + (9 \times 8 \times 5)^2 + 1.$
$129599 := ((9 \times 9 - 9) \times 5)^2 - 1.$
$131264 := 64 \times (3 + 2^{11}).$
$132645 := -6 + (54 - 3)^{2+1}.$
$134457 := 7^5 \times (-4 + 4 \times 3) + 1.$
$134847 := \sqrt{(8 \times 7)^4} \times 43 - 1.$
$137257 := (7^7 + 5)/(3 \times 2) - 1.$
$137842 := (-8 + \sqrt{7^4})^3 \times 2 \times 1.$
$137969 := (\sqrt{9} + \sqrt{9^7}) \times 63 - 1.$
$137996 := \sqrt{9^9} \times 7 + 6^3 - 1.$
$139500 := 9 \times 5 \times 3100.$
$139644 := 9 \times \sqrt{6^4} \times 431.$
$139676 := (-97 + 6^6) \times 3 - 1.$
$141680 := (-8 + 6^4) \times 110.$
$142875 := -8 + (7 \times 54)^2 - 1.$
$144375 := 7 \times 5^4 \times (\sqrt{4} + 31).$
$145924 := (95 \times 4 + \sqrt{4})^2 \times 1.$
$145925 := (-\sqrt{9^5} + 5^4)^2 + 1.$
$146333 := 6 \times (-4 + 33)^3 - 1.$
$146450 := ((6+5)^4 + 4) \times 10.$
$147456 := (76 \times 5 + 4)^{\sqrt{4}} \times 1.$
$148877 := (\sqrt{8+8} + 7 \times 7)^{4-1}.$
$149769 := (9 + 9 \times 7 \times 6)^{\sqrt{4}} \times 1.$
$151279 := 9 \times (7^5 + 2) - 1 - 1.$
$151874 := (8+7)^5/(4+1) - 1.$
$151875 := (8+7)^5/(5-1+1).$
$153664 := (6 \times 65 + \sqrt{4})^{3-1}.$
$155620 := (6^5 + 5) \times 2 \times 10.$
$155850 := (-8 + 5^5) \times 5 \times 10.$

$156243 := -6 + 5^{4+3} \times 2 - 1.$
$156550 := (6 + 5^5) \times 5 \times 10.$
$156984 := \sqrt{9} \times 8 \times 6541.$
$157452 := -7 - 5 + 54^{2+1}.$
$157453 := -7 - 5 + 54^3 + 1.$
$157463 := (7 - 6) \times 54^3 - 1.$
$157464 := (7 - 6) \times 54^{4-1}.$
$158499 := 99 \times (\sqrt{(8 \times 5)^4} + 1).$
$159300 := \sqrt{9} \times 53100.$
$159997 := -\sqrt{9} + (\sqrt{9} \times 9 - 7)^{5-1}.$
$161792 := (\sqrt{9} + 76) \times 2^{11}.$
$163275 := 7 \times 6^5 \times 3 - 21.$
$163297 := \sqrt{9} \times 7 \times 6^{3+2} + 1.$
$163680 := 8 \times 66 \times 310.$
$166374 := (-7 + 66 - 4)^3 - 1.$
$166464 := (6 \times (66 + \sqrt{4}))^{\sqrt{4}} \times 1.$
$168750 := \sqrt{(8 + 7)^6} \times 5 \times 10.$
$169744 := ((97 + 6) \times 4)^{\sqrt{4}} \times 1.$
$172224 := (-7 + 422)^2 - 1.$
$172873 := 8 \times (7 \times 7 \times 3)^2 + 1.$
$174960 := \sqrt{9^7 \times 64} \times 10.$
$176371 := -776 + 3^{11}.$
$176400 := \sqrt{(7 \times 6)^4} \times 100.$
$176469 := (-\sqrt{9} + 7^6) \times 6/4 \times 1.$
$177133 := -7 \times \sqrt{7 - 3} + 3^{11}.$
$177135 := -\sqrt{7 \times 7} - 5 + 3^{11}.$
$177146 := -7/7 + (6/\sqrt{4})^{11}.$
$177153 := 7/7 + 5 + 3^{11}.$
$177154 := \sqrt{7 \times 7} + \sqrt{(5 + 4)^{11}}.$
$177193 := -\sqrt{9} + 7 \times 7 + 3^{11}.$
$178184 := 8 + 87 \times \sqrt{4^{11}}.$
$178929 := (9 \times (9 - 8 \times 7))^2 \times 1.$
$179331 := \sqrt{9^7} - 3 + 3^{11}.$
$181243 := 8^4 + \sqrt{3^{2 \times 11}}.$
$182700 := 87 \times 2100.$
$184329 := 9 \times (8^4 \times (3 + 2) + 1).$
$184789 := (\sqrt{9} + 8) \times (-8 + 7^{4+1}).$
$184877 := (\sqrt{8 + 8} + 7) \times 7^{4+1}.$
$186591 := \sqrt{9} \times (8 \times 6^5 - 11).$
$186593 := \sqrt{9} \times 8 \times 6^5 - 31.$
$186622 := 8 \times 6^6/2 - 2 \times 1.$
$186623 := ((8 - 6) \times 6^3)^2 - 1.$
$186664 := 8 \times (6 + 6^6/\sqrt{4} - 1).$
$186672 := 8 \times (7 + 6^6/2 - 1).$
$186795 := \sqrt{9} \times (8 \times (7 + 6^5) + 1).$
$191970 := \sqrt{9} \times 9 \times 7110.$
$192721 := (9 \times 7^2 - 2)^{1+1}.$
$192722 := (9 \times 7^2 - 2)^2 + 1.$
$193635 := 9 \times 65 \times 331.$
$194437 := (\sqrt{9} \times 7)^4 - 43 - 1.$
$194472 := (\sqrt{9} \times 7)^4 - 4 \times 2 - 1.$
$194473 := (\sqrt{9} \times 7)^4 - 4 \times (3 - 1).$
$194474 := (\sqrt{9} \times 7)^4 - 4 - 4 + 1.$
$194476 := (\sqrt{9} \times 7)^{6-\sqrt{4}} - 4 - 1.$
$194477 := -\sqrt{9} + (7 \times (7 - 4))^4 - 1.$
$194479 := 9 \times 9 \times 7^4 - \sqrt{4} \times 1.$
$194484 := \sqrt{9} + (84/4)^4 \times 1.$
$194489 := 9 + (9 + 8 + 4)^4 - 1.$
$194625 := (9 + 6^5) \times (4 + 21).$
$195314 := (\sqrt{9} + 5^{\sqrt{43}})/(1 + 1).$
$195980 := (\sqrt{9^9} - 85) \times 10.$
$196830 := \sqrt{9^8} \times (6 - 3) \times 10.$
$196855 := (\sqrt{9^8} \times 6 + 5) \times 5 \times 1.$
$196890 := (\sqrt{9 \times 9^8} + 6) \times 10.$
$197136 := (\sqrt{9} + 7 \times 63)^{1+1}.$
$197505 := 9 \times 7 \times 5^5 - 10.$
$209718 := \sqrt{9} + (8^7 - 2)/10.$
$209943 := -9 + 9^4 \times 32 + 0.$
$209944 := ((9 + 9)^4 - 4) \times 2 + 0.$
$209946 := (-\sqrt{9} + (\sqrt{9} \times 6)^4) \times 2 + 0.$
$209949 := -\sqrt{9} + (9 + 9)^4 \times 2 + 0.$
$209952 := 9^{9-5} \times \sqrt{\sqrt{2^{20}}}.$
$214375 := (7 \times 5)^4 \times 3/21.$
$216513 := (6 + 5) \times 3^{-2+11}.$
$219025 := (9 \times 52)^2 + 1^0.$
$224676 := (7 \times (66 + \sqrt{4}) - 2)^2.$
$226576 := (7 \times (6 \times (6 + 5) + 2))^2.$
$226935 := (9 + 6) \times (5^3 - 2)^2.$
$227529 := (9 \times (75 - 22))^2.$
$228484 := (8 \times (\sqrt{8^4} - 4) - 2)^2.$
$229385 := 9 + 8^5 \times (3 + 2 + 2).$
$229842 := (\sqrt{9} + 8 \times 42)^2 \times 2.$
$232324 := 4 \times (3^{3+2} - 2)^2.$
$232974 := 9 \times 7 \times 43^2 \times 2.$
$233289 := (\sqrt{9} + 8^3 - 32)^2.$
$234385 := 8 + 5^{4+3} \times 3 + 2.$
$235224 := 54 \times (3 \times 22)^2.$
$235276 := 7^6 \times (5 - 3) - 22.$
$235294 := ((9 \times 5 + 4)^3 - 2) \times 2.$
$235296 := (9 \times 6 - 5)^3 \times 2 - 2.$
$235298 := \sqrt{(9 + 8 \times 5)^{3 \times 2}} \times 2.$
$235445 := 5 \times (5 \times 44 - 3)^2.$
$236197 := \sqrt{9^7} \times 6^3/2 + 1.$
$237652 := 76 \times (5^{3+2} + 2).$
$237699 := 99 \times 7^{\sqrt{6 \times 3 - 2}}.$
$237994 := 99 \times (7^4 + 3) - 2.$
$238143 := (8 \times (4^3 - 3))^2 - 1.$
$239398 := -\sqrt{9^9} + (8^3 - 3)^2.$
$239432 := (\sqrt{9} + (4 + 3)^3)^2 \times 2.$
$244944 := \sqrt{(9 \times \sqrt{4})^{\sqrt{4}+4}} \times 42.$
$245337 := -7^5 + 4\sqrt{(3 \times 3)^2}.$
$246518 := 8^6 - 5^{4+2} - 1.$
$248656 := 8 \times ((-6 + 6^5) \times 4 + 2).$
$248824 := -8 + (8 + 4)^{4+2/2}.$
$248833 := 8/8 + (4 \times 3)^{3+2}.$
$248836 := \sqrt{8 + 8} + (6 \times \sqrt{4})^{3+2}.$
$248840 := 8 + (8 + 4)^{4+2^0}.$
$248856 := 8 + 8 \times (6^5 \times 4 + 2).$
$253952 := (\sqrt{9^5} + 5) \times 32^2.$
$254364 := -6^5 - 4 + 4^{3^2}.$
$255886 := -8 + 8^6 - 5^5 \times 2.$
$258663 := 8^6 - (6 + 53)^2.$
$260846 := 8^6 - 6^4 - 2 + 0.$
$260864 := 8^6 - 64 \times 20.$
$261823 := 8^6 - 322 + 1.$
$262118 := 8^6 - 2 \times (2 + 11).$
$262128 := 8^6 - 2 \times 2^{2+1}.$
$262158 := 8^6 - 5 - 2 + 21.$
$262168 := 8^6 + 6/2 + 21.$
$262182 := 8^6 + 2 \times (-2 + 21).$
$262183 := 8^6 - 3 + 2 \times 21.$
$262184 := 8^6 + (42 - 2) \times 1.$
$262186 := 8^6 + \sqrt{6 - 2} \times 21.$
$262189 := \sqrt{9} + 8^6 + 2 \times 21.$
$262208 := 8^6 + 2 \times \sqrt{\sqrt{2^{20}}}.$
$262268 := 8^6 + \sqrt{(62 \times 2)^2}.$
$262286 := 8^6 + (6 \times 2)^2 - 2.$
$262468 := 8^6 + 6^4/(2 + 2).$
$262584 := 8^6 + 5 \times 4 \times 22.$
$262628 := 8^{\sqrt{6 \times 6}} + 22^2.$
$262648 := 8^6 + 6 \times 42 \times 2.$
$263168 := (86 \times 6 - 3)^2 - 1.$
$263984 := -9 + 8^6 + 43^2.$
$264188 := -8 + (\sqrt{8^6} + \sqrt{4})^2 \times 1.$
$264198 := \sqrt{9} + (\sqrt{8^6} + \sqrt{4})^2 - 1.$
$264992 := (\sqrt{9} + \sqrt{9^6} - 4)^2/2.$
$267289 := (\sqrt{9} - 87 \times 6 + 2)^2.$
$268322 := (\sqrt{8^6} + 3 \times 2)^2 - 2.$
$268324 := (86 + 432)^2.$
$268544 := 8^6 + (5 \times 4 \times 4)^2.$
$268784 := 8 \times (-8 + \sqrt{7^{6+4}}) \times 2.$
$268895 := -9 - 8 + (8 + 6)^5/2.$
$268915 := \sqrt{9} + (8 + 6)^5/2 \times 1.$
$269568 := \sqrt{9} \times 8 \times \sqrt{6^6} \times 52.$
$272482 := (87 \times (4 + 2))^2 - 2.$
$272484 := \sqrt{87^4} \times (4 + 2)^2.$

$272486 := (87 \times 6)^{4/2} + 2.$

$272526 := 7 \times 6 + 522^2.$

$273369 := \sqrt{9} \times ((7 \times 6 + 3)^3 - 2).$

$273455 := 7 \times (5 + 5^{4+3})/2.$

$274625 := ((7 + 6) \times 5)^{(4+2)/2}.$

$275625 := (7 \times (65 + 5 \times 2))^2.$

$276340 := (-7 + (6 \times 4)^3) \times 20.$

$276674 := (7 \times 76 - 6)^{\sqrt{4}} - 2.$

$276676 := (7 \times 76 - 6)^{\sqrt{6-2}}.$

$276679 := \sqrt{9} + (-7 \times 76 + 6)^2.$

$278784 := (8 + 8 \times (7 - 74))^2.$

$278793 := 9 + (8 \times (7 - 73))^2.$

$279494 := (9 - \sqrt{9})^7 - 442.$

$279792 := (9 - \sqrt{9})^7 - 72 \times 2.$

$279887 := \left(\sqrt{9 \times \sqrt{8 + 8}}\right)^7 - 7^2.$

$279894 := \left(9 - \sqrt{\sqrt{\sqrt{\sqrt{9^8}}}}\right)^7 - 42.$

$279904 := (9 - \sqrt{9})^7 - \sqrt{\sqrt{\sqrt{4^{20}}}}.$

$279929 := -\sqrt{9} + (-\sqrt{9} + 9)^7 - 2 - 2.$

$279940 := (9 - \sqrt{9})^7 + \sqrt{-4 + 20}.$

$279949 := 9 + (-\sqrt{9} + 9)^7 + \sqrt{4^2}.$

$279951 := (9 - \sqrt{9})^7 + 5 \times (2 + 1).$

$279953 := ((9 - \sqrt{9})^7 - (((-5) \times 3) - 2)).$

$279957 := (9 - \sqrt{9})^7 + 7 \times (5 - 2).$

$279972 := (9 - \sqrt{9})^7 + 72/2.$

$279976 := (9 - \sqrt{9})^7 + 7 \times 6 - 2.$

$281994 := (-\sqrt{9} + \sqrt{9^8}) \times (42 + 1).$

$282240 := 84^2 \times 2 \times 20.$

$283648 := 8864 \times 32.$

$286225 := (\sqrt{8^6} + 5^2 - 2)^2.$

$286495 := \sqrt{9^8} + 6^{5+\sqrt{4}} - 2.$

$287493 := -\sqrt{9} + (-8 + 74)^{\sqrt{3^2}}.$

$288369 := ((98 - 8) \times 6 - 3)^2.$

$289444 := (9 \times (\sqrt{8^4} - 4) - \sqrt{4})^2.$

$291599 := ((9 + 99) \times 5)^2 - 1.$

$291600 := (9 \times 6)^2 \times 100.$

$292820 := (\sqrt{9} + 8)^{2 \times 2} \times 20.$

$294838 := 9 \times (-8 + (8 \times 4)^3) - 2.$

$294849 := (\sqrt{9} + 9 \times (\sqrt{8^4} - 4))^2.$

$294858 := \sqrt{\sqrt{\sqrt{9^8}}} \times (8^5 - 4 - 2).$

$294883 := 9 \times (8 \times 8^4 - 3) - 2.$

$294895 := -9 + 9 \times 8^5 - 4 \times 2.$

$294985 := 9 \times (9 + 8^5) - 4 \times 2.$

$295025 := 9^5 \times 5 - 220.$

$295089 := -\sqrt{9} + 9 \times (8^5 + 20).$

$295205 := 9^5 \times 5 - 2 \times 20.$

$295223 := 9^5 \times (3 + 2) - 22.$

$295225 := 9^5 \times 5 - 22 + 2.$

$295235 := 9^5 \times 5 - (3 + 2) \times 2.$

$295243 := 9^5 \times (4 + 3 - 2) - 2.$

$295245 := 9^5 \times \sqrt{(\sqrt{5 + 4} + 22)}.$

$295251 := 9^5 \times 5 + 2 \times (2 + 1).$

$295253 := 9^5 \times 5 + \sqrt{32 \times 2}.$

$295255 := 9^5 \times 5 + \sqrt{(5 \times 2)^2}.$

$295259 := (\sqrt{9} + 9^5) \times 5 - 2/2.$

$295305 := 9^5 \times 5 + 3 \times 20.$

$295345 := (9^5 + 5 \times 4) \times (3 + 2).$

$295455 := 9^5 \times 5 + 5 \times 42.$

$297432 := \sqrt{9^7} \times 4 \times (32 + 2).$

$299376 := 99 \times 7 \times 6^3 \times 2.$

$299973 := -\sqrt{9} \times (9 - (\sqrt{9} + 7)^{3+2}).$

$299975 := \sqrt{9} \times (-9 + (\sqrt{9} + 7)^5) + 2.$

$312500 := 5^{3+2} \times 100.$

$312975 := 975 \times 321.$

$314199 := 9^{\sqrt{9}} \times 431 \times 1.$

$314426 := -6 + (4 + 4^3)^{2+1}.$

$314431 := (4 + 4^3)^3 \times 1 - 1.$

$314432 := (\sqrt{4} + \sqrt{4} \times 33)^{2+1}.$

$314433 := (4 + \sqrt{4^{3+3}})^3 + 1.$

$314434 := \sqrt{4} + (4 + 4^3)^3 \times 1.$

$314436 := (64 + 4)^3 + 3 + 1.$

$314463 := (64 + 4)^3 + 31.$

$314925 := -\sqrt{9} + 54^3 \times 2 \times 1.$

$314926 := (\sqrt{9} \times 6)^4 \times 3 - 2 \times 1.$

$314927 := \sqrt{9^7} \times (4 \times 3)^2 - 1.$

$314928 := \sqrt{9^8 \times 4} \times (3 + 21).$

$314936 := (((((\sqrt{9} \times 6)^4) + 3) \times 3) - 1).$

$318465 := \sqrt{8^6} \times (5^4 - 3) + 1.$

$319226 := (9 \times 63 - 2)^2 + 1.$

$321489 := \sqrt{9^8} \times (4 + 3)^2 \times 1.$

$325632 := 6 \times 53 \times 32^2.$

$326673 := 7 \times 6^6 + (3 \times 3)^2.$

$326767 := 7 \times (-7 + 6^6 + 32).$

$328329 := (-\sqrt{9} + (8 \times \sqrt{3 \times 3})^2)^2.$

$328508 := (8 \times 8 + 5)^3 - 2^0.$

$329476 := (97 \times 6 - \sqrt{4^3})^2.$

$331776 := ((7 + 7 - 6) \times 3)^{3+1}.$

$331869 := \sqrt{9} \times ((8 \times 6)^3 + 31).$

$334365 := 6^5 \times 43 - \sqrt{3 \times 3}.$

$335790 := 9 \times 7 \times 5330.$

$338551 := (8^5 - 5)/3 \times 31.$

$342792 := (9 \times (\sqrt{7^4} - 3))^2 \times 2.$

$342950 := (95 \times \sqrt{4})^3/20.$

$342980 := (9 \times 8 - \sqrt{4})^3 - 20.$

$342989 := -9 + (9 \times 8 - \sqrt{4})^3 - 2.$

$344148 := 84 \times ((4 \times 4)^3 + 1).$

$344763 := (\sqrt{7^6} - 4)^{\sqrt{4}} \times \sqrt{3 \times 3}.$

$346794 := ((\sqrt{9} - \sqrt{7^6})^{\sqrt{4}} - \sqrt{4}) \times 3.$

$349965 := (9 + 9 \times 6^5) \times (\sqrt{4} + 3).$

$351233 := (53 + 3)^3 \times 2 + 1.$

$352483 := ((85 + 4)^3 - 3)/2.$

$352489 := (9 + (85 + 4)^3)/2.$

$352697 := \sqrt{9} \times 7^6 - 5^3 \times 2.$

$352836 := ((8 - 6 \times 5) \times 3^3)^2.$

$352945 := \sqrt{9} \times (-5 + 54)^3 - 2.$

$352967 := \sqrt{9} \times (7^6 + 5) + 3 + 2.$

$353739 := (97 + 5)^3/3 + 3.$

$354289 := \sqrt{9^8} \times 54 - 3 - 2.$

$354293 := 9^5 \times \sqrt{4} \times 3 - 3 + 2.$

$354299 := \sqrt{9} \times 9^5 \times \sqrt{4} + 3 + 2.$

$354319 := ((((9^5) + 4) \times (3 - (-3))) + 1).$

$354393 := (9^5 \times \sqrt{4} + 33) \times 3.$

$356168 := 8 \times (\sqrt{6^6} - 5)^{3-1}.$

$357894 := -9 - 8 + (75 - 4)^3.$

$357914 := \sqrt{9} + (75 - 4)^3 \times 1.$

$357974 := 9 \times 7 + (75 - 4)^3.$

$358546 := ((8 + 6)^5 - 5) \times \sqrt{4}/3.$

$367236 := (-7 \times 6 + 6^3 \times 3)^2.$

$367497 := -\sqrt{9} + (7 + \sqrt{7^6})^{\sqrt{4}} \times 3.$

$367693 := -\sqrt{9} + 7^6 + 63^3.$

$368640 := \sqrt{8^6} \times 6 \times 4 \times 30.$

$371286 := -8 + (7 + 6)^{3+2} + 1.$

$371293 := (9 + 7 - 3)^{3+2} \times 1.$

$371296 := \sqrt{9} + (7 + 6)^{3+2} \times 1.$

$371349 := (9 \times (((7 - (-4))^3) \times (31))).$

$373246 := (76 - 4)^{\sqrt{3 \times 3}} - 2.$

$373527 := \sqrt{7 \times 7^5} \times 33^2.$

$376942 := 97 \times (6^4 \times 3 - 2).$

$379447 := -9 + \sqrt{77^4} \times 4^3.$

$385947 := 9 \times (8 + \sqrt{\sqrt{(7 \times 5)^{4 \times 3}}}).$

$386400 := (-8 + 6^4) \times 300.$

$388937 := -9 \times 8 - 8 + 73^3.$

$390688 := (\sqrt{9} - 8)^8 + 63 + 0.$

$393660 := \sqrt{9^6} \times 6 \times 3 \times 30.$

$394272 := (9 \times \sqrt{7^4} + 3)^2 \times 2.$

$394415 := (\sqrt{9} + 5^4)^{\sqrt{4}} + 31.$

$399424 := ((-9 \times 9 + \sqrt{4}) \times \sqrt{4^3})^2.$

$401408 := 8^4 \times (-\sqrt{4} + 100).$

$411771 := (7^7 - \sqrt{4} + 1)/(1 + 1).$

$411772 := (7^7 + \sqrt{4}/2)/(1 + 1).$

$411773 := (7^{\sqrt{\sqrt{7^4}}} + 3)/(1 + 1).$

$411775 := (7^7 + 5 + \sqrt{4})/(1 + 1).$

$411777 := (7^7 + 7 + 4)/(1 + 1).$

$412162 := 642^2 - 1 - 1.$

$412164 := (644 - 2)^{1+1}.$

$415575 := 75 \times 5541.$

$419583 := (\sqrt{9^8} - 5) \times 4^3 - 1.$

$419584 := (\sqrt{9^8} - 5) \times 4^{4-1}.$

$419896 := -9 + \sqrt{9^8} \times 64 + 1.$

$419903 := 9 \times (9 \times 4)^3 - 1 + 0.$

$419904 := 9 \times \sqrt{(9 \times 4)^{-4+10}}.$

$419913 := 9 \times ((9 \times 4)^3 + 1) \times 1.$

$419923 := 9 \times ((9 \times 4)^3 + 2) + 1.$

$420175 := 7^5 \times (4 + 21 - 0).$

$421875 := ((8 + 7) \times 5)^{4-2+1}.$

$426409 := (9 + 644)^2 + 0.$

$427695 := -\sqrt{9} \times 7 + 654^2.$

$427765 := 7 \times 7 + 654^2.$

$428415 := (8 + 5)^4 \times (4^2 - 1).$

$431649 := (9 + 6^4/\sqrt{4})^{3-1}.$

$432894 := (\sqrt{9^8} - \sqrt{4}) \times (4^3 + 2).$

$432964 := ((96 - \sqrt{4}) \times (4 + 3))^2.$

$433125 := 5^4 \times 33 \times 21.$

$438888 := -88 + (-8 + 84)^3.$

$438967 := -\sqrt{\sqrt{\sqrt{9^8}}} + \sqrt{\sqrt{76^{4 \times 3}}}.$

$438973 := (-9 + 87 - \sqrt{4})^3 - 3.$

$438985 := 9 + ((8 + 8) \times 5 - 4)^3.$

$439566 := (\sqrt{9} \times (\sqrt{6^6} + 5))^{\sqrt{4}} - 3.$

$439587 := \sqrt{9^8} \times (75 - \sqrt{4^3}).$

$441344 := 4^4 \times 4 \times 431.$

$442225 := (5^4 + 42 - 2)^2.$

$442366 := (6 \times 64)^{\sqrt{4}} \times 3 - 2.$

$443799 := 9 \times 9 \times (\sqrt{74^4} + 3).$

$444889 := (9 - 8 \times 84 - 4)^{\sqrt{4}}.$

$446226 := (664 + 4)^2 + 2.$

$446988 := \sqrt{9} \times (8 \times 8 \times 6 + \sqrt{4})^{\sqrt{4}}.$

$452927 := (-9 \times 75 + \sqrt{4})^2 - 2.$

$452929 := (9^{\sqrt{9}} - 54 - 2)^2.$

$453125 := 5^5 \times ((4 \times 3)^2 + 1).$

$453735 := (\sqrt{7^{5+5}} - \sqrt{4}) \times 3^3.$

$453759 := (9 \times 7^5 - 5 \times \sqrt{4}) \times 3.$

$453781 := -8 + 7^5 \times (-4 + 31).$

$453795 := (9 \times \sqrt{7^{5+5}} + \sqrt{4}) \times 3.$

$453897 := \sqrt{\sqrt{\sqrt{9^8}}} \times (7^5 + 4) \times 3.$

$454276 := ((\sqrt{7^6} - 5) \times \sqrt{4} - \sqrt{4})^2.$

$455625 := (655 + 5 \times 4)^2.$

$456533 := (65 + 5 + 4 + 3)^3.$

$456949 := -\sqrt{9^{\sqrt{9}}} + (-6 \times 5 + 4)^4.$

$456994 := 9 + 9 + (6 \times 5 - 4)^4.$

$458329 := (-\sqrt{9} + 85 \times \sqrt{4^3})^2.$

$459278 := (\sqrt{9^8} \times 7 \times 5 + 4) \times 2.$

$459279 := 9 + \sqrt{9^7} \times 5 \times 42.$

$459684 := (\sqrt{9} \times 8 + 654)^{\sqrt{4}}.$

$459996 := -\sqrt{9} + 9^{\sqrt{9}} \times (6 + 5^4).$

$459997 := -\sqrt{9} + (9^{\sqrt{9}} + 7) \times 5^4.$

$459999 := 9^{\sqrt{9}} \times (-\sqrt{9} + 9 + 5^4).$

$466130 := (6^6 - 43) \times 10.$

$466480 := (-8 + 6^6)/4 \times 40.$

$466489 := (\sqrt{9} - (\sqrt{(8 + 6)^6)/4})^{\sqrt{4}}.$

$466510 := (6^6 - \sqrt{\sqrt{5^4}}) \times 10.$

$466530 := 6^6 \times 5 \times \sqrt{4} - 30.$

$466555 := 6^6 \times (5 + 5) - \sqrt{\sqrt{5^4}}.$

$466620 := (6 + 6^6)/\sqrt{4} \times 20.$

$468512 := (-8 + 6 \times 5)^4 \times 2 \times 1.$

$468544 := 8 \times ((6 + 5)^4 \times 4 + 4).$

$468735 := -8 - 7 + 6 \times 5^{4+3}.$

$468749 := (-\sqrt{9} + 8)^7 \times 6 - 4/4.$

$469225 := (9 + (6 \times 5 - 4)^2)^2.$

$470556 := (7^6 - 5 - 5) \times 4 + 0.$

$470568 := (-8 + (7^6 - 5) \times (4 - 0)).$

$470576 := (\sqrt{7 \times 7}^6 - 5) \times 4 + 0.$

$470593 := -\sqrt{9} + 7^5 \times (-\sqrt{4} + 30).$

$470615 := (7^6 + 5) \times 4 - 1 + 0.$

$470618 := (8 + 7^6) \times 4 - 10.$

$470628 := (8 + 7^6) \times \sqrt{-4 + 20}.$

$471620 := 7^6 \times 4 + 2^{10}.$

$471969 := (99 \times 7 - 6)^{\sqrt{4}} \times 1.$

$472389 := -\sqrt{9} + 8 \times (7 + \sqrt{4})^{3+2}.$

$472392 := \sqrt{9^7} \times 432/2.$

$472394 := 9^{7-\sqrt{4}} \times \sqrt{4^3} + 2.$

$472896 := (\sqrt{9^8} + 7) \times \sqrt{6^4} \times 2.$

$474688 := \sqrt{8^8} + 7^6 \times 4 - 4.$

$476288 := 8 \times (8 - 7 \times \sqrt{6^4})^2.$

$476739 := \sqrt{9^7} + (76 + \sqrt{4})^3.$

$478864 := (8 \times 87 - 6 + \sqrt{4})^{\sqrt{4}}.$

$478953 := \sqrt{9^8} \times (7 \times 5 \times \sqrt{4} + 3).$

$479994 := \sqrt{9} \times ((\sqrt{9} \times 9 - 7)^4 - \sqrt{4}).$

$483159 := ((\sqrt{9} + 8)^5 + \sqrt{4}) \times 3 \times 1.$

$484129 := 984^{\sqrt{4}}/2 + 1.$

$484417 := (87 \times (4 + 4))^{\sqrt{4}} + 1.$

$488598 := -\sqrt{9} + (88 \times 8 - 5)^{\sqrt{4}}.$

$489375 := 9 \times 87 \times \sqrt{5^{\sqrt{4^3}}}.$

$492095 := \sqrt{9^9} \times \sqrt{5^4} + 20.$

$493038 := (\sqrt{\sqrt{9^8}} - \sqrt{4})^3 - 3^0.$

$493039 := (9 \times 9 - \sqrt{4})\sqrt{^{3 \times (3+0)}}).$

$493848 := 9 \times ((-8 + 84)/\sqrt{4})^3.$

$495615 := (\sqrt{9^6} - 5 \times 5)^{\sqrt{4}} - 1.$

$495936 := (-\sqrt{9^{\sqrt{9}}} + 6^5) \times 4^3.$

$496837 := (\sqrt{9^8} + 7^6) \times 4 - 3.$

$496935 := -9^{\sqrt{9}} + 6^5 \times 4^3.$

$497536 := (-\sqrt{\sqrt{9 + 7}} + 6^5) \times 4^3.$

$497656 := (9 - 7) \times ((6 + 6)^5 - 4).$

$497794 := (\sqrt{9} \times 9 + 7) \times (7 + 4)^4.$

$498636 := \sqrt{9^8} \times (6 + 6 + 4^3).$

$498637 := \sqrt{9^8} \times 76 + 4 - 3.$

$499847 := ((\sqrt{9} + 98) \times 7)^{\sqrt{4}} - \sqrt{4}.$

$499849 := (9^{\sqrt{9}} - \sqrt{9} \times 8 + \sqrt{4})^{\sqrt{4}}.$

$521017 := 7^5 \times (21 + 10).$

$521680 := 8 \times 65210.$

$523648 := (8^6 - 5 \times 4^3) \times 2.$

$524268 := (8^6 - 5 \times 4/2) \times 2.$

$524368 := (8^6 + 5 \times \sqrt{4^3}) \times 2.$

$525189 := (9 + 8 \times 5^5) \times 21.$

$528529 := (\sqrt{9} \times (8 - 5)^5 - 2)^2.$

$528766 := (-8 + 76) \times 6^5 - 2.$

$529984 := (\sqrt{9} + 9^{8-5} - 4)^2.$

$531431 := -5 \times \sqrt{4} + 3 \times 3^{11}.$

$531444 := (54/\sqrt{4})^4 + 3 \times 1.$

$531596 := 9^6 + \sqrt{5 \times 5} \times 31.$

$531691 := 9^6 + 5^3 \times (1 + 1).$

$531692 := 9^6 + 5^3 \times 2 + 1.$

$531966 := 9^6 - 6 + 531.$

$531969 := -\sqrt{9} + 9^6 + 531.$

$534569 := 9^6 + sqrt5^{5 \times \sqrt{4}} + 3.$

$535824 := (8 - 5 + (5 + 4)^3)^2.$

$536542 := 6^5 \times (5 + 4^3) - 2.$

$536544 := 6^5 \times (5 + \sqrt{\sqrt{4^{4 \times 3}}}).$

$537472 := (-7 + 7^5 - 4) \times 32.$

$537792 := ((9 - 7) \times 7)^5 - 32.$

$537827 := 8 + (7 + 7)^5 - 3 - 2.$

$537828 := \sqrt{8 + 8} + 7^5 \times 32.$

$537829 := (98/7)^5 + 3 + 2.$

$537832 := 8 + (7 \times (5 - 3))^{3+2}.$

$537848 := \sqrt{8 \times 8} \times (7^5 \times 4 + 3).$

$537877 := 8 \times 7 + (7 + 7)^5 - 3.$

$537923 := \sqrt{9} + (7^5 + 3) \times 32.$

$537929 := 9 + (\sqrt{9} + 7^5) \times 32.$

$537952 := (9 + 7^5 - 5) \times 32.$

$539566 := 9^6 + 65 \times 5^3.$

$544644 := (6 \times (5 + 4^4/\sqrt{4}))^{\sqrt{4}}.$

$546996 := \sqrt{9} + 9^6 + 6^5 \times \sqrt{4}.$

$549256 := (\sqrt{9} + 65^{\sqrt{5+4}}) \times 2.$

$551367 := (7 \times (6 + 5) + 5)^3 - 1.$

$551369 := (\sqrt{\sqrt{9^6}} + 55)^3 + 1.$

$556947 := \sqrt{9} \times ((7 + 6)^5 + 5)/\sqrt{4}.$

$563922 := (9 \times (6 + 53))^2 \times 2.$

$564248 := 86 \times ((5 + 4)^4) + 2.$

$567646 := (7 + 66) \times 6^5 - \sqrt{4}.$

$570025 := 755^2 + 0 + 0.$

$574564 := (765 - 5 - \sqrt{4})^{\sqrt{4}}.$

$575937 := 9 \times (-7 + (7 \times 5 + 5)^3)$.

$579121 := (9 + 752)^{1+1}$.

$579122 := (9 + 752)^2 + 1$.

$585336 := (8 \times 6 + 5 + 5)^3 \times 3$.

$588267 := (\sqrt{8 + 8} + 7^6) \times 5 + 2$.

$589827 := \sqrt{9} + (8 \times 8 \times (7 + 5))^2$.

$589914 := (9 + 9) \times (8^5 + 4 + 1)$.

$589915 := (9 + 9) \times (8^5 + 5) + 1$.

$589932 := (9 + 9) \times (8^5 + 3 \times 2)$.

$589992 := (\sqrt{9} + 9 \times (9 + 8^5)) \times 2$.

$590493 := \sqrt{9} + \sqrt{9^{5+4}} \times 30$.

$592703 := (9 + 75)^3 - 2^0$.

$597529 := (9 + 9 + 755)^2$.

$598776 := \sqrt{9} \times 8 + 77 \times 6^5$.

$599997 := -\sqrt{9} + (-\sqrt{9} + 9) \times (\sqrt{9} + 7)^5$.

$602177 := 776^2 + 1 + 0$.

$614657 := (7 \times (-6/6 + 5))^4 + 1$.

$629694 := 9 \times 9 \times (\sqrt{6^{6+4}} - 2)$.

$629852 := \sqrt{\sqrt{9^8}} \times 6^5 - 2 - 2$.

$629854 := \sqrt{\sqrt{9^8}} \times 6^5 - 4 + 2$.

$629858 := \sqrt{\sqrt{\sqrt{9^{8+8}}}} \times 6^5 + 2$.

$629859 := \sqrt{9} + \sqrt{\sqrt{9^8}} \times \sqrt{6^{5\times 2}}$.

$634207 := \sqrt{7^6} \times 43^2 + 0$.

$642978 := \sqrt{9^8} \times \sqrt{\sqrt{7^{\sqrt{64}}}} \times 2$.

$645576 := (\sqrt{7^6} + (6 + 5)^5) \times 4$.

$647119 := (9 + 7^6)/\sqrt{4} \times 11$.

$658503 := (86 + 5/5)^3 + 0$.

$662833 := 8^6 + 633^2$.

$663424 := ((6 + 6)^4 - 4) \times 32$.

$663488 := 8 \times (-8 + 6 \times (6 \times 4)^3)$.

$663534 := 6 \times ((-6 + 54)^3 - 3)$.

$663568 := 8 \times (6 + (6 + 6)^5)/3$.

$666727 := 7^7 - (66 \times 6)^2$.

$666791 := 9 \times \sqrt{7^6} \times \sqrt{6^6} - 1$.

$666792 := 9 \times (7 \times 6)^{6/\sqrt{6-2}}$.

$666794 := (9 \times \sqrt{7^6}) \times \sqrt{6^6} + \sqrt{4}$.

$668564 := 86 \times \sqrt{(6 \times 6)^5} - \sqrt{4}$.

$672966 := 9 \times \sqrt{7^6} \times (\sqrt{6^6} + 2)$.

$673815 := 87 \times (6^5 - 31)$.

$677384 := 8 + 7 \times 7 \times (6 \times 4)^3$.

$681424 := 8 \times (-6 + 44^{2+1})$.

$681472 := (8 + 76 + 4)^{2+1}$.

$681473 := (8 + 76 + 4)^3 + 1$.

$683584 := 88 \times (6^5 - \sqrt{4^3})$.

$684286 := 88 \times \sqrt{6^{6+4}} - 2$.

$684816 := 88 \times (6 + 6^{4+1})$.

$688000 := 8 \times 86000$.

$691489 := (9 + 9) \times (8 + 6)^4 + 1$.

$697225 := ((9 - \sqrt{7^6}) \times 5/2)^2$.

$697653 := -\sqrt{9^7} + 6^6 \times 5 \times 3$.

$699759 := 9 \times (-9 + (\sqrt{9} + 7) \times 6^5)$.

$699840 := 9 \times 9 \times 8640$.

$702464 := \sqrt{7^6 \times 4} \times \sqrt{\sqrt{4^{20}}}$.

$705846 := (-8 + 7^6) \times (5 + 4^0)$.

$707616 := 7 \times (7 + 6) \times \sqrt{6^{10}}$.

$728993 := -9 + (\sqrt{9} + 87)^3 + 2$.

$738267 := (8^7 + 7^6)/\sqrt{3^2}$.

$741830 := (-8 + 7^4) \times 310$.

$742568 := (-8 + (7 + 6)^5) \times \sqrt{4} - 2$.

$742569 := -9 + ((7 + 6)^5 - 4) \times 2$.

$742576 := (-7 + (7 + 6)^5 + \sqrt{4}) \times 2$.

$742586 := 8 \times (7 + 6)^5/\sqrt{4^2}$.

$742596 := (9 + (7 + 6)^5 - 4) \times 2$.

$744310 := \sqrt{7^{4+4}} \times 310$.

$751689 := (-9 + 876)^{\sqrt{5-1}}$.

$753496 := 97 \times (6^5 - \sqrt{4^3})$.

$754369 := 97 \times (6^5 + 4 - 3)$.

$755975 := (9 \times (-7 + 7^5) - 5) \times 5$.

$755997 := -\sqrt{9} + 9 \times (-7 + 7^5) \times 5$.

$756496 := (9 + 7) \times (6^6 + 5^4)$.

$758641 := (876 - 5)^{\sqrt{4}} \times 1$.

$759369 := -\sqrt{9} + (\sqrt{9} \times 7 - 6)^5 - 3$.

$759378 := \sqrt{9} + (8 + 7)^{\sqrt{75/3}}$.

$759381 := 9 + (8 + 7)^5 - 3 \times 1$.

$759383 := 9 + (8 + 7)^5 - 3/3$.

$759384 := 9 + (8 + 7)^{5\times(4-3)}$.

$759387 := 9 + (8 + \sqrt{7 \times 7})^5 + 3$.

$759416 := (\sqrt{9} \times 7 - 6)^5 + 41$.

$767543 := 7 \times (7^6 - (5 \times 4)^3)$.

$774198 := \sqrt{9^8} \times (77 + 41)$.

$776886 := -\sqrt{8/8} + 7^7 - 6^6$.

$776896 := \sqrt{\sqrt{\sqrt{9^8}}} + 7^7 - 6^6$.

$776968 := \sqrt{\sqrt{9^8}} + 7^7 - 6^6$.

$777922 := (9 \times 7 \times (7 + 7))^2 - 2$.

$783225 := (8 + 7 \times 5^3 + 2)^2$.

$786433 := 8 - 7 + 64^3 \times 3$.

$786438 := ((8 \times (8 - 7))^6 + \sqrt{4}) \times 3$.

$788544 := (887 + 5 - 4)^{\sqrt{4}}$.

$788548 := 888^{7-5} + 4$.

$789525 := \sqrt{9} \times 87 \times 55^2$.

$789750 := 9 \times 87750$.

$794624 := 97 \times \sqrt{64^4} \times 2$.

$794728 := (\sqrt{9^8} + 7) \times (7 + 4)^2$.

$801792 := 9 \times 87 \times 2^{10}$.

$815776 := 8 + 7^7 - 6^5 + 1$.

$816977 := -\sqrt{9^8} + 7^7 - 6 + 1$.

$816979 := -\sqrt{9} - \sqrt{9^8} + 7^{6+1}$.

$819425 := (9 + 8^5) \times (4 + 21)$.

$822657 := 8 + (7 + (6 \times 5)^2)^2$.

$823677 := 8 + 7^7 + 63 \times 2$.

$824464 := (864 + 44)^2$.

$827587 := \sqrt{8^8} + 7^7 - 52$.

$839496 := (-9 + (9 + 8 + 6)^4) \times 3$.

$839787 := (\sqrt{9 \times \sqrt{8 + 8}}^7 - 7) \times 3$.

$839799 := -9 + (\sqrt{9} - 9)^8/\sqrt{7 - 3}$.

$844993 := (\sqrt{9^9} - 8 \times 4) \times 43$.

$846369 := \sqrt{9^{8+6/6}} \times 43$.

$856664 := 8 + 6^6 + (6 \times 5)^4$.

$857157 := (8 - 7) \times 7^5 \times 51$.

$857158 := 8/8 + 7^5 \times 51$.

$857375 := ((-8 \times 7 + 75) \times 5)^3$.

$857383 := 8 + (87 + 5 + 3)^3$.

$859329 := 9 \times ((98 + 5) \times 3)^2$.

$879844 := ((\sqrt{9} + 8 \times 8) \times 7)^{\sqrt{4}} \times 4$.

$884733 := ((-8 + 8 \times 7) \times \sqrt{4})^3 - 3$.

$884736 := \sqrt{8^8} \times (76 - 4) \times 3$.

$885143 := (-8 + (8 + 5)^4) \times 31$.

$889249 := (-9 \times 9 + \sqrt{8^8}/4)^2$.

$890771 := (-\sqrt{9} + 8 \times 7) \times \sqrt{7^{10}}$.

$893730 := (\sqrt{9} \times 8 + 7)^3 \times 30$.

$898773 := -\sqrt{9} - (8 - 8^7)/7 \times 3$.

$898774 := \sqrt{9} \times (-8 + 8^7)/7 - \sqrt{4}$.

$898777 := (\sqrt{9} \times (-8 + 8^7) + 7)/7$.

$898779 := \sqrt{9} \times (-9 + 8 + 8^7)/7$.

$899955 := 9 \times (9 + 9 - 8)^5 - 5$.

$911250 := (9 \times 5)^{2+1} \times 10$.

$912674 := 97^{6/(4-2)} + 1$.

$918731 := (9 + 8)^{7-3} \times 11$.

$921600 := 96^2 \times 100$.

$925444 := (954 + 4 + 4)^2$.

$931226 := (963 + 2)^2 + 1$.

$932940 := (-9 + (9 \times 4)^3) \times 20$.

$934443 := 9 \times (4 + (4 + 43)^3)$.

$941181 := 98^{4-1} - 11$.

$941189 := -\sqrt{9} + 98^{4-1} \times 1$.

$944699 := 9 \times (-9 + (\sqrt{9} \times 6)^4) - 4$.

$944785 := ((\sqrt{9} + 8 + 7)^5 + \sqrt{4})/\sqrt{4}$.

$944856 := 9 \times (8 + (6 \times 54)^{\sqrt{4}})$.

$944928 := (9 + \sqrt{9^{8+\sqrt{4}}}) \times 4^2$.

$946729 := (997 - 6 \times 4)^2$.

$950625 := 9 \times (65 \times 5)^2 + 0$.

$952576 := (976 - 5 + 5)^2$.

$956579 := (-9 + 9^7 - 65)/5$.

$956596 := (9 \times 9^6 + 6 + 5)/5$.

$956597 := \sqrt{9} + (9^7 + 6 - 5)/5$.

$956607 := (9^7 + 66)/5 + 0.$
$957999 := (\sqrt{9} + \sqrt{9} \times (9 + 9)) \times 7^5.$
$964324 := (\sqrt{9^6} + (4^4 - 3))^2.$
$966289 := (-9 + 986 + 6)^2.$
$967872 := \sqrt{9} \times (8 \times (77 - 6))^2.$
$968256 := 9 \times (8 \times (6 \times 6 + 5))^2.$
$969842 := (-\sqrt{9^9} + 8^6) \times 4 - 2.$
$969844 := (-\sqrt{9^9} + 8^6) \times \sqrt{4 \times 4}.$
$972197 := (9 + 977)^2 + 1.$
$974138 := 987^{\sqrt{4}} - 31.$
$974168 := 987^{6-4} - 1.$
$978121 := (987 + 2)^{1+1}.$
$978122 := (987 + 2)^2 + 1.$
$982600 := \sqrt{(9 + 8)^6} \times 200.$
$983043 := \sqrt{9} + (8 \times 4)^3 \times 30.$
$984375 := \sqrt{\sqrt{\sqrt{9^8}}} \times 7 \times \sqrt{5^{4\times3}}.$
$990025 := 995^2 + 00.$
$992016 := 996^2 \times (1 + 0).$
$994599 := ((-9)^{\sqrt{9}}) + (\sqrt{9} + 9)^5 \times 4.$
$995292 := (9 - (\sqrt{9} + 9)^5) \times (-2 - 2).$
$995294 := (-9 + (\sqrt{9} + 9)^5) \times 4 + 2.$
$995334 := (\sqrt{9} + 9)^5 \times 4 + 3 + 3.$
$995345 := ((\sqrt{9} + 9)^5 + 5) \times 4 - 3.$
$995346 := ((\sqrt{9} + 9)^6 + 54)/3.$
$995544 := ((\sqrt{9} + 9)^5 + 54) \times 4.$
$999967 := -99/\sqrt{9} + (\sqrt{9} + 7)^6.$
$999976 := \sqrt{9} - \sqrt{9} \times 9 + (\sqrt{9} + 7)^6.$

# 7 Patterned Selfie Numbers

As explained in subsection 1.5, here we shall present *patterned Selfie numbers* in two different ways. One in order of digits and another in decreasing order of digits. As explained above, the numbers are limited only for six digits without factorial.

## 7.1 Patterned Selfie Numbers in Order of Digits

$$102487 = \sqrt{(10 + 2/\sqrt{4})^8} \times 7$$
$$1024870 = \sqrt{(10 + 2/\sqrt{4})^8} \times 70$$

$$104976 = (10 - \sqrt{4}) \times \sqrt{9^7} \times 6$$
$$1049760 = (10 - \sqrt{4}) \times \sqrt{9^7} \times 60$$

$$106929 = (106 + \sqrt{9})^2 \times 9$$
$$1069290 = (106 + \sqrt{9})^2 \times 90$$

$$116645 = 1 \times (1 + 6^6/\sqrt{4}) \times 5$$
$$1166450 = 1 \times (1 + 6^6/\sqrt{4}) \times 50$$

$$117128 = 11^{7-1-2} \times 8$$
$$1171280 = 11^{7-1-2} \times 80$$

$$117396 = (-117 + 3^9) \times 6$$
$$1173960 = (-117 + 3^9) \times 60$$

$$117655 = (1 + (1 + 7^6)/5) \times 5$$
$$1176550 = (1 + (1 + 7^6)/5) \times 50$$

$$117996 = 1 \times (-17 + \sqrt{9^9}) \times 6$$
$$1179960 = 1 \times (-17 + \sqrt{9^9}) \times 60$$

$$124386 = (12^4 + 3 - 8) \times 6$$
$$1243860 = (12^4 + 3 - 8) \times 60$$

$$124413 = (12^4 \times \sqrt{4} - 1) \times 3$$
$$1244130 = (12^4 \times \sqrt{4} - 1) \times 30$$

$$124852 = \sqrt{(1 - 2 \times 4)^8} \times 52$$
$$1248520 = \sqrt{(1 - 2 \times 4)^8} \times 520$$

$$129375 = (12^{\sqrt{9}} - 3) \times 75$$
$$1293750 = (12^{\sqrt{9}} - 3) \times 750$$

$$131072 = (1 + 3)^{1+07} \times 2$$
$$1310720 = (1 + 3)^{1+07} \times 20$$

$$134456 = 1 \times (3 + 4)^4 \times 56$$
$$1344560 = 1 \times (3 + 4)^4 \times 560$$

$$136462 = (\sqrt{13^6} + 4) \times 62$$
$$1364620 = (\sqrt{13^6} + 4) \times 620$$

$$136857 = \sqrt{(13 - 6)^8} \times 57$$
$$1368570 = \sqrt{(13 - 6)^8} \times 570$$

$$137979 = (1 + (3^7 + \sqrt{9}) \times 7) \times 9$$
$$1379790 = (1 + (3^7 + \sqrt{9}) \times 7) \times 90$$

$$138915 = (13 + 8)^{\sqrt{9}} \times 15$$
$$1389150 = (13 + 8)^{\sqrt{9}} \times 150$$

$$139953 = (((1 + 3) \times 9)^{\sqrt{9}} - 5) \times 3$$
$$1399530 = (((1 + 3) \times 9)^{\sqrt{9}} - 5) \times 30$$

$$146461 = (1^4 + 6)^4 \times 61$$
$$1464610 = (1^4 + 6)^4 \times 610$$

$$147249 = (1 + 4^7 - 24) \times 9$$
$$1472490 = (1 + 4^7 - 24) \times 90$$

$$147429 = (-1 + 4^7 - 4/2) \times 9$$
$$1474290 = (-1 + 4^7 - 4/2) \times 90$$

$$147519 = (1 + 4^7 + 5 + 1) \times 9$$
$$1475190 = (1 + 4^7 + 5 + 1) \times 90$$

$$148862 = \sqrt{\sqrt{(1 + 48)^8}} \times 62$$
$$1488620 = \sqrt{\sqrt{(1 + 48)^8}} \times 620$$

$$148945 = ((-1 + 4 \times 8)^{\sqrt{9}} - \sqrt{4}) \times 5$$
$$1489450 = ((-1 + 4 \times 8)^{\sqrt{9}} - \sqrt{4}) \times 50$$

$$156225 = (-1 + (5^6 - 2) \times 2) \times 5$$
$$1562250 = (-1 + (5^6 - 2) \times 2) \times 50$$

$$156235 = 1 \times (5^6 \times 2 - 3) \times 5$$
$$1562350 = 1 \times (5^6 \times 2 - 3) \times 50$$

$$156245 = (-1 + 5^6 \times (-2 + 4)) \times 5$$
$$1562450 = (-1 + 5^6 \times (-2 + 4)) \times 50$$

$$156251 = (1 + 5^6 \times 2 \times 5) \times 1$$
$$1562510 = (1 + 5^6 \times 2 \times 5) \times 10$$

$$156275 = ((-1 + 5^6) \times 2 + 7) \times 5$$
$$1562750 = ((-1 + 5^6) \times 2 + 7) \times 50$$

$$156285 = (-1 + 5^6 \times 2 + 8) \times 5$$
$$1562850 = (-1 + 5^6 \times 2 + 8) \times 50$$

$$156295 = (1 \times 5^6 \times 2 + 9) \times 5$$
$$1562950 = (1 \times 5^6 \times 2 + 9) \times 50$$

$$158466 = (15 - 8)^4 \times 66$$
$$1584660 = (15 - 8)^4 \times 660$$

$$158499 = (1 + \sqrt{(5 \times 8)^4}) \times 99$$
$$1584990 = (1 + \sqrt{(5 \times 8)^4}) \times 990$$

$$160867 = \sqrt{(1 + 6)^{08}} \times 67$$
$$1608670 = \sqrt{(1 + 6)^{08}} \times 670$$

$$161051 = (1^6 + 10)^5 \times 1$$
$$1610510 = (1^6 + 10)^5 \times 10$$

$$163835 = (-1 + (-6 + 38)^3) \times 5$$
$$1638350 = (-1 + (-6 + 38)^3) \times 50$$

$$163855 = (1 \times 6 - 3 + 8^5) \times 5$$
$$1638550 = (1 \times 6 - 3 + 8^5) \times 50$$

$$163875 = (16^3 \times 8 + 7) \times 5$$
$$1638750 = (16^3 \times 8 + 7) \times 50$$

$$165888 = \sqrt{(\sqrt{16} \times (-5 + 8))^8} \times 8$$
$$1658880 = \sqrt{(\sqrt{16} \times (-5 + 8))^8} \times 80$$

$$167286 = (167^2 - 8) \times 6$$
$$1672860 = (167^2 - 8) \times 60$$

$$170471 = (1 \times 7^{04}) \times 71$$
$$1704710 = (1 \times 7^{04}) \times 710$$

$$172872 = 1 \times (7^{\sqrt{2 \times 8}}) \times 72$$
$$1728720 = 1 \times (7^{\sqrt{2 \times 8}}) \times 720$$

$$175232 = (-1 + 75)^2 \times 32$$
$$1752320 = (-1 + 75)^2 \times 320$$

$$175446 = \sqrt{(175 - 4)^4} \times 6$$
$$1754460 = \sqrt{(175 - 4)^4} \times 60$$

$$177674 = 1 \times 7 \times \sqrt{7^6} \times 74$$
$$1776740 = 1 \times 7 \times \sqrt{7^6} \times 740$$

$$179469 = (17 \times \sqrt{9})^{\sqrt{4}} \times 69$$
$$1794690 = (17 \times \sqrt{9})^{\sqrt{4}} \times 690$$

$$181447 = (1 - 81 \times \sqrt{4})^{\sqrt{4}} \times 7$$
$$1814470 = (1 - 81 \times \sqrt{4})^{\sqrt{4}} \times 70$$

$$182476 = (1 + 8 - 2)^4 \times 76$$
$$1824760 = (1 + 8 - 2)^4 \times 760$$

$$184275 = (-1 + 8^4) \times (2 + 7) \times 5$$
$$1842750 = (-1 + 8^4) \times (2 + 7) \times 50$$

$$184325 = (1 + 8^4 \times 3^2) \times 5$$
$$1843250 = (1 + 8^4 \times 3^2) \times 50$$

$$184329 = (1 + 8^4 \times (3 + 2)) \times 9$$
$$1843290 = (1 + 8^4 \times (3 + 2)) \times 90$$

$$184335 = (1 + 8^4 \times 3) \times 3 \times 5$$
$$1843350 = (1 + 8^4 \times 3) \times 3 \times 50$$

$$184365 = (1 + 8^4) \times (3 + 6) \times 5$$
$$1843650 = (1 + 8^4) \times (3 + 6) \times 50$$

$$184495 = (-1 + (8^4 + 4) \times 9) \times 5$$
$$1844950 = (-1 + (8^4 + 4) \times 9) \times 50$$

$$184545 = 1 \times (8^4 + 5) \times 45$$
$$1845450 = 1 \times (8^4 + 5) \times 450$$

$$184877 = (8 - 1)^{-4+8} \times 77$$
$$1848770 = (8 - 1)^{-4+8} \times 770$$

$$186624 = (18 \times (6 + 6))^2 \times 4$$
$$1866240 = (18 \times (6 + 6))^2 \times 40$$

$$186644 = (1 + 8 + 6^6 - 4) \times 4$$
$$1866440 = (1 + 8 + 6^6 - 4) \times 40$$

$$186684 = (-1 + 8 + 6^6 + 8) \times 4$$
$$1866840 = (-1 + 8 + 6^6 + 8) \times 40$$

$$187278 = ((-1 + 8) \times 7)^2 \times 78$$
$$1872780 = ((-1 + 8) \times 7)^2 \times 780$$

$$188646 = (-1 + \sqrt{8^8} + 6) \times 46$$
$$1886460 = (-1 + \sqrt{8^8} + 6) \times 460$$

$$194481 = 1 \times (9 - \sqrt{4})^4 \times 81$$
$$1944810 = 1 \times (9 - \sqrt{4})^4 \times 810$$

$$194692 = (1 + 9 + 46^{\sqrt{9}}) \times 2$$
$$1946920 = (1 + 9 + 46^{\sqrt{9}}) \times 20$$

$$196882 = \sqrt{(1^9 + 6)^8} \times 82$$
$$1968820 = \sqrt{(1^9 + 6)^8} \times 820$$

$$209952 = (2 \times 09)^{9-5} \times 2$$
$$2099520 = (2 \times 09)^{9-5} \times 20$$

$$218491 = (-2 + 1 + 8)^4 \times 91$$
$$2184910 = (-2 + 1 + 8)^4 \times 910$$

$$227529 = (22 \times 7 + 5)^2 \times 9$$
$$2275290 = (22 \times 7 + 5)^2 \times 90$$

$$228488 = \sqrt{((-2 + 28)/\sqrt{4})^8} \times 8$$
$$2284880 = \sqrt{((-2 + 28)/\sqrt{4})^8} \times 80$$

$$229397 = (2^{2 \times 9 - 3} + \sqrt{9}) \times 7$$
$$2293970 = (2^{2 \times 9 - 3} + \sqrt{9}) \times 70$$

$232324 = (2-3^{2+3})^2 \times 4$
$2323240 = (2-3^{2+3})^2 \times 40$

$232897 = \sqrt{(2-3^2)^8} \times 97$
$2328970 = \sqrt{(2-3^2)^8} \times 970$

$233255 = ((2\times 3)^{3\times 2}-5)\times 5$
$2332550 = ((2\times 3)^{3\times 2}-5)\times 50$

$233295 = ((2\times 3)^{3\times 2}+\sqrt{9})\times 5$
$2332950 = ((2\times 3)^{3\times 2}+\sqrt{9})\times 50$

$234365 = (-2+3\times(\sqrt{4}+3)^6)\times 5$
$2343650 = (-2+3\times(\sqrt{4}+3)^6)\times 50$

$234375 = (2+3)^4 \times 375$
$2343750 = (2+3)^4 \times 3750$

$236196 = 2\times 3^{6+1}\times 9\times 6$
$2361960 = 2\times 3^{6+1}\times 9\times 60$

$238328 = (23+8)^{\sqrt{3^2}}\times 8$
$2383280 = (23+8)^{\sqrt{3^2}}\times 80$

$238464 = \sqrt{(2\times 3)^8}\times 46\times 4$
$2384640 = \sqrt{(2\times 3)^8}\times 46\times 40$

$253135 = (2+(5\times 3)^{1+3})\times 5$
$2531350 = (2+(5\times 3)^{1+3})\times 50$

$266565 = (2^{6+6}+5)\times 65$
$2665650 = (2^{6+6}+5)\times 650$

$273375 = (2+7)^3 \times 375$
$2733750 = (2+7)^3 \times 3750$

$278868 = (-2+7+\sqrt{8^8})\times 68$
$2788680 = (-2+7+\sqrt{8^8})\times 680$

$279666 = ((2-7)\times 9+6^6)\times 6$
$2796660 = ((2-7)\times 9+6^6)\times 60$

$279841 = (2\times 7+9)^{8-4}\times 1$
$2798410 = (2\times 7+9)^{8-4}\times 10$

$279936 = (27+9)^{9/3}\times 6$
$2799360 = (27+9)^{9/3}\times 60$

$279966 = (-2+7+(9-\sqrt{9})^6)\times 6$
$2799660 = (-2+7+(9-\sqrt{9})^6)\times 60$

$289444 = (2^8+9+4)^{\sqrt{4}}\times 4$
$2894440 = (2^8+9+4)^{\sqrt{4}}\times 40$

$29282 = (2+9)^{\sqrt{2\times 8}}\times 2$
$292820 = (2+9)^{\sqrt{2\times 8}}\times 20$

$294849 = (2-9+4^8/\sqrt{4})\times 9$
$2948490 = (2-9+4^8/\sqrt{4})\times 90$

$294895 = (2+(9^4-8)\times 9)\times 5$
$2948950 = (2+(9^4-8)\times 9)\times 50$

$294939 = (2^{9+\sqrt{4\times 9}}+3)\times 9$
$2949390 = (2^{9+\sqrt{4\times 9}}+3)\times 90$

$294955 = (-29\times\sqrt{4}+9^5)\times 5$
$2949550 = (-29\times\sqrt{4}+9^5)\times 50$

$295195 = (-2+9^5+1-9)\times 5$
$2951950 = (-2+9^5+1-9)\times 50$

$295235 = (-2+9^5)\times(-2+3)\times 5$
$2952350 = (-2+9^5)\times(-2+3)\times 50$

$295245 = (2+9^5+2-4)\times 5$
$2952450 = (2+9^5+2-4)\times 50$

$295285 = (2+9^5-2+8)\times 5$
$2952850 = (2+9^5-2+8)\times 50$

$295295 = (2+9^5+2^{\sqrt{9}})\times 5$
$2952950 = (2+9^5+2^{\sqrt{9}})\times 50$

$295465 = (-2+9^5+46)\times 5$
$2954650 = (-2+9^5+46)\times 50$

$295505 = (2+9^5+50)\times 5$
$2955050 = (2+9^5+50)\times 50$

$296344 = (((-2+9)\times 6)^3-\sqrt{4})\times 4$
$2963440 = (((-2+9)\times 6)^3-\sqrt{4})\times 40$

$296384 = (((-2+9)\times 6)^3+8)\times 4$
$2963840 = (((-2+9)\times 6)^3+8)\times 40$

$299575 = (2^9+9)\times 575$
$2995750 = (2^9+9)\times 5750$

$312325 = 31^2\times 325$
$3123250 = 31^2\times 3250$

$314928 = \sqrt{3^{14}}\times 9\times 2\times 8$
$3149280 = \sqrt{3^{14}}\times 9\times 2\times 80$

$324723 = (327+\sqrt{4})^2\times 3$
$3247230 = (327+\sqrt{4})^2\times 30$

$325125 = ((3+2)\times 51)^2\times 5$
$3251250 = ((3+2)\times 51)^2\times 50$

$326557 = (3\times 2\times 6^5-5)\times 7$
$3265570 = (3\times 2\times 6^5-5)\times 70$

$326627 = (3+2+6^{\sqrt{6^2}})\times 7$
$3266270 = (3+2+6^{\sqrt{6^2}})\times 70$

$326697 = ((3\times 2)^6+6+9)\times 7$
$3266970 = ((3\times 2)^6+6+9)\times 70$

$327485 = (-32-7+4^8)\times 5$
$3274850 = (-32-7+4^8)\times 50$

$327695 = (3+2^{7+6+\sqrt{9}})\times 5$
$3276950 = (3+2^{7+6+\sqrt{9}})\times 50$

$333234 = (3\times 33)^2\times 34$
$3332340 = (3\times 33)^2\times 340$

$$34295 = (3+4^2)^{\sqrt{9}} \times 5$$
$$342950 = (3+4^2)^{\sqrt{9}} \times 50$$

$$345744 = ((-3+45)\times 7)^{\sqrt{4}} \times 4$$
$$3457440 = ((-3+45)\times 7)^{\sqrt{4}} \times 40$$

$$348145 = \sqrt{(3+4)^8} \times 145$$
$$3481450 = \sqrt{(3+4)^8} \times 1450$$

$$351232 = (3+51+2)^3 \times 2$$
$$3512320 = (3+51+2)^3 \times 20$$

$$352947 = 3\times(5+2)^{9-4} \times 7$$
$$3529470 = 3\times(5+2)^{9-4} \times 70$$

$$354186 = (3^{5\times\sqrt{4}} - 18)\times 6$$
$$3541860 = (3^{5\times\sqrt{4}} - 18)\times 60$$

$$354246 = (3^{5\times\sqrt{4}} - 2\times 4)\times 6$$
$$3542460 = (3^{5\times\sqrt{4}} - 2\times 4)\times 60$$

$$354273 = (3^{5\times\sqrt{4}} \times 2 - 7)\times 3$$
$$3542730 = (3^{5\times\sqrt{4}} \times 2 - 7)\times 30$$

$$354276 = (-3+(5+4)^{-2+7})\times 6$$
$$3542760 = (-3+(5+4)^{-2+7})\times 60$$

$$354277 = ((3\times 5)^4 - 2\times 7)\times 7$$
$$3542770 = ((3\times 5)^4 - 2\times 7)\times 70$$

$$354294 = \sqrt{4}\times 9^{2+\sqrt{4+5}} \times 3$$
$$3542940 = \sqrt{4}\times 9^{2+\sqrt{4+5}} \times 30$$

$$354486 = (3^{5\times\sqrt{4}} + 4\times 8)\times 6$$
$$3544860 = (3^{5\times\sqrt{4}} + 4\times 8)\times 60$$

$$354487 = ((3\times 5)^4 + \sqrt{4}\times 8)\times 7$$
$$3544870 = ((3\times 5)^4 + \sqrt{4}\times 8)\times 70$$

$$354627 = ((3\times 5)^4 + 6^2)\times 7$$
$$3546270 = ((3\times 5)^4 + 6^2)\times 70$$

$$354726 = (3^{5\times\sqrt{4}} + 72)\times 6$$
$$3547260 = (3^{5\times\sqrt{4}} + 72)\times 60$$

$$356445 = (3^5 + 6\times 4)^{\sqrt{4}} \times 5$$
$$3564450 = (3^5 + 6\times 4)^{\sqrt{4}} \times 50$$

$$360855 = (-3+6)^{08} \times 55$$
$$3608550 = (-3+6)^{08} \times 550$$

$$366795 = (-3^6 + (6\times 7)^{\sqrt{9}})\times 5$$
$$3667950 = (-3^6 + (6\times 7)^{\sqrt{9}})\times 50$$

$$367272 = (3^6\times 7+2)\times 72$$
$$3672720 = (3^6\times 7+2)\times 720$$

$$374439 = (-3+7^4\times 4)\times 39$$
$$3744390 = (-3+7^4\times 4)\times 390$$

$$374452 = (3\times 7^4 - \sqrt{4})\times 52$$
$$3744520 = (3\times 7^4 - \sqrt{4})\times 520$$

$$375168 = 3\times(7+5^{1\times 6})\times 8$$
$$3751680 = 3\times(7+5^{1\times 6})\times 80$$

$$391864 = (-3^9 + (-1+8)^6)\times 4$$
$$3918640 = (-3^9 + (-1+8)^6)\times 40$$

$$393222 = (2+2^{2^3+9})\times 3$$
$$3932220 = (2+2^{2^3+9})\times 30$$

$$393645 = (-3+\sqrt{9^{3+6}}\times 4)\times 5$$
$$3936450 = (-3+\sqrt{9^{3+6}}\times 4)\times 50$$

$$397535 = (3\times(9+7)-5)^3 \times 5$$
$$3975350 = (3\times(9+7)-5)^3 \times 50$$

$$411845 = (41\times(-1+8))^{\sqrt{4}} \times 5$$
$$4118450 = (41\times(-1+8))^{\sqrt{4}} \times 50$$

$$413357 = (\sqrt{4}+1\times(3\times 3)^5)\times 7$$
$$4133570 = (\sqrt{4}+1\times(3\times 3)^5)\times 70$$

$$413466 = (41^3 - 4 - 6)\times 6$$
$$4134660 = (41^3 - 4 - 6)\times 60$$

$$413496 = (41^3 + 4 - 9)\times 6$$
$$4134960 = (41^3 + 4 - 9)\times 60$$

$$413526 = 41^{\sqrt{3\times 5-2}} \times 6$$
$$4135260 = 41^{\sqrt{3\times 5-2}} \times 60$$

$$413556 = (41^3 + \sqrt{5\times 5})\times 6$$
$$4135560 = (41^3 + \sqrt{5\times 5})\times 60$$

$$417595 = (-\sqrt{4} + 17^{-5+9})\times 5$$
$$4175950 = (-\sqrt{4} + 17^{-5+9})\times 50$$

$$417625 = (4+17^{6-2})\times 5$$
$$4176250 = (4+17^{6-2})\times 50$$

$$419888 = (-\sqrt{4}+1\times\sqrt{9^8}\times 8)\times 8$$
$$4198880 = (-\sqrt{4}+1\times\sqrt{9^8}\times 8)\times 80$$

$$435456 = (\sqrt{4}\times 3)^{\sqrt{\sqrt{5^4}}} \times 56$$
$$4354560 = (\sqrt{4}\times 3)^{\sqrt{\sqrt{5^4}}} \times 560$$

$$438928 = (-4+38^{\sqrt{9}} - 2)\times 8$$
$$4389280 = (-4+38^{\sqrt{9}} - 2)\times 80$$

$$438944 = \sqrt{4}\times(38^{\sqrt{9}} - 4)\times 4$$
$$4389440 = \sqrt{4}\times(38^{\sqrt{9}} - 4)\times 40$$

$$442368 = 4\times\sqrt{(4\times 2\times 3)^6}\times 8$$
$$4423680 = 4\times\sqrt{(4\times 2\times 3)^6}\times 80$$

$$455147 = (-4+(5\times 51)^{\sqrt{4}})\times 7$$
$$4551470 = (-4+(5\times 51)^{\sqrt{4}})\times 70$$

$$466375 = (\sqrt{4}\times 6^6 - 37)\times 5$$
$$4663750 = (\sqrt{4}\times 6^6 - 37)\times 50$$

$$466495 = (\sqrt{4}\times 6^6 - 4 - 9)\times 5$$
$$4664950 = (\sqrt{4}\times 6^6 - 4 - 9))\times 50$$

$$466515 = (\sqrt{4}\times(6^6-5)+1)\times 5$$
$$4665150 = (\sqrt{4}\times(6^6-5)+1)\times 50$$

$$466525 = (\sqrt{4} \times 6^6 - 5 - 2) \times 5$$
$$4665250 = (\sqrt{4} \times 6^6 - 5 - 2) \times 50$$

$$466536 = (-4 + 6^6 \times 5/3) \times 6$$
$$4665360 = (-4 + 6^6 \times 5/3) \times 60$$

$$466575 = (\sqrt{4} \times (6^6 + 5) - 7) \times 5$$
$$4665750 = (\sqrt{4} \times (6^6 + 5) - 7) \times 50$$

$$466585 = \left(\sqrt{4} \times 6^6 + \sqrt{\sqrt{\sqrt{5^8}}}\right) \times 5$$
$$4665850 = \left(\sqrt{4} \times 6^6 + \sqrt{\sqrt{\sqrt{5^8}}}\right) \times 50$$

$$466595 = (\sqrt{4} \times (6^6 + 5) - \sqrt{9}) \times 5$$
$$4665950 = (\sqrt{4} \times (6^6 + 5) - \sqrt{9}) \times 50$$

$$466615 = (\sqrt{4} \times (6 + 6^6) - 1) \times 5$$
$$4666150 = (\sqrt{4} \times (6 + 6^6) - 1) \times 50$$

$$466635 = (\sqrt{4} \times (6 + 6^6) + 3) \times 5$$
$$4666350 = (\sqrt{4} \times (6 + 6^6) + 3) \times 50$$

$$466652 = (46 + 6^6 \times 5) \times 2$$
$$4666520 = (46 + 6^6 \times 5) \times 20$$

$$470604 = (\sqrt{4} + 7^{06}) \times 04$$
$$4706040 = (\sqrt{4} + 7^{06}) \times 040$$

$$471576 = (471 + 5^7) \times 6$$
$$4715760 = (471 + 5^7) \times 60$$

$$473344 = (4 + 7^3 - 3)^{\sqrt{4}} \times 4$$
$$4733440 = (4 + 7^3 - 3)^{\sqrt{4}} \times 40$$

$$483153 = (\sqrt{48 \times 3} - 1)^5 \times 3$$
$$4831530 = (\sqrt{48 \times 3} - 1)^5 \times 30$$

$$491775 = (-4 + \sqrt{9^{1+7}}) \times 75$$
$$4917750 = (-4 + \sqrt{9^{1+7}}) \times 750$$

$$492205 = 49^2 \times 205$$
$$4922050 = 49^2 \times 2050$$

$$492375 = (4 + \sqrt{9^{2^3}}) \times 75$$
$$4923750 = (4 + \sqrt{9^{2^3}}) \times 750$$

$$493839 = (-4 + \sqrt{9} + 38^3) \times 9$$
$$4938390 = (-4 + \sqrt{9} + 38^3) \times 90$$

$$499755 = (-49 + (\sqrt{9} + 7)^5) \times 5$$
$$4997550 = (-49 + (\sqrt{9} + 7)^5) \times 50$$

$$524088 = (-5^2 + 4^{08}) \times 8$$
$$5240880 = (-5^2 + 4^{08}) \times 80$$

$$524248 = (-5 + (-2 + 4)^{2^4}) \times 8$$
$$5242480 = (-5 + (-2 + 4)^{2^4}) \times 80$$

$$524288 = (5 - 2/(4/2))^8 \times 8$$
$$5242880 = (5 - 2/(4/2))^8 \times 80$$

$$524328 = (5 + 2^{\sqrt{4^3} \times 2}) \times 8$$
$$5243280 = (5 + 2^{\sqrt{4^3} \times 2}) \times 80$$

$$524392 = (52 + 4^{3 \times \sqrt{9}}) \times 2$$
$$5243920 = (52 + 4^{3 \times \sqrt{9}}) \times 20$$

$$524488 = (5^{-2+4} + 4^8) \times 8$$
$$5244880 = (5^{-2+4} + 4^8) \times 80$$

$$526833 = (-5 + (2^6 - 8)^3) \times 3$$
$$5268330 = (-5 + (2^6 - 8)^3) \times 30$$

$$538412 = (5 + 3^8) \times 41 \times 2$$
$$5384120 = (5 + 3^8) \times 41 \times 20$$

$$559539 = (5^5 + 9^5 - 3) \times 9$$
$$5595390 = (5^5 + 9^5 - 3) \times 90$$

$$559872 = (\sqrt{5 \times 5} + 9 - 8)^7 \times 2$$
$$5598720 = (\sqrt{5 \times 5} + 9 - 8)^7 \times 20$$

$$562419 = ((5^6 - 2) \times 4 - 1) \times 9$$
$$5624190 = ((5^6 - 2) \times 4 - 1) \times 90$$

$$563922 = ((56 + 3) \times 9)^2 \times 2$$
$$5639220 = ((56 + 3) \times 9)^2 \times 20$$

$$566937 = \left(\sqrt{(5 \times 6)^6} - \sqrt{9}\right) \times 3 \times 7$$
$$5669370 = \left(\sqrt{(5 \times 6)^6} - \sqrt{9}\right) \times 3 \times 70$$

$$574644 = (5^7 + 4^{\sqrt{64}}) \times 4$$
$$5746440 = (5^7 + 4^{\sqrt{64}}) \times 40$$

$$574992 = (-5 + 74 - \sqrt{9})^{\sqrt{9}} \times 2$$
$$5749920 = (-5 + 74 - \sqrt{9})^{\sqrt{9}} \times 20$$

$$583443 = (5 + 8 - 34)^4 \times 3$$
$$5834430 = (5 + 8 - 34)^4 \times 30$$

$$584199 = (-\sqrt{5^8} + 4^{-1+9}) \times 9$$
$$5841990 = (-\sqrt{5^8} + 4^{-1+9}) \times 90$$

$$584647 = (5 + 8/4 \times 6)^4 \times 7$$
$$5846470 = (5 + 8/4 \times 6)^4 \times 70$$

$$588245 = \left(5 + \sqrt{\sqrt{8 + 8}}\right)^{2+4} \times 5$$
$$5882450 = \left(5 + \sqrt{\sqrt{8 + 8}}\right)^{2+4} \times 50$$

$$588765 = ((5 + 8) \times 8 + 7^6) \times 5$$
$$5887650 = ((5 + 8) \times 8 + 7^6) \times 50$$

$$629984 = (6 - 2 + \sqrt{9^9}) \times 8 \times 4$$
$$6299840 = (6 - 2 + \sqrt{9^9}) \times 8 \times 40$$

$$640024 = (6 + 400^2) \times 4$$
$$6400240 = (6 + 400^2) \times 40$$

$$653184 = 6^5 \times (3 + 18) \times 4$$
$$6531840 = 6^5 \times (3 + 18) \times 40$$

$$655284 = (6^5 + 5^2) \times 84$$
$$6552840 = (6^5 + 5^2) \times 840$$

$$655935 = (6 \times 5^5 - 9) \times 35$$
$$6559350 = (6 \times 5^5 - 9) \times 350$$

$$656187 = (6 \times 5^6 - 1 - 8) \times 7$$
$$6561870 = (6 \times 5^6 - 1 - 8) \times 70$$

$$656376 = (6 + 5^6 - 3) \times 7 \times 6$$
$$6563760 = (6 + 5^6 - 3) \times 7 \times 60$$

$$656397 = (6 \times (5^6 + 3) + \sqrt{9}) \times 7$$
$$6563970 = (6 \times (5^6 + 3) + \sqrt{9}) \times 70$$

$$656817 = (6 \times 5^6 + 81) \times 7$$
$$6568170 = (6 \times 5^6 + 81) \times 70$$

$$658845 = (6 + 5)^{\sqrt{8+8}} \times 45$$
$$6588450 = (6 + 5)^{\sqrt{8+8}} \times 450$$

$$659685 = (6^5 - 9 - 6) \times 85$$
$$6596850 = (6^5 - 9 - 6) \times 850$$

$$684288 = \sqrt{6^8} \times (4 + 2) \times 88$$
$$6842880 = \sqrt{6^8} \times (4 + 2) \times 880$$

$$688128 = 6 \times \sqrt{8^8} \times 1 \times 28$$
$$6881280 = 6 \times \sqrt{8^8} \times 1 \times 280$$

$$699735 = (6^{9-\sqrt{9}} - 7) \times 3 \times 5$$
$$6997350 = (6^{9-\sqrt{9}} - 7) \times 3 \times 50$$

$$699875 = (6^9/(9 \times 8) + 7) \times 5$$
$$6998750 = (6^9/(9 \times 8) + 7) \times 50$$

$$705642 = (7^{05} - 6) \times 42$$
$$7056420 = (7^{05} - 6) \times 420$$

$$708295 = \sqrt{7^{08}} \times 295$$
$$7082950 = \sqrt{7^{08}} \times 2950$$

$$715822 = 71^{\sqrt{5+8/2}} \times 2$$
$$7158220 = 71^{\sqrt{5+8/2}} \times 20$$

$$741321 = (7 \times 41 \times 3)^2 \times 1$$
$$7413210 = (7 \times 41 \times 3)^2 \times 10$$

$$742572 = ((7 + 4 + 2)^5 - 7) \times 2$$
$$7425720 = ((7 + 4 + 2)^5 - 7) \times 20$$

$$742592 = ((7 + 4 + 2)^5 + \sqrt{9}) \times 2$$
$$7425920 = ((7 + 4 + 2)^5 + \sqrt{9}) \times 20$$

$$744385 = (\sqrt{7^4} + 4)^{\sqrt{\sqrt{\sqrt{3^8}}}} \times 5$$
$$7443850 = (\sqrt{7^4} + 4)^{\sqrt{\sqrt{\sqrt{3^8}}}} \times 50$$

$$746496 = (7 + \sqrt{4}) \times (6 \times 4)^{\sqrt{9}} \times 6$$
$$7464960 = (7 + \sqrt{4}) \times (6 \times 4)^{\sqrt{9}} \times 60$$

$$746523 = (7 + (\sqrt{4} \times 6)^5 + 2) \times 3$$
$$7465230 = (7 + (\sqrt{4} \times 6)^5 + 2) \times 30$$

$$756315 = 7^5 \times (6 - 3) \times 15$$
$$7563150 = 7^5 \times (6 - 3) \times 150$$

$$756325 = (7^5 \times (6 + 3) + 2) \times 5$$
$$7563250 = (7^5 \times (6 + 3) + 2) \times 50$$

$$756495 = (7^5 + 6 - \sqrt{4}) \times 9 \times 5$$
$$7564950 = (7^5 + 6 - \sqrt{4}) \times 9 \times 50$$

$$756549 = ((7^5 + 6) \times 5 - 4) \times 9$$
$$7565490 = ((7^5 + 6) \times 5 - 4) \times 90$$

$$766927 = (7 + 6 \times 6 \times 9)^2 \times 7$$
$$7669270 = (7 + 6 \times 6 \times 9)^2 \times 70$$

$$777924 = 7 \times 7 \times (7 \times 9)^2 \times 4$$
$$7779240 = 7 \times 7 \times (7 \times 9)^2 \times 40$$

$$786393 = (-7 + 8^6 + 3 - 9) \times 3$$
$$7863930 = (-7 + 8^6 + 3 - 9) \times 30$$

$$786411 = (-7 + 8^6) \times (4 - 1) \times 1$$
$$7864110 = (-7 + 8^6) \times (4 - 1) \times 10$$

$$786423 = (-7 + 8^6 + \sqrt{4^2}) \times 3$$
$$7864230 = (-7 + 8^6 + \sqrt{4^2}) \times 30$$

$$786483 = (7 + 8^6 + \sqrt{4} + 8) \times 3$$
$$7864830 = (7 + 8^6 + \sqrt{4} + 8) \times 30$$

$$789647 = (7^{8-\sqrt{9}} - 6) \times 47$$
$$7896470 = (7^{8-\sqrt{9}} - 6) \times 470$$

$$796488 = 7 \times (-\sqrt{9} + 6^4) \times 88$$
$$7964880 = 7 \times (-\sqrt{9} + 6^4) \times 880$$

$$798848 = (79 \times \sqrt{8+8})^{\sqrt{4}} \times 8$$
$$7988480 = (79 \times \sqrt{8+8})^{\sqrt{4}} \times 80$$

$$805255 = (8 + 05 - 2)^5 \times 5$$
$$8052550 = (8 + 05 - 2)^5 \times 50$$

$$805655 = (80 + (5 + 6)^5) \times 5$$
$$8056550 = (80 + (5 + 6)^5) \times 50$$

$$839673 = ((-8 + 3) \times 9 + 6^7) \times 3$$
$$8396730 = ((-8 + 3) \times 9 + 6^7) \times 30$$

$$839793 = (-8 + (-3 + 9)^7 + \sqrt{9}) \times 3$$
$$8397930 = (-8 + (-3 + 9)^7 + \sqrt{9}) \times 30$$

$$907596 = (9 \times (07)^5 + \sqrt{9}) \times 6$$
$$9075960 = (9 \times (07)^5 + \sqrt{9}) \times 60$$

$$911493 = (9 \times 11)^{\sqrt{4}} \times 93$$
$$9114930 = (9 \times 11)^{\sqrt{4}} \times 930$$

$$912247 = (9 + 12 - 2)^4 \times 7$$
$$9122470 = (9 + 12 - 2)^4 \times 70$$

$$924385 = (9 - 2)^4 \times 385$$
$$9243850 = (9 - 2)^4 \times 3850$$

$$938492 = (93 + 8)^{\sqrt{4}} \times 92$$
$$9384920 = (93 + 8)^{\sqrt{4}} \times 920$$

$$941168 = (\sqrt{9} + (-4 + 11)^6) \times 8$$
$$9411680 = (\sqrt{9} + (-4 + 11)^6) \times 80$$

$$944559 = ((9 \times \sqrt{4})^4 - 5 \times 5) \times 9$$
$$9445590 = ((9 \times \sqrt{4})^4 - 5 \times 5) \times 90$$

$$944784 = 9^4 \times (4 \times 7 + 8) \times 4$$
$$9447840 = 9^4 \times (4 \times 7 + 8) \times 40$$

$$948395 = \sqrt{(9 - \sqrt{4})^8} \times 395$$
$$9483950 = \sqrt{(9 - \sqrt{4})^8} \times 3950$$

$$973944 = ((9 \times 7)^3 - 9^4) \times 4$$
$$9739440 = ((9 \times 7)^3 - 9^4) \times 40$$

$$989497 = (98 + \sqrt{9})^{\sqrt{4}} \times 97$$
$$9894970 = (98 + \sqrt{9})^{\sqrt{4}} \times 970$$

$$995319 = ((\sqrt{9} + 9 \times 5)^3 - 1) \times 9$$
$$9953190 = ((\sqrt{9} + 9 \times 5)^3 - 1) \times 90$$

$$995324 = ((9 + \sqrt{9})^5 - 3 + 2) \times 4$$
$$9953240 = ((9 + \sqrt{9})^5 - 3 + 2) \times 40$$

$$995544 = ((9 + \sqrt{9})^5 + 54) \times 4$$
$$9955440 = ((9 + \sqrt{9})^5 + 54) \times 40$$

## 7.2 Patterned Selfie Numbers in Decreasing Order of Digits

$137842 = (-8+\sqrt{7^4})^3 \times 2 \times 1$
$1378420 = (-8+\sqrt{7^4})^3 \times 2 \times 10$

$139644 = 9 \times \sqrt{6^4} \times 431$
$1396440 = 9 \times \sqrt{6^4} \times 4310$

$145924 = (95 \times 4 + \sqrt{4})^2 \times 1$
$1459240 = (95 \times 4 + \sqrt{4})^2 \times 10$

$147456 = (76 \times 5 + 4)^{\sqrt{4}} \times 1$
$1474560 = (76 \times 5 + 4)^{\sqrt{4}} \times 10$

$149769 = (9 + 9 \times 7 \times 6)^{\sqrt{4}} \times 1$
$1497690 = (9 + 9 \times 7 \times 6)^{\sqrt{4}} \times 10$

$156984 = \sqrt{9} \times 8 \times 6541$
$1569840 = \sqrt{9} \times 8 \times 65410$

$166464 = (6 \times (66 + \sqrt{4}))^{\sqrt{4}} \times 1$
$1664640 = (6 \times (66 + \sqrt{4}))^{\sqrt{4}} \times 10$

$169744 = ((97 + 6) \times 4)^{\sqrt{4}} \times 1$
$1697440 = ((97 + 6) \times 4)^{\sqrt{4}} \times 10$

$176469 = (-\sqrt{9} + 7^6) \times 6/4 \times 1$
$1764690 = (-\sqrt{9} + 7^6) \times 6/4 \times 10$

$178929 = (9 \times (9 - 8 \times 7))^2 \times 1$
$1789290 = (9 \times (9 - 8 \times 7))^2 \times 10$

$193635 = 9 \times 65 \times 331$
$1936350 = 9 \times 65 \times 3310$

$229842 = (\sqrt{9} + 8 \times 42)^2 \times 2$
$2298420 = (\sqrt{9} + 8 \times 42)^2 \times 20$

$232974 = 9 \times 7 \times 43^2 \times 2$
$2329740 = 9 \times 7 \times 43^2 \times 20$

$235294 = ((9 \times 5 + 4)^3 - 2) \times 2$
$2352940 = ((9 \times 5 + 4)^3 - 2) \times 20$

$235298 = \sqrt{(9 + 8 \times 5)^{3 \times 2}} \times 2$
$2352980 = \sqrt{(9 + 8 \times 5)^{3 \times 2}} \times 20$

$236196 = (9 \times 6 \times (6 + 3))^2 \times 1$
$2361960 = (9 \times 6 \times (6 + 3))^2 \times 10$

$239432 = (\sqrt{9} + (4 + 3)^3)^2 \times 2$
$2394320 = (\sqrt{9} + (4 + 3)^3)^2 \times 20$

$244944 = \sqrt{(9 \times \sqrt{4})^{\sqrt{4}+4}} \times 42$
$2449440 = \sqrt{(9 \times \sqrt{4})^{\sqrt{4}+4}} \times 420$

$253125 = 5 \times (5 \times 3)^{2 \times 2} \times 1$
$2531250 = 5 \times (5 \times 3)^{2 \times 2} \times 10$

$262144 = (6 - 4)^{-4+22} \times 1$
$2621440 = (6 - 4)^{-4+22} \times 10$

$263169 = (9 \times (6 - 63))^2 \times 1$
$2631690 = (9 \times (6 - 63))^2 \times 10$

$264188 = (-8 + (\sqrt{8^6} + \sqrt{4})^2) \times 1$
$2641880 = (-8 + (\sqrt{8^6} + \sqrt{4})^2) \times 10$

$265189 = (-\sqrt{9} + \sqrt{8^6}) \times 521$
$2651890 = (-\sqrt{9} + \sqrt{8^6}) \times 5210$

$268784 = 8 \times (-8 + \sqrt{7^{6+4}}) \times 2$
$2687840 = 8 \times (-8 + \sqrt{7^{6+4}}) \times 20$

$268915 = (\sqrt{9} + (8 + 6)^5/2) \times 1$
$2689150 = (\sqrt{9} + (8 + 6)^5/2) \times 10$

$269568 = \sqrt{9} \times 8 \times \sqrt{6^6} \times 52$
$2695680 = \sqrt{9} \times 8 \times \sqrt{6^6} \times 520$

$283648 = 8864 \times 32$
$2836480 = 8864 \times 320$

$29282 = (\sqrt{9} + 8)^{2 \times 2} \times 2$
$292820 = (\sqrt{9} + 8)^{2 \times 2} \times 20$

$294894 = (-9 + 9 \times 8^4 \times 4) \times 2$
$2948940 = (-9 + 9 \times 8^4 \times 4) \times 20$

$294984 = (9 + 9 \times 8^4) \times 4 \times 2$
$2949840 = (9 + 9 \times 8^4) \times 4 \times 20$

$299376 = 99 \times 7 \times 6^3 \times 2$
$2993760 = 99 \times 7 \times 6^3 \times 20$

$312975 = 975 \times 321$
$3129750 = 975 \times 3210$

$314199 = 9^{\sqrt{9}} \times 431 \times 1$
$3141990 = 9^{\sqrt{9}} \times 431 \times 10$

$314925 = (-\sqrt{9} + 54^3 \times 2) \times 1$
$3149250 = (-\sqrt{9} + 54^3 \times 2) \times 10$

$314926 = ((\sqrt{9} \times 6)^4 \times 3 - 2) \times 1$
$3149260 = ((\sqrt{9} \times 6)^4 \times 3 - 2) \times 10$

$321489 = \sqrt{9^8} \times (4 + 3)^2 \times 1$
$3214890 = \sqrt{9^8} \times (4 + 3)^2 \times 10$

$326613 = (6^6 + 3)/3 \times 21$
$3266130 = (6^6 + 3)/3 \times 210$

$338551 = (8^5 - 5)/3 \times 31$
$3385510 = (8^5 - 5)/3 \times 310$

$342792 = (9 \times (\sqrt{7^4} - 3))^2 \times 2$
$3427920 = (9 \times (\sqrt{7^4} - 3))^2 \times 20$

$346794 = ((\sqrt{9} - \sqrt{7^6})^{\sqrt{4}} - \sqrt{4}) \times 3$
$3467940 = ((\sqrt{9} - \sqrt{7^6})^{\sqrt{4}} - \sqrt{4}) \times 30$

$349191 = 9 \times 9 \times 4311$
$3491910 = 9 \times 9 \times 43110$

$$354294 = \sqrt{9^{54-43}} \times 2$$
$$3542940 = \sqrt{9^{54-43}} \times 20$$

$$354296 = (\sqrt{9^{6+5}} + 4 - 3) \times 2$$
$$3542960 = (\sqrt{9^{6+5}} + 4 - 3) \times 20$$

$$354393 = (9^5 \times \sqrt{4} + 33) \times 3$$
$$3543930 = (9^5 \times \sqrt{4} + 33) \times 30$$

$$357914 = (\sqrt{9} + (75 - 4)^3) \times 1$$
$$3579140 = (\sqrt{9} + (75 - 4)^3) \times 10$$

$$371293 = (9 + 7 - 3)^{3+2} \times 1$$
$$3712930 = (9 + 7 - 3)^{3+2} \times 10$$

$$371349 = 9 \times (7 + 4)^3 \times 31$$
$$3713490 = 9 \times (7 + 4)^3 \times 310$$

$$394272 = (9 \times \sqrt{7^4} + 3)^2 \times 2$$
$$3942720 = (9 \times \sqrt{7^4} + 3)^2 \times 20$$

$$415575 = 75 \times 5541$$
$$4155750 = 75 \times 55410$$

$$419913 = 9 \times ((9 \times 4)^3 + 1) \times 1$$
$$4199130 = 9 \times ((9 \times 4)^3 + 1) \times 10$$

$$433125 = 5^4 \times 33 \times 21$$
$$4331250 = 5^4 \times 33 \times 210$$

$$441344 = 4^4 \times 4 \times 431$$
$$4413440 = 4^4 \times 4 \times 4310$$

$$453759 = (9 \times 7^5 - 5 \times \sqrt{4}) \times 3$$
$$4537590 = (9 \times 7^5 - 5 \times \sqrt{4}) \times 30$$

$$453789 = \sqrt{\sqrt{\sqrt{9^8}}} \times \sqrt{7^{5 \times \sqrt{4}}} \times 3$$
$$4537890 = \sqrt{\sqrt{\sqrt{9^8}}} \times \sqrt{7^{5 \times \sqrt{4}}} \times 30$$

$$453795 = (9 \times \sqrt{7^{5+5}} + \sqrt{4}) \times 3$$
$$4537950 = (9 \times \sqrt{7^{5+5}} + \sqrt{4}) \times 30$$

$$453897 = \sqrt{\sqrt{\sqrt{9^8}}} \times (7^5 + 4) \times 3$$
$$4538970 = \sqrt{\sqrt{\sqrt{9^8}}} \times (7^5 + 4) \times 30$$

$$453962 = (9 \times 6 + 5 + \sqrt{4})^3 \times 2$$
$$4539620 = (9 \times 6 + 5 + \sqrt{4})^3 \times 20$$

$$459278 = (\sqrt{9^8} \times 7 \times 5 + 4) \times 2$$
$$4592780 = (\sqrt{9^8} \times 7 \times 5 + 4) \times 20$$

$$459279 = 9 + \sqrt{9^7} \times 5 \times 42$$
$$4592790 = 9 + \sqrt{9^7} \times 5 \times 420$$

$$468512 = (-8 + 6 \times 5)^4 \times 2 \times 1$$
$$4685120 = (-8 + 6 \times 5)^4 \times 2 \times 10$$

$$468528 = (8 + (8 - 6 \times 5)^4) \times 2$$
$$4685280 = (8 + (8 - 6 \times 5)^4) \times 20$$

$$471969 = (99 \times 7 - 6)^{\sqrt{4}} \times 1$$
$$4719690 = (99 \times 7 - 6)^{\sqrt{4}} \times 10$$

$$472896 = (\sqrt{9^8} + 7) \times \sqrt{6^4} \times 2$$
$$4728960 = (\sqrt{9^8} + 7) \times \sqrt{6^4} \times 20$$

$$483159 = ((\sqrt{9} + 8)^5 + \sqrt{4}) \times 3 \times 1$$
$$4831590 = ((\sqrt{9} + 8)^5 + \sqrt{4}) \times 3 \times 10$$

$$513216 = 6^{5+3-2} \times 11$$
$$5132160 = 6^{5+3-2} \times 110$$

$$523648 = (8^6 - 5 \times 4^3) \times 2$$
$$5236480 = (8^6 - 5 \times 4^3) \times 20$$

$$524268 = (8^6 - 5 \times 4/2) \times 2$$
$$5242680 = (8^6 - 5 \times 4/2) \times 20$$

$$524284 = (8^5 \times (4 + 4) - 2) \times 2$$
$$5242840 = (8^5 \times (4 + 4) - 2) \times 20$$

$$524292 = ((\sqrt{9} + 5)^{4+2} + 2) \times 2$$
$$5242920 = ((\sqrt{9} + 5)^{4+2} + 2) \times 20$$

$$524368 = (8^6 + 5 \times \sqrt{4^3}) \times 2$$
$$5243680 = (8^6 + 5 \times \sqrt{4^3}) \times 20$$

$$531438 = ((85 - 4)^3 - 3) \times 1$$
$$5314380 = ((85 - 4)^3 - 3) \times 10$$

$$531444 = ((54/\sqrt{4})^4 + 3) \times 1$$
$$5314440 = ((54/\sqrt{4})^4 + 3) \times 10$$

$$537472 = (-7 + 7^5 - 4) \times 32$$
$$5374720 = (-7 + 7^5 - 4) \times 320$$

$$537952 = (9 + 7^5 - 5) \times 32$$
$$5379520 = (9 + 7^5 - 5) \times 320$$

$$549256 = (\sqrt{9} + 65^{\sqrt{5+4}}) \times 2$$
$$5492560 = (\sqrt{9} + 65^{\sqrt{5+4}}) \times 20$$

$$563922 = (9 \times (6 + 53))^2 \times 2$$
$$5639220 = (9 \times (6 + 53))^2 \times 20$$

$$574992 = (\sqrt{9} + 9 \times 7)^{\sqrt{5+4}} \times 2$$
$$5749920 = (\sqrt{9} + 9 \times 7)^{\sqrt{5+4}} \times 20$$

$$585336 = (8 \times 6 + 5 + 5)^3 \times 3$$
$$5853360 = (8 \times 6 + 5 + 5)^3 \times 30$$

$$589992 = (\sqrt{9} + 9 \times (9 + 8^5)) \times 2$$
$$5899920 = (\sqrt{9} + 9 \times (9 + 8^5)) \times 20$$

$$629848 = (\sqrt{9^8} \times 8 \times 6 - 4) \times 2$$
$$6298480 = (\sqrt{9^8} \times 8 \times 6 - 4) \times 20$$

$$629868 = (\sqrt{9^8} \times 8 \times 6 + 6) \times 2$$
$$6298680 = (\sqrt{9^8} \times 8 \times 6 + 6) \times 20$$

$$642978 = \sqrt{9^8} \times \sqrt{\sqrt{7^{\sqrt{64}}}} \times 2$$
$$6429780 = \sqrt{9^8} \times \sqrt{\sqrt{7^{\sqrt{64}}}} \times 20$$

$$645576 = (\sqrt{7^6} + (6 + 5)^5) \times 4$$
$$6455760 = (\sqrt{7^6} + (6 + 5)^5) \times 40$$

$647119 = (9+7^6)/\sqrt{4} \times 11$
$6471190 = (9+7^6)/\sqrt{4} \times 110$

$663424 = ((6+6)^4 - 4) \times 32$
$6634240 = ((6+6)^4 - 4) \times 320$

$688128 = 8 \times 8 \times \sqrt{8^6} \times 21$
$6881280 = 8 \times 8 \times \sqrt{8^6} \times 210$

$742576 = (-7 + (7+6)^5 + \sqrt{4}) \times 2$
$7425760 = (-7 + (7+6)^5 + \sqrt{4}) \times 20$

$742596 = (9 + (7+6)^5 - 4) \times 2$
$7425960 = (9 + (7+6)^5 - 4) \times 20$

$746664 = (7 \times 6 + 6^6 \times 4) \times 4$
$7466640 = (7 \times 6 + 6^6 \times 4) \times 40$

$755975 = 9 \times (-7 + 7^5 + 5) \times 5$
$7559750 = 9 \times (-7 + 7^5 + 5) \times 50$

$758641 = (876-5)^{\sqrt{4}} \times 1$
$7586410 = (876-5)^{\sqrt{4}} \times 10$

$759381 = (9 + (8+7)^5 - 3) \times 1$
$7593810 = (9 + (8+7)^5 - 3) \times 10$

$786438 = (8^{(8-7)\times 6} + \sqrt{4}) \times 3$
$7864380 = (8^{(8-7)\times 6} + \sqrt{4}) \times 30$

$794624 = 97 \times \sqrt{64^4} \times 2$
$7946240 = 97 \times \sqrt{64^4} \times 20$

$839496 = (-9 + (9+8+6)^4) \times 3$
$8394960 = (-9 + (9+8+6)^4) \times 30$

$839787 = (\sqrt{(9 \times \sqrt{8+8})^7} - 7) \times 3$
$8397870 = (\sqrt{(9 \times \sqrt{8+8})^7} - 7) \times 30$

$844993 = (\sqrt{9^9} - 8 \times 4) \times 43$
$8449930 = (\sqrt{9^9} - 8 \times 4) \times 430$

$846369 = \sqrt{9^{8+6/6}} \times 43$
$8463690 = \sqrt{9^{8+6/6}} \times 430$

$852926 = (\sqrt{9^8} \times 65 - 2) \times 2$
$8529260 = (\sqrt{9^8} \times 65 - 2) \times 20$

$852936 = (\sqrt{9^8} \times 65 + 3) \times 2$
$8529360 = (\sqrt{9^8} \times 65 + 3) \times 20$

$857157 = (8-7) \times 7^5 \times 51$
$8571570 = (8-7) \times 7^5 \times 510$

$857158 = 8/8 + 7^5 \times 51$
$8571580 = 8/8 + 7^5 \times 510$

$879844 = ((\sqrt{9} + 8 \times 8) \times 7)^{\sqrt{4}} \times 4$
$8798440 = ((\sqrt{9} + 8 \times 8) \times 7)^{\sqrt{4}} \times 40$

$884736 = \sqrt{8^8} \times (76-4) \times 3$
$8847360 = \sqrt{8^8} \times (76-4) \times 30$

$885143 = (-8 + (8+5)^4) \times 31$
$8851430 = (-8 + (8+5)^4) \times 310$

$885735 = \sqrt{(88-7)^5} \times 5 \times 3$
$8857350 = \sqrt{(88-7)^5} \times 5 \times 30$

$918731 = (9+8)^{7-3} \times 11$
$9187310 = (9+8)^{7-3} \times 110$

$941189 = (-\sqrt{9} + 98^{4-1}) \times 1$
$9411890 = (-\sqrt{9} + 98^{4-1}) \times 10$

$983043 = \sqrt{9} + (8 \times 4)^3 \times 30$
$9830430 = \sqrt{9} + (8 \times 4)^3 \times 300$

$995544 = ((\sqrt{9} + 9)^5 + 54) \times 4$
$9955440 = ((\sqrt{9} + 9)^5 + 54) \times 40$

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