Selfie Expressions With Factorial, Fibonacci and Triangular Values,
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Selfie Expressions With Factorial, Fibonacci and Triangular Values[1]

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Abstract

Selfie expressions *are written in such a way that both sides of the expressions are with same digits. This work brings expressions where one side with factorial, and other side with Fibonacci and/or with triangular numbers having same digit's order. This we have done in different ways. One expressions with Factorial, Fibonacci and Triangular values. Second, expressions with Factorial and Fibonacci values. Third, expressions with Factorial and Triangular numbers. Forth, expressions with Fibonacci sequence and Triangular numbers. The operations used are addition, subtraction and multiplication.*

Contents

[1]It is revised and combined version author's previous works http://rgmia.org/papers/v20/v20a114.pdf [8], http://rgmia.org/papers/v20/v20a122.pdf [9] and http://rgmia.org/papers/v20/v20a123.pdf [10] done in 2017.

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1 Selfie Expressions

Selfie expressions are very much similar to **selfie numbers**. Selfie numbers are represented by its own digits by use of some operations, while **selfie expressions** are the expressions where both sides have same digits, not necessarily same operations on both sides, i.e., **same digits equality expressions**. Below are different ways of expressing equalities with same digits on both sides:

• Multiplicative Equalities

$$abcd... \times efgh... = cbad... \times gfhe..\ \ \forall a,b,c,d,e,... \in \mathrm{N}_{+}. \tag{1}$$

• Power and Addition

$$a^b + c^d + ... = ab + cd + ...,\ \ \forall a,b,c,d,.. \in \mathrm{N}. \tag{2}$$

• **Factorial and Power**

$$a! \times b! + (c! + d!) \times e! + ... = a^a + b^b - c^c \times (d^d - e^e) + ..., \quad \forall a, b, c, d, e, ... \in \mathrm{N}_+, \text{ etc.} \tag{3}$$

$$a! \times b! + (c! + d!) \times e! + ... = a^c + (b^d - c^a) \times d^e - e^b + ..., \quad \forall a, b, c, d, e, ... \in \mathrm{N}_+, \text{ etc.} \tag{4}$$

We observe that the (4) is different from the (3) in right side of the expression. In case (3), the power of digits is same as of bases. In case of (4), it is not necessary that the power is same as of digits, but is a permutation of same digits as of bases. See below more general way.

$$(a!, b!, c!, ...) = (a^a, b^b, c^c, ..)$$
$$(a!, b!, c!, ...) = (a, b, c, ..)^{(a,b,c,...)}.$$

The first expression is simplified form of (3) and the second expression is similar to (4).

Let us explain one by one, the idea of above four **selfie expressions**, i.e., (1)-(4).

1.1 Multiplicative Selfie Equalities

This subsection brings results based on the expression (1). By **multiplicative selfie equalities**, we understand that there are equalities, where each side is separated by operation of multiplications having same digits on both sides, not necessarily in same order. There are many ways of writing these kind of numbers explained in following subsections.

1.1.1 First Type

In this case, we have multiplicative equalities with equal number of digits on both sides and also in each multiplicative factor. The operation of multiplications is with number and its reverse forming a palindromic-type expression. For example, Based on idea of expressions are written in such a way that numbers formed by same digits multiplied by its reverse are equal to another group of multiplicative factors with same digits but of different numbers. See below some examples:

$\diamond\ 37468 \times 86473 = 47386 \times 68374$
$\diamond\ 37596 \times 69573 = 39756 \times 65793$
$\diamond\ 39648 \times 84693 = 48396 \times 69384$
$\diamond\ 45495 \times 59454 = 49545 \times 54594$
$\diamond\ 46069 \times 96064 = 64096 \times 69046$

$\diamond\ 120024 \times 420021 = 210042 \times 240012$
$\diamond\ 102204 \times 402201 = 201402 \times 204102$
$\diamond\ 130026 \times 620031 = 260013 \times 310062$
$\diamond\ 120036 \times 630021 = 210063 \times 360012$
$\diamond\ 102306 \times 603201 = 201603 \times 306102$

1.1.2 Second Type

The second case is similar to first one, having the same number of digits in each multiplicative factor but not forming a palindromic-type expression. For example,

$$\diamond\ 2017 \times 3404 = 1702 \times 4034$$
$$\diamond\ 2017 \times 6808 = 1702 \times 8068$$

$$\diamond\ 1729 \times 3584 = 1792 \times 3458$$
$$\diamond\ 1729 \times 3854 = 1927 \times 3458$$
$$\diamond\ 1729 \times 4358 = 2179 \times 3458$$
$$\diamond\ 1729 \times 4732 = 2197 \times 3724$$
$$\diamond\ 1729 \times 5438 = 2719 \times 3458$$
$$\diamond\ 1729 \times 5781 = 1927 \times 5187$$

1.1.3 Third Type

The third case is similar to second one, but there is no rule with order of digits. Only thing is that on both sides of the equality sign, there are same digits
There are many numbers, but we have written only those with more than one equality sign. See below examples,

$$\diamond\ 162 \times 8064 = 216 \times 6048 = 648 \times 2016$$
$$\diamond\ 162 \times 8073 = 207 \times 6318 = 702 \times 1863$$
$$\diamond\ 17 \times 35945 = 35 \times 17459 = 395 \times 1547$$
$$\diamond\ 176 \times 7469 = 194 \times 6776 = 776 \times 1694$$
$$\diamond\ 18 \times 39879 = 189 \times 3798 = 378 \times 1899$$
$$\diamond\ 18 \times 41553 = 54 \times 13851 = 513 \times 1458$$

$$\diamond\ 1782 \times 43956 = 2178 \times 35964 = 3564 \times 21978 = 4356 \times 17982$$
$$\diamond\ 18 \times 2830464 = 486 \times 104832 = 1404 \times 36288 = 3024 \times 16848$$
$$\diamond\ 18 \times 5204736 = 162 \times 578304 = 3456 \times 27108 = 4518 \times 20736$$
$$\diamond\ 198 \times 179982 = 297 \times 119988 = 1188 \times 29997 = 1782 \times 19998$$
$$\diamond\ 198 \times 339966 = 396 \times 169983 = 1683 \times 39996 = 3366 \times 19998$$
$$\diamond\ 2 \times 12089121 = 11 \times 2198022 = 222 \times 108911 = 1221 \times 19802$$

Due to large quantity of numbers, we worked only with double or higher equality signs. Some times these expressions with single equality are famous as **vamp numbers**. For more numbers of this kind refer author's work [11].

1.2 Powers and Addition

Following the idea of expression (2) the author wrote the numbers **2017** [6] and **1729** [7] as:

$$\begin{aligned}
\mathbf{2017} &:= 4^4 + 41^2 + 77^0 + 79^1 && = 44 + 412 + 770 + 791 \\
&:= 1^4 + 44^2 + 77^0 + 79^1 && = 14 + 442 + 770 + 791 \\
&:= 2^4 + 2^8 + 4^2 + 12^3 + 180^0 && = 24 + 28 + 42 + 123 + 1800 \\
&:= 1^1 + 3^6 + 5^4 + 5^4 + 6^2 + 180^0 && = 11 + 36 + 54 + 54 + 62 + 1800
\end{aligned}$$

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$$\begin{aligned} \mathbf{1729} &:= 2^7 + 40^2 + 130^0 && = 27 + 402 + 1300 \\ &:= 2^6 + 40^2 + 64^1 + 66^0 && = 26 + 402 + 641 + 660 \\ &:= 1^6 + 41^2 + 46^1 + 84^0 && = 16 + 412 + 461 + 840 \end{aligned}$$

Below are more examples,

$$\begin{aligned} \mathbf{81} &:= 2^3 + 2^6 + 3^2 && = 23 + 26 + 32 \\ \mathbf{99} &:= 2^3 + 3^3 + 4^3 && = 23 + 33 + 43 \\ \mathbf{121} &:= 2^3 + 2^6 + 7^2 && = 23 + 26 + 72 \\ \mathbf{170} &:= 2^6 + 5^2 + 9^2 && = 26 + 52 + 92 \\ \mathbf{246} &:= 2^2 + 11^2 + 11^2 && = 22 + 112 + 112 \\ &:= 5^2 + 5^2 + 14^2 && = 52 + 52 + 142 \end{aligned}$$

$$\begin{aligned} \mathbf{266} &:= 4^2 + 9^2 + 13^2 && = 42 + 92 + 132 \\ \mathbf{286} &:= 6^2 + 9^2 + 13^2 && = 62 + 92 + 132 \\ \mathbf{306} &:= 8^2 + 11^2 + 11^2 && = 82 + 112 + 112 \\ &:= 9^2 + 9^2 + 12^2 && = 92 + 92 + 122 \end{aligned}$$

In the above examples, the equality expressions are formed by three terms on both sides, while the numbers 2017 and 1729 are with **different terms expressions**. More detailed study can be seen at author's work [15]. In these works, instead of using only positive sign, both positive and negative signs are used. For more study on numbers refer historical work [1, 2, 3].

1.3 Factorial and Power

Recently, author [16] worked on results arising due to (3) and (4). This we have done in three different ways. One without any repetition of digits. The second we have done with repetition of digits. Third with permutable powers. Both sides of the equality are with the operations as, addition, subtraction, and multiplication along with composite relation. See below some examples in each case:

1.3.1 Different Digits

$$\begin{aligned} \mathbf{144} &:= (2! - 1!) \times 3! \times 4! && = -2^2 \times (1^1 + 3^3) + 4^4 \\ \mathbf{147} &:= 1! + 2! + 3! \times 4! && = -1^1 - 2^2 \times 3^3 + 4^4 \\ \mathbf{148} &:= (1! + 4!) \times 3! - 2! && = 1^1 \times 4^4 - 3^3 \times 2^2 \\ \mathbf{152} &:= 2! + 3! \times (1! + 4!) && = 2^2 \times (-3^3 + 1^1) + 4^4 \\ \mathbf{286} &:= (-1! + 3! \times 4!) \times 2! && = -1^1 + 3^3 + 4^4 + 2^2 \\ \mathbf{287} &:= -1! + 2! \times 3! \times 4! && = 1^1 \times 2^2 + 3^3 + 4^4 \\ \mathbf{288} &:= 1! \times 2! \times 3! \times 4! && = 1^1 + 2^2 + 3^3 + 4^4 \end{aligned}$$

1.3.2 Repetition of Digits

$$\begin{aligned} \mathbf{108} &:= 2! \times (3! + 4! + 4!) && = 2^2 \times 3^3 + 4^4 - 4^4 \\ &:= 3! \times (3! + 3! \times 2!) && = (3^3 + 3^3 - 3^3) \times 2^2 \\ &:= -5! + 2! \times (5! - 3!) && = (5^5 + 2^2 - 5^5) \times 3^3 \\ &:= (-3! + 5!) \times 2! - 5! && = 3^3 \times (5^5 + 2^2 - 5^5) \\ &:= (2! \times 3! + 3!) \times 3! \times 1! && = (2^2 + 3^3 - 3^3) \times 3^3 \times 1^1 \end{aligned}$$

$$
\begin{aligned}
&:= (1! \times 1! + 2!) \times 3! \times 3! && = (-1^1 - 1^1 + 2^2) \times (3^3 + 3^3) \\
&:= (1! \times 3! + 3! + 3!) \times 3! && = 1^1 \times 3^3 + 3^3 + 3^3 + 3^3 \\
&:= (4! + 3! \times 1! + 4!) \times 2! && = (4^4 + 3^3 \times 1^1 - 4^4) \times 2^2 \\
&:= (-3! + 5! \times 1!) \times 2! - 5! && = (5^5 \times 1^1 + 3^3 - 5^5) \times 2^2
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{1008} &:= ((4! - 2!) \times 4! - 4!) \times 2! && = (4^4 - 2^2 - 4^4 + 4^4) \times 2^2 \\
&:= (2! + 2! + 4!) \times 3! \times 3! && = 2^2 \times (-2^2 + 4^4) - 3^3 + 3^3 \\
&:= (2! - 1! + 3!) \times 3! \times 4! && = -2^2 + (1^1 + 3^3) \times 3^3 + 4^4 \\
&:= 2! \times (2! \times (5! + 5!) + 4!) && = 2^2 \times (-2^2 - 5^5 + 5^5 + 4^4)
\end{aligned}
$$

1.3.3 Permutable Power

In the above two subsections powers on left side are the same as of bases, below are examples, where powers permutations of bases:

$$
\begin{aligned}
\mathbf{3648} &:= 1! \times 6! + (2! + 5!) \times 4! && = (1^5 + 6^2) \times 2^6 + 5^1 \times 4^4 \\
&:= 1! \times 6! + (5! + 2!) \times 4! && = (1^4 \times 6^2 + 5^1) \times 2^6 + 4^5
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{3649} &:= 1! + 4! \times (2! + 5!) + 6! && = 1^4 + 4^5 + 2^6 \times (5^1 + 6^2) \\
\mathbf{3690} &:= (1! + 2! + 5!) \times (3! + 4!) && = (1^2 + 2^1) \times (5^3 + 3^4 + 4^5) \\
\mathbf{3744} &:= (1! \times 3! + 5!) \times 4! + 6! && = (1^6 \times 3^5 + 5^3 + 4^4) \times 6^1 \\
\mathbf{3745} &:= 1! + (3! + 5!) \times 4! + 6! && = 1^6 + (3^5 + 5^3 + 4^4) \times 6^1
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{3840} &:= (1! \times 4! + 2! + 3!) \times 5! && = (1^4 + 4^3) \times (2^1 + 3^2) + 5^5 \\
& && = 1^4 \times 4^3 \times (2^5 + 3^1 + 5^2) \\
&:= 1! \times 5! \times (4! + 2!) + 6! && = (1^5 + 5^1) \times 4^4 + 2^6 \times 6^2
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{4320} &:= (2! - 1!) \times 3! \times 6! && = (-2^3 - 1^2 + 3^6) \times 6^1 \\
& && = 2^1 \times (1^6 + 3^2) \times 6^3 \\
&:= (2! - 1!) \times 7! - 6! && = (2^7 - 1^6 - 7^1) \times 6^2
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{4326} &:= 3! \times (2! - 1! + 6!) && = (3^6 - 2^3) \times 1^2 \times 6^1 \\
\mathbf{4332} &:= 1! \times 3! \times (2! + 6!) && = (1^2 + 3^6 - 2^3) \times 6^1 \\
\mathbf{4608} &:= 3! \times (4! \times 2! + 6!) && = 3^3 \times 4^4 - 2^6 \times 6^2 \\
\mathbf{4800} &:= 1! \times 7! - 2! \times 5! && = (-1^7 + 7^1) \times 2^5 \times 5^2 \\
\mathbf{5050} &:= 2! \times (3! - 1!) + 7! && = (2^7 - 3^3) \times (1^1 + 7^2) \\
\mathbf{5058} &:= (2! + 1!) \times 3! + 7! && = 2^1 \times (-1^2 + 3^7 + 7^3)
\end{aligned}
$$

For more details refer author's work [16].

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2 Fibonacci and Triangular Values

This section brings definition and idea of **Fibonacci and Triangular Values**. Also connections with **selfie numbers** are given in with some examples
Later these sequences are used to extend **selfie expressions** with some basic operations.

2.1 Selfie Numbers with Fibonacci Sequence

Fibonacci sequence numbers are well known in literature
[4, 5]. This sequence is defined as

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

Initial values of Fibonacci sequence are given by

$F(1) := 1$
$F(2) := 1$
$F(3) := 2$
$F(4) := 3$
$F(5) := 5$
$F(6) := 8$
$F(7) := 13$
$F(8) := 21$
$F(9) := 34$
$F(10) := 55$
$F(11) := 89$
$F(12) := 144$
$F(13) := 233$
$F(14) := 377$
$F(15) := 610$
$F(16) := 987$
$F(17) := 1597$
$F(18) := 2584$
$F(19) := 4181$
$F(20) := 6765$, etc,

Below are examples of selfie numbers with **Fibonacci sequence** values:

$\mathbf{235} := 2 + F(F(F(3) + 5))$
$\mathbf{256} := 2^5 \times F(6)$
$\mathbf{4427} := (F(4) + 4^2) \times F(F(7))$
$\mathbf{46493} := F(4 \times 6) + (-4 + 9)^3$
$\mathbf{63} := 3 \times F(F(6))$
$\mathbf{882} := 2 \times F(8) \times F(8)$
$\mathbf{1631} := F(13) \times (6 + 1)$
$\mathbf{54128} := 8 \times (F(2) + F(1 \times 4 \times 5))$

First column values are in **digit's order** and the second columns values are in **reverse order of digits**. For more details see author's [14].

2.2 Selfie Numbers with Triangle Numbers

The general formula to write these numbers is given by

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

.

Initial values of triangular sequence are given by

$$T(1) := 1$$
$$T(2) := 3$$
$$T(3) := 6$$
$$T(4) := 10$$
$$T(5) := 15$$
$$T(6) := 21$$
$$T(7) := 28$$
$$T(8) := 36$$
$$T(9) := 45$$
$$T(10) := 55$$
$$T(11) := 66$$
$$T(12) := 78$$
$$T(13) := 91$$
$$T(14) := 105$$
$$T(15) := 120$$
$$T(16) := 136$$
$$T(17) := 153$$
$$T(18) := 171$$
$$T(19) := 190$$
$$T(20) := 210, \text{etc,}$$

Below are examples of **selfie numbers** with **Triangular numbers**. See below:

$$\mathbf{1069} := T(10) - T(6) + T(T(9))$$
$$\mathbf{1081} := T(1 + T(08 + 1))$$
$$\mathbf{2887} := T(T(T(T(2)))) + T(T(8) + T(8)) + T(7)$$
$$\mathbf{4965} := T(-4 + 9) + T(-T(6) + T(T(5)))$$
$$\mathbf{4999} := 49 + T(99)$$
$$\mathbf{99545} := T(9) + T(9) \times T(T(T(5) - 4)) + 5$$
$$\mathbf{99546} := T(9) + T(9) \times T(T(T(5) - 4)) + 6$$
$$\mathbf{874} := T(T(T(4))) - T(T(7) + 8)$$
$$\mathbf{0105} := 50 + T(10)$$
$$\mathbf{1155} := -T(T(5)) + T(51 - 1)$$
$$\mathbf{1224} := T(T(T(4)) - T(T(2))) - 2 + 1$$
$$\mathbf{2418} := T(81) - T(42)$$
$$\mathbf{99632} := 2 + (3 + T(T(6) + T(9))) \times T(9)$$
$$\mathbf{99633} := 3 + (3 + T(T(6) + T(9))) \times T(9)$$

First column values are in **digit's order** and the second column values are in **reverse order of digits**. For more details see author's work [12]. Similar kind of work with **binomial coefficients** can be seen in Taneja [13].

As a consequence of definitions of $\boldsymbol{F}$ and $\boldsymbol{T}$, the following results are obvious. These are limited up to four terms.

$$F(1) + F(2) = F(3)$$
$$F(2) + F(3) = F(4)$$
$$F(3) + F(4) = F(5)$$
$$F(4) + F(5) = F(6)$$
$$F(5) + F(6) = F(7)$$
$$F(6) + F(7) = F(8)$$

$$F(1) + F(3) + F(5) = F(6)$$
$$F(3) \times F(6) + F(5) = F(8)$$
$$F(5) + F(6) + F(8) = F(9)$$

$$T(3) + T(5) = T(6)$$

$$T(5) + T(6) = T(8)$$

$$T(1) + T(2) + T(3) = T(4)$$
$$T(2) \times T(3) + T(4) = T(7)$$
$$T(2) \times T(4) + T(3) = T(8)$$

$$(-T(1) + T(3)) \times T(2) = T(5)$$

$$T(1) + T(5) = T(3) + T(4)$$
$$T(5) + T(9) = T(3) \times T(4)$$

2.3 Selfie Numbers with Fibonacci and Triangular Values Together

In [17] author studied numbers represented by **Fibonacci sequence** values and **Triangular numbers** together. See below examples in digit's order and reverse order of digits:

$$\mathbf{1446} := (-1 + F(4)) \times (F(4) + 6!) \quad = (1 + 4! \times T(4)) \times 6$$

$$
\begin{aligned}
\mathbf{1448} &:= -1 + F(4!)/(4 \times 8) && = -1 + T(T(T(4))) - T(T(4)) - T(8)\\
\mathbf{1456} &:= F(1 + F(4)!) \times (5! - F(6)) && = (1 + T(T(4))) \times (5 + T(6))\\
\mathbf{7874} &:= (F(F(7)) + F(8)) \times (7 + 4!) && = 7! - T(T(8)) + 7! - T(T(T(4)))\\
\mathbf{7920} &:= F(F(7)) \times F(9) - 2 + 0 && = -7! + (9!/T(T(T(2)) + 0!))\\
\mathbf{7942} &:= (T(T(7)) - T(9)) \times (4! - 2) && = F(F(7)) \times F(9) + F(F(F(4)!)) - F(2)\\
\mathbf{8085} &:= F(8) + 08!/5 && = (T(8) - 0!) \times T(T(8) - T(5))\\
\mathbf{8317} &:= 8!/3! + F(17) && = T(8) \times T(T(T(3))) + 1^7\\
\mathbf{8856} &:= (F(8 + 8) + 5!) \times F(6) && = T(8) \times (T(8) + 5) \times 6\\
\mathbf{8972} &:= F(F(8)) - F(9 + 7) \times 2 && = 8 \times T(T(9)) - T(7) + (T(T(2)))!\\
\mathbf{9243} &:= -9 \times 2 + F(F(F(4)!))^3 && = 9 \times (2^{T(4)} + 3)\\
\mathbf{9244} &:= F(9)^2 \times F(F(4)!) - 4 && = (9 - T(2)) \times T(T(T(4))) + 4\\
\mathbf{0169} &:= F(9) \times (6 - 1) - 0! && = (T(T(9)) - T(6))/T(T(1 + 0!))\\
\mathbf{0176} &:= F(6) \times (F(7 + 1) + 0!) && = -T(T(6)) + T(T(7)) \times 1 + 0!\\
\mathbf{0234} &:= F(4 + 3^2) + 0! && = 4 \times T(3) + T(20)\\
\mathbf{0244} &:= F(4)^{F(4)+2} + 0! && = 4! + T(4) + T(20)\\
\mathbf{3024} &:= (F(4)^2)!/(-0! + 3!)! && = 4! \times T(T(2)) \times T(T(03))\\
\mathbf{3045} &:= (5! + 4! + 0!) \times F(F(3!)) && = T(5 + 4!) \times (0! + T(3))\\
\mathbf{3165} &:= -5 \times 6! + F(-1 + F(F(3!))) && = T(5) \times T(T(6)) - T((1 + 3)!)\\
\mathbf{3276} &:= F(F(6)) \times (F(7) \times 2) \times 3! && = T(6 + 7) \times T(2^3)\\
\mathbf{3297} &:= -7 + F(9 \times 2) + 3!! && = (T(7 + 9) + T(T(T(2)))) \times T(T(3))\\
\mathbf{3303} &:= 3!! - 0! + F(3 \times 3!) && = T((3 + 0!)!) + T(T(T(T(3)))/3)\\
\mathbf{3304} &:= F(4! - 03!) + 3!! && = T(4!) + 0! + T(T(T(T(3)))/3)\\
\mathbf{3325} &:= 5 \times (-F(2 + F(3!)) + 3!!) && = 5 \times (-T(T(-2 + T(3))) + T(3)!)
\end{aligned}
$$

In this work our aim is to extend the results similar to **selfie expressions** given in section 1.3. This we have done by replacing right side expressions of power either with Fibonacci sequence values, or with Triangular numbers or with both. The results are limited up to 5 terms expressions, using only the values of $F(1), ..., F(9)$ and/or $T(1), ..., T(9)$ with same digit order as of section 1.3

3 Factorial-Fibonacci-Triangular Selfie Expressions

In this section, we shall give equality expressions with factorial, Fibonacci sequence values and triangular numbers in the same expression, where the main digits follows the same order. We have very few results. See below examples,

3.1 Two-Terms Expressions

$$\mathbf{2} := 1! \times 2! = F(1) + F(2) = -T(1) + T(2)$$

Selfie Expressions With Factorial, Fibonacci and Triangular Values,
Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

3.2 Three-Terms Expressions

$$\mathbf{3} := -1! - 2! + 3! = F(1) \times F(2) + F(3) = -T(1) \times T(2) + T(3)$$
$$\mathbf{4} := -1! \times 2! + 3! = F(1) + F(2) + F(3) = T(1) - T(2) + T(3)$$

3.3 Four-Terms Expressions

$$\begin{aligned}
\mathbf{0} &:= (1! - 3!) \times 4! + 5! && = F(1) \times F(3) + F(4) - F(5) && = T(1) - T(3) - T(4) + T(5)\\
&:= 4! \times (1! - 3!) + 5! && = F(4) \times F(1) + F(3) - F(5) && = T(4) - T(1) + T(3) - T(5)\\
\\
\mathbf{1} &:= 1! + 3! \times 5! - 6! && = -F(1) \times F(3) - F(5) + F(6) && = T(1) + T(3) + T(5) - T(6)\\
&:= -6! + 3! \times 5! + 1! && = F(6) - F(3) - F(5) \times F(1) && = -T(6) + T(3) + T(5) + T(1)\\
\\
\mathbf{6} &:= -(1! + 2!) \times 3! + 4! && = F(1) \times F(2) + F(3) + F(4) && = -T(1) + T(2) - T(3) + T(4)\\
\\
\mathbf{12} &:= -1! \times 2! \times 3! + 4! && = (F(1) + F(2) + F(3)) \times F(4) && = -T(1) - T(2) + T(3) + T(4)\\
&:= 3! \times (-2! + 4!) - 5! && = -F(3) - F(2) + F(4) \times F(5) && = T(3) \times (-T(2) - T(4) + T(5))\\
&:= 3! \times (2! + 5!) - 6! && = -F(3) + F(2) + F(5) + F(6) && = T(3) \times T(2) + T(5) - T(6)\\
\\
\mathbf{18} &:= 3! \times (-1! + 4!) - 5! && = F(3) + F(1) + F(4) \times F(5) && = -T(3) - T(1) + T(4) + T(5)\\
\mathbf{22} &:= -2! + 4! \times 3! - 5! && = F(2) + F(4) \times (F(3) + F(5)) && = T(2) + T(4) - T(3) + T(5)\\
\\
\mathbf{24} &:= 3! \times 5! + 4! - 6! && = F(3) \times (F(5) + F(4)) + F(6) && = T(3) \times (T(5) + T(4) - T(6))\\
&:= -1! \times 5! + 4! \times 3! && = (-F(1) + F(5)) \times F(4) \times F(3) && = (-T(1) + T(5) - T(4)) \times T(3)\\
\\
\mathbf{25} &:= 1! + 3! \times 4! - 5! && = (F(1) \times F(3) + F(4)) \times F(5) && = (T(1) - T(3)) \times (T(4) - T(5))\\
\mathbf{30} &:= (1! + 4!) \times 3! - 5! && = (F(1) + F(4) + F(3)) \times F(5) && = -T(1) + T(4) + T(3) + T(5)\\
\mathbf{120} &:= 5! \times (1! + 3!) - 6! && = F(5) \times (F(1) + F(3)) \times F(6) && = T(5) - (T(1) - T(3)) \times T(6)
\end{aligned}$$

3.4 Five-Terms Expressions

$$\begin{aligned}
\mathbf{0} &:= (-1! + 2! - 3!) \times 4! + 5! && = (F(1) + F(2)) \times (F(3) + F(4) - F(5)) && = (T(1) + T(2) + T(3) - T(4)) \times T(5)\\
&:= (1! - 2!) \times 3! \times 5! + 6! && = F(1) + F(2) - F(3) \times F(5) + F(6) && = (T(1) + T(2)) \times (T(3) + T(5) - T(6))\\
&:= ((1! - 3!) \times 4! + 5!) \times 6! && = (F(1) + F(3)) \times (F(4) + F(5) - F(6)) && = (T(1) - T(3) - T(4) + T(5)) \times T(6)\\
&:= ((1! - 3!) \times 4! + 5!) \times 7! && = F(1) \times F(3) - F(4) \times F(5) + F(7) && = (T(1) - T(3) - T(4) + T(5)) \times T(7)\\
&:= ((1! - 3!) \times 4! + 5!) \times 8! && = (F(1) \times F(3) + F(4) - F(5)) \times F(8) && = (T(1) - T(3) - T(4) + T(5)) \times T(8)\\
&:= ((1! - 3!) \times 4! + 5!) \times 9! && = (F(1) \times F(3) + F(4) - F(5)) \times F(9) && = (T(1) + T(3) - T(4)) \times T(5) + T(9)\\
&:= -2! \times 4! \times 5! + 7! + 6! && = (F(2) + F(4)) \times (F(5) - F(7) + F(6)) && = (T(2) + T(4) + T(5) - T(7)) \times T(6)\\
&:= (-2! \times 4! + 3!) \times 5! + 7! && = (F(2) + F(4)) \times F(3) + F(5) - F(7) && = T(2) - T(4) - T(3) - T(5) + T(7)\\
&:= (-2! + 1! - 3!) \times 6! + 7! && = (F(2) + F(1) - F(3)) \times F(6) \times F(7) && = T(2) \times (T(1) + T(3) + T(6) - T(7))\\
&:= (-5! + 2! \times 4!) \times 7! + 9! && = F(5) \times F(2) - F(4) \times F(7) + F(9) && = (T(5) + T(2) + T(4) - T(7)) \times T(9)\\
&:= -7! \times 5! + 3! \times 8! + 9! && = F(7) - F(5) - F(3) \times F(8) + F(9) && = T(7) \times (T(5) - T(3) + T(8) - T(9))
\end{aligned}$$

Selfie Expressions With Factorial, Fibonacci and Triangular Values,
Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

$:= 4! \times 5! + (2! - 3!) \times 6!$ $= (F(4) + F(5)) \times (F(2) - F(3)) + F(6)$ $= (T(4) - T(5)) \times T(2) - T(3) + T(6)$
$:= 8! \times (3! - 4!) + 2! \times 9!$ $= F(8) \times (F(3) - F(4) + F(2)) \times F(9)$ $= (-T(8) + T(3) + T(4) \times T(2)) \times T(9)$

1 $:= -1! + 2! - 3! \times 5! + 6!$ $= F(1) + F(2) + F(3) + F(5) - F(6)$ $= T(1) + T(2) \times (T(3) + T(5) - T(6))$
$:= 1! + (2! + 3!) \times 7! - 8!$ $= (F(1) + F(2)) \times (-F(3) + F(7)) - F(8)$ $= T(1) \times T(2) + T(3) + T(7) - T(8)$
$:= 1! + 3! \times (5! + 6!) - 7!$ $= -F(1) + F(3) - F(5) - F(6) + F(7)$ $= -T(1) - T(3) + T(5) + T(6) - T(7)$

2 $:= (1! + 3!) \times 6! + 2! - 7!$ $= -(F(1) + F(3) + F(6)) \times F(2) + F(7)$ $= T(1) \times T(3) + T(6) + T(2) - T(7)$
$:= (1! - 3!) \times 4! + 2! + 5!$ $= F(1) + F(3) + F(4) + F(2) - F(5)$ $= -T(1) \times T(3) - T(4) + T(2) + T(5)$
$:= 1! \times 2! + 3! \times 5! - 6!$ $= (F(1) + F(2)) \times (-F(3) - F(5) + F(6))$ $= -T(1) + T(2) - T(3) - T(5) + T(6)$
$:= 2! + (5! + 6!) \times 3! - 7!$ $= F(2) \times F(5) + F(6) + F(3) - F(7)$ $= T(2) \times T(5) - T(6) + T(3) - T(7)$

3 $:= 1! + 2! + 3! \times 5! - 6!$ $= F(1) + F(2) - F(3) - F(5) + F(6)$ $= T(1) \times T(2) + T(3) + T(5) - T(6)$
4 $:= (1! + 5!) \times 3! - 2! - 6!$ $= (F(1) + F(5)) \times F(3) \times F(2) - F(6)$ $= T(1) + T(5) + T(3) + T(2) - T(6)$

6 $:= (-1! + 4! - 2!) \times 3! - 5!$ $= -(F(1) + F(4)) \times F(2) + F(3) \times F(5)$ $= -T(1) + T(4) - T(2) \times T(3) + T(5)$
$:= (-1! + 2! - 5!) \times 3! + 6!$ $= (F(1) + F(2) + F(5)) \times F(3) - F(6)$ $= T(1) \times T(2) \times (T(5) - T(3)) - T(6)$

8 $:= (1! + 5!) \times 3! + 2! - 6!$ $= -F(1) - F(5) + F(3) \times (-F(2) + F(6))$ $= -T(1) - T(5) + T(3) - T(2) + T(6)$
10 $:= (1! - 3!) \times (4! - 2!) + 5!$ $= F(1) + F(3) + F(4) - F(2) + F(5)$ $= (T(1) - T(3)) \times (T(4) + T(2) - T(5))$

11 $:= -1! + (-2! + 4!) \times 3! - 5!$ $= -F(1) - F(2) + F(4) + F(3) \times F(5)$ $= (-T(1) + T(2)) \times T(4) + T(3) - T(5)$
$:= -1! + 3! \times (2! + 5!) - 6!$ $= -F(1) - F(3) + F(2) + F(5) + F(6)$ $= -T(1) - T(3) + T(2) \times (-T(5) + T(6))$

12 $:= (1! \times 4! - 2!) \times 3! - 5!$ $= F(1) + F(4) + F(2) + F(3) + F(5)$ $= (T(1) + T(4)) \times T(2) - T(3) - T(5)$
$:= -(2! + 5!) \times 3! + 4! + 6!$ $= -(F(2) + F(5)) \times F(3) + F(4) \times F(6)$ $= T(2) \times (T(5) + T(3) - T(4)) - T(6)$
$:= (2! + 5! + 6!) \times 3! - 7!$ $= -F(2) - F(5) - F(6) + F(3) \times F(7)$ $= (T(2) - T(5)) \times (T(6) + T(3) - T(7))$
$:= 1! \times 3! \times (5! + 2!) - 6!$ $= (F(1) + F(3)) \times (-F(5) + F(2) + F(6))$ $= (-T(1) + T(3)) \times T(5) - T(2) \times T(6)$

13 $:= 1! - (2! - 4!) \times 3! - 5!$ $= (F(1) + F(2)) \times F(4) + F(3) + F(5)$ $= -T(1) + T(2) - T(4) + T(3) + T(5)$
$:= 1! + 3! \times (2! + 5!) - 6!$ $= (F(1) \times F(3) - F(2)) \times F(5) + F(6)$ $= T(1) - T(3) - T(2) \times (T(5) - T(6))$

14 $:= (1! + 3!) \times (2! + 6!) - 7!$ $= (F(1) + F(3)) \times (F(2) + F(6)) - F(7)$ $= (T(1) + T(3)) \times T(2) + T(6) - T(7)$
16 $:= (-1! + 4!) \times 3! - 2! - 5!$ $= (F(1) + F(4)) \times (-F(3) + F(2) + F(5))$ $= T(1) \times T(4) - T(3) - T(2) + T(5)$

18 $:= (1! + 2! + 5!) \times 3! - 6!$ $= (F(1) + F(2) - F(5)) \times (F(3) - F(6))$ $= T(1) \times T(2) \times T(5) - T(3) - T(6)$
$:= (1! + 4! - 2!) \times 3! - 5!$ $= F(1) \times F(4) + (F(2) + F(3)) \times F(5)$ $= (T(1) + T(4)) \times (-T(2) + T(3)) - T(5)$
$:= -3! \times (1! + 5!) + 4! + 6!$ $= (F(3) + F(1)) \times (-F(5) + F(4) + F(6))$ $= T(3) \times (-T(1) + T(5) + T(4) - T(6))$

20 $:= (1! + 4!) \times (2! - 3!) + 5!$ $= (F(1) + F(4)) \times (-F(2) + F(3)) \times F(5)$ $= -T(1) + T(4) \times T(2) + T(3) - T(5)$
21 $:= -1! - 2! + 3! \times 4! - 5!$ $= F(1) - (F(2) - F(3) - F(4)) \times F(5)$ $= -T(1) + T(2) - T(3) + T(4) + T(5)$

22 $:= -1! \times 2! + 3! \times 4! - 5!$ $= (F(1) + F(2)) \times (F(3) \times F(4) + F(5))$ $= T(1) \times T(2) - T(3) + T(4) + T(5)$
$:= -2! - 3! \times 5! + 4! + 6!$ $= F(2) + F(3) - F(5) + F(4) \times F(6)$ $= T(2) \times T(3) + T(5) + T(4) - T(6)$

23 $:= -1! - 3! \times 5! + 4! + 6!$ $= -F(1) \times F(3) + F(5) \times (-F(4) + F(6))$ $= T(1) + T(3) - T(5) + T(4) + T(6)$
$:= 1! - 2! + 3! \times 4! - 5!$ $= -F(1) - F(2) + (F(3) + F(4)) \times F(5)$ $= T(1) + T(2) - T(3) + T(4) + T(5)$

24	$:= 1! \times 3! \times 5! + 4! - 6!$	$= F(1) \times F(3) \times (F(5) + F(4)) + F(6)$	$= T(1) \times T(3) \times (T(5) + T(4) - T(6))$
	$:= (-1! \times 3! + 2!) \times 4! + 5!$	$= (F(1) + F(3)) \times F(2) \times (F(4) + F(5))$	$= T(1) + T(3) \times T(2) - T(4) + T(5)$
	$:= (1! + 3!) \times 6! + 4! - 7!$	$= (F(1) + F(3)) \times (-F(6) + F(4) + F(7))$	$= T(1) + T(3) - T(6) + T(4) + T(7)$
	$:= (2! + 3!) \times 7! + 4! - 8!$	$= -(F(2) + F(3)) \times F(7) + F(4) \times F(8)$	$= T(2) \times (T(3) + T(7) + T(4) - T(8))$
	$:= 3! \times (5! + 6!) + 4! - 7!$	$= -F(3) - F(5) - F(6) + F(4) \times F(7)$	$= T(3) + T(5) + T(6) + T(4) - T(7)$
25	$:= 1! + 3! \times 5! + 4! - 6!$	$= F(1) \times F(3) + F(5) \times F(4) + F(6)$	$= T(1) + T(3) \times (T(5) + T(4) - T(6))$
	$:= -1! + 2! + 3! \times 4! - 5!$	$= (F(1) \times F(2) \times F(3) + F(4)) \times F(5)$	$= (T(1) - T(2) + T(3)) \times T(4) - T(5)$
26	$:= 1! \times 2! + 3! \times 4! - 5!$	$= (F(1) + F(2)) \times (-F(3) + F(4) \times F(5))$	$= -T(1) - T(2) + T(3) \times (-T(4) + T(5))$
	$:= 4! + 2! + 3! \times 5! - 6!$	$= (F(4) + F(2) - F(3)) \times (F(5) + F(6))$	$= -T(4) + T(2) \times (T(3) - T(5) + T(6))$
27	$:= 1! + 2! + 3! \times 4! - 5!$	$= F(1) + F(2) + (F(3) + F(4)) \times F(5)$	$= -T(1) - T(2) + T(3) + T(4) + T(5)$
28	$:= (1! + 4!) \times 3! - 2! - 5!$	$= (F(1) + F(4)) \times (F(3) \times F(2) + F(5))$	$= -T(1) - T(4) - T(3) + T(2) \times T(5)$
30	$:= -(1! + 2!) \times (3! + 4!) + 5!$	$= (F(1) \times F(2) + F(3) + F(4)) \times F(5)$	$= (T(1) - T(2) - T(3) + T(4)) \times T(5)$
	$:= 3! \times (1! + 5!) + 4! - 6!$	$= (F(3) + F(1)) \times (F(5) - F(4) + F(6))$	$= T(3) \times (T(1) + T(5) + T(4) - T(6))$
32	$:= (1! + 4!) \times 3! + 2! - 5!$	$= (F(1) + F(4)) \times F(3) \times (-F(2) + F(5))$	$= -T(1) + (T(4) + T(3)) \times T(2) - T(5)$
34	$:= (1! + 3!) \times (4! - 2!) - 5!$	$= -F(1) + (F(3) \times F(4) + F(2)) \times F(5)$	$= (T(1) + T(3)) \times (T(4) - T(2)) - T(5)$
35	$:= -1! + (2! + 4!) \times 3! - 5!$	$= (F(1) + F(2) + F(4) + F(3)) \times F(5)$	$= T(1) + T(2) + T(4) + T(3) + T(5)$
36	$:= (1! \times 4! + 2!) \times 3! - 5!$	$= (F(1) + F(4)) \times (-F(2) + F(3) \times F(5))$	$= -(T(1) - T(4)) \times T(2) - T(3) + T(5)$
	$:= (2! + 5!) \times 3! + 4! - 6!$	$= (F(2) + F(5)) \times F(3) + F(4) \times F(6)$	$= -T(2) \times T(5) + T(3) \times T(4) + T(6)$
42	$:= (1! + 2! + 4!) \times 3! - 5!$	$= (F(1) + F(2)) \times F(4) \times (F(3) + F(5))$	$= -T(1) \times T(2) + T(4) \times T(3) - T(5)$
46	$:= -2! + (1! + 3!) \times 4! - 5!$	$= F(2) + (F(1) + F(3)) \times F(4) \times F(5)$	$= T(2) \times (T(1) + T(3)) + T(4) + T(5)$
48	$:= (1! - 3! + 2!) \times 4! + 5!$	$= (F(1) + F(3)) \times (F(2) + F(4) \times F(5))$	$= T(1) \times T(3) \times (T(2) - T(4) + T(5))$
	$:= 2! \times 4! + 3! \times 5! - 6!$	$= (F(2) + F(4)) \times F(3) \times F(5) + F(6)$	$= (-T(2) + T(4)) \times T(3) - T(5) + T(6)$
	$:= (3! + 1!) \times (4! - 5!) + 6!$	$= (F(3) + F(1)) \times (F(4) + F(5) + F(6))$	$= T(3) \times (-T(1) + T(4)) + T(5) - T(6)$
50	$:= (1! + 3!) \times 4! + 2! - 5!$	$= ((F(1) + F(3)) \times F(4) + F(2)) \times F(5)$	$= T(1) - T(3) + T(4) + T(2) \times T(5)$
60	$:= -1! \times 2! \times (3! + 4!) + 5!$	$= (F(1) + F(2) + F(3)) \times F(4) \times F(5)$	$= (T(1) - T(2)) \times T(3) \times (T(4) - T(5))$
96	$:= (1! + 3!) \times 5! - 4! - 6!$	$= ((F(1) + F(3)) \times F(5) - F(4)) \times F(6)$	$= T(1) \times T(3) \times (-T(5) + T(4) + T(6))$
120	$:= (-1! + 2! - 3!) \times 5! + 6!$	$= (F(1) \times F(2) + F(3)) \times F(5) \times F(6)$	$= (T(1) + T(2)) \times (-T(3) + T(5) + T(6))$
	$:= (2! + 3!) \times 7! + 5! - 8!$	$= F(2) \times F(3) + F(7) + F(5) \times F(8)$	$= T(2) + T(3) \times T(7) - T(5) - T(8)$
132	$:= -3! \times (2! + 5! - 4!) + 6!$	$= F(3) \times (F(2) + F(5)) \times (F(4) + F(6))$	$= (T(3) - T(2) - T(5)) \times (T(4) - T(6))$
144	$:= 1! \times 3! \times (4! + 5!) - 6!$	$= (F(1) + F(3) + F(4) \times F(5)) \times F(6)$	$= (-T(1) \times T(3) + T(4)) \times (T(5) + T(6))$
	$:= (2! - 3!) \times (4! + 5!) + 6!$	$= (F(2) + F(3) + F(4) \times F(5)) \times F(6)$	$= (T(2) + T(3)) \times (T(4) - T(5) + T(6))$
	$:= 3! \times (4! + 6! + 5!) - 7!$	$= (-F(3) + F(4)) \times F(6) \times (F(5) + F(7))$	$= T(3) \times (-T(4) + T(6) - T(5) + T(7))$
150	$:= (1! + 4! + 5!) \times 3! - 6!$	$= F(1) \times F(4) \times F(5) \times (F(3) + F(6))$	$= (T(1) + T(4)) \times T(5) + T(3) - T(6)$
168	$:= (1! + 3!) \times (4! + 6!) - 7!$	$= -F(1) + (F(3) + F(4) + F(6)) \times F(7)$	$= (T(1) - T(3) - T(4) + T(6)) \times T(7)$

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$$
\begin{aligned}
\mathbf{192} &:= -2! \times (4! \times 3! + 5!) + 6! && = (-F(2) + (F(4) + F(3)) \times F(5)) \times F(6) && = T(2) + T(4) \times (T(3) + T(5)) - T(6)\\
\mathbf{216} &:= (2! + 3!) \times 5! - 4! - 6! && = (-F(2) + F(3) \times F(5)) \times F(4) \times F(6) && = -T(2) - T(3) + T(5) + T(4) \times T(6)\\
\mathbf{240} &:= (5! - 4!) \times (1! - 3!) + 6! && = F(5) \times F(4) \times F(1) \times F(3) \times F(6) && = T(5) \times (-T(4) - T(1) + T(3) + T(6))\\
\mathbf{264} &:= (2! + 3!) \times 5! + 4! - 6! && = (F(2) + F(3) \times F(5)) \times F(4) \times F(6) && = (T(2) + T(3) + T(5)) \times (-T(4) + T(6))\\
\mathbf{288} &:= 2! \times ((5! + 4!) \times 3! - 6!) && = (F(2) + F(5)) \times F(4) \times F(3) \times F(6) && = T(2) + T(5) + T(4) \times (T(3) + T(6))\\
\mathbf{480} &:= -2! \times 5! - 6! \times 3! + 7! && = (-F(2) + F(5)) \times F(6) \times (F(3) + F(7)) && = T(2) + T(5) - T(6) \times (T(3) - T(7))\\
\mathbf{576} &:= -3! \times (4! + 6!) \times 1! + 7! && = F(3) \times F(4) \times F(6) \times (-F(1) + F(7)) && = T(3) + T(4) + (T(6) - T(1)) \times T(7)\\
\\
\mathbf{600} &:= -5! - 3! \times 6! \times 1! + 7! && = F(5) \times (F(3) + F(6)) \times (-F(1) + F(7)) && = -T(5) + T(3) + T(6) \times (T(1) + T(7))\\
&:= -5! + 6! \times (2! + 3!) - 7! && = F(5) \times F(6) \times F(2) \times (F(3) + F(7)) && = T(5) \times (T(6) - T(2) - T(3) + T(7))\\
\\
\mathbf{624} &:= -3! \times 6! + 4! - 5! + 7! && = (-F(3) + F(6)) \times (F(4) + F(5)) \times F(7) && = -T(3) + T(6) \times T(4) + T(5) \times T(7)\\
\mathbf{720} &:= -5! \times 4! + 7! - 2! \times 6! && = F(5) \times (F(4) + F(7)) \times (F(2) + F(6)) && = -T(5) + (T(4) + T(7) - T(2)) \times T(6)\\
\mathbf{864} &:= 4! + 5! + 7! - 3! \times 6! && = F(4) \times (F(5) + F(7)) \times F(3) \times F(6) && = T(4) \times T(5) + (T(7) + T(3)) \times T(6)\\
\mathbf{960} &:= -3! \times 6! + 5! \times 2! + 7! && = F(3) \times F(6) \times F(5) \times (-F(2) + F(7)) && = -T(3) + T(6) \times (T(5) + T(2) + T(7))\\
\\
\mathbf{1560} &:= -(3! - 1!) \times 6! + 5! + 7! && = (F(3) + F(1)) \times F(6) \times F(5) \times F(7) && = T(3) \times (T(1) - T(6)) \times (T(5) - T(7))
\end{aligned}
$$

Remark 3.1. *There are only three values, when **factorial**, **power** and **triangular numbers** are equal with same digit's order.*

$$
\begin{aligned}
\mathbf{1} &:= 1! = 1^1 && = T(1)\\
\mathbf{3} &:= 1! + 2! = -1^1 + 2^2 && = T(1) \times T(2)\\
\mathbf{2760} &:= (-1! + 5! + 2! - 3!) \times 4! = -1^1 + 5^5 - 2^2 \times 3^3 - 4^4 && = (T(1) + T(5) \times T(2)) \times T(3) \times T(4)
\end{aligned}
$$

4 Selfie Expressions with Selected Operations

4.1 Positive Sign

Below are few examples of **factorial-triangular selfie expressions** only with positive sign.

$$\mathbf{6} := 3! = T(3)$$

$$\mathbf{7} := 1! + 3! = T(1) + T(3)$$

$$
\begin{aligned}
\mathbf{9} &:= 1! + 2! + 3! && = T(1) \times T(2) + T(3)\\
\mathbf{18} &:= (1! + 2!) \times 3! && = T(1) \times T(2) \times T(3)\\
\mathbf{36} &:= 3! \times 2! + 4! && = T(3) + T(2) \times T(4)\\
\mathbf{150} &:= 3! + 4! + 5! && = T(3) \times (T(4) + T(5))
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{37} &:= 1! + 3! \times 2! + 4! && = T(1) + T(3) + T(2) \times T(4)\\
\mathbf{78} &:= (1! + 2!) \times 4! + 3! && = (T(1) \times T(2) + T(4)) \times T(3)\\
\mathbf{90} &:= (1! + 2!) \times (3! + 4!) && = (T(1) \times T(2) + T(3)) \times T(4)\\
\mathbf{150} &:= 1! \times 3! + 4! + 5! && = T(1) \times T(3) \times (T(4) + T(5))\\
\mathbf{151} &:= 1! + 3! + 4! + 5! && = T(1) + T(3) \times (T(4) + T(5))
\end{aligned}
$$

$$\begin{aligned}
\mathbf{168} &:= 2! \times 1! \times 4! + 5! && = T(2) + (T(1) + T(4)) \times T(5)\\
\mathbf{300} &:= 2! \times (3! + 5! + 4!) && = T(2) \times (T(3) \times T(5) + T(4))\\
\mathbf{960} &:= 1! \times 6! + 2! \times 5! && = (T(1) + T(6) \times T(2)) \times T(5)\\
\mathbf{2160} &:= 2! \times 6! + 3! \times 5! && = (T(2) + T(6)) \times T(3) \times T(5)\\
\mathbf{1008} &:= (2! \times 3!) \times 4! + 6! && = T(2) \times (T(3) + T(4)) \times T(6)
\end{aligned}$$

$$\begin{aligned}
\mathbf{174} &:= 3! \times 1! + 2! \times 4! + 5! && = T(3) \times (T(1) + T(2)) + T(4) \times T(5)\\
\mathbf{198} &:= (2! + 1!) \times 4! + 3! + 5! && = T(2) \times (T(1) + T(4) \times T(3)) + T(5)\\
\mathbf{270} &:= 1! \times 3! + 4! + 2! \times 5! && = T(1) \times T(3) \times (T(4) \times T(2) + T(5))\\
\mathbf{271} &:= 1! + 3! + 4! + 2! \times 5! && = T(1) + T(3) \times (T(4) \times T(2) + T(5))\\
\mathbf{276} &:= 3! \times (4! + 2!) \times 1! + 5! && = T(3) \times (T(4) \times T(2) + T(1) + T(5))\\
\mathbf{294} &:= 2! \times (4! \times 1! + 5!) + 3! && = (T(2) + T(4) + T(1)) \times (T(5) + T(3))\\
\mathbf{295} &:= 1! + 3! + 2! \times (5! + 4!) && = (T(1) + T(3) \times T(2)) \times T(5) + T(4)\\
\mathbf{300} &:= 2! \times (3! \times 1! + 4! + 5!) && = (T(2) + T(3) + T(1) + T(4)) \times T(5)\\
\mathbf{301} &:= 1! + 2! \times (4! + 3!) + 5! && = T(1) + T(2) \times (T(4) + T(3) \times T(5))\\
\mathbf{385} &:= 1! + 3! \times 4! + 2! \times 5! && = (T(1) + T(3)) \times (T(4) + T(2) \times T(5))\\
\mathbf{390} &:= 4! + 3! + (2! + 1!) \times 5! && = T(4) \times (T(3) \times (T(2) + T(1)) + T(5))\\
\mathbf{420} &:= (1! + 4!) \times 2! \times 3! + 5! && = (T(1) \times T(4) + T(2) \times T(3)) \times T(5)\\
\mathbf{450} &:= (1! + 2!) \times (3! + 4! + 5!) && = T(1) \times T(2) \times T(3) \times (T(4) + T(5))\\
\mathbf{456} &:= (1! + 3!) \times 2! \times 4! + 5! && = T(1) \times T(3) + (T(2) \times T(4)) \times T(5)\\
\mathbf{540} &:= 2! \times ((4! + 1!) \times 3! + 5!) && = (T(2) \times T(4) \times T(1) + T(3)) \times T(5)\\
\mathbf{576} &:= 2! \times (4! \times (3! + 1!) + 5!) && = (T(2) \times T(4) + T(3)) \times (T(1) + T(5))\\
\mathbf{756} &:= 1! \times 3! \times 2! + 4! + 6! && = (T(1) \times T(3) + T(2) \times T(4)) \times T(6)\\
\mathbf{757} &:= 1! + 3! \times 2! + 4! + 6! && = T(1) + (T(3) + T(2) \times T(4)) \times T(6)\\
\mathbf{768} &:= 2! \times 4! + 3! \times 1! \times 5! && = T(2) \times (T(4) + T(3)) \times (T(1) + T(5))\\
\mathbf{810} &:= (1! + 2!) \times (4! + 3!) + 6! && = T(1) \times T(2) \times T(4) \times (T(3) + T(6))\\
\mathbf{966} &:= 3! + 5! \times 1! \times 2! + 6! && = T(3) + T(5) \times (T(1) + T(2) \times T(6))\\
\mathbf{972} &:= (3! \times 1! + 5!) \times 2! + 6! && = T(3) + (T(1) + T(5) \times T(2)) \times T(6)
\end{aligned}$$

$$\begin{aligned}
\mathbf{1008} &:= 6! + 4! \times 3! \times 2! \times 1! && = T(6) \times (T(4) + T(3)) \times T(2) \times T(1)\\
\mathbf{1009} &:= 6! + 4! \times 3! \times 2! + 1! && = T(6) \times (T(4) + T(3)) \times T(2) + T(1)\\
\mathbf{1590} &:= 4! + 5! + 3! + 2! \times 6! && = T(4) \times (T(5) + T(3) \times (T(2) + T(6)))\\
\mathbf{1710} &:= 2! \times (5! + 6!) + 3! + 4! && = (T(2) \times T(5) + T(6) \times T(3)) \times T(4)\\
\mathbf{1728} &:= 3! \times (4! \times 2! + 5!) + 6! && = (T(3) + T(4)) \times T(2) \times (T(5) + T(6))\\
\mathbf{1968} &:= 2! \times (5! + 6! + 4! \times 3!) && = (T(2) + T(5) \times T(6) + T(4)) \times T(3)\\
\mathbf{2160} &:= 1! \times 3! \times 5! \times 2! + 6! && = T(1) \times T(3) \times T(5) \times (T(2) + T(6))\\
\mathbf{2161} &:= 1! + 3! \times 5! + 2! \times 6! && = T(1) + T(3) \times T(5) \times (T(2) + T(6))\\
\mathbf{2166} &:= 3! \times (1! + 5!) + 2! \times 6! && = T(3) \times (T(1) + T(5) \times (T(2) + T(6)))\\
\mathbf{2286} &:= 3! + 6! \times (1! + 2!) + 5! && = (T(3) \times T(6) + T(1)) \times (T(2) + T(5))\\
\mathbf{2448} &:= 2! \times (5! + 4!) \times 3! + 6! && = (T(2) + T(5)) \times (T(4) + T(3) \times T(6))\\
\mathbf{3168} &:= 2! \times (3! \times (4! + 5!) + 6!) && = T(2) \times T(3) + (T(4) \times T(5)) \times T(6)
\end{aligned}$$

$$\begin{aligned}
\mathbf{3840} &:= 1! \times 5! \times (4! + 2!) + 6! &&= (T(1) + T(5)) \times T(4) \times (T(2) + T(6)) \\
\mathbf{3888} &:= (5! + 2! \times 3!) \times 4! + 6! &&= (T(5) + T(2)) \times (T(3) + T(4) \times T(6)) \\
\mathbf{3960} &:= 5! \times (1! + 4! + 2!) + 6! &&= T(5) \times (T(1) + T(4)) \times (T(2) + T(6)) \\
\mathbf{4320} &:= 1! \times 5! \times (4! + 3!) + 6! &&= (T(1) + T(5)) \times T(4) \times (T(3) + T(6)) \\
\mathbf{5040} &:= 5! \times (3! \times 2! + 4!) + 6! &&= (T(5) + T(3) + T(2)) \times T(4) \times T(6) \\
\mathbf{5100} &:= (3! + 4! \times 1!) \times 2! + 7! &&= T(3) \times T(4) \times (T(1) + T(2) \times T(7)) \\
\mathbf{5220} &:= (3! + 4!) \times 2! + 7! + 5! &&= T(3) \times (T(4) \times T(2) + T(7)) \times T(5) \\
\mathbf{5310} &:= 3! + 2! \times 5! + 4! + 7! &&= T(3) \times T(2) \times (T(5) + T(4) \times T(7)) \\
\mathbf{5760} &:= 3! \times ((5! \times 1!) \times 2! + 6!) &&= T(3) \times T(5) \times (T(1) + T(2) \times T(6)) \\
\mathbf{5905} &:= 5! + 4! + 1! + 6! + 7! &&= T(5) + T(4) \times (T(1) + T(6) \times T(7)) \\
\mathbf{5916} &:= 3! \times (4! + 2!) + 6! + 7! &&= T(3) + T(4) \times (T(2) + T(6) \times T(7)) \\
\mathbf{6048} &:= (5! + 4!) \times 2! + 6! + 7! &&= (T(5) \times (T(4) + T(2)) + T(6)) \times T(7) \\
\mathbf{6516} &:= (3! + 6!) \times 2! + 7! + 4! &&= T(3) + T(6) \times (T(2) + T(7)) \times T(4) \\
\mathbf{7560} &:= (1! + 2! + 3!) \times (5! + 6!) &&= (T(1) + T(2)) \times T(3) \times T(5) \times T(6)
\end{aligned}$$

$$\begin{aligned}
\mathbf{12240} &:= (7! + 3! \times 5!) \times 2! + 6! &&= (T(7) + T(3)) \times T(5) \times (T(2) + T(6)) \\
\mathbf{13104} &:= 7! \times 2! + (3! + 5!) \times 4! &&= T(7) \times T(2) \times (T(3) + T(5) \times T(4)) \\
\mathbf{25200} &:= (1! + 3!) \times 4! \times 5! + 7! &&= T(1) \times T(3) \times T(4) \times T(5) \times T(7) \\
\mathbf{30240} &:= 4! \times (5! + 6!) + 2! \times 7! &&= T(4) \times (T(5) + T(6)) \times T(2) \times T(7)
\end{aligned}$$

$$\mathbf{725760} := 8! \times 3! + 4! \times 7! + 9! = (T(8) \times (T(3) + T(4)) \times T(7)) \times T(9)$$

4.2 Multiplication with Fibonacci and Triangular Numbers

We have few examples when all the terms with Fibonacci or triangular numbers are with multiplication sign.

$$\begin{aligned}
\mathbf{1} &:= -1! + 2! = F(1) \times F(2) \\
\mathbf{1560} &:= (1! - 4!) \times 5! - 6! + 7! = F(1) \times F(4) \times F(5) \times F(6) \times F(7)
\end{aligned}$$

$$\begin{aligned}
\mathbf{6} &:= 1! \times 3! = T(1) \times T(3) \\
\mathbf{18} &:= (1! + 2!) \times 3! = T(1) \times T(2) \times T(3)
\end{aligned}$$

$$\mathbf{2700} := (1! + 4!) \times (5! - 2! \times 3!) = T(1) \times T(4) \times T(5) \times T(2) \times T(3)$$

$$\mathbf{25200} := (1! + 3!) \times 4! \times 5! + 7! = T(1) \times T(3) \times T(4) \times T(5) \times T(7)$$

$$\begin{aligned}
\mathbf{181440} &:= (3! - 2! + 4!) \times 7! + 8! &&= T(3) \times T(2) \times T(4) \times T(7) \times T(8) \\
\mathbf{453600} &:= (2! + 5! - 4!) \times 7! - 8! &&= T(2) \times T(5) \times T(4) \times T(7) \times T(8) \\
\mathbf{816480} &:= 3! \times (2! \times 8! - 7!) + 9! &&= T(3) \times T(2) \times T(8) \times T(7) \times T(9)
\end{aligned}$$

$$\begin{aligned}
\mathbf{1360800} &:= (4! - 2!) \times (7! + 8!) + 9! = T(4) \times T(2) \times T(7) \times T(8) \times T(9) \\
\mathbf{4082400} &:= (3! + 5!) \times (8! - 7!) - 9! = T(3) \times T(5) \times T(8) \times T(7) \times T(9)
\end{aligned}$$

Selfie Expressions With Factorial, Fibonacci and Triangular Values,
Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

5 Factorial-Fibonacci Selfie Expressions

In this case we have very few examples, as we considered factorial and Fibonacci values equality expressions following the same order of digits on both sides of the equalities. Numbers appearing in section 5 are not included here.

5.1 Two-Terms Expressions

$$\mathbf{1} := -1! + 2! = F(1) \times F(2)$$

5.2 Four-Terms Expressions

$$\begin{aligned}
\mathbf{2} &:= 2! + 3! \times 5! - 6! && = F(2) \times F(3) \times F(5) - F(6) \\
\mathbf{6} &:= (1! + 5!) \times 3! - 6! && = F(1) - F(5) + F(3) + F(6) \\
\mathbf{10} &:= -(1! + 3!) \times 2! + 4! && = F(1) + (F(3) + F(2)) \times F(4) \\
&:= 4! - 2! \times (1! + 3!) && = (F(4) + F(2) + F(1)) \times F(3) \\
\mathbf{24} &:= (-3! + 2!) \times 4! + 5! && = (F(3) + F(2)) \times (F(4) + F(5)) \\
\mathbf{26} &:= 2! + 3! \times 4! - 5! && = F(2) + (F(3) + F(4)) \times F(5) \\
\mathbf{36} &:= -5! + (2! + 4!) \times 3! && = (F(5) + F(2)) \times F(4) \times F(3)
\end{aligned}$$

5.3 Five-Terms Expressions

$$\begin{aligned}
\mathbf{36} &:= (1! \times 2! + 4!) \times 3! - 5! && = F(1) + (F(2) + F(4) \times F(3)) \times F(5) \\
&:= 4! + (2! + 5!) \times 3! - 6! && = (F(4) + F(2)) \times F(5) + F(3) \times F(6) \\
\\
\mathbf{37} &:= 1! + 3! \times (4! + 2!) - 5! && = F(1) + F(3) \times F(4) \times (F(2) + F(5)) \\
\mathbf{42} &:= (4! + 2! + 1!) \times 3! - 5! && = F(4) \times (F(2) + F(1)) \times (F(3) + F(5)) \\
\mathbf{46} &:= 2! \times (4! \times 3! - 1! - 5!) && = F(2) + F(4) \times (F(3) + F(1)) \times F(5) \\
\\
\mathbf{48} &:= (1! + 3!) \times (4! - 5!) + 6! && = (F(1) + F(3)) \times (F(4) + F(5) + F(6)) \\
&:= 4! \times 2! + 5! \times 3! - 6! && = (F(4) + F(2)) \times F(5) \times F(3) + F(6) \\
&:= 4! \times (2! + 1! - 3!) + 5! && = F(4) \times (F(2) + (F(1) + F(3)) \times F(5)) \\
\\
\mathbf{50} &:= 2! \times (3! \times 4! + 1! - 5!) && = ((F(2) + F(3)) \times F(4) + F(1)) \times F(5) \\
\mathbf{60} &:= -(3! + 4!) \times 2! \times 1! + 5! && = (F(3) \times F(4)) \times (F(2) + F(1)) \times F(5) \\
\mathbf{96} &:= -4! + 5! \times (1! + 3!) - 6! && = (F(4) \times F(5) + F(1)) \times (-F(3) + F(6)) \\
\\
\mathbf{120} &:= (1! + 3!) \times 6! + 5! - 7! && = (F(1) - F(3) \times F(6)) \times (F(5) - F(7)) \\
&:= (3! + 2! - 1!) \times 5! - 6! && = (F(3) + F(2)) \times F(1) \times F(5) \times F(6) \\
&:= 5! + 8! - (3! + 2!) \times 7! && = (F(5) \times F(8) + F(3)) \times F(2) + F(7) \\
&:= -7! \times (2! + 3!) + 8! + 5! && = F(7) \times F(2) + F(3) + F(8) \times F(5)
\end{aligned}$$

Selfie Expressions With Factorial, Fibonacci and Triangular Values,
Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

$$\mathbf{142} := 3! \times (4! + 5!) - 2! - 6! \quad = -F(3) + F(4) \times (F(5) + F(2)) \times F(6)$$

$$\begin{aligned}\mathbf{144} &:= (1! \times 4! + 5!) \times 3! - 6! && = (F(1) + F(4) + F(5)) \times F(3) \times F(6)\\ &:= (6! + 4! + 5!) \times 3! - 7! && = F(6) \times F(4) \times (-F(5) - F(3) + F(7))\\ &:= (4! + 5!) \times (2! - 3!) + 6! && = (F(4) + F(5) + F(2)) \times F(3) \times F(6)\end{aligned}$$

$$\begin{aligned}\mathbf{146} &:= 3! \times (4! + 5!) + 2! - 6! && = F(3) + F(4) \times (F(5) + F(2)) \times F(6)\\ \mathbf{192} &:= -2! \times (3! \times 4! + 5!) + 6! && = (F(2) + F(3)) \times (F(4) + F(5)) \times F(6)\\ \mathbf{216} &:= -4! + 5! \times (3! + 2!) - 6! && = F(4) \times (F(5) \times F(3) - F(2)) \times F(6)\end{aligned}$$

$$\begin{aligned}\mathbf{240} &:= (-1! + 3!) \times (4! - 5!) + 6! && = (F(1) + F(3) + F(4)) \times F(5) \times F(6)\\ &:= 7! + (3! + 2!) \times (5! - 6!) && = (F(7) \times F(3) - F(2) + F(5)) \times F(6)\end{aligned}$$

$$\begin{aligned}\mathbf{288} &:= (3! + 1!) \times (5! + 4!) - 6! && = F(3) \times (F(1) + F(5)) \times F(4) \times F(6)\\ &:= 4! \times ((5! + 2!) \times 3! - 6!) && = F(4) \times (F(5) + F(2)) \times F(3) \times F(6)\end{aligned}$$

$$\begin{aligned}\mathbf{576} &:= -3! \times (6! + 4!) \times 1! + 7! && = F(3) \times F(6) \times F(4) \times (-F(1) + F(7))\\ &:= -4! - 5! + 7! - 3! \times 6! && = -F(4) + F(5) \times (F(7) + F(3)) \times F(6)\\ &:= 7! \times 1! - (4! + 6!) \times 3! && = (F(7) - F(1)) \times F(4) \times F(6) \times F(3)\end{aligned}$$

$$\begin{aligned}\mathbf{598} &:= -2! - 5! - 6! \times 3! + 7! && = ((F(2) + F(5)) \times F(6) - F(3)) \times F(7)\\ \mathbf{599} &:= -1! - 5! + 7! - 3! \times 6! && = -F(1) + F(5) \times (F(7) + F(3)) \times F(6)\\ \mathbf{600} &:= -1! \times 5! + 7! - 3! \times 6! && = F(1) \times F(5) \times (F(7) + F(3)) \times F(6)\\ \mathbf{601} &:= 1! - 5! + 7! - 3! \times 6! && = F(1) + F(5) \times (F(7) + F(3)) \times F(6)\\ \mathbf{624} &:= -3! \times 6! - 5! + 4! + 7! && = (-F(3) + F(6)) \times (F(5) + F(4)) \times F(7)\\ \mathbf{672} &:= -3! \times 6! - 4! \times 2! + 7! && = F(3) \times F(6) \times F(4) \times (F(2) + F(7))\\ \mathbf{702} &:= (1! - 6!) \times 3! - 4! + 7! && = (F(1) + F(6)) \times F(3) \times F(4) \times F(7)\end{aligned}$$

$$\begin{aligned}\mathbf{720} &:= (2! \times 5! + 6!) \times 3! - 7! && = (F(2) + F(5)) \times F(6) \times (F(3) + F(7))\\ &:= -(3! + 4!) \times 5! + 7! - 6! && = (F(3) + F(4)) \times (F(5) + F(7)) \times F(6)\\ &:= -2! \times 6! - 5! \times 4! + 7! && = (F(2) + F(6)) \times F(5) \times (F(4) + F(7))\end{aligned}$$

$$\begin{aligned}\mathbf{744} &:= (4! - 6!) \times 3! + 7! - 5! && = F(4) \times F(6) \times (F(3) \times F(7) + F(5))\\ \mathbf{816} &:= -4! + 5! - 3! \times 6! + 7! && = (F(4) + F(5)) \times (-F(3) + F(6) \times F(7))\\ \mathbf{864} &:= -3! \times 6! + 4! + 5! + 7! && = F(3) \times F(6) \times F(4) \times (F(5) + F(7))\\ \mathbf{960} &:= 5! \times 2! + 7! - 3! \times 6! && = F(5) \times (-F(2) + F(7)) \times F(3) \times F(6)\end{aligned}$$

$$\begin{aligned}\mathbf{1440} &:= 4! \times 5! \times 2! - 7! + 6! && = F(4) \times F(5) \times (-F(2) + F(7)) \times F(6)\\ &:= 1! \times 7! - 4! \times 5! - 6! && = (-F(1) + F(7)) \times F(4) \times F(5) \times F(6)\end{aligned}$$

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Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

$$\begin{aligned}
\mathbf{1560} &:= (1! - 4!) \times 5! - 6! + 7! && = F(1) \times F(4) \times F(5) \times F(6) \times F(7) \\
&:= (7! - 6! \times 3!) \times 2! + 5! && = F(7) \times F(6) \times (F(3) + F(2)) \times F(5) \\
&:= 7! + (1! - 3!) \times 6! + 5! && = F(7) \times (F(1) + F(3)) \times F(6) \times F(5)
\end{aligned}$$

$$\begin{aligned}
\mathbf{1680} &:= -5! \times (4! - 2!) + 7! - 6! && = F(5) \times F(4) \times (F(2) + F(7)) \times F(6) \\
\mathbf{9240} &:= 8! - 5! - 6! - 7! \times 3! && = F(8) \times F(5) \times F(6) \times (F(7) - F(3))
\end{aligned}$$

6 Factorial-Triangular Selfie Expressions

In this case we have examples of factorial and triangular selfie expressions with positive and negative signs, where the digits follows the same order on both sides. The example given in section 4.1 are also written again to have a complete list.

6.1 Single-Term Expressions

$$\mathbf{6} := 3! = T(3)$$

6.2 Two-Terms Expressions

$$\begin{aligned}
\mathbf{5} &:= -1! + 3! && = -T(1) + T(3) \\
\mathbf{6} &:= 1! \times 3! && = T(1) \times T(3) \\
\mathbf{7} &:= 1! + 3! && = T(1) + T(3)
\end{aligned}$$

6.3 Three-Terms Expressions

$$\begin{aligned}
\mathbf{8} &:= 1! \times 2! + 3! && = -T(1) + T(2) + T(3) \\
\mathbf{9} &:= 1! + 2! + 3! && = T(1) \times T(2) + T(3) \\
\mathbf{10} &:= (-1! + 3!) \times 2! && = T(1) + T(3) + T(2)
\end{aligned}$$

$$\begin{aligned}
\mathbf{12} &:= 1! \times 2! \times 3! && = (-T(1) + T(2)) \times T(3) \\
&:= -2! \times 3! + 4! && = T(2) \times (-T(3) + T(4))
\end{aligned}$$

$$\begin{aligned}
\mathbf{17} &:= -1! - 3! + 4! && = T(1) + T(3) + T(4) \\
\mathbf{18} &:= (1! + 2!) \times 3! && = T(1) \times T(2) \times T(3) \\
\mathbf{27} &:= 1! + 4! + 2! && = (-T(1) + T(4)) \times T(2) \\
\mathbf{28} &:= -2! + 3! + 4! && = T(2) \times T(3) + T(4) \\
\mathbf{36} &:= 3! \times 2! + 4! && = T(3) + T(2) \times T(4) \\
\mathbf{42} &:= 2! \times 4! - 3! && = (-T(2) + T(4)) \times T(3) \\
\mathbf{90} &:= -3! + 5! - 4! && = (-T(3) + T(5)) \times T(4)
\end{aligned}$$

Selfie Expressions With Factorial, Fibonacci and Triangular Values,
Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

$$\mathbf{108} := -3! \times 2! + 5! \quad = T(3) \times (T(2) + T(5))$$
$$\mathbf{150} := 3! + 4! + 5! \quad = T(3) \times (T(4) + T(5))$$

6.4 Four-Terms Expressions

$$\mathbf{11} := -1! - 2! \times 3! + 4! \quad = -T(1) + T(2) \times (-T(3) + T(4))$$
$$\mathbf{13} := 1! - 2! \times 3! + 4! \quad = -T(1) \times T(2) + T(3) + T(4)$$
$$\mathbf{14} := (1! - 3!) \times 2! + 4! \quad = T(1) + T(3) - T(2) + T(4)$$
$$\mathbf{15} := -1! - 3! + 4! - 2! \quad = (T(1) - T(3) + T(4)) \times T(2)$$
$$\mathbf{16} := -1! \times 2! - 3! + 4! \quad = (T(1) + T(2)) \times (-T(3) + T(4))$$
$$\mathbf{18} := (1! - 2!) \times 3! + 4! \quad = -T(1) + T(2) + T(3) + T(4)$$
$$\mathbf{19} := -1! + 2! - 3! + 4! \quad = T(1) \times T(2) + T(3) + T(4)$$
$$\mathbf{20} := 1! \times 2! - 3! + 4! \quad = T(1) + T(2) + T(3) + T(4)$$
$$\mathbf{21} := 1! + 4! + 2! - 3! \quad = (-T(1) + T(4)) \times T(2) - T(3)$$
$$\mathbf{27} := -1! - 2! + 3! + 4! \quad = -T(1) + T(2) \times T(3) + T(4)$$
$$\mathbf{28} := -1! \times 2! + 3! + 4! \quad = T(1) \times T(2) \times T(3) + T(4)$$
$$\mathbf{29} := 1! - 2! + 3! + 4! \quad = T(1) + T(2) \times T(3) + T(4)$$
$$\mathbf{30} := (-1! + 2!) \times 3! + 4! \quad = (-T(1) \times T(2) + T(3)) \times T(4)$$
$$\mathbf{31} := -1! + 2! + 3! + 4! \quad = T(1) - (T(2) - T(3)) \times T(4)$$
$$\mathbf{32} := 1! \times 2! + 3! + 4! \quad = (-T(1) + T(2)) \times (T(3) + T(4))$$
$$\mathbf{33} := 1! + 4! + 2! + 3! \quad = (T(1) + T(4)) \times (-T(2) + T(3))$$
$$\mathbf{34} := 2! \times (-1! - 3! + 4!) \quad = (T(2) + T(1)) \times T(3) + T(4)$$
$$\mathbf{35} := -1! + 3! \times 2! + 4! \quad = -T(1) + T(3) + T(2) \times T(4)$$
$$\mathbf{36} := 1! \times 2! \times (4! - 3!) \quad = (-T(1) - T(2) + T(4)) \times T(3)$$
$$\mathbf{37} := 1! + 3! \times 2! + 4! \quad = T(1) + T(3) + T(2) \times T(4)$$
$$\mathbf{40} := -3! + 2! \times (-1! + 4!) \quad = (T(3) - T(2) + T(1)) \times T(4)$$
$$\mathbf{41} := -1! - 3! + 2! \times 4! \quad = -T(1) + T(3) \times (-T(2) + T(4))$$
$$\mathbf{42} := -1! \times 3! + 2! \times 4! \quad = T(1) \times T(3) \times (-T(2) + T(4))$$
$$\mathbf{43} := 1! + 2! \times 4! - 3! \quad = (T(1) - T(2) + T(4)) \times T(3)$$
$$\mathbf{48} := -(2! + 1!) \times 4! + 5! \quad = T(2) \times (T(1) + T(4)) + T(5)$$
$$\mathbf{48} := 2! \times (3! \times 4! - 5!) \quad = T(2) + T(3) \times T(4) - T(5)$$
$$\mathbf{53} := -1! + 3! + 4! \times 2! \quad = (-T(1) + T(3)) \times T(4) + T(2)$$
$$\mathbf{56} := 2! \times (1! + 4!) + 3! \quad = -T(2) - T(1) + T(4) \times T(3)$$
$$\mathbf{58} := (-1! + 3! + 4!) \times 2! \quad = T(1) + T(3) \times T(4) - T(2)$$
$$\mathbf{60} := -2! \times (4! + 3!) + 5! \quad = -T(2) \times T(4) + T(3) \times T(5)$$
$$\mathbf{62} := 2! \times (1! + 3! + 4!) \quad = T(2) - T(1) + T(3) \times T(4)$$
$$\mathbf{70} := -(4! + 1!) \times 2! + 5! \quad = T(4) + (T(1) + T(2)) \times T(5)$$
$$\mathbf{72} := -2! \times 1! \times 4! + 5! \quad = T(2) \times (-T(1) + T(4) + T(5))$$
$$\mathbf{78} := (1! + 2!) \times 4! + 3! \quad = (T(1) \times T(2) + T(4)) \times T(3)$$

$$\begin{aligned}
\mathbf{89} &:= -1! - 4! - 3! + 5! && = -T(1) + T(4) \times (-T(3) + T(5)) \\
\\
\mathbf{90} &:= (1! + 2!) \times (3! + 4!) && = (T(1) \times T(2) + T(3)) \times T(4) \\
&:= -1! \times 3! + 5! - 4! && = (-T(1) \times T(3) + T(5)) \times T(4) \\
\\
\mathbf{91} &:= 1! - 4! - 3! + 5! && = T(1) + T(4) \times (-T(3) + T(5)) \\
\mathbf{98} &:= 2! - 4! \times 1! + 5! && = (T(2) - T(4)) \times (T(1) - T(5)) \\
\\
\mathbf{100} &:= (3! - 2!) \times (1! + 4!) && = (T(3) + T(2) + T(1)) \times T(4) \\
\mathbf{101} &:= -1! - 4! + 3! + 5! && = T(1) + T(4) + T(3) \times T(5) \\
\mathbf{102} &:= -(2! + 1!) \times 3! + 5! && = -T(2) + (T(1) + T(3)) \times T(5) \\
\mathbf{107} &:= -1! - 3! \times 2! + 5! && = -T(1) + T(3) \times (T(2) + T(5)) \\
\mathbf{108} &:= 1! \times 5! - 2! \times 3! && = (T(1) \times T(5) + T(2)) \times T(3) \\
\mathbf{109} &:= 1! - 3! \times 2! + 5! && = T(1) + T(3) \times (T(2) + T(5)) \\
\mathbf{114} &:= (1! - 2!) \times (-5! + 3!) && = (T(1) + T(2) + T(5)) \times T(3) \\
\mathbf{120} &:= (1! - 2! + 3!) \times 4! && = (-T(1) + T(2) \times T(3) \times T(4)) \\
\mathbf{126} &:= -3! \times (1! - 2!) + 5! && = (T(3) + T(1)) \times (T(2) + T(5)) \\
\mathbf{132} &:= -2! \times 3! + 4! + 5! && = -T(2) \times T(3) + T(4) \times T(5) \\
\mathbf{134} &:= (1! + 3!) \times 2! + 5! && = -T(1) + (T(3) + T(2)) \times T(5) \\
\mathbf{143} &:= 1! + 5! + 4! - 2! && = (-T(1) + T(5)) \times T(4) + T(2) \\
\mathbf{144} &:= 3! \times (4! + 5!) - 6! && = (-T(3) + T(4)) \times (T(5) + T(6)) \\
\mathbf{146} &:= 1! \times 2! + 4! + 5! && = -T(1) - T(2) + T(4) \times T(5) \\
\mathbf{147} &:= 1! + 2! + 4! + 5! && = -T(1) \times T(2) + T(4) \times T(5) \\
\mathbf{149} &:= -1! + 3! + 4! + 5! && = -T(1) + T(3) \times (T(4) + T(5)) \\
\\
\mathbf{150} &:= 1! \times 3! + 4! + 5! && = T(1) \times T(3) \times (T(4) + T(5)) \\
&:= 3! \times (-1! + 2! + 4!) && = (T(3) - T(1)) \times T(2) \times T(4) \\
\\
\mathbf{151} &:= 1! + 3! + 4! + 5! && = T(1) + T(3) \times (T(4) + T(5)) \\
\mathbf{162} &:= (1! + 4! + 2!) \times 3! && = (-T(1) + T(4)) \times T(2) \times T(3) \\
\mathbf{168} &:= 2! \times 1! \times 4! + 5! && = T(2) + (T(1) + T(4)) \times T(5) \\
\mathbf{168} &:= 2! \times 3! \times 4! - 5! && = T(2) \times T(3) + T(4) \times T(5) \\
\\
\mathbf{170} &:= (4! + 1!) \times 2! + 5! && = T(4) \times (-T(1) + T(2) + T(5)) \\
&:= 2! + (3! + 1!) \times 4! && = (T(2) \times T(3) - T(1)) \times T(4) \\
\\
\mathbf{174} &:= 3! + 4! \times 2! + 5! && = -T(3) + T(4) \times (T(2) + T(5)) \\
\mathbf{180} &:= 2! \times (3! + 4!) + 5! && = T(2) \times (-T(3) + T(4)) \times T(5) \\
\mathbf{186} &:= 2! \times (5! - 4!) - 3! && = (T(2) + T(5)) \times T(4) + T(3) \\
\mathbf{190} &:= 2! \times (5! - 1! - 4!) && = (T(2) + T(5) + T(1)) \times T(4)
\end{aligned}$$

$$
\begin{aligned}
\mathbf{194} &:= (1! + 5! - 4!) \times 2! && = -T(1) + T(5) \times (T(4) + T(2)) \\
\mathbf{210} &:= 2! \times 5! - 4! - 3! && = (T(2) \times T(5) - T(4)) \times T(3) \\
\\
\mathbf{240} &:= (-1! + 3!) \times 4! + 5! && = (T(1) \times T(3) + T(4)) \times T(5) \\
&:= (3! - 1!) \times 2! \times 4! && = T(3) \times (T(1) + T(2)) \times T(4) \\
\\
\mathbf{252} &:= (1! \times 5! + 3!) \times 2! && = (-T(1) + T(5)) \times T(3) \times T(2) \\
\mathbf{270} &:= 2! \times 5! + 3! + 4! && = T(2) \times (T(5) - T(3)) \times T(4) \\
\mathbf{300} &:= 2! \times (3! + 5! + 4!) && = T(2) \times (T(3) \times T(5) + T(4)) \\
\\
\mathbf{360} &:= (-1! - 2! + 3!) \times 5! && = (T(1) + T(2)) \times T(3) \times T(5) \\
&:= 6! - (1! + 2!) \times 5! && = (T(6) \times T(1) + T(2)) \times T(5) \\
\\
\mathbf{432} &:= 3! \times (5! - 4! \times 2!) && = (-T(3) + T(5) \times T(4)) \times T(2) \\
\mathbf{456} &:= (3! - 2!) \times 5! - 4! && = T(3) + T(2) \times T(5) \times T(4) \\
\mathbf{468} &:= -(3! + 5!) \times 2! + 6! && = T(3) \times (T(5) + T(2) \times T(6)) \\
\mathbf{486} &:= -2! \times 5! + 3! + 6! && = (T(2) + T(5)) \times (T(3) + T(6)) \\
\mathbf{528} &:= 2! \times (4! - 5!) + 6! && = T(2) + (T(4) + T(5)) \times T(6) \\
\mathbf{588} &:= 3! \times (2! - 4!) + 6! && = (T(3) \times T(2) + T(4)) \times T(6) \\
\mathbf{600} &:= -5! - 6! \times 3! + 7! && = F(5) \times F(6) \times (F(3) + F(7)) \\
\mathbf{624} &:= (-3! + 2!) \times 4! + 6! && = -T(3) + (T(2) \times T(4)) \times T(6) \\
\mathbf{630} &:= 3! + 4! - 5! + 6! && = T(3) \times (-T(4) + T(5)) \times T(6) \\
\mathbf{693} &:= -1! - 4! - 2! + 6! && = (T(1) + T(4)) \times T(2) \times T(6) \\
\mathbf{714} &:= -(1! + 6!) \times 3! + 7! && = T(1) \times T(6) \times (T(3) + T(7)) \\
\mathbf{750} &:= 3! \times (1! + 5!) + 4! && = (T(3) - T(1)) \times T(5) \times T(4) \\
\mathbf{756} &:= 2! \times (4! - 3!) + 6! && = (T(2) \times T(4) + T(3)) \times T(6) \\
\mathbf{840} &:= -3! \times 6! + 5! + 7! && = (-T(3) + T(6) + T(5)) \times T(7) \\
\mathbf{960} &:= 1! \times 6! + 2! \times 5! && = (T(1) + T(6) \times T(2)) \times T(5) \\
\\
\mathbf{1008} &:= (2! \times 3!) \times 4! + 6! && = T(2) \times (T(3) + T(4)) \times T(6) \\
\mathbf{2160} &:= 2! \times 6! + 3! \times 5! && = (T(2) + T(6)) \times T(3) \times T(5) \\
\mathbf{3612} &:= 2! \times (3! - 6!) + 7! && = (T(2) + T(3) \times T(6)) \times T(7) \\
\mathbf{5040} &:= -(1! + 3!) \times 7! + 8! && = (-T(1) + T(3)) \times T(7) \times T(8)
\end{aligned}
$$

6.5 Five-Terms Expressions

$$
\begin{aligned}
\mathbf{0} &:= (2! \times 4! - 5!) \times 7! + 9! && = (T(2) + T(4) + T(5) - T(7)) \times T(9) \\
&:= 9! \times 2! + 8! \times (3! - 4!) && = (-T(9) + T(2) + T(8) + T(3)) \times T(4) \\
&:= 6! + 7! - 2! \times 4! \times 5! && = (T(6) - T(7) - T(2) + T(4)) \times T(5) \\
\\
\mathbf{1} &:= 7! \times (2! + 3!) + 1! - 8! && = T(7) + T(2) + T(3) \times T(1) - T(8)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{21} &:= 3! \times 4! - 1! - 2! - 5! && = -T(3) + T(4) - T(1) + T(2) + T(5)\\
\mathbf{22} &:= 1! \times 3! \times 4! - 5! - 2! && = T(1) + T(3) - (T(4) - T(5)) \times T(2)\\
\mathbf{25} &:= 1! + 4! + 3! \times 5! - 6! && = -T(1) - T(4) + T(3) \times (-T(5) + T(6))\\
\mathbf{26} &:= 4! \times 1! \times 3! + 2! - 5! && = -T(4) + (T(1) + T(3)) \times T(2) + T(5)\\
\mathbf{27} &:= 1! + 4! \times 3! + 2! - 5! && = (T(1) \times T(4) - T(3)) \times T(2) + T(5)\\
\mathbf{32} &:= 2! + 3! \times (4! + 1!) - 5! && = T(2) \times (T(3) + T(4)) - T(1) - T(5)\\
\mathbf{34} &:= (1! + 3!) \times (-2! + 4!) - 5! && = (T(1) + T(3)) \times (-T(2) + T(4)) - T(5)\\
\mathbf{35} &:= -1! - 5! + 3! \times (2! + 4!) && = T(1) + T(5) + T(3) + T(2) + T(4)\\
\mathbf{36} &:= 2! \times (3! \times (-1! + 4!) - 5!) && = (T(2) + T(3)) \times (-T(1) - T(4) + T(5))\\
\mathbf{37} &:= 1! + (4! + 2!) \times 3! - 5! && = T(1) \times T(4) - T(2) \times (T(3) - T(5))\\
\mathbf{42} &:= (1! + 4! + 2!) \times 3! - 5! && = (T(1) + T(4)) \times T(2) - T(3) + T(5)\\
\mathbf{46} &:= 2! \times (3! \times 4! - 1! - 5!) && = -(T(2) - T(3)) \times T(4) + T(1) + T(5)\\
\mathbf{47} &:= -1! + 2! \times (3! \times 4! - 5!) && = (-T(1) + T(2)) \times (T(3) + T(4)) + T(5)\\
\mathbf{48} &:= (1! + 2! - 3!) \times 4! + 5! && = T(1) \times T(2) + T(3) \times T(4) - T(5)\\
\mathbf{49} &:= 1! - (5! - 3! \times 4!) \times 2! && = T(1) - T(5) + T(3) \times T(4) + T(2)\\
\mathbf{50} &:= 2! - 5! + (1! + 3!) \times 4! && = T(2) \times T(5) + T(1) - T(3) + T(4)\\
\mathbf{54} &:= 3! - (1! + 2!) \times 4! + 5! && = T(3) \times (T(1) + T(2) - T(4) + T(5))\\
\mathbf{58} &:= -(1! + 3! + 4!) \times 2! + 5! && = (T(1) + T(3)) \times T(4) + T(2) - T(5)\\
\mathbf{59} &:= -1! - 2! \times (4! + 3!) + 5! && = -T(1) - T(2) \times T(4) + T(3) \times T(5)\\
\mathbf{60} &:= 1! \times 5! - 2! \times (3! + 4!) && = (T(1) \times T(5) - T(2) - T(3)) \times T(4)\\
\mathbf{61} &:= 1! - (3! + 4!) \times 2! + 5! && = T(1) \times T(3) + T(4) + T(2) \times T(5)\\
\mathbf{62} &:= (1! + 3!) \times (2! + 4!) - 5! && = -T(1) + T(3) \times (T(2) + T(4)) - T(5)\\
\mathbf{64} &:= -(1! + 4!) \times 2! - 3! + 5! && = T(1) + (T(4) + T(2)) \times T(3) - T(5)\\
\mathbf{65} &:= -1! - 3! - 2! \times 4! + 5! && = (-T(1) + T(3) + T(2)) \times T(4) - T(5)\\
\mathbf{66} &:= -1! \times 4! \times 2! - 3! + 5! && = (T(1) + T(4)) \times (-T(2) - T(3) + T(5))\\
\mathbf{67} &:= -2! \times 4! - 3! + 1! + 5! && = T(2) + (T(4) - T(3)) \times (T(1) + T(5))\\
\mathbf{68} &:= -2! \times (4! - 1!) - 3! + 5! && = T(2) - T(4) - (T(1) - T(3)) \times T(5)\\
\mathbf{71} &:= -1! + (2! + 3!) \times 4! - 5! && = -T(1) - T(2) + T(3) \times T(4) + T(5)\\
\mathbf{72} &:= 1! \times 4! \times (2! + 3!) - 5! && = (T(1) + T(4) - T(2)) \times (-T(3) + T(5))\\
\mathbf{73} &:= 1! + (2! + 3!) \times 4! - 5! && = T(1) - T(2) + T(3) \times T(4) + T(5)\\
\mathbf{76} &:= -(1! + 4!) \times 2! + 3! + 5! && = -T(1) - T(4) - T(2) + T(3) \times T(5)\\
\mathbf{77} &:= -2! \times 4! - 1! + 3! + 5! && = -(T(2) + T(4)) \times T(1) + T(3) \times T(5)\\
\mathbf{78} &:= -1! \times 2! \times 4! + 3! + 5! && = T(1) \times T(2) + T(4) \times T(3) + T(5)\\
\mathbf{79} &:= 1! - 2! \times 4! - 3! + 5! && = (T(1) + T(2)) \times (T(4) + T(3)) + T(5)\\
\mathbf{80} &:= 3! + (1! - 4!) \times 2! + 5! && = (T(3) - T(1)) \times (T(4) + T(2)) + T(5)\\
\mathbf{82} &:= -(1! + 3!) \times 2! - 4! + 5! && = T(1) + T(3) + T(2) \times (T(4) + T(5))\\
\mathbf{83} &:= -1! - 4! - 2! \times 3! + 5! && = -T(1) \times T(4) + T(2) + T(3) \times T(5)\\
\mathbf{84} &:= -1! \times 2! \times 3! + 5! - 4! && = T(1) + T(2) + T(3) \times T(5) - T(4)\\
\mathbf{85} &:= 1! - 2! \times 3! - 4! + 5! && = (T(1) + T(2) + T(3)) \times T(4) - T(5)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{86} &:= 2! \times (1! - 4! + 3!) + 5! && = -T(2) - T(1) + T(4) \times (-T(3) + T(5)) \\
\mathbf{87} &:= -1! - 2! - 4! - 3! + 5! && = -T(1) \times T(2) + T(4) \times (-T(3) + T(5)) \\
\mathbf{88} &:= -1! \times 2! - 4! - 3! + 5! && = T(1) - T(2) - T(4) \times (T(3) - T(5)) \\
\mathbf{89} &:= 1! - 2! - 3! - 4! + 5! && = -T(1) + T(2) \times T(3) \times (-T(4) + T(5)) \\
\mathbf{90} &:= (1! - 2!) \times 4! - 3! + 5! && = (-T(1) + T(2) + T(4) - T(3)) \times T(5) \\
\mathbf{91} &:= -1! - 3! - 4! + 2! + 5! && = T(1) + T(3) \times (T(4) \times T(2) - T(5)) \\
\mathbf{92} &:= 1! \times 2! - 3! - 4! + 5! && = -T(1) + T(2) \times (T(3) + T(4) + T(5)) \\
\mathbf{93} &:= 1! + 2! - 3! - 4! + 5! && = T(1) \times T(2) \times (T(3) + T(4) + T(5)) \\
\mathbf{94} &:= 2! \times (-1! + 5!) - 3! \times 4! && = (T(2) + T(1)) \times (T(5) + T(3)) + T(4) \\
\mathbf{95} &:= -1! - 3! \times 4! + 2! \times 5! && = (-T(1) + T(3)) \times T(4) + T(2) \times T(5) \\
\mathbf{96} &:= -1! \times 4! \times 3! + 2! \times 5! && = (-T(1) + T(4)) \times (T(3) + T(2)) + T(5) \\
\mathbf{97} &:= 1! - 4! \times 3! + 2! \times 5! && = -T(1) - T(4) + T(3) \times (T(2) + T(5)) \\
\mathbf{98} &:= (1! + 5!) \times 2! - 3! \times 4! && = (T(1) \times T(5) + T(2)) \times T(3) - T(4) \\
\mathbf{99} &:= -1! - 2! - 4! + 3! + 5! && = (T(1) + T(2) + T(4)) \times T(3) + T(5) \\
\mathbf{100} &:= -1! \times 2! + 3! - 4! + 5! && = (T(1) - T(2) + T(3)) \times (T(4) + T(5)) \\
\mathbf{102} &:= (1! - 2!) \times 4! + 3! + 5! && = -T(1) + T(2) + T(4) + T(3) \times T(5) \\
\mathbf{103} &:= 2! - 1! - 4! + 3! + 5! && = T(2) \times T(1) + T(4) + T(3) \times T(5) \\
\mathbf{104} &:= 1! \times 2! + 3! - 4! + 5! && = -T(1) + (T(2) + T(3)) \times T(4) + T(5) \\
\mathbf{105} &:= 1! + 2! + 3! - 4! + 5! && = (T(1) \times T(2) + T(3)) \times T(4) + T(5) \\
\mathbf{106} &:= (-1! + 3!) \times 2! - 4! + 5! && = (T(1) + T(3)) \times (T(2) + T(4)) + T(5) \\
\mathbf{108} &:= 2! \times 3! \times 1! - 4! + 5! && = T(2) \times T(3) \times (T(1) - T(4) + T(5)) \\
\mathbf{109} &:= 1! + 5! + 3! \times 2! - 4! && = (T(1) + T(5)) \times T(3) + T(2) + T(4) \\
\mathbf{110} &:= (1! + 3!) \times 2! - 4! + 5! && = (T(1) - T(3)) \times (T(2) - T(4) - T(5)) \\
\mathbf{114} &:= 3! \times (1! + 2!) - 4! + 5! && = -T(3) + (T(1) - T(2) + T(4)) \times T(5) \\
\mathbf{120} &:= (1! - 3!) \times 4! + 2! \times 5! && = (T(1) - T(3) + T(4) + T(2)) \times T(5) \\
\mathbf{122} &:= 5! \times (1! + 3!) + 2! - 6! && = T(5) - T(1) - T(3) \times (T(2) - T(6)) \\
\mathbf{126} &:= -(1! + 2!) \times 3! + 4! + 5! && = -(T(1) + T(2)) \times T(3) + T(4) \times T(5)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{130} &:= (-1! + 3!) \times (2! - 5!) + 6! && = T(1) + T(3) \times (T(2) + T(5)) + T(6) \\
&:= 4! - (1! + 3!) \times 2! + 5! && = T(4) \times (T(1) - T(3) + T(2) + T(5))
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{131} &:= -2! \times 3! - 1! + 4! + 5! && = -T(2) \times T(3) - T(1) + T(4) \times T(5) \\
\mathbf{132} &:= -1! \times 2! \times 3! + 4! + 5! && = -T(1) \times T(2) \times T(3) + T(4) \times T(5) \\
\mathbf{132} &:= 3! \times (4! + 5! - 2!) - 6! && = (T(3) - T(4)) \times (-T(5) + T(2) - T(6)) \\
\mathbf{133} &:= 1! - 2! \times 3! + 4! + 5! && = T(1) - T(2) \times T(3) + T(4) \times T(5) \\
\mathbf{134} &:= -2! \times (3! - 1!) + 5! + 4! && = (T(2) + T(3)) \times (T(1) + T(5)) - T(4) \\
\mathbf{135} &:= -1! - 2! - 3! + 4! + 5! && = T(1) \times T(2) \times (T(3) \times T(4) - T(5)) \\
\mathbf{136} &:= -1! \times 2! - 3! + 4! + 5! && = T(1) + T(2) \times (T(3) \times T(4) - T(5)) \\
\mathbf{137} &:= -2! - 3! + 4! + 1! + 5! && = T(2) - T(3) - T(4) \times (T(1) - T(5)) \\
\mathbf{138} &:= (1! - 2!) \times 3! + 4! + 5! && = (T(1) - T(2)) \times T(3) + T(4) \times T(5)
\end{aligned}
$$

$$\begin{aligned}
\mathbf{138} &:= (-1! + 4! + 5!) \times 3! - 6! && = (T(1) + T(4)) \times T(5) - T(3) - T(6) \\
\mathbf{140} &:= 1! \times 2! - 3! + 4! + 5! && = -T(1) - T(2) - T(3) + T(4) \times T(5) \\
\mathbf{141} &:= 1! + 2! - 3! + 4! + 5! && = -T(1) \times T(2) - T(3) + T(4) \times T(5) \\
\mathbf{143} &:= -1! + 3! \times (4! + 5!) - 6! && = -T(1) + (-T(3) + T(4)) \times (T(5) + T(6)) \\
\\
\mathbf{144} &:= (2! \times 3! - 1!) \times 4! - 5! && = T(2) + T(3) + (-T(1) + T(4)) \times T(5) \\
&:= 3! \times (4! + 5! + 6!) - 7! && = T(3) \times (-T(4) - T(5) + T(6) + T(7)) \\
\\
\mathbf{145} &:= 1! + (5! + 4!) \times 3! - 6! && = (T(1) + T(5)) \times T(4) + T(3) - T(6) \\
\mathbf{146} &:= 2! + 3! \times (5! + 4!) - 6! && = (T(2) + T(3)) \times T(5) - T(4) + T(6) \\
\mathbf{147} &:= -1! - 2! + 3! + 4! + 5! && = T(1) \times T(2) - T(3) + T(4) \times T(5) \\
\mathbf{148} &:= -1! \times 2! + 3! + 4! + 5! && = T(1) + T(2) - T(3) + T(4) \times T(5) \\
\mathbf{149} &:= -2! + 3! + 4! + 1! + 5! && = T(2) + T(3) - T(4) \times (T(1) - T(5)) \\
\\
\mathbf{150} &:= (-1! + 2!) \times 3! + 4! + 5! && = (-T(1) + T(2)) \times (T(3) \times T(4) + T(5)) \\
&:= 3! \times (1! + 4! + 5!) - 6! && = T(3) + (T(1) + T(4)) \times T(5) - T(6) \\
\\
\mathbf{151} &:= 2! + 3! + 4! - 1! + 5! && = -T(2) - T(3) + T(4) \times (T(1) + T(5)) \\
\mathbf{152} &:= 1! \times 2! + 3! + 4! + 5! && = -T(1) - T(2) + T(3) + T(4) \times T(5) \\
\mathbf{153} &:= 1! + 2! + 3! + 4! + 5! && = -T(1) \times T(2) + T(3) + T(4) \times T(5) \\
\mathbf{154} &:= (3! - 1!) \times 2! + 4! + 5! && = T(3) + T(1) - T(2) + T(4) \times T(5) \\
\mathbf{155} &:= -1! + 2! \times 3! + 4! + 5! && = (-T(1) + T(2) \times T(3)) \times T(4) - T(5) \\
\\
\mathbf{156} &:= 2! \times 3! \times 1! + 4! + 5! && = -T(2) - T(3) + (T(1) + T(4)) \times T(5) \\
&:= (2! + 4! + 5!) \times 3! - 6! && = (T(2) + T(4)) \times (-T(5) + T(3) + T(6)) \\
\\
\mathbf{157} &:= 2! \times 3! + 4! + 1! + 5! && = T(2) - T(3) + T(4) \times (T(1) + T(5)) \\
\mathbf{158} &:= (1! + 3!) \times 2! + 4! + 5! && = -T(1) + T(3) + T(2) + T(4) \times T(5) \\
\mathbf{160} &:= (4! - 1!) \times 2! - 3! + 5! && = T(4) + (T(1) + T(2) + T(3)) \times T(5) \\
\mathbf{162} &:= (1! + 2!) \times 3! + 4! + 5! && = (-T(1) + T(2)) \times T(3) + T(4) \times T(5) \\
\mathbf{163} &:= 1! + 5! + 4! \times 2! - 3! && = (T(1) + T(5)) \times T(4) - T(2) + T(3) \\
\mathbf{164} &:= (1! + 4!) \times 2! - 3! + 5! && = -T(1) + T(4) \times T(2) \times T(3) - T(5) \\
\mathbf{166} &:= (-1! + 3! \times 4!) \times 2! - 5! && = T(1) + T(3) \times T(4) \times T(2) - T(5) \\
\mathbf{167} &:= -1! + 2! \times 3! \times 4! - 5! && = -T(1) + T(2) \times T(3) + T(4) \times T(5) \\
\\
\mathbf{168} &:= 1! \times 2! \times 3! \times 4! - 5! && = T(1) \times T(2) \times T(3) + T(4) \times T(5) \\
&:= (3! + 1!) \times (6! + 4!) - 7! && = (-T(3) - T(1) + T(6)) \times T(4) + T(7) \\
\\
\mathbf{169} &:= 1! + 2! \times 3! \times 4! - 5! && = T(1) + T(2) \times T(3) + T(4) \times T(5) \\
\mathbf{170} &:= (4! \times 3! + 1!) \times 2! - 5! && = T(4) \times (T(3) - T(1) - T(2) + T(5))
\end{aligned}$$

$$
\begin{aligned}
\mathbf{173} &:= 3! - 1! + 4! \times 2! + 5! && = -T(3) - T(1) + T(4) \times (T(2) + T(5)) \\
\mathbf{174} &:= (1! + 2!) \times (-3! + 4!) + 5! && = (T(1) + T(2)) \times T(3) + T(4) \times T(5) \\
\mathbf{175} &:= 1! + 3! + 2! \times 4! + 5! && = (T(1) + T(3) \times T(2)) \times T(4) - T(5) \\
\mathbf{176} &:= 3! + (4! + 1!) \times 2! + 5! && = (T(3) + T(4)) \times (-T(1) - T(2) + T(5)) \\
\mathbf{178} &:= 2! \times (-3! - 1! - 4! + 5!) && = T(2) + (T(3) + T(1)) \times (T(4) + T(5)) \\
\mathbf{179} &:= -1! + 2! \times (3! + 4!) + 5! && = -T(1) + T(2) \times (-T(3) + T(4)) \times T(5) \\
\mathbf{180} &:= (1! \times 3! + 4!) \times 2! + 5! && = (-T(1) \times T(3) + T(4)) \times T(2) \times T(5) \\
\mathbf{181} &:= 1! + 2! \times (3! + 4!) + 5! && = T(1) - T(2) \times (T(3) - T(4)) \times T(5) \\
\mathbf{182} &:= 2! \times (3! + 4! + 1!) + 5! && = (T(2) - T(3) - T(4)) \times (T(1) - T(5)) \\
\mathbf{184} &:= 2! \times (5! - 1! - 4!) - 3! && = (T(2) + T(5) + T(1)) \times T(4) - T(3) \\
\mathbf{185} &:= -1! - 3! + 2! \times (-4! + 5!) && = (-T(1) + T(3) \times T(2)) \times T(4) + T(5) \\
\mathbf{186} &:= (2! + 1!) \times 4! - 3! + 5! && = -T(2) + (-T(1) + T(4)) \times (T(3) + T(5)) \\
\mathbf{187} &:= 1! + 2! \times (5! - 4!) - 3! && = T(1) + (T(2) + T(5)) \times T(4) + T(3) \\
\mathbf{188} &:= (1! + 5! - 4!) \times 2! - 3! && = (-T(1) + T(5)) \times (T(4) + T(2)) + T(3)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{192} &:= (-2! - 1! + 3!) \times 4! + 5! && = T(2) \times (-T(1) + T(3) \times T(4)) + T(5) \\
&:= (3! + 2!) \times (4! + 7!) - 8! && = (T(3) - T(2) \times T(4)) \times (T(7) - T(8))
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{196} &:= 3! - 2! \times (4! + 1! - 5!) && = T(3) \times T(2) \times T(4) + T(1) + T(5) \\
\mathbf{197} &:= 3! - 1! + (5! - 4!) \times 2! && = (T(3) - T(1) + T(5)) \times T(4) - T(2) \\
\mathbf{198} &:= (2! + 1!) \times 4! + 3! + 5! && = T(2) \times (T(1) + T(4) \times T(3)) + T(5) \\
\mathbf{200} &:= 3! + 2! \times (1! - 4! + 5!) && = (T(3) + T(2) - T(1)) \times (T(4) + T(5)) \\
\mathbf{202} &:= (-1! - 3! + 5!) \times 2! - 4! && = T(1) + T(3) + T(5) \times (T(2) + T(4)) \\
\mathbf{203} &:= 2! \times (5! - 3!) - 1! - 4! && = T(2) + (T(5) + T(3) - T(1)) \times T(4) \\
\mathbf{204} &:= (1! \times 3! - 4! + 5!) \times 2! && = (T(1) + T(3) + T(4)) \times (T(5) - T(2)) \\
\mathbf{205} &:= -4! + 1! + 2! \times (-3! + 5!) && = T(4) \times (T(1) + T(2) \times T(3)) + T(5) \\
\mathbf{206} &:= 2! \times (1! - 4! + 3! + 5!) && = -T(2) - T(1) + T(4) \times (T(3) + T(5)) \\
\mathbf{208} &:= -3! - 4! + 2! \times (-1! + 5!) && = (T(3) + T(4) - T(2)) \times (T(1) + T(5)) \\
\mathbf{209} &:= -1! - 3! - 4! + 2! \times 5! && = -T(1) + T(3) \times (-T(4) + T(2) \times T(5)) \\
\mathbf{210} &:= -1! \times 3! - 4! + 2! \times 5! && = (T(1) + T(3) + T(4) - T(2)) \times T(5) \\
\mathbf{211} &:= 1! - 3! - 4! + 2! \times 5! && = T(1) - T(3) \times (T(4) - T(2) \times T(5)) \\
\mathbf{212} &:= 2! \times (1! + 5!) - 3! - 4! && = T(2) - T(1) + (T(5) + T(3)) \times T(4) \\
\mathbf{215} &:= 4! \times (-2! + 3!) - 1! + 5! && = -T(4) + T(2) \times (T(3) - T(1)) \times T(5)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{216} &:= (3! + 2!) \times 5! - 4! - 6! && = -T(3) - T(2) + T(5) + T(4) \times T(6) \\
&:= 1! \times 4! \times (3! - 2!) + 5! && = (-T(1) + T(4)) \times (T(3) + T(2) + T(5))
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{221} &:= 2! \times 5! - 1! + 3! - 4! && = -T(2) + (T(5) - T(1)) \times (T(3) + T(4)) \\
\mathbf{222} &:= 2! \times 1! \times 5! + 3! - 4! && = T(2) \times (-T(1) + T(5) + T(3) \times T(4)) \\
\mathbf{223} &:= 2! \times 5! + 1! + 3! - 4! && = T(2) + (T(5) + T(1) + T(3)) \times T(4)
\end{aligned}
$$

$$\begin{aligned}
\mathbf{228} &:= (3! \times 1! + 5!) \times 2! - 4! && = T(3) \times ((T(1) + T(5)) \times T(2) - T(4)) \\
\mathbf{230} &:= (1! + 3! + 5!) \times 2! - 4! && = (-T(1) + T(3) + T(5) + T(2)) \times T(4) \\
\mathbf{238} &:= -2! - (1! - 3!) \times 4! + 5! && = -T(2) + T(1) + (T(3) + T(4)) \times T(5)
\end{aligned}$$

$$\begin{aligned}
\mathbf{240} &:= (1! - 2! + 3!) \times 4! + 5! && = (T(1) + T(2)) \times (-T(3) + T(4)) \times T(5) \\
&:= 1! \times 5! \times (3! + 2!) - 6! && = (T(1) + T(5) - T(3)) \times (T(2) + T(6)) \\
&:= -(3! + 2!) \times (6! - 5!) + 7! && = T(3) + (T(2) - T(6)) \times (T(5) - T(7))
\end{aligned}$$

$$\begin{aligned}
\mathbf{242} &:= 2! - (1! - 3!) \times 4! + 5! && = T(2) - T(1) + (T(3) + T(4)) \times T(5) \\
\mathbf{248} &:= (1! + 5!) \times (2! + 3!) - 6! && = -T(1) + T(5) \times T(2) \times T(3) - T(6) \\
\mathbf{250} &:= (3! - 1!) \times (2! + 4!) + 5! && = (T(3) + T(1) + T(2)) \times (T(4) + T(5)) \\
\mathbf{252} &:= (-1! \times 2! + 4!) \times 3! + 5! && = (-T(1) + T(2) + T(4)) \times (T(3) + T(5)) \\
\mathbf{253} &:= (-2! + 4!) \times 3! + 1! + 5! && = -T(2) + (T(4) + T(3)) \times (T(1) + T(5)) \\
\mathbf{254} &:= 2! \times (5! + 1! - 3!) + 4! && = (T(2) \times T(5) - T(1)) \times T(3) - T(4) \\
\mathbf{257} &:= -1! - 3! + 5! \times 2! + 4! && = (-T(1) + T(3) \times T(5)) \times T(2) - T(4) \\
\mathbf{258} &:= (-2! + 1! + 4!) \times 3! + 5! && = T(2) + (T(1) + T(4) + T(3)) \times T(5) \\
\mathbf{259} &:= 1! + 4! - 3! + 2! \times 5! && = -T(1) - T(4) + T(3) \times T(2) \times T(5) \\
\mathbf{260} &:= (4! - 1!) \times 3! + 2! + 5! && = -T(4) \times T(1) + T(3) \times T(2) \times T(5) \\
\mathbf{261} &:= -1! - 2! + 4! \times 3! + 5! && = (T(1) - T(2) \times T(4)) \times (T(3) - T(5)) \\
\mathbf{262} &:= 4! \times 3! - 2! \times 1! + 5! && = T(4) - T(3) \times T(2) \times (T(1) - T(5)) \\
\mathbf{263} &:= -2! + 1! + 5! + 3! \times 4! && = T(2) \times (T(1) + T(5) \times T(3)) - T(4)
\end{aligned}$$

$$\begin{aligned}
\mathbf{264} &:= (3! + 2!) \times 5! + 4! - 6! && = (T(3) + T(2) + T(5)) \times (-T(4) + T(6)) \\
&:= 3! \times 4! \times (2! - 1!) + 5! && = T(3) \times (T(4) \times T(2) - T(1) + T(5))
\end{aligned}$$

$$\begin{aligned}
\mathbf{265} &:= 4! \times 3! + 2! - 1! + 5! && = T(4) + (T(3) \times T(2) - T(1)) \times T(5) \\
\mathbf{266} &:= 2! + 3! \times 4! \times 1! + 5! && = (T(2) + T(3) + T(4)) \times (-T(1) + T(5)) \\
\mathbf{267} &:= 2! + 1! + 4! \times 3! + 5! && = T(2) \times (-T(1) + T(4) \times (-T(3) + T(5))) \\
\mathbf{269} &:= -1! + 3! + 4! + 2! \times 5! && = -T(1) + T(3) \times (T(4) \times T(2) + T(5)) \\
\mathbf{270} &:= 1! \times 3! + 4! + 2! \times 5! && = T(1) \times T(3) \times (T(4) \times T(2) + T(5)) \\
\mathbf{271} &:= 1! + 3! + 4! + 2! \times 5! && = T(1) + T(3) \times (T(4) \times T(2) + T(5)) \\
\mathbf{272} &:= 3! \times (4! + 1!) + 2! + 5! && = (T(3) + T(4)) \times (-T(1) + T(2) + T(5)) \\
\mathbf{274} &:= 2! \times (5! - 1! + 3!) + 4! && = (T(2) \times T(5) - T(1)) \times T(3) + T(4) \\
\mathbf{275} &:= -1! + 3! \times (4! + 2!) + 5! && = (-T(1) + T(3)) \times (T(4) + T(2) \times T(5)) \\
\mathbf{276} &:= 3! \times (2! + 4!) \times 1! + 5! && = T(3) \times (T(2) \times T(4) + T(1) + T(5)) \\
\mathbf{277} &:= 1! + (3! + 5!) \times 2! + 4! && = (-T(1) + T(3) \times T(5)) \times T(2) + T(4) \\
\mathbf{278} &:= (1! + 5! + 3!) \times 2! + 4! && = (T(1) + T(5)) \times T(3) \times T(2) - T(4) \\
\mathbf{280} &:= (4! - 1! + 5!) \times 2! - 3! && = T(4) \times T(1) + T(5) \times T(2) \times T(3) \\
\mathbf{281} &:= -1! - 3! + 2! \times (5! + 4!) && = T(1) + T(3) \times T(2) \times T(5) + T(4) \\
\mathbf{282} &:= 2! \times (4! \times 1! + 5!) - 3! && = T(2) \times (T(4) - (T(1) - T(5)) \times T(3))
\end{aligned}$$

$$\begin{aligned}
\mathbf{284} &:= (1!+5!+4!)\times 2!-3! && = -T(1)+T(5)\times(T(4)+T(2)+T(3))\\
\mathbf{286} &:= (1!+3!)\times 4!-2!+5! && = T(1)+(T(3)+T(4)+T(2))\times T(5)\\
\\
\mathbf{288} &:= -(1!+2!)\times(4!+5!)+6! && = (T(1)-T(2)+T(4))\times(T(5)+T(6))\\
&:= (1!+2!-3!)\times(4!-5!) && = (T(1)-T(2))\times(T(3)-T(4)\times T(5))\\
&:= -3!\times(1!+2!)\times 4!+6! && = -T(3)+(T(1)+T(2)+T(4))\times T(6)\\
&:= 2!\times(3!\times(4!+5!)-6!) && = (T(2)\times T(3)-T(4))\times(T(5)+T(6))\\
\\
\mathbf{294} &:= 3!-(2!+1!)\times(4!-5!) && = -T(3)+(T(2)-T(1))\times T(4)\times T(5)\\
\mathbf{295} &:= 1!+3!+2!\times(5!+4!) && = (T(1)+T(3)\times T(2))\times T(5)+T(4)\\
\mathbf{298} &:= 2!\times(3!+5!-1!+4!) && = T(2)\times T(3)\times(T(5)+T(1))+T(4)\\
\mathbf{299} &:= -1!+2!\times(4!+3!+5!) && = -T(1)+T(2)\times(T(4)+T(3)\times T(5))\\
\mathbf{300} &:= 1!\times 2!\times(3!+4!+5!) && = (T(1)+T(2)+T(3)+T(4))\times T(5)\\
\mathbf{301} &:= 1!+2!\times(4!+3!+5!) && = T(1)+T(2)\times(T(4)+T(3)\times T(5))\\
\mathbf{304} &:= (2!+3!)\times(4!-1!)+5! && = (T(2)+T(3)+T(4))\times(T(1)+T(5))\\
\mathbf{306} &:= (1!+2!)\times(5!-4!+3!) && = (-T(1)+T(2))\times T(5)\times T(4)+T(3)\\
\\
\mathbf{312} &:= (1!+2!)\times 3!\times 4!-5! && = (-T(1)+T(2))\times(T(3)+T(4)\times T(5))\\
&:= -3!\times 4!\times 2!-5!+6! && = T(3)\times T(4)-(T(2)-T(5))\times T(6)\\
\\
\mathbf{318} &:= (2!+1!)\times(5!-3!)-4! && = T(2)\times((T(1)+T(5))\times T(3)+T(4))\\
\mathbf{320} &:= (4!+1!)\times(2!+3!)+5! && = T(4)\times(-T(1)+T(2)\times T(3)+T(5))\\
\mathbf{330} &:= -3!-4!+(1!+2!)\times 5! && = T(3)\times(T(4)\times T(1)+T(2)\times T(5))\\
\\
\mathbf{336} &:= -(1!+2!)\times 5!-4!+6! && = (T(1)+T(2)\times(T(5)-T(4)))\times T(6)\\
&:= -2!\times 5!-3!\times 4!+6! && = (-T(2)+T(5)-T(3)+T(4))\times T(6)\\
&:= 4!\times(2!+3!+1!)+5! && = (T(4)\times T(2)-T(3))\times(-T(1)+T(5))\\
\\
\mathbf{342} &:= -(3!+5!)\times(1!+2!)+6! && = T(3)+(T(5)-T(1))\times(T(2)+T(6))\\
\mathbf{354} &:= -3!-(2!+1!)\times 5!+6! && = T(3)\times T(2)+(T(1)+T(5))\times T(6)\\
\\
\mathbf{360} &:= (1!+2!+3!)\times 5!-6! && = (T(1)+T(2)+T(3))\times(T(5)+T(6))\\
&:= (3!-1!)\times 2!\times 4!+5! && = (-T(3)\times T(1)+T(2)\times T(4))\times T(5)\\
\\
\mathbf{366} &:= 3!-5!\times(1!+2!)+6! && = T(3)+T(5)\times T(1)\times(T(2)+T(6))\\
\mathbf{378} &:= (1!+2!)\times(3!-5!)+6! && = (-T(1)\times T(2)+T(3)+T(5))\times T(6)\\
\mathbf{380} &:= (3!-2!)\times(5!-1!-4!) && = (-T(3)+T(2)\times T(5)-T(1))\times T(4)\\
\\
\mathbf{384} &:= -(1!+3!)\times 4!\times 2!+6! && = (T(1)\times T(3)+T(4))\times(T(2)+T(6))\\
&:= 3!\times 4!+2!\times 1!\times 5! && = (-T(3)+T(4)\times T(2))\times(T(1)+T(5))
\end{aligned}$$

$$:= 4! - (1! + 2!) \times 5! + 6! \qquad = (T(4) - T(1)) \times T(2) \times T(5) - T(6)$$

$$\mathbf{385} := 1! + 3! \times 4! + 2! \times 5! \qquad = (T(1) + T(3)) \times (T(4) + T(2) \times T(5))$$
$$\mathbf{390} := (1! + 4!) \times 3! + 2! \times 5! \qquad = T(1) \times T(4) \times (-T(3) + T(2) \times T(5))$$
$$\mathbf{408} := -(1! + 2! \times 3!) \times 4! + 6! \qquad = (T(1) - T(2)) \times (T(3) - T(4) \times T(6))$$
$$\mathbf{414} := 3! \times (2! \times 4! + 1!) + 5! \qquad = -T(3) + T(2) \times T(4) \times (-T(1) + T(5))$$

$$\mathbf{420} := (1! + 4!) \times 2! \times 3! + 5! \qquad = (T(1) \times T(4) + T(2) \times T(3)) \times T(5)$$
$$:= -(1! + 4!) \times 2! \times 3! + 6! \qquad = (T(1) + T(4) + T(2) + T(3)) \times T(6)$$
$$:= -2! \times (4! + 5! + 3!) + 6! \qquad = (T(2) + T(4) + T(5)) \times (-T(3) + T(6))$$

$$\mathbf{426} := -3! \times (4! \times 2! + 1!) + 6! \qquad = T(3) + T(4) \times (T(2) - T(1)) \times T(6)$$
$$:= 3! \times (-2! \times 4! - 1! + 5!) \qquad = T(3) - T(2) \times T(4) \times (T(1) - T(5))$$

$$\mathbf{430} := -(1! + 4! + 5!) \times 2! + 6! \qquad = T(1) + T(4) \times T(5) \times T(2) - T(6)$$

$$\mathbf{431} := -4! \times 2! \times 3! - 1! + 6! \qquad = -T(4) + T(2) \times (T(3) + T(1)) \times T(6)$$
$$:= -1! + (-2! \times 4! + 5!) \times 3! \qquad = -T(1) + T(2) \times (T(4) \times T(5) - T(3))$$

$$\mathbf{432} := -1! \times 2! \times 3! \times 4! + 6! \qquad = (-T(1) + T(2)) \times (T(3) + T(4) \times T(6))$$
$$:= (-1! \times 2! \times 4! + 5!) \times 3! \qquad = T(1) \times T(2) \times (T(4) \times T(5) - T(3))$$
$$:= -(1! \times 4! + 5!) \times 2! + 6! \qquad = (T(1) - T(4) - T(5)) \times (T(2) - T(6))$$
$$:= -(2! \times 4! + 6!) \times 3! + 7! \qquad = -T(2) \times T(4) + T(6) \times (-T(3) + T(7))$$
$$:= 2! \times (-3! + 5!) \times 4! - 7! \qquad = (T(2) + T(3) + T(5)) \times (-T(4) + T(7))$$
$$:= (2! + 3!) \times (4! + 5!) - 6! \qquad = T(2) \times (-T(3) + T(4)) \times (T(5) + T(6))$$
$$:= -4! \times (1! + 3!) - 5! + 6! \qquad = -T(4) + T(1) + (T(3) + T(5)) \times T(6)$$

$$\mathbf{433} := 1! - (2! \times 4! - 5!) \times 3! \qquad = T(1) + T(2) \times (T(4) \times T(5) - T(3))$$

$$\mathbf{438} := (2! + 1!) \times (5! + 4!) + 3! \qquad = T(2) \times ((-T(1) + T(5)) \times T(4) + T(3))$$
$$:= 3! - (4! + 5!) \times 2! + 6! \qquad = T(3) \times T(4) + (T(5) + T(2)) \times T(6)$$
$$:= 3! \times (1! - 4! \times 2!) + 6! \qquad = T(3) \times T(1) \times (T(4) + T(2) \times T(6))$$

$$\mathbf{444} := ((1! - 4!) \times 2! + 5!) \times 3! \qquad = T(1) \times T(4) \times T(2) \times T(5) - T(3)$$
$$:= -2! \times (5! + 3!) - 4! + 6! \qquad = (-T(2) + T(5)) \times (T(3) + T(4) + T(6))$$
$$:= 3! \times (1! - 4!) \times 2! + 6! \qquad = T(3) \times (T(1) + T(4) + T(2) \times T(6))$$

$$\mathbf{450} := -(1! + 4!) \times 3! - 5! + 6! \qquad = -T(1) + T(4) + (T(3) + T(5)) \times T(6)$$
$$:= -2! \times 5! - 3! - 4! + 6! \qquad = (T(2) + T(5)) \times (-T(3) + T(4) + T(6))$$
$$:= (1! + 2!) \times (3! + 4! + 5!) \qquad = T(1) \times T(2) \times T(3) \times (T(4) + T(5))$$

$$\begin{aligned}
\mathbf{454} &:= -2! - 4! \times 3! - 5! + 6! && = T(2) + T(4) + (T(3) + T(5)) \times T(6)\\
\\
\mathbf{455} &:= -4! - 2! \times 5! - 1! + 6! && = (T(4) + T(2)) \times (T(5) - T(1) + T(6))\\
&:= -1! + (3! - 2!) \times 5! - 4! && = -T(1) + T(3) + (T(2) \times T(5)) \times T(4)\\
\\
\mathbf{456} &:= (1! + 3!) \times 2! \times 4! + 5! && = T(1) \times T(3) + T(2) \times T(4) \times T(5)\\
&:= -3! \times 1! \times 4! + 6! - 5! && = T(3) - (T(1) - T(4) - T(6)) \times T(5)\\
&:= -1! \times 4! - 2! \times 5! + 6! && = (-T(1) + T(4) \times T(2)) \times T(5) + T(6)\\
&:= -5! - 3! \times (6! + 4!) + 7! && = (-T(5) + T(3) + T(6)) \times (T(4) + T(7))\\
\\
\mathbf{457} &:= 1! + (3! - 2!) \times 5! - 4! && = T(1) + T(3) + T(2) \times T(5) \times T(4)\\
\mathbf{458} &:= -4! \times 3! - 5! + 2! + 6! && = -T(4) + T(3) \times (T(5) + T(2) \times T(6))\\
\mathbf{460} &:= (1! + 5!) \times (-2! + 3!) - 4! && = (T(1) - T(5) \times (T(2) - T(3))) \times T(4)\\
\\
\mathbf{462} &:= (1! - 4!) \times 3! - 5! + 6! && = (T(1) + T(4)) \times (T(3) + T(5) + T(6))\\
&:= -2! \times 5! - 4! + 3! + 6! && = (T(2) + T(5) + T(4) - T(3)) \times T(6)\\
\\
\mathbf{467} &:= -1! - (3! + 5!) \times 2! + 6! && = -T(1) + T(3) \times (T(5) + T(2) \times T(6))\\
\\
\mathbf{468} &:= -(1! \times 3! + 5!) \times 2! + 6! && = T(1) \times T(3) \times (T(5) + T(2) \times T(6))\\
&:= (2! - 4!) \times 3! - 5! + 6! && = (T(2) + T(4)) \times T(3) \times (-T(5) + T(6))\\
\\
\mathbf{469} &:= 1! - (3! + 5!) \times 2! + 6! && = T(1) + T(3) \times (T(5) + T(2) \times T(6))\\
\mathbf{474} &:= -3! \times 1! - 5! \times 2! + 6! && = T(3) \times (T(1) + T(5) + T(2) \times T(6))\\
\\
\mathbf{480} &:= (-1! + 3!) \times 5! \times 2! - 6! && = (-T(1) + T(3) + T(5)) \times (T(2) + T(6))\\
&:= (1! - 2! + 3!) \times (-4! + 5!) && = (-T(1) + T(2)) \times (T(3) + T(4)) \times T(5)\\
&:= 2! \times 4! \times (1! - 3!) + 6! && = T(2) \times T(4) \times (T(1) - T(3) + T(6))\\
&:= -2! \times 5! - 3! \times 6! + 7! && = -(T(2) + T(5)) \times T(3) + T(6) \times T(7)\\
\\
\mathbf{485} &:= -1! - 2! \times 5! + 3! + 6! && = -T(1) + (T(2) + T(5)) \times (T(3) + T(6))\\
\mathbf{486} &:= -1! \times 2! \times 5! + 3! + 6! && = (T(1) \times T(2) + T(5)) \times (T(3) + T(6))\\
\mathbf{487} &:= 1! - 2! \times 5! + 3! + 6! && = T(1) + (T(2) + T(5)) \times (T(3) + T(6))\\
\mathbf{500} &:= (1! - 5!) \times (2! - 3!) + 4! && = (-T(1) + T(5) \times T(2) + T(3)) \times T(4)\\
\mathbf{503} &:= -2! \times 5! + 4! - 1! + 6! && = T(2) + (T(5) + T(4)) \times (-T(1) + T(6))\\
\\
\mathbf{504} &:= -(1! + 3! + 2!) \times 4! + 6! && = (-T(1) \times T(3) + T(2) \times T(4)) \times T(6)\\
&:= -(3! - 2!) \times 4! - 5! + 6! && = T(3) \times ((-T(2) + T(4)) \times T(5) - T(6))\\
&:= 1! \times 4! - 2! \times 5! + 6! && = (T(1) + T(4) + T(2)) \times (T(5) + T(6))
\end{aligned}$$

$$:= 3! \times 4! + (2! + 1!) \times 5! \qquad = (T(3) + T(4) \times T(2)) \times (-T(1) + T(5))$$

$$\mathbf{506} := (1! - 5!) \times 2! + 4! + 6! \qquad = (T(1) + T(5) \times T(2)) \times (-T(4) + T(6))$$
$$\mathbf{510} := 4! - 2! \times 5! + 3! + 6! \qquad = T(4) \times ((-T(2) + T(5)) \times T(3) - T(6))$$
$$\mathbf{516} := -2! \times (3! + 5! - 4!) + 6! \qquad = -T(2) - T(3) + (T(5) + T(4)) \times T(6)$$
$$\mathbf{522} := -3! + (4! - 5!) \times 2! + 6! \qquad = T(3) \times (T(4) \times T(5) - T(2) \times T(6))$$

$$\mathbf{527} := -1! + 2! \times (4! - 5!) + 6! \qquad = -T(1) + T(2) + (T(4) + T(5)) \times T(6)$$
$$:= -1! - (2! + 3!) \times 4! + 6! \qquad = (-T(1) + T(2) \times T(3)) \times (T(4) + T(6))$$

$$\mathbf{528} := (1! \times 4! - 5!) \times 2! + 6! \qquad = (T(1) + T(4)) \times (-T(5) + T(2) \times T(6))$$
$$:= -(3! + 2!) \times 4! \times 1! + 6! \qquad = (-T(3) + T(2) \times T(4)) \times (T(1) + T(6))$$
$$:= (2! + 3!) \times (-4! + 6!) - 7! \qquad = T(2) \times (-T(3) + T(4) \times T(6) - T(7))$$

$$\mathbf{529} := 1! - 2! \times (5! - 4!) + 6! \qquad = T(1) + T(2) + (T(5) + T(4)) \times T(6)$$
$$\mathbf{534} := 3! - 2! \times (5! - 4!) + 6! \qquad = T(3) + T(2) + (T(5) + T(4)) \times T(6)$$

$$\mathbf{540} := -(3! + 4!) \times 2! - 5! + 6! \qquad = T(3) \times T(4) \times (T(2) - T(5) + T(6))$$
$$:= 2! \times ((1! + 4!) \times 3! + 5!) \qquad = (-T(2) - T(1) + T(4)) \times T(3) \times T(5)$$

$$\mathbf{546} := -2! \times 4! - 3! - 5! + 6! \qquad = (T(2) + T(4)) \times (T(3) + T(5) + T(6))$$

$$\mathbf{552} := -1! \times 4! \times 2! + 6! - 5! \qquad = (-T(1) + T(4)) \times T(2) \times T(6) - T(5)$$
$$:= -2! \times 3! \times 4! + 6! + 5! \qquad = -T(2) + (T(3) + T(4) + T(6)) \times T(5)$$
$$:= -(3! - 1! + 2!) \times 4! + 6! \qquad = T(3) \times (-T(1) + T(2) \times (T(4) + T(6)))$$

$$\mathbf{553} := -2! \times 4! - 5! + 1! + 6! \qquad = T(2) + (T(4) + T(5)) \times (T(1) + T(6))$$

$$\mathbf{558} := 3! - 5! - 2! \times 4! + 6! \qquad = (T(3) + T(5) - T(2)) \times (T(4) + T(6))$$
$$:= -3! \times (1! + 2! + 4!) + 6! \qquad = T(3) \times T(1) \times T(2) \times (T(4) + T(6))$$

$$\mathbf{564} := -(2! + 4! + 6!) \times 3! + 7! \qquad = T(2) \times (T(4) \times T(6) + T(3) - T(7))$$
$$:= -3! \times 2! - 5! - 4! + 6! \qquad = T(3) + (T(2) + T(5)) \times (T(4) + T(6))$$
$$:= -3! \times (4! + 2!) \times 1! + 6! \qquad = T(3) \times (T(4) + (T(2) + T(1)) \times T(6))$$

$$\mathbf{570} := -1! \times 3! - 4! + 6! - 5! \qquad = (T(1) + T(3) + T(4) + T(6)) \times T(5)$$
$$:= -3! \times (1! + 6! + 4!) + 7! \qquad = (-T(3) \times T(1) + T(6)) \times (T(4) + T(7))$$

$$\mathbf{573} := -3! \times 4! - 1! - 2! + 6! \qquad = T(3) + (T(4) - T(1)) \times T(2) \times T(6)$$
$$\mathbf{575} := 1! + 6! - 2! - 4! - 5! \qquad = (-T(1) + T(6) + T(2)) \times (T(4) + T(5))$$

Selfie Expressions With Factorial, Fibonacci and Triangular Values,
Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

$$
\begin{aligned}
\mathbf{576} &:= (2! \times 5! - 3!) \times 4! - 7! && = (T(2) + T(5)) \times (T(3) \times T(4) - T(7)) \\
&:= (2! \times 5! - 4!) \times 3! - 6! && = T(2) \times T(5) \times T(4) + T(3) \times T(6) \\
&:= (2! - 1!) \times 6! - 4! \times 3! && = T(2) \times (T(1) + T(6) + T(4)) \times T(3) \\
&:= (4! + 5!) \times (1! - 2!) + 6! && = (T(4) + T(5) - T(1)) \times (T(2) + T(6)) \\
&:= (3! - 2!) \times (4! \times 1! + 5!) && = (T(3) + T(2) \times T(4)) \times (T(1) + T(5))
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{579} &:= 1! + 2! - 4! - 5! + 6! && = (T(1) + T(2)) \times T(4) \times T(5) - T(6) \\
\mathbf{580} &:= (-4! + 1!) \times 3! - 2! + 6! && = T(4) \times (T(1) - T(3) + T(2) \times T(6)) \\
\mathbf{587} &:= -1! + 3! \times (2! - 4!) + 6! && = -T(1) + (T(3) \times T(2) + T(4)) \times T(6)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{588} &:= -(1! \times 2!) \times 3! - 5! + 6! && = (T(1) - T(2) \times (T(3) - T(5))) \times T(6) \\
&:= (-1! \times 4! + 2!) \times 3! + 6! && = (T(1) \times T(4) + T(2) \times T(3)) \times T(6) \\
&:= 2! \times 3! - 4! - 5! + 6! && = (-T(2) + T(3) + T(4) + T(5)) \times T(6) \\
&:= 3! \times (2! - 4! - 6!) + 7! && = (-T(3) - T(2) + T(4)) \times T(6) \times T(7) \\
&:= -5! - 3! \times (2! + 6!) + 7! && = (T(5) - T(3) + T(2)) \times (T(6) + T(7)) \\
&:= 3! \times (2! - 4! \times 1! + 5!) && = T(3) \times (T(2) - T(4)) \times (T(1) - T(5))
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{589} &:= 1! - (4! - 2!) \times 3! + 6! && = T(1) + (T(4) + T(2) \times T(3)) \times T(6)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{594} &:= -(3! + 5!) \times (2! - 1!) + 6! && = (-T(3) + T(5)) \times T(2) \times (T(1) + T(6)) \\
&:= 3! \times (2! - 4! + 1!) + 6! && = -T(3) + T(2) \times T(4) \times (-T(1) + T(6)) \\
&:= 3! \times (1! + 2! - 4! + 5!) && = -T(3) + (T(1) + T(2)) \times T(4) \times T(5)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{600} &:= (2! + 3!) \times 6! - 7! - 5! && = (-T(2) - T(3) + T(6) + T(7)) \times T(5)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{600} &:= 4! \times (2! - 1! - 3!) + 6! && = T(4) \times (T(2) + T(1)) \times (-T(3) + T(6)) \\
&:= 5! \times (2! \times 3! - 1!) - 6! && = T(5) \times (T(2) \times T(3) + T(1) + T(6)) \\
&:= 5! \times (2! \times 4! - 1!) - 7! && = T(5) \times (T(2) + T(4) - T(1) + T(7)) \\
\mathbf{612} &:= 1! \times 2! \times 3! - 5! + 6! && = (-T(1) + T(2) \times T(3)) \times (T(5) + T(6)) \\
&:= (2! - 6!) \times 3! - 5! + 7! && = T(2) + T(6) + (T(3) + T(5)) \times T(7) \\
&:= -3! \times 2! - 5! + 4! + 6! && = T(3) \times (-T(2) + (T(5) - T(4)) \times T(6))
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{618} &:= (1! + 2!) \times 3! - 5! + 6! && = (T(1) - T(2)) \times (T(3) - T(5) \times T(6)) \\
\mathbf{620} &:= (4! + 1!) \times (2! - 3!) + 6! && = T(4) \times (-T(1) + (-T(2) + T(3)) \times T(6)) \\
\mathbf{621} &:= -1! - 2! - 5! + 4! + 6! && = (T(1) + T(2)) \times T(5) \times T(4) + T(6) \\
\mathbf{623} &:= -1! - (3! - 2!) \times 4! + 6! && = -T(1) - T(3) + (T(2) \times T(4)) \times T(6)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{624} &:= (-1! \times 3! + 2!) \times 4! + 6! && = -T(1) \times T(3) + T(2) \times T(4) \times T(6) \\
&:= (-1! + 2!) \times 4! + 6! - 5! && = (-T(1) + T(2) \times T(4)) \times T(6) + T(5)
\end{aligned}
$$

$$:= (1! - 2! + 3!) \times 5! + 4! \qquad = (T(1) + T(2)) \times (T(3) + (T(5) \times T(4)))$$
$$:= 3! \times 4! - 2! \times 5! + 6! \qquad = (T(3) + T(4)) \times (T(2) + T(5) + T(6))$$
$$:= 7! - 5! - 3! \times 6! + 4! \qquad = T(7) \times T(5) - T(3) + T(6) \times T(4)$$

$$\mathbf{625} := 4! - 5! + 2! - 1! + 6! \qquad = (T(4) + T(5)) \times (T(2) + T(1) + T(6))$$
$$:= 1! - (3! - 2!) \times 4! + 6! \qquad = T(1) - T(3) + T(2) \times T(4) \times T(6)$$

$$\mathbf{629} := -1! - 5! + 4! + 3! + 6! \qquad = -T(1) + (T(5) - T(4)) \times T(3) \times T(6)$$

$$\mathbf{630} := 1! \times 3! + 4! - 5! + 6! \qquad = T(1) \times T(3) \times (-T(4) + T(5)) \times T(6)$$
$$:= -(1! + 2!) \times (3! + 4!) + 6! \qquad = (-T(1) \times T(2) + T(3)) \times T(4) \times T(6)$$

$$\mathbf{631} := 1! + 3! + 4! - 5! + 6! \qquad = T(1) - T(3) \times (T(4) - T(5)) \times T(6)$$
$$\mathbf{646} := -(1! - 4!) \times 2! + 6! - 5! \qquad = T(1) + T(4) \times T(2) \times T(6) + T(5)$$

$$\mathbf{648} := (1! + 2! - 3!) \times 4! + 6! \qquad = T(1) \times T(2) \times (T(3) + T(4) \times T(6))$$
$$:= 2! \times 1! \times 4! + 6! - 5! \qquad = T(2) \times ((T(1) + T(4)) \times T(6) - T(5))$$
$$:= -(2! + 3!) \times 4! + 5! + 6! \qquad = -T(2) + (T(3) + T(4) + T(5)) \times T(6)$$
$$:= 3! \times 5! - (2! + 1!) \times 4! \qquad = T(3) \times (T(5) - T(2)) \times (-T(1) + T(4))$$

$$\mathbf{650} := (4! + 1!) \times 2! - 5! + 6! \qquad = T(4) \times (-T(1) + T(2) \times T(5) + T(6))$$

$$\mathbf{654} := 2! \times 4! + 3! - 5! + 6! \qquad = T(2) + (T(4) + T(3) + T(5)) \times T(6)$$
$$:= 3! - 4! \times (2! + 1!) + 6! \qquad = -T(3) + T(4) \times T(2) \times (T(1) + T(6))$$

$$\mathbf{660} := (4! + 3!) \times 2! - 5! + 6! \qquad = T(4) \times ((T(3) - T(2)) \times T(5) + T(6))$$
$$:= -2! \times (3! + 4!) \times 1! + 6! \qquad = (-T(2) + T(3)) \times T(4) \times (T(1) + T(6))$$

$$\mathbf{666} := -3! - 2! \times 4! \times 1! + 6! \qquad = T(3) + (T(2) \times T(4)) \times (T(1) + T(6))$$

$$\mathbf{672} := -(1! + 3!) \times 4! + 5! + 6! \qquad = (T(1) + T(3) + T(4) + T(5)) \times T(6)$$
$$:= 2! \times 4! \times (5! - 1!) - 7! \qquad = -T(2) + (T(4) + T(5)) \times (-T(1) + T(7))$$
$$:= 4! \times (2! + 1!) - 5! + 6! \qquad = (-T(4) + T(2) \times (-T(1) + T(5))) \times T(6)$$
$$:= 2! \times (5! - 4! \times 3!) + 6! \qquad = -T(2) + (T(5) + T(4)) \times (T(3) + T(6))$$
$$:= -2! \times 4! + 3! \times 1! \times 5! \qquad = (-T(2) + T(4)) \times T(3) \times (T(1) + T(5))$$

$$\mathbf{678} := -2! \times 4! \times 1! + 6! + 3! \qquad = T(2) \times (T(4) \times (T(1) + T(6)) + T(3))$$
$$\mathbf{680} := 3! + 6! + 2! \times (1! - 4!) \qquad = (T(3) + T(6) \times T(2) - T(1)) \times T(4)$$

$$\mathbf{684} := -(2! + 4!) \times 3! + 5! + 6! \qquad = (T(2) + T(4) + T(3)) \times (T(5) + T(6))$$

$:= -(2! + 6!) \times 3! - 4! + 7!$ $= (T(2) + T(6) - T(3)) \times (T(4) + T(7))$

687 $:= -3! - 1! - 4! - 2! + 6!$ $= -T(3) + (T(1) + T(4)) \times T(2) \times T(6)$
689 $:= 1! - 4! - 3! - 2! + 6!$ $= -T(1) + T(4) \times (T(3) + T(2) \times T(6))$

690 $:= -(1! + 4!) \times 3! + 5! + 6!$ $= T(1) \times T(4) \times (T(3) \times T(5) - T(6))$
$:= (4! + 3!) \times (1! - 2!) + 6!$ $= T(4) \times (T(3) \times T(1) + T(2) \times T(6))$
$:= -4! - (1! + 6!) \times 3! + 7!$ $= T(4) - (T(1) - T(6)) \times (T(3) + T(7))$

691 $:= -1! - 4! - 3! + 2! + 6!$ $= T(1) + T(4) \times (T(3) + T(2) \times T(6))$

693 $:= 1! - 4! + 2! - 3! + 6!$ $= (T(1) + T(4)) \times (-T(2) + T(3)) \times T(6)$
$:= -1! - 4! - 2! + 3! \times 5!$ $= (T(1) + T(4)) \times T(2) \times (T(3) + T(5))$

696 $:= (-1! + 2! \times 5!) \times 4! - 7!$ $= -T(1) - T(2) + (T(5) + T(4)) \times T(7)$
$:= -3! \times (6! + 4!) + 7! + 5!$ $= T(3) \times T(6) + (T(4) + T(7)) \times T(5)$

699 $:= 3! - 1! - 4! - 2! + 6!$ $= T(3) + (T(1) + T(4)) \times T(2) \times T(6)$
700 $:= -4! \times 1! + 3! - 2! + 6!$ $= T(4) \times (T(1) + T(3) + T(2) \times T(6))$

702 $:= -3! \times (2! + 6! + 1!) + 7!$ $= T(3) + (T(2) + T(6)) \times (T(1) + T(7))$
$:= 5! - (4! - 1!) \times 3! + 6!$ $= (T(5) + T(4) + T(1)) \times (T(3) + T(6))$

704 $:= 2! + (5! + 1!) \times 3! - 4!$ $= (T(2) \times T(5) - T(1)) \times (T(3) + T(4))$

708 $:= 3! \times (2! - 6!) - 4! + 7!$ $= -T(3) + T(2) \times (T(6) \times T(4) + T(7))$
$:= -3! \times (4! - 2!) + 5! + 6!$ $= T(3) \times (T(4) + T(2) \times (T(5) + T(6)))$
$:= -1! \times 4! + 3! \times (2! + 5!)$ $= (T(1) - T(4) \times T(3)) \times (T(2) - T(5))$

710 $:= (1! - 3!) \times (2! - 5! - 4!)$ $= (-T(1) + T(3) \times (-T(2) + T(5))) \times T(4)$
712 $:= -2! - (1! + 6!) \times 3! + 7!$ $= -T(2) + T(1) + T(6) \times (T(3) + T(7))$

714 $:= (1! + 2!) \times 3! - 4! + 6!$ $= ((T(1) + T(2)) \times T(3) + T(4)) \times T(6)$
$:= 2! \times 4! \times 5! - 3! - 7!$ $= T(2) \times (T(4) \times (T(5) + T(3)) + T(7))$
$:= -(1! + 5!) \times 3! + 2! \times 6!$ $= (T(1) + T(5) + T(3) \times T(2)) \times T(6)$
$:= 3! \times (1! + 2! + 5!) - 4!$ $= T(3) \times (-T(1) + (-T(2) + T(5)) \times T(4))$

716 $:= 2! - (1! + 6!) \times 3! + 7!$ $= T(2) - T(1) + T(6) \times (T(3) + T(7))$
717 $:= -1! - 2! - 6! \times 3! + 7!$ $= T(1) \times T(2) + T(6) \times (T(3) + T(7))$
718 $:= -1! \times 2! - 6! \times 3! + 7!$ $= T(1) + T(2) + T(6) \times (T(3) + T(7))$

$$
\begin{aligned}
\mathbf{720} &:= 1! \times 5! \times 2! \times 3! - 6! && = (T(1) + T(5)) \times T(2) \times (-T(3) + T(6)) \\
&:= (-(1! + 2!) \times 3! + 4!) \times 5! && = T(1) \times T(2) \times (T(3) + T(4)) \times T(5) \\
&:= -2! \times 4! \times 6! - 7! + 8! && = (T(2) + T(4) - T(6) + T(7)) \times T(8) \\
&:= -(1! + 2!) \times 6! + 5! \times 4! && = (-T(1) + T(2)) \times (T(6) + T(5)) \times T(4) \\
&:= (-3! + 4!) \times 5! - 2! \times 6! && = T(3) \times (-T(4) + T(5)) \times (T(2) + T(6)) \\
&:= 3! \times (6! + 5! \times 2!) - 7! && = T(3) \times (T(6) + T(5) + T(2) \times T(7))
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{722} &:= 2! \times (4! \times 5! + 1!) - 7! && = -T(2) + (T(4) + T(5)) \times (T(1) + T(7)) \\
\mathbf{726} &:= 3! \times (2! \times 5! + 1!) - 6! && = (T(3) \times T(2) + T(5)) \times (T(1) + T(6)) \\
\mathbf{730} &:= (-1! + 3!) \times (2! + 5! + 4!) && = (T(1) - T(3) \times (T(2) - T(5))) \times T(4) \\
\mathbf{731} &:= (2! - 6!) \times 3! - 1! + 7! && = T(2) + (T(6) + T(3) - T(1)) \times T(7)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{732} &:= (2! - 6!) \times 1! \times 3! + 7! && = -T(2) + T(6) \times (T(1) + T(3) + T(7)) \\
&:= 1! \times 4! - 3! \times (2! - 5!) && = (T(1) + T(4) \times T(3)) \times (-T(2) + T(5)) \\
&:= 4! - 3! \times (2! + 6!) + 7! && = T(4) \times T(3) + (T(2) + T(6)) \times T(7)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{735} &:= -1! - 2! + 4! - 3! + 6! && = (-T(1) + T(2) \times T(4) + T(3)) \times T(6) \\
\mathbf{736} &:= -2! + (5! - 1!) \times 3! + 4! && = (T(2) \times T(5) + T(1)) \times (T(3) + T(4))
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{738} &:= (2! - 6! + 1!) \times 3! + 7! && = T(2) + T(6) \times (T(1) + T(3) + T(7)) \\
&:= 4! - (1! + 6!) \times 3! + 7! && = -T(4) + (T(1) + T(6)) \times (T(3) + T(7))
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{744} &:= 2! \times 3! \times 5! + 4! - 6! && = (T(2) + T(3) + T(5)) \times (T(4) + T(6)) \\
&:= 4! \times (1! + 5! \times 2!) - 7! && = (T(4) - T(1) + T(5)) \times (T(2) + T(7))
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{745} &:= 1! + 4! - 3! \times 6! + 7! && = -T(1) - T(4) + (T(3) + T(6)) \times T(7) \\
\mathbf{747} &:= 2! + 4! + 1! + 3! \times 5! && = -T(2) + T(4) \times (-T(1) + T(3)) \times T(5) \\
\mathbf{755} &:= -1! + 3! \times 2! + 4! + 6! && = -T(1) + (T(3) + T(2) \times T(4)) \times T(6)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{756} &:= 1! \times 3! \times 2! + 4! + 6! && = (T(1) \times T(3) + T(2) \times T(4)) \times T(6) \\
&:= (2! - 6!) \times 3! + 4! + 7! && = T(2) \times T(6) \times (-T(3) - T(4) + T(7)) \\
&:= 3! \times (2! + 4!) - 5! + 6! && = T(3) \times ((-T(2) + T(4)) \times T(5) + T(6))
\end{aligned}
$$

$$
\mathbf{757} := 1! + 3! \times 2! + 4! + 6! \qquad = T(1) + (T(3) + T(2) \times T(4)) \times T(6)
$$

$$
\begin{aligned}
\mathbf{768} &:= (3! \times 4! - 5!) \times 2! + 6! && = (T(3) + T(4)) \times (-T(5) + T(2) \times T(6)) \\
&:= (3! + 1!) \times 4! - 5! + 6! && = T(3) \times (-T(1) + T(4) \times T(5) - T(6)) \\
&:= 2! \times 4! - 3! \times 6! + 7! && = T(2) \times T(4) \times T(3) + T(6) \times T(7) \\
&:= 2! \times 4! + 3! \times 1! \times 5! && = T(2) \times (T(4) + T(3)) \times (T(1) + T(5))
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{780} &:= -(4!+3!)\times 2!+6!+5! && = T(4)\times((T(3)-T(2))\times T(6)+T(5))\\
&:= 2!\times(4!\times 1!+3!)+6! && = T(2)\times T(4)\times(-T(1)+T(3)+T(6))\\
\\
\mathbf{786} &:= -3!-4!\times 2!+6!+5! && = T(3)+T(4)\times(T(2)\times T(6)+T(5))\\
\mathbf{790} &:= -(4!+1!)\times 2!+6!+5! && = T(4)\times(T(1)+T(2)\times T(6)+T(5))\\
\\
\mathbf{792} &:= (3!+2!)\times 4!-5!+6! && = T(3)\times(T(2)+T(4)\times T(5)-T(6))\\
&:= 3!\times 5!+(2!+1!)\times 4! && = T(3)\times(T(5)-T(2))\times(T(1)+T(4))\\
&:= 4!\times(-2!+3!-1!)+6! && = (T(4)\times T(2)+T(3))\times(T(1)+T(6))\\
\\
\mathbf{794} &:= (1!-4!)\times 2!+6!+5! && = -T(1)+(-T(4)+T(2)\times T(6))\times T(5)\\
\mathbf{810} &:= (1!+2!)\times(4!+3!)+6! && = T(1)\times T(2)\times T(4)\times(T(3)+T(6))\\
\\
\mathbf{816} &:= (-1!\times 2!+3!)\times 4!+6! && = (T(1)+T(2))\times(-T(3)+T(4)\times T(6))\\
&:= 5!\times(-1!+2!)-4!+6! && = (T(5)+T(1))\times(T(2)\times T(4)+T(6))\\
\\
\mathbf{820} &:= (4!+1!)\times(-2!+3!)+6! && = T(4)\times(T(1)+T(2)\times(T(3)+T(6)))\\
\\
\mathbf{828} &:= 2!\times 3!+5!-4!+6! && = (T(2)\times T(3))\times(T(5)+T(4)+T(6))\\
&:= -(2!+6!)\times 3!+7!+5! && = T(2)+(T(6)+T(3)+T(7))\times T(5)\\
\\
\mathbf{839} &:= -1!+5!-3!\times 6!+7! && = -T(1)+(T(5)-T(3)+T(6))\times T(7)\\
\\
\mathbf{840} &:= -1!\times 6!\times 3!+5!+7! && = (T(1)\times T(6)-T(3)+T(5))\times T(7)\\
&:= (1!+3!-2!)\times 4!+6! && = (T(1)+T(3)-T(2))\times T(4)\times T(6)\\
&:= (2!+3!)\times 6!+5!-7! && = (T(2)\times(-T(3)+T(6))-T(5))\times T(7)\\
&:= (1!+3!\times 2!)\times 5!-6! && = (T(1)-T(3)+T(2)\times T(5))\times T(6)\\
&:= (4!\times 2!+5!)\times(-1!+3!) && = T(4)\times(-T(2)+T(5))\times(T(1)+T(3))\\
\\
\mathbf{841} &:= 1!-3!\times 6!+5!+7! && = T(1)-(T(3)-T(6)-T(5))\times T(7)\\
\mathbf{846} &:= 3!\times(4!-1!-2!)+6! && = T(3)+T(4)\times(T(1)+T(2))\times T(6)\\
\mathbf{852} &:= -3!\times(6!-2!)+7!+5! && = (T(3)+T(6))\times(T(2)+T(7))+T(5)\\
\mathbf{854} &:= (1!+3!)\times 2!+6!+5! && = -T(1)+(-T(3)+T(2)\times T(6))\times T(5)\\
\mathbf{856} &:= (-1!+5!+4!)\times 3!-2! && = T(1)+T(5)\times(T(4)\times T(3)-T(2))\\
\mathbf{858} &:= (1!+5!+4!-2!)\times 3! && = ((-T(1)+T(5))\times T(4)+T(2))\times T(3)\\
\mathbf{860} &:= 2!+3!\times(5!-1!+4!) && = (-T(2)+T(3)\times T(5)-T(1))\times T(4)\\
\mathbf{861} &:= -1!-2!+4!\times 3!+6! && = (-T(1)+(-T(2)+T(4))\times T(3))\times T(6)\\
\mathbf{863} &:= -1!+3!\times(4!-6!)+7! && = T(1)-T(3)+(T(4)+T(6))\times T(7)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{864} &:= (-1! + 2!) \times 3! \times 4! + 6! && = (T(1) + T(2)) \times (T(3) + T(4) \times T(6)) \\
&:= (3! + 5! \times 2!) \times 4! - 7! && = -T(3) + T(5) \times (T(2) \times T(4) + T(7)) \\
&:= 3! \times (4! + 2! \times 5!) - 6! && = (-T(3) + T(4) \times T(2)) \times (T(5) + T(6)) \\
\\
\mathbf{869} &:= -1! + 3! + 5! + 4! + 6! && = (-T(1) + T(3) \times T(5)) \times T(4) - T(6) \\
\mathbf{870} &:= (-1! + 4! + 2! + 5!) \times 3! && = T(1) \times T(4) \times (-T(2) + T(5) \times T(3)) \\
\mathbf{875} &:= -1! + 6! + 3! \times (2! + 4!) && = (T(1) - T(6) \times T(3)) \times (T(2) - T(4)) \\
\\
\mathbf{876} &:= 2! \times 3! + 4! + 5! + 6! && = (-T(2) + T(3) \times T(4)) \times T(5) + T(6) \\
&:= 3! \times 1! \times (2! + 4!) + 6! && = T(3) \times (-T(1) + (-T(2) + T(4)) \times T(6)) \\
&:= 3! \times 1! \times (2! + 4! + 5!) && = T(3) \times (-T(1) - T(2) + T(4) \times T(5)) \\
\\
\mathbf{882} &:= (1! + 2! + 4!) \times 3! + 6! && = (-T(1) \times T(2) + T(4)) \times T(3) \times T(6) \\
&:= 2! \times 4! + 5! - 3! + 6! && = T(2) + T(4) \times T(5) \times T(3) - T(6) \\
&:= 3! \times (1! + 2! + 4! + 5!) && = (T(3) \times T(1)) \times (-T(2) + T(4) \times T(5)) \\
\\
\mathbf{888} &:= (3! - 1! + 2!) \times 4! + 6! && = T(3) \times (T(1) - (T(2) - T(4)) \times T(6)) \\
&:= 2! \times 4! + (3! + 1!) \times 5! && = T(2) + (T(4) \times T(3) - T(1)) \times T(5) \\
\\
\mathbf{900} &:= 2! \times (4! + 3!) + 5! + 6! && = T(2) \times T(4) \times (-T(3) + T(5) + T(6)) \\
\\
\mathbf{912} &:= (2! + 1!) \times 4! + 5! + 6! && = T(2) \times (-T(1) - T(4) + T(5) \times T(6)) \\
&:= (2! + 3!) \times (6! + 4!) - 7! && = (-T(2) + T(3) + T(6)) \times (T(4) + T(7)) \\
\\
\mathbf{914} &:= (-4! + 1! + 5!) \times 2! + 6! && = -T(4) + (-T(1) + T(5) \times T(2)) \times T(6) \\
\mathbf{918} &:= 2! \times (5! - 4!) + 3! + 6! && = -T(2) + T(5) \times T(4) \times T(3) + T(6) \\
\mathbf{924} &:= 2! \times (3! + 5! - 4!) + 6! && = T(2) + T(3) \times T(5) \times T(4) + T(6) \\
\mathbf{930} &:= -4! - 3! + 2! \times 5! + 6! && = T(4) \times (T(3) \times (-T(2) + T(5)) + T(6)) \\
\mathbf{934} &:= -4! + 2! \times (5! - 1!) + 6! && = T(4) + (T(2) \times T(5) - T(1)) \times T(6) \\
\mathbf{935} &:= -1! - 4! + 5! \times 2! + 6! && = -T(1) \times T(4) + T(5) \times T(2) \times T(6) \\
\mathbf{936} &:= -1! \times 4! + 2! \times 5! + 6! && = T(1) - T(4) + T(2) \times T(5) \times T(6) \\
\mathbf{938} &:= -4! + 2! \times (1! + 5!) + 6! && = -T(4) + T(2) \times (T(1) + T(5) \times T(6)) \\
\mathbf{942} &:= 2! \times 5! + 3! - 4! + 6! && = -T(2) + (-T(5) + T(3) \times T(4)) \times T(6) \\
\mathbf{944} &:= (1! + 5!) \times (2! + 3!) - 4! && = -T(1) + T(5) \times (T(2) + T(3) \times T(4)) \\
\mathbf{946} &:= -(1! - 5! + 3!) \times 2! + 6! && = T(1) + T(5) \times (T(3) - T(2)) \times T(6) \\
\\
\mathbf{948} &:= 2! \times (5! + 3!) - 4! + 6! && = T(2) - (T(5) - T(3) \times T(4)) \times T(6) \\
&:= 2! \times (-3! \times 1! + 5!) + 6! && = (-T(2) + T(3)) \times (T(1) + T(5) \times T(6)) \\
\\
\mathbf{950} &:= (1! - 3! + 5!) \times 2! + 6! && = -T(1) + T(3) + T(5) \times T(2) \times T(6)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{952} &:= -3! - (1! - 5!) \times 2! + 6! && = T(3) + T(1) + T(5) \times T(2) \times T(6) \\
\mathbf{954} &:= -3! + 2! \times 1! \times 5! + 6! && = T(3) + T(2) \times (T(1) + T(5) \times T(6)) \\
\\
\mathbf{960} &:= (3! + 1!) \times 2! \times 5! - 6! && = -T(3) + (T(1) + T(2) \times T(5)) \times T(6) \\
&:= 2! \times 4! \times (3! - 1!) + 6! && = T(2) \times (T(4) + T(3)) \times (-T(1) + T(6)) \\
&:= (2! + 3!) \times (5! + 7!) - 8! && = (T(2) \times T(3) + T(5)) \times T(7) + T(8) \\
&:= -3! \times 6! + 2! \times 5! + 7! && = -T(3) + T(6) \times (T(2) + T(5) + T(7)) \\
&:= 4! \times (3! - 1!) + 5! + 6! && = T(4) \times ((T(3) - T(1)) \times T(5) + T(6)) \\
&:= 2! \times (1! - 3!) \times (4! - 5!) && = (T(2) + T(1)) \times (T(3) + T(4)) \times T(5) \\
\\
\mathbf{966} &:= 1! \times 5! \times 2! + 3! + 6! && = (T(1) - T(5) \times (T(2) - T(3))) \times T(6) \\
\\
\mathbf{972} &:= 2! \times (3! + 5!) \times 1! + 6! && = T(2) \times (-T(3) + T(5) \times (T(1) + T(6))) \\
&:= 2! \times (5! - 3!) + 4! + 6! && = (-T(2) + T(5)) \times (T(3) \times T(4) + T(6)) \\
\\
\mathbf{984} &:= 3! \times 1! \times 4! + 6! + 5! && = T(3) \times (-T(1) + (-T(4) + T(6)) \times T(5)) \\
\\
\mathbf{990} &:= 3! + 2! \times 5! + 4! + 6! && = T(3) \times (-T(2) \times T(5) + T(4) \times T(6)) \\
&:= 5! + 3! \times (1! + 4!) + 6! && = T(5) \times T(3) \times T(1) \times (-T(4) + T(6)) \\
\\
\mathbf{1007} &:= -1! + 2! \times 3! \times 4! + 6! && = -T(1) + T(2) \times (T(3) + T(4)) \times T(6) \\
\\
\mathbf{1008} &:= 1! \times 2! \times 3! \times 4! + 6! && = T(1) \times T(2) \times (T(3) + T(4)) \times T(6) \\
&:= (2! \times 1! \times 4! + 5!) \times 3! && = (T(2) + (T(1) + T(4)) \times T(5)) \times T(3) \\
&:= (4! + 5!) \times 2! \times 3! - 6! && = (-T(4) + T(5) + T(2)) \times T(3) \times T(6) \\
&:= 2! \times (4! \times 1! + 5!) + 6! && = (T(2) \times (T(4) + T(1)) + T(5)) \times T(6) \\
&:= 3! \times (4! \times 2! - 6!) + 7! && = (T(3) \times T(4) - T(2) - T(6)) \times T(7) \\
\\
\mathbf{1009} &:= 1! + 2! \times 3! \times 4! + 6! && = T(1) + T(2) \times (T(3) + T(4)) \times T(6) \\
\\
\mathbf{1020} &:= 3! \times (4! + 1!) \times 2! + 6! && = T(3) \times T(4) \times (-T(1) - T(2) + T(6)) \\
&:= 3! \times ((4! + 1!) \times 2! + 5!) && = T(3) \times T(4) \times (-T(1) + T(2) + T(5)) \\
\\
\mathbf{1056} &:= 2! \times 4! \times (3! + 1!) + 6! && = T(2) \times (T(4) + T(3)) \times (T(1) + T(6)) \\
&:= 2! \times (-5! + 6!) - 3! \times 4! && = (T(2) \times T(5) + T(6)) \times (T(3) + T(4)) \\
\\
\mathbf{1080} &:= (1! - 3!) \times (4! - 2! \times 5!) && = T(1) \times T(3) \times T(4) \times (T(2) + T(5)) \\
&:= 5! \times (3! - 2! - 1!) + 6! && = T(5) \times (T(3) + T(2) \times (T(1) + T(6))) \\
\\
\mathbf{1140} &:= 2! \times (-1! + 5! - 4!) \times 3! && = (T(2) + T(1) + T(5)) \times T(4) \times T(3)
\end{aligned}
$$

$:= 2! \times (-3! - 5! + 6! - 4!)$ $= ((T(2) + T(3)) \times T(5) - T(6)) \times T(4)$
$:= 2! \times (-3! \times (4! + 1!) + 6!)$ $= (T(2) - T(3) \times T(4)) \times (T(1) - T(6))$

1152 $:= 3! \times (2! + 1!) \times 4! + 6!$ $= T(3) \times (T(2) - (T(1) - T(4)) \times T(6))$
$:= 3! \times (5! - 2! \times 4!) + 6!$ $= T(3) \times (-T(5) - T(2) + T(4) \times T(6))$
$:= 2! \times (-3! \times (6! + 4!) + 7!)$ $= T(2) \times (T(3) - T(6) \times (T(4) - T(7)))$

1154 $:= (1! + 6! - 4! - 5!) \times 2!$ $= -T(1) + T(6) \times (T(4) + T(5) \times T(2))$
1164 $:= (1! + 5! - 4!) \times 2! \times 3!$ $= (-T(1) + (T(5) \times (T(4) + T(2)))) \times T(3)$
1170 $:= -3! - 4! + 2! \times (6! - 5!)$ $= (((T(3) \times T(4)) - T(2)) + T(6)) \times T(5)$

1176 $:= -1! \times 4! + 2! \times (-5! + 6!)$ $= (T(1) + T(4) + T(2) \times T(5)) \times T(6)$
$:= (3! + 1!) \times (2! \times 4! + 5!)$ $= T(3) \times (T(1) + (T(2) + T(4)) \times T(5))$

1182 $:= 3! - 4! + 2! \times (6! - 5!)$ $= (T(3) \times T(4) - T(2)) \times T(6) - T(5)$

1188 $:= 1! \times 2! \times (-5! - 3! + 6!)$ $= (-T(1) + T(2) \times T(5)) \times (T(3) + T(6))$
$:= 2! \times (-5! + 3! + 6!) - 4!$ $= (T(2) + T(5)) \times T(3) \times (T(6) - T(4))$

1200 $:= -(3! + 4! + 2!) \times 5! + 7!$ $= -T(3) \times T(4) + T(2) \times T(5) \times T(7)$
$:= (4! - 5!) \times (1! - 3!) + 6!$ $= T(4) \times (T(5) - (T(1) - T(3)) \times T(6))$
$:= 5! \times 1! \times (-2! + 3!) + 6!$ $= T(5) \times (-T(1) + T(2) \times (T(3) + T(6)))$
$:= (4! - (1! + 3!) \times 2!) \times 5!$ $= T(4) \times (-T(1) + T(3) + T(2)) \times T(5)$
$:= 2! \times (-6! \times 3! + 7! - 5!)$ $= ((-T(2) + T(6)) \times T(3) - T(7)) \times T(5)$
$:= 2! \times (6! - (3! - 1!) \times 4!)$ $= (T(2) + T(6)) \times (T(3) - T(1)) \times T(4)$

1212 $:= 2! \times (-5! + 6! - 3!) + 4!$ $= -T(2) + T(5) \times (T(6) + T(3) \times T(4))$
$:= 2! \times 1! \times (-5! + 3! + 6!)$ $= T(2) \times (-T(1) + T(5) \times (T(3) + T(6)))$

1214 $:= (1! + 3! + 6! - 5!) \times 2!$ $= -T(1) + (T(3) + T(6)) \times T(5) \times T(2)$
1218 $:= 2! \times (-5! + 6!) - 3! + 4!$ $= T(2) + T(5) \times (T(6) + T(3) \times T(4))$
1230 $:= 3! + 2! \times (6! - 5!) + 4!$ $= (-T(3) \times (T(2) - T(6)) + T(5)) \times T(4)$
1242 $:= 2! \times (-5! + 4! + 6!) - 3!$ $= -T(2) - T(5) + T(4) \times T(6) \times T(3)$

1248 $:= ((3! - 1!) \times 5! + 4!) \times 2!$ $= T(3) \times (T(1) + T(5)) \times (T(4) + T(2))$
$:= 2! \times (5! + 3! \times 4!) + 6!$ $= T(2) - T(5) + T(3) \times T(4) \times T(6)$

1250 $:= 2! \times (1! + 6! - 5! + 4!)$ $= (T(2) + T(1)) \times T(6) \times T(5) - T(4)$
1260 $:= 2! \times (3! - 5! + 4! + 6!)$ $= (-T(2) - T(3) + T(5)) \times T(4) \times T(6)$
1270 $:= (-4! + 6! - 1!) \times 2! - 5!$ $= T(4) + T(6) \times (T(1) + T(2)) \times T(5)$

Selfie Expressions With Factorial, Fibonacci and Triangular Values,
Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

$$
\begin{aligned}
\mathbf{1272} &:= 2! \times 6! - 4! \times (1! + 3!) && = (T(2) + T(6) \times T(4) - T(1)) \times T(3) \\
&:= 5! - 2! \times (3! \times 4! - 6!) && = T(5) - T(2) + T(3) \times T(4) \times T(6) \\
\\
\mathbf{1278} &:= 2! \times (6! - 4!) + 3! - 5! && = T(2) + T(6) \times T(4) \times T(3) + T(5) \\
\\
\mathbf{1290} &:= -4! - 3! - 5! + 2! \times 6! && = T(4) \times (T(3) \times (T(5) + T(2)) + T(6)) \\
&:= 2! \times 6! - 3! \times (1! + 4!) && = (T(2) + T(6) \times T(3)) \times T(1) \times T(4) \\
&:= 3! \times (5! - 4! - 1!) + 6! && = T(3) \times (T(5) - T(4) \times (T(1) - T(6))) \\
\\
\mathbf{1296} &:= (1! \times 5! - 4!) \times 3! + 6! && = (T(1) + T(5)) \times (T(4) \times T(3) + T(6)) \\
&:= -1! \times 4! \times 3! + 2! \times 6! && = (-T(1) + T(4)) \times T(3) \times (T(2) + T(6)) \\
&:= (3! - 2!) \times (4! + 5!) + 6! && = T(3) \times ((T(2) + T(4)) \times T(5) + T(6)) \\
\\
\mathbf{1302} &:= (1! - 4!) \times 3! + 2! \times 6! && = (-T(1) + T(4) \times T(3) + T(2)) \times T(6) \\
&:= -4! + 3! - 5! + 2! \times 6! && = (-T(4) + T(3) \times (T(5) - T(2))) \times T(6) \\
\\
\mathbf{1308} &:= (5! + 2! - 4!) \times 3! + 6! && = -T(5) + (T(2) + T(4) \times T(3)) \times T(6) \\
\\
\mathbf{1320} &:= (-2! + 1! + 3!) \times 5! + 6! && = T(2) \times (-T(1) + (T(3) + T(5)) \times T(6)) \\
&:= -5! \times (1! + 3! + 4!) + 7! && = T(5) \times T(1) \times (T(3) \times T(4) + T(7)) \\
&:= 5! \times (-3! + 4! - 1!) - 6! && = T(5) \times (-T(3) + T(4)) \times (T(1) + T(6)) \\
\\
\mathbf{1322} &:= (-1! + 3!) \times 5! + 2! + 6! && = -T(1) + (T(3) + T(5)) \times T(2) \times T(6) \\
\mathbf{1324} &:= (-1! + 6!) \times 2! + 3! - 5! && = T(1) + T(6) \times T(2) \times (T(3) + T(5)) \\
\mathbf{1326} &:= 2! \times 1! \times 6! + 3! - 5! && = T(2) \times (T(1) + T(6) \times (T(3) + T(5))) \\
\mathbf{1338} &:= -5! - 3! + 4! + (2! \times 6!) && = T(5) + (T(3) \times T(4) + T(2)) \times T(6) \\
\mathbf{1344} &:= (3! - 1!) \times 5! + 4! + 6! && = T(3) \times (-T(1) + T(5) + T(4) \times T(6)) \\
\mathbf{1350} &:= 3! + 4! - 5! + 2! \times 6! && = (T(3) \times T(4) + T(5)) \times (-T(2) + T(6)) \\
\\
\mathbf{1380} &:= (4! + 3! + 6!) \times 2! - 5! && = T(4) \times (T(3) \times T(6) - T(2) + T(5)) \\
&:= 1! \times 2! \times (6! - 3! - 4!) && = (-T(1) + T(2) + T(6)) \times T(3) \times T(4) \\
\\
\mathbf{1392} &:= -(2! + 5!) \times 4! + 3! \times 6! && = (T(2) - T(5)) \times (T(4) - T(3) \times T(6)) \\
\mathbf{1404} &:= 2! \times 1! \times (-4! + 6! + 3!) && = (T(2) + (T(1) + T(4)) \times T(6)) \times T(3) \\
\\
\mathbf{1410} &:= -(5! + 1!) \times (4! + 3!) + 7! && = T(5) \times ((T(1) + T(4)) \times T(3) + T(7)) \\
&:= -4! + (5! - 1!) \times 3! + 6! && = T(4) \times (T(5) \times T(1) + T(3) \times T(6)) \\
\\
\mathbf{1416} &:= 2! \times (7! - 3! \times 6!) - 4! && = T(2) \times (T(7) - T(3)) \times T(6) + T(4)
\end{aligned}
$$

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$$
\begin{aligned}
\mathbf{1428} &:= 3! \times (5! - 2! - 6!) + 7! && = (T(3) \times (T(5) - T(2)) - T(6)) \times T(7) \\
&:= 2! \times (-(1! + 6!) \times 3! + 7!) && = (T(2) - T(1)) \times T(6) \times (T(3) + T(7)) \\
\\
\mathbf{1430} &:= (1! + 3! + 6!) \times 2! - 4! && = (-T(1) + T(3) \times (T(6) + T(2))) \times T(4) \\
\mathbf{1438} &:= -(4! + 3!) \times 5! - 2! + 7! && = T(4) + (T(3) + T(5) \times T(2)) \times T(7) \\
\\
\mathbf{1440} &:= (-2! \times 3! + 4! \times 1!) \times 5! && = (T(2) + T(3)) \times T(4) \times (T(1) + T(5)) \\
&:= (2! \times 4! + 3!) \times 5! - 7! && = T(2) \times (T(4) \times T(3) + T(5) \times T(7)) \\
&:= -(2! \times 4! + 3!) \times 6! + 8! && = (T(2) + T(4) + T(3) + T(6)) \times T(8) \\
&:= 3! \times 5! \times (2! + 1!) - 6! && = T(3) \times (T(5) - T(2)) \times (-T(1) + T(6)) \\
&:= 4! \times 2! \times 5! - 3! \times 6! && = T(4) \times (T(2) + T(5) + T(3) \times T(6)) \\
&:= -2! \times 6! + 4! \times 1! \times 5! && = T(2) \times (T(6) + T(4) + T(1)) \times T(5) \\
&:= -3! \times (2! \times 6! + 7!) + 8! && = (-T(3) - T(2) + T(6) + T(7)) \times T(8) \\
\\
\mathbf{1450} &:= (-1! - 3! + 6!) \times 2! + 4! && = (T(1) + T(3) \times (T(6) + T(2))) \times T(4) \\
\\
\mathbf{1452} &:= (2! + 5! - 6!) \times 3! + 7! && = (T(2) \times T(5) + T(6)) \times (-T(3) + T(7)) \\
&:= 3! \times (5! - 2!) + 6! + 4! && = T(3) \times ((T(5) - T(2)) \times T(6) - T(4)) \\
&:= 2! \times ((1! - 6!) \times 3! + 7!) && = T(2) \times (T(1) + T(6)) \times (-T(3) + T(7)) \\
\\
\mathbf{1464} &:= (-3! \times 6! + 7!) \times 2! + 4! && = -T(3) + (T(6) + T(7)) \times T(2) \times T(4) \\
&:= 3! \times (5! - 6!) + 4! + 7! && = T(3) \times (-T(5) - T(6) + T(4) \times T(7)) \\
\\
\mathbf{1470} &:= -(5! - 1!) \times (3! + 4!) + 7! && = T(5) \times ((T(1) + T(3)) \times T(4) + T(7)) \\
\mathbf{1488} &:= 2! \times (-3! \times 6! + 7! + 4!) && = T(2) \times (T(3) + (T(6) + T(7)) \times T(4)) \\
\\
\mathbf{1500} &:= -((3! + 4!) \times (5! - 2!)) + 7! && = (T(3) - T(4)) \times T(5) \times (T(2) - T(7)) \\
&:= 1! \times 2! \times (6! + 3! + 4!) && = (T(1) + T(2) + T(6)) \times T(3) \times T(4) \\
&:= 2! \times (3! \times (1! + 5!) + 4!) && = (T(2) + T(3) + T(1)) \times T(5) \times T(4) \\
\\
\mathbf{1512} &:= 2! \times (6! - 4!) \times 1! + 5! && = T(2) \times T(6) \times (T(4) - T(1) + T(5)) \\
\mathbf{1530} &:= -3! + 5! - 4! + 2! \times 6! && = T(3) \times (T(5) + T(4) \times (T(2) + T(6))) \\
\mathbf{1548} &:= (3! + 6!) \times 2! - 4! + 5! && = T(3) \times (T(6) \times (T(2) + T(4)) - T(5)) \\
\\
\mathbf{1560} &:= (-1! + 3! + 2!) \times 5! + 6! && = (T(1) - T(3)) \times (T(2) - T(5) \times T(6)) \\
&:= (-3! + 1!) \times (6! - 4!) + 7! && = T(3) \times (T(1) - T(6) + T(4) \times T(7)) \\
\\
\mathbf{1572} &:= (-2! + 5! + 4!) \times 3! + 6! && = -T(2) + (T(5) + T(4) \times T(3)) \times T(6) \\
&:= 2! \times (6! + 3!) \times 1! + 5! && = -T(2) + T(6) \times (T(3) - T(1)) \times T(5)
\end{aligned}
$$

$$\mathbf{1578} := 2! \times 6! + 4! - 3! + 5! \qquad = T(2) + T(6) \times (T(4) \times T(3) + T(5))$$

$$\mathbf{1584} := (5! - 6! + 4!) \times 3! + 7! \qquad = (T(5) + T(6)) \times (T(4) + T(3) + T(7))$$
$$:= 1! \times 4! \times 3! + 2! \times 6! \qquad = (T(1) + T(4)) \times T(3) \times (T(2) + T(6))$$

$$\mathbf{1585} := (4! + 5!) \times 3! + 1! + 6! \qquad = T(4) + T(5) \times (T(3) - T(1)) \times T(6)$$
$$\mathbf{1590} := 4! + 5! + 3! + 2! \times 6! \qquad = T(4) \times (T(5) + T(3) \times (T(2) + T(6)))$$
$$\mathbf{1620} := 2! \times (6! + 4! + 3!) + 5! \qquad = (T(2) - T(6)) \times T(4) \times (T(3) - T(5))$$

$$\mathbf{1680} := (2! - 4! - 3!) \times 5! + 7! \qquad = (-T(2) \times T(4) + T(3) \times T(5)) \times T(7)$$
$$:= (2! + 3!) \times (6! + 5!) - 7! \qquad = (-T(2) \times (T(3) - T(6)) + T(5)) \times T(7)$$
$$:= 2! \times (-(1! - 3!) \times 4! + 6!) \qquad = (T(2) - T(1) + T(3)) \times T(4) \times T(6)$$

$$\mathbf{1710} := 3! + 4! + 2! \times (5! + 6!) \qquad = T(3) \times (-T(4) \times T(2) + T(5) \times T(6))$$
$$\mathbf{1722} := -3! + 2! \times (5! + 4! + 6!) \qquad = (T(3) \times (-T(2) + T(5)) + T(4)) \times T(6)$$

$$\mathbf{1728} := 3! \times (4! \times 2! + 5!) + 6! \qquad = (T(3) + T(4)) \times T(2) \times (T(5) + T(6))$$
$$:= 2! \times (7! - (6! - 4!) \times 3!) \qquad = T(2) \times (T(7) \times T(6) - T(4)) - T(3)$$

$$\mathbf{1740} := 2! \times (3! + 6! + 5! + 4!) \qquad = ((T(2) + T(3)) \times T(6) - T(5)) \times T(4)$$
$$\mathbf{1764} := -(2! + 4!) \times (3! + 5!) + 7! \qquad = ((T(2) + T(4)) \times T(3) - T(5)) \times T(7)$$
$$\mathbf{1782} := (2! + 1!) \times (-5! + 6! - 3!) \qquad = (T(2) - (T(1) - T(5)) \times T(6)) \times T(3)$$

$$\mathbf{1800} := (-1! - 2! - 3! + 4!) \times 5! \qquad = (-T(1) + T(2)) \times T(3) \times T(4) \times T(5)$$
$$:= 5! \times (1! + 3! + 2!) + 6! \qquad = T(5) \times (-T(1) + T(3)) \times (T(2) + T(6))$$

$$\mathbf{1818} := (2! + 1!) \times (6! - 5! + 3!) \qquad = (T(2) - (T(1) - T(6)) \times T(5)) \times T(3)$$
$$\mathbf{1890} := -(5! + 3!) \times (1! + 4!) + 7! \qquad = T(5) \times (T(3) + T(1)) \times (-T(4) + T(7))$$
$$\mathbf{1920} := 5! \times 2! \times (-1! + 3!) + 6! \qquad = T(5) \times (T(2) - T(1) + T(3) \times T(6))$$
$$\mathbf{1968} := 2! \times (5! + 6! + 4! \times 3!) \qquad = (T(2) + T(5) \times T(6) + T(4)) \times T(3)$$
$$\mathbf{2040} := (-3! + 2!) \times 6! - 5! + 7! \qquad = T(3) \times (-T(2) + T(6) \times T(5) + T(7))$$
$$\mathbf{2046} := 3! - 5! + (2! + 1!) \times 6! \qquad = (T(3) \times T(5) + T(2)) \times (T(1) + T(6))$$
$$\mathbf{2052} := (-2! + 4!) \times (3! + 5!) - 6! \qquad = (-T(2) + T(4) \times T(3)) \times (T(5) + T(6))$$
$$\mathbf{2064} := 4! \times (-3! + 2! - 5!) + 7! \qquad = (T(4) + T(3)) \times T(2) \times (T(5) + T(7))$$
$$\mathbf{2106} := -3! - (2! + 5!) \times 4! + 7! \qquad = T(3) + T(2) \times (T(5) + T(4)) \times T(7)$$
$$\mathbf{2118} := -(2! + 5!) \times 4! + 7! + 3! \qquad = T(2) \times ((T(5) + T(4)) \times T(7) + T(3))$$

$$\mathbf{2154} := -3! \times 1! + 4! \times 5! - 6! \qquad = T(3) \times (-T(1) + T(4) \times (T(5) + T(6)))$$
$$:= 3! \times (-1! + 5!) + 2! \times 6! \qquad = T(3) \times (-T(1) + T(5) \times (T(2) + T(6)))$$

$$\begin{aligned}
\mathbf{2156} &:= 2! - 4! \times 5! - 3! + 7! && = (-T(2) - T(4) + T(5) \times T(3)) \times T(7)\\
\mathbf{2159} &:= -1! + 5! \times 3! + 2! \times 6! && = -T(1) + T(5) \times T(3) \times (T(2) + T(6))\\
\\
\mathbf{2160} &:= 1! \times 3! \times 5! \times 2! + 6! && = T(1) \times T(3) \times T(5) \times (T(2) + T(6))\\
&:= (1! + 3!) \times 6! - 5! \times 4! && = T(1) \times T(3) \times (T(6) + T(5)) \times T(4)\\
&:= (4! + 3!) \times 5! - 2! \times 6! && = T(4) \times (-T(3) + T(5)) \times (T(2) + T(6))\\
&:= 5! \times (3! + 4!) \times 2! - 7! && = T(5) \times (T(3) \times T(4) + T(2) \times T(7))\\
&:= 5! \times 4! + 3! \times 6! - 7! && = T(5) \times (-T(4) + T(3) \times T(6) + T(7))\\
\\
\mathbf{2161} &:= 1! + 3! \times 5! + 2! \times 6! && = T(1) + T(3) \times T(5) \times (T(2) + T(6))\\
\\
\mathbf{2166} &:= ((3! \times 1!) + (4! \times 5!)) - 6! && = T(3) \times (T(1) + T(4) \times (T(5) + T(6)))\\
&:= (3! \times (1! + 5!)) + (2! \times 6!) && = T(3) \times (T(1) + T(5) \times (T(2) + T(6)))\\
\\
\mathbf{2184} &:= ((-(1! - 5!) + 2!) \times 4!) - 6! && = (-T(1) + T(5) \times (-T(2) + T(4))) \times T(6)\\
&:= (((2! - 1!) - 5!) \times 4!) + 7! && = T(2) \times (T(1) + T(5) + T(4)) \times T(7)\\
&:= (4! - ((3! - 2!) \times 6!)) + 7! && = (T(4) \times T(3) - T(2) + T(6)) \times T(7)\\
\\
\mathbf{2208} &:= 3! \times 5! + 2! \times (6! + 4!) && = T(3) \times ((T(5) + T(2)) \times T(6) - T(4))\\
\mathbf{2268} &:= (2! - 4!) \times (5! + 3!) + 7! && = (T(2) \times (T(4) + T(5)) + T(3)) \times T(7)\\
\mathbf{2280} &:= 5! \times (2! - 1! - 4!) + 7! && = T(5) \times (T(2) + T(1)) \times (T(4) + T(7))\\
\mathbf{2286} &:= 3! + 6! \times (1! + 2!) + 5! && = (T(3) \times T(6) + T(1)) \times (T(2) + T(5))\\
\mathbf{2352} &:= 5! + (1! + 2!) \times (4! + 6!) && = (T(5) + T(1)) \times (-T(2) + T(4)) \times T(6)\\
\\
\mathbf{2394} &:= (4! + 2!) \times 5! - 3! - 6! && = (T(4) \times (-T(2) + T(5)) - T(3)) \times T(6)\\
&:= -3! + 5! \times (2! - 4!) + 7! && = (T(3) + T(5)) \times T(2) \times (T(4) + T(7))\\
\\
\mathbf{2400} &:= (4! + 2!) \times 5! \times 1! - 6! && = T(4) \times (T(2) - T(5)) \times (T(1) - T(6))\\
\mathbf{2448} &:= 2! \times (5! + 4!) \times 3! + 6! && = (T(2) + T(5)) \times (T(4) + T(3) \times T(6))\\
\\
\mathbf{2520} &:= (1! + 2! + 4!) \times 5! - 6! && = (T(1) - T(2) + T(4)) \times T(5) \times T(6)\\
&:= (1! + 2! - 4!) \times 5! + 7! && = (-T(1) - T(2) + T(4)) \times T(5) \times T(7)\\
&:= (2! + 4! - 3! + 1!) \times 5! && = T(2) \times T(4) \times T(3) \times (-T(1) + T(5))\\
&:= (-1! - 2! + 3!) \times (5! + 6!) && = (-T(1) + T(2) + T(3)) \times T(5) \times T(6)\\
\\
\mathbf{2532} &:= (3! - 5!) \times (4! - 2!) + 7! && = T(3) \times (T(5) \times T(4) \times T(2) - T(7))\\
\mathbf{2592} &:= 2! \times (6! - 3! \times (4! - 5!)) && = (T(2) - T(6)) \times (T(3) - T(4) \times T(5))\\
\\
\mathbf{2640} &:= -5! \times (2! + 4! - 3!) + 7! && = (T(5) - T(2)) \times T(4) \times (-T(3) + T(7))
\end{aligned}$$

$$:= 4! \times (-(3! - 1!) \times 2! + 5!) \quad = T(4) \times T(3) \times (-T(1) + T(2) \times T(5))$$

$$\mathbf{2700} := (1! + 4!) \times (-3! \times 2! + 5!) \quad = T(1) \times T(4) \times T(3) \times T(2) \times T(5)$$
$$\mathbf{2710} := -2! + (-3! + 5! - 1!) \times 4! \quad = (T(2) \times T(3) \times T(5) + T(1)) \times T(4)$$
$$\mathbf{2736} := -(3! + 5!) \times 4! + 6! + 7! \quad = T(3) + T(5) \times (T(4) \times T(6) - T(7))$$

$$\mathbf{2760} := -5! \times (4! - 3! + 1!) + 7! \quad = T(5) \times (T(4) + (T(3) \times (T(1) + T(7))))$$
$$:= 4! \times (-3! - 1! + 2! + 5!) \quad = (T(4) \times T(3)) \times (T(1) + (T(2) \times T(5)))$$

$$\mathbf{2844} := -(2! + 5!) \times (4! - 3!) + 7! \quad = (T(2) + T(5)) \times (-T(4) + (T(3) \times T(7)))$$
$$\mathbf{2850} := (4! - 1! + 2!) \times (-3! + 5!) \quad = (T(4) \times (T(1) + (T(2) \times T(3)))) \times T(5)$$

$$\mathbf{2880} := (4! + 3!) \times 1! \times 5! - 6! \quad = T(4) \times (-T(3) + (-T(1) + T(5)) \times T(6))$$
$$:= 1! \times 7! + 6! - 5! \times 4! \quad = (T(1) - T(7) + T(6) \times T(5)) \times T(4)$$
$$:= (2! + 3!) \times 6! - 4! \times 5! \quad = (-T(2) \times T(3) + T(6) \times T(4)) \times T(5)$$
$$:= -3! \times 5! \times (1! + 2!) + 7! \quad = T(3) \times T(5) \times (T(1) + T(2) + T(7))$$
$$:= (-4! + 6!) \times 5! - 2! \times 8! \quad = T(4) \times (T(6) \times (T(5) - T(2)) + T(8))$$
$$:= 2! \times (7! - 3! \times (6! - 5!)) \quad = (T(2) + T(7) \times T(3) + T(6)) \times T(5)$$

$$\mathbf{2928} := 6! + (2! - 5!) \times 4! + 7! \quad = (T(6) + T(2)) \times (T(5) \times T(4) - T(7))$$
$$\mathbf{2976} := (3! - 1!) \times (-5! + 6!) - 4! \quad = T(3) \times (T(1) + T(5)) \times (T(6) + T(4))$$
$$\mathbf{3000} := (4! + 3! + 1!) \times 5! - 6! \quad = T(4) \times (T(3) - (T(1) - T(5)) \times T(6))$$

$$\mathbf{3120} := (4! + 2! + 3!) \times 5! - 6! \quad = T(4) \times (T(2) - T(3) + T(5) \times T(6))$$
$$:= -5! \times (4! - 2!) + 6! + 7! \quad = T(5) \times (T(4) \times (-T(2) + T(6)) + T(7))$$
$$:= 5! \times (2! + 3! - 4!) + 7! \quad = T(5) \times (T(2) \times T(3) \times T(4) + T(7))$$

$$\mathbf{3150} := (2! + 4! - 1!) \times (3! + 5!) \quad = T(2) \times T(4) \times (T(1) + T(3)) \times T(5)$$
$$\mathbf{3168} := 2! \times (3! \times (4! + 5!) + 6!) \quad = T(2) \times T(3) + T(4) \times T(5) \times T(6)$$
$$\mathbf{3240} := 5! \times (4! - 1! - 2!) + 6! \quad = T(5) \times (T(4) - T(1)) \times (T(2) + T(6))$$

$$\mathbf{3360} := -(1! + 3!) \times 2! \times 5! + 7! \quad = (-T(1) + T(3) + T(2)) \times T(5) \times T(7)$$
$$:= 1! \times 5! \times (4! - 2!) + 6! \quad = (-T(1) + T(5)) \times T(4) \times (T(2) + T(6))$$

$$\mathbf{3384} := 4! + 7! - 2! \times (5! + 6!) \quad = (T(4) + T(7) \times T(2)) \times (T(5) + T(6))$$
$$\mathbf{3432} := 4! \times (5! - 3! - 1!) + 6! \quad = (T(4) \times T(5) + T(3)) \times (T(1) + T(6))$$
$$\mathbf{3456} := (1! \times 5! - 3!) \times 4! + 6! \quad = (T(1) + T(5)) \times (T(3) + T(4) \times T(6))$$
$$\mathbf{3480} := -5! + 6! \times 2! \times 3! - 7! \quad = T(5) - (T(6) \times (T(2) - (T(3) \times T(7))))$$
$$\mathbf{3486} := 3! - 5! \times (1! - 4!) + 6! \quad = (T(3) + ((T(5) + T(1)) \times T(4))) \times T(6)$$

$$
\begin{aligned}
\mathbf{3528} &:= -(2! - 5! + 1!) \times 4! + 6! && = (T(2) + (T(5) \times (T(1) + T(4)))) \times T(6) \\
&:= -2! \times (6! - 4!) - 5! + 7! && = (-(T(2) + T(6)) + (T(4) \times T(5))) \times T(7) \\
&:= -2! \times (4! + 6!) + 3! + 7! && = (T(2) \times T(4)) + ((T(6) \times T(3)) \times T(7))
\end{aligned}
$$

$$
\mathbf{3570} := -3! - 4! - 2! \times 6! + 7! \qquad = T(3) \times (T(4) - T(2) + T(6) \times T(7))
$$

$$
\begin{aligned}
\mathbf{3576} &:= -3! \times 5! - 4! - 6! + 7! && = T(3) + T(5) \times (T(4) \times T(6) + T(7)) \\
&:= 4! \times (5! + 1! - 2!) + 6! && = (T(4) \times T(5) - T(1)) \times (T(2) + T(6))
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{3592} &:= -(1! + 6!) \times 2! - 3! + 7! && = T(1) + T(6) \times (T(2) + T(3) \times T(7)) \\
\mathbf{3599} &:= 1! + 4! \times 5! - 2! + 6! && = -T(1) + T(4) \times T(5) \times (T(2) + T(6))
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{3600} &:= ((-1! + 2!) \times 3! + 4!) \times 5! && = (T(1) + T(2)) \times T(3) \times T(4) \times T(5) \\
&:= -(3! - 4!) \times 5! + 2! \times 6! && = T(3) \times (T(4) + T(5)) \times (T(2) + T(6)) \\
&:= 4! \times 5! \times (1! + 2!) - 7! && = T(4) \times T(5) \times (-T(1) - T(2) + T(7)) \\
&:= 4! \times 5! \times (2! - 1!) + 6! && = T(4) \times T(5) \times (T(2) \times T(1) + T(6))
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{3601} &:= -1! + 4! \times 5! + 2! + 6! && = T(1) + T(4) \times T(5) \times (T(2) + T(6)) \\
\mathbf{3606} &:= 3! \times (-5! + 1!) - 6! + 7! && = T(3) \times (-T(5) + (T(1) + T(6)) \times T(7)) \\
\mathbf{3611} &:= -1! + 2! \times (3! - 6!) + 7! && = -T(1) + (T(2) + T(3) \times T(6)) \times T(7)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{3612} &:= (1! \times 3! - 6!) \times 2! + 7! && = (T(1) \times T(3) \times T(6) + T(2)) \times T(7) \\
&:= (2! - 5!) \times 3! - 6! + 7! && = ((T(2) + T(5)) \times T(3) + T(6)) \times T(7) \\
&:= -(3! + 6!) \times 2! + 4! + 7! && = T(3) \times (T(6) \times T(2) \times T(4) - T(7))
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{3613} &:= 1! - (6! - 3!) \times 2! + 7! && = T(1) + (T(6) \times T(3) + T(2)) \times T(7) \\
\mathbf{3624} &:= 4! \times (5! - 1! + 2!) + 6! && = (T(4) \times T(5) + T(1)) \times (T(2) + T(6)) \\
\mathbf{3654} &:= (2! + 5!) \times 4! + 3! + 6! && = ((T(2) + T(5)) \times T(4) - T(3)) \times T(6) \\
\mathbf{3696} &:= -2! \times 6! - 4! + 5! + 7! && = (T(2) - T(6) + T(4) \times T(5)) \times T(7) \\
\mathbf{3720} &:= (3! + 1! - 2!) \times (6! + 4!) && = T(3) \times (-T(1) + T(2) \times T(6)) \times T(4)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{3744} &:= 3! \times (4! - 5!) + 7! - 6! && = T(3) + (T(4) \times T(5) + T(7)) \times T(6) \\
&:= 3! \times (4! - 5! \times 2!) + 7! && = -T(3) + (T(4) \times T(5) \times (-T(2) + T(7)))
\end{aligned}
$$

$$
\mathbf{3770} := (4! + 1!) \times (2! + 5!) + 6! \qquad = T(4) \times (-T(1) + (T(2) + T(5)) \times T(6))
$$

$$
\begin{aligned}
\mathbf{3840} &:= 1! \times 5! \times (4! + 2!) + 6! && = (T(1) + T(5)) \times T(4) \times (T(2) + T(6)) \\
&:= (3! - 1!) \times (6! + 2! \times 4!) && = T(3) \times (T(1) + T(6) \times T(2)) \times T(4)
\end{aligned}
$$

$$
\mathbf{3846} := -2! \times (6! - 5!) + 3! + 7! \qquad = T(2) + T(6) \times (T(5) + T(3) \times T(7))
$$

$$\begin{aligned}
\mathbf{3864} &:= 2! \times (5! - 6!) + 4! + 7! && = T(2) \times (T(5) + T(6) + T(4)) \times T(7)\\
\\
\mathbf{3888} &:= 2! \times (5! - 6! + 4!) + 7! && = T(2) - T(5) \times (T(6) - T(4) \times T(7))\\
&:= 3! \times (6! + 4! \times 2! - 5!) && = (T(3) + T(6) \times T(4)) \times (T(2) + T(5))\\
\\
\mathbf{4032} &:= -(1! + 3!) \times (4! + 5!) + 7! && = (-T(1) \times T(3) + T(4) \times T(5)) \times T(7)\\
&:= 2! \times ((5! - 3!) \times 4! - 6!) && = (-T(2) + T(5)) \times (T(3) + T(4)) \times T(6)\\
\\
\mathbf{4050} &:= (-1! - 4! + 6!) \times 3! - 5! && = T(1) \times T(4) \times (T(6) + T(3)) \times T(5)\\
\\
\mathbf{4104} &:= -2! \times 5! - 6! + 4! + 7! && = T(2) \times (T(5) + T(6)) \times (T(4) + T(7))\\
&:= -(3! + 2!) \times 5! + 4! + 7! && = T(3) \times (T(2) + T(5)) \times (T(4) + T(7))\\
\\
\mathbf{4158} &:= 3! \times (-1! - 4! - 2! + 6!) && = T(3) \times (T(1) + T(4)) \times T(2) \times T(6)\\
\mathbf{4164} &:= 7! - (5! + 2! + 4!) \times 3! && = (T(7) \times T(5) - T(2)) \times T(4) - T(3)\\
\mathbf{4175} &:= -1! + 7! - 3! \times (4! + 5!) && = (-T(1) + T(7) \times T(3)) \times (T(4) + T(5))\\
\mathbf{4176} &:= -3! \times (5! + 4!) \times 1! + 7! && = (-T(3) + T(5) \times T(4)) \times (T(1) + T(7))\\
\\
\mathbf{4200} &:= (1! - 2! - 3!) \times 5! + 7! && = (T(1) + T(2) + T(3)) \times T(5) \times T(7)\\
&:= (4! + 3! - 1!) \times 5! + 6! && = T(4) \times (T(3) - T(1) + T(5)) \times T(6)\\
&:= 4! \times (1! - 3!) - 6! + 7! && = T(4) \times T(1) \times (-T(3) + T(6)) \times T(7)\\
&:= -(5! + 7!) \times (1! + 3!) + 8! && = T(5) \times (T(7) + (T(1) + T(3)) \times T(8))\\
\\
\mathbf{4218} &:= -3! - 5! - 6! + 4! + 7! && = (T(3) \times T(5) + T(6)) \times (T(4) + T(7))\\
\\
\mathbf{4284} &:= -2! \times 3! - 4! - 6! + 7! && = T(2) \times T(3) \times (T(4) \times T(6) + T(7))\\
&:= -3! \times (2! + 5!) - 4! + 7! && = (T(3) - T(2) + T(5) \times T(4)) \times T(7)\\
\\
\mathbf{4290} &:= -(1! + 5!) \times 3! - 4! + 7! && = T(1) \times T(5) \times (T(3) + T(4) \times T(7))\\
\\
\mathbf{4320} &:= 1! \times 5! \times (4! + 3!) + 6! && = (T(1) + T(5)) \times T(4) \times (T(3) + T(6))\\
&:= 2! \times (7! + 8!) - 5! \times 6! && = (T(2) \times T(7) + T(8)) \times (T(5) + T(6))\\
&:= 2! \times 1! \times (7! - 5! \times 4!) && = (-T(2) + (T(1) + T(7)) \times T(5)) \times T(4)\\
&:= 5! \times (-3! + 4! \times 2!) - 6! && = T(5) \times (T(3) + T(4)) \times (-T(2) + T(6))\\
\\
\mathbf{4344} &:= -3! \times 5! + 4! \times 1! + 7! && = -T(3) + T(5) \times T(4) \times (T(1) + T(7))\\
\mathbf{4350} &:= 3! - 6! + 4! \times 1! + 7! && = (-T(3) + T(6)) \times T(4) \times (T(1) + T(7))\\
\\
\mathbf{4368} &:= (1! + 3!) \times (4! - 5!) + 7! && = (T(1) \times T(3) + T(4) \times T(5)) \times T(7)\\
&:= 2! \times (4! \times (1! + 5!) - 6!) && = (T(2) + T(4)) \times (T(1) + T(5)) \times T(6)
\end{aligned}$$

$$\begin{aligned}
\mathbf{4410} &:= -3! + 5! - 4! - 6! + 7! && = (-T(3) + T(5)) \times T(4) \times (T(6) + T(7)) \\
\mathbf{4428} &:= -3! \times 2! + 5! - 6! + 7! && = T(3) \times (T(2) + T(5) \times (T(6) + T(7)))
\end{aligned}$$

$$\begin{aligned}
\mathbf{4452} &:= -(2! - 4!) \times 3! - 6! + 7! && = (T(2) \times T(4) \times T(3) - T(6)) \times T(7) \\
&:= 3! \times 2! - 6! + 5! + 7! && = (T(3) \times (T(2) + T(6)) + T(5)) \times T(7) \\
&:= 3! \times (4! - 5! - 2!) + 7! && = (T(3) + T(4) \times T(5) + T(2)) \times T(7)
\end{aligned}$$

$$\begin{aligned}
\mathbf{4464} &:= (4! + 5!) \times (-3! + 2!) + 7! && = (T(4) \times T(5) - T(3)) \times (T(2) + T(7)) \\
\mathbf{4470} &:= 3! + 4! + 5! - 6! + 7! && = T(3) \times (T(4) + T(5) \times (T(6) + T(7))) \\
\mathbf{4512} &:= 2! \times (5! - 4!) + 7! - 6! && = -T(2) + T(5) \times (T(4) \times T(7) + T(6)) \\
\mathbf{4536} &:= 2! \times 5! - 6! - 4! + 7! && = (T(2) - T(5)) \times T(6) \times (T(4) - T(7)) \\
\mathbf{4656} &:= -3! \times 4! - 5! \times 2! + 7! && = T(3) + T(4) \times T(5) \times (T(2) + T(7)) \\
\mathbf{4740} &:= -(5! + 3! + 4!) \times 2! + 7! && = T(5) \times (T(3) + T(4) \times (T(2) + T(7))) \\
\mathbf{4770} &:= -3! - 2! \times 5! - 4! + 7! && = T(3) \times T(2) \times (-T(5) + T(4) \times T(7)) \\
\mathbf{4836} &:= -(3! - 4! + 5!) \times 2! + 7! && = (T(3) + T(4) \times T(5)) \times (T(2) + T(7)) \\
\mathbf{4860} &:= 2! \times (3! - 5! + 4!) + 7! && = T(2) \times T(3) \times T(5) \times (-T(4) + T(7))
\end{aligned}$$

$$\begin{aligned}
\mathbf{4872} &:= -3! \times 4! \times 2! + 5! + 7! && = (-T(3) + T(4) \times (T(2) + T(5))) \times T(7) \\
&:= (-3! + 1! - 2!) \times 4! + 7! && = T(3) \times (-T(1) + T(2) \times T(4)) \times T(7)
\end{aligned}$$

$$\begin{aligned}
\mathbf{4932} &:= -5! - 2! \times 3! + 4! + 7! && = (T(5) + T(2)) \times (-T(3) + T(4) \times T(7)) \\
\mathbf{4950} &:= 4! - 5! \times 1! + 3! + 7! && = T(4) \times T(5) \times (-T(1) + T(3) + T(7))
\end{aligned}$$

$$\begin{aligned}
\mathbf{4980} &:= (4! + 3!) \times 2! - 5! + 7! && = T(4) \times (-T(3) + (T(2) + T(5)) \times T(7)) \\
&:= 1! \times 7! - 2! \times (3! + 4!) && = (-T(1) + T(7) \times T(2)) \times T(3) \times T(4)
\end{aligned}$$

$$\begin{aligned}
\mathbf{5010} &:= -4! \times (2! - 1!) - 3! + 7! && = T(4) \times T(2) \times (-T(1) + T(3) \times T(7)) \\
\mathbf{5012} &:= 1! \times 2! - 3! - 4! + 7! && = (-T(1) + T(2) \times T(3) \times T(4)) \times T(7) \\
\mathbf{5022} &:= 3! \times (2! - 1!) - 4! + 7! && = T(3) \times T(2) \times (-T(1) + T(4) \times T(7)) \\
\mathbf{5030} &:= -4! + (1! + 3!) \times 2! + 7! && = T(4) \times (-T(1) + T(3) \times T(2) \times T(7)) \\
\mathbf{5034} &:= 3! \times (1! + 2!) - 4! + 7! && = T(3) \times (-T(1) + T(2) \times T(4) \times T(7))
\end{aligned}$$

$$\begin{aligned}
\mathbf{5040} &:= -(2! \times 4! + 1!) \times 6! + 8! && = (T(2) - T(4)) \times (T(1) - T(6)) \times T(8) \\
&:= (1! + 6! - 3! \times 5!) \times 7! && = (T(1) - T(6)) \times (T(3) - T(5)) \times T(7) \\
&:= 2! \times (3! + 1!) \times 6! - 7! && = (T(2) + T(3)) \times (-T(1) + T(6)) \times T(7) \\
&:= 2! \times (4! - 3!) \times 5! + 6! && = T(2) \times (-T(4) + T(3) \times T(5)) \times T(6) \\
&:= 2! \times (5! + 6!) \times 3! - 7! && = (T(2) - T(5)) \times (-T(6) + T(3)) \times T(7) \\
&:= 2! \times (7! - 4! \times 5!) + 6! && = T(2) \times T(7) \times T(4) \times (-T(5) + T(6)) \\
&:= -3! \times (7! + 5! + 6!) + 8! && = T(3) \times T(7) \times (T(5) - T(6) + T(8))
\end{aligned}$$

$$\begin{aligned}
\mathbf{5046} &:= -3! \times (1! + 2!) + 4! + 7! && = T(3) \times (T(1) + T(2) \times T(4) \times T(7)) \\
\mathbf{5050} &:= 4! - (1! + 3!) \times 2! + 7! && = T(4) \times (T(1) + T(3) \times T(2) \times T(7)) \\
\mathbf{5058} &:= -3! \times (2! - 1!) + 4! + 7! && = T(3) \times T(2) \times (T(1) + T(4) \times T(7)) \\
\mathbf{5068} &:= 1! \times 3! + 4! - 2! + 7! && = (T(1) + T(3) \times T(4) \times T(2)) \times T(7) \\
\mathbf{5070} &:= 4! \times (2! - 1!) + 3! + 7! && = T(4) \times T(2) \times (T(1) + T(3) \times T(7)) \\
\\
\mathbf{5100} &:= (3! + 4! \times 1!) \times 2! + 7! && = T(3) \times T(4) \times (T(1) + T(2) \times T(7)) \\
&:= -(4! + 3!) \times 2! + 5! + 7! && = T(4) \times (T(3) + (T(2) + T(5)) \times T(7)) \\
\\
\mathbf{5148} &:= 5! + 2! \times 3! - 4! + 7! && = (T(5) + T(2)) \times (T(3) + T(4) \times T(7)) \\
\mathbf{5160} &:= -6! + (1! + 3!) \times 5! + 7! && = (T(6) - T(1)) \times T(3) \times (T(5) + T(7)) \\
\mathbf{5202} &:= 2! \times 4! + 5! - 3! + 7! && = (T(2) + T(4) \times T(5)) \times (T(3) + T(7)) \\
\\
\mathbf{5208} &:= 3! \times 4! \times 2! - 5! + 7! && = (T(3) + T(4) \times (T(2) + T(5))) \times T(7) \\
&:= (3! - 1! + 2!) \times 4! + 7! && = T(3) \times (T(1) + T(2) \times T(4)) \times T(7) \\
\\
\mathbf{5220} &:= (5! - 3! - 4!) \times 2! + 7! && = T(5) \times T(3) \times (T(4) \times T(2) + T(7)) \\
\mathbf{5250} &:= -4! - 3! + 5! \times 2! + 7! && = T(4) \times (T(3) + T(5)) \times (-T(2) + T(7)) \\
\mathbf{5292} &:= 3! \times (4! - 2!) + 5! + 7! && = (-T(3) + (T(4) + T(2)) \times T(5)) \times T(7) \\
\mathbf{5310} &:= 2! \times 5! + 4! + 7! + 3! && = T(2) \times (T(5) + T(4) \times T(7)) \times T(3) \\
\mathbf{5400} &:= (2! + 3! + 1!) \times (6! - 5!) && = T(2) \times T(3) \times (-T(1) + T(6)) \times T(5) \\
\mathbf{5472} &:= 6! - 2! \times 3! \times 4! + 7! && = (T(6) + T(2)) \times T(3) \times (T(4) + T(7)) \\
\mathbf{5544} &:= -2! \times 5! + 4! + 6! + 7! && = (T(2) + T(5)) \times (-T(4) + T(6)) \times T(7) \\
\mathbf{5568} &:= -2! \times (5! - 4!) + 7! + 6! && = T(2) - (T(5) - T(4) \times T(7)) \times T(6) \\
\\
\mathbf{5610} &:= (-1! - 4! + 5!) \times 3! + 7! && = (T(1) + T(4)) \times T(5) \times (T(3) + T(7)) \\
&:= -4! + 6! - 5! - 3! + 7! && = (-T(4) + T(6)) \times T(5) \times (T(3) + T(7)) \\
\\
\mathbf{5615} &:= -5! - 1! + 6! - 4! + 7! && = T(5) - (T(1) - T(6)) \times T(4) \times T(7) \\
\mathbf{5616} &:= -(3! + 6! \times 2!) \times 4! + 8! && = (T(3) \times T(6) + T(2) \times T(4)) \times T(8) \\
\\
\mathbf{5628} &:= (2! - 4!) \times 3! + 6! + 7! && = (T(2) \times T(4) \times T(3) + T(6)) \times T(7) \\
&:= (2! - 4! + 5!) \times 3! + 7! && = ((T(2) + T(4)) \times T(5) + T(3)) \times T(7) \\
\\
\mathbf{5640} &:= -4! \times 2! \times 6! - 5! + 8! && = T(4) \times (T(2) + T(6) + T(5) \times T(8)) \\
\mathbf{5670} &:= 4! + 3! - 5! + 6! + 7! && = T(4) \times (-T(3) - T(5) + T(6) \times T(7)) \\
\mathbf{5700} &:= -(4! + 3!) \times 2! + 6! + 7! && = T(4) \times (-T(3) \times T(2) + T(6) \times T(7)) \\
\\
\mathbf{5712} &:= -2! \times (4! + 8!) + 6! \times 5! && = -T(2) + (T(4) \times T(8) + T(6)) \times T(5)
\end{aligned}$$

$:= -3! \times 6! + 2! \times (-4! + 7!)$ $= T(3) \times (T(6) + T(2) + T(4)) \times T(7)$

5730 $:= -4! - 3! + 6! \times 1! + 7!$ $= T(4) \times (T(3) - T(6) \times (T(1) - T(7)))$
5733 $:= -1! + 7! - 4! - 2! + 6!$ $= ((-T(1) + T(7)) \times T(4) + T(2)) \times T(6)$
5736 $:= -3! \times 4! + 5! + 6! + 7!$ $= T(3) - T(4) \times (T(5) - T(6) \times T(7))$
5754 $:= -3! \times (6! + 7! + 1!) + 8!$ $= T(3) \times (-T(6) + T(7) \times (-T(1) + T(8)))$

5760 $:= -5! \times 3! \times 4! \times 2! + 8!$ $= T(5) \times (-T(3) + T(4) \times (T(2) + T(8)))$
$:= 2! \times 6! \times 3! - 4! \times 5!$ $= (T(2) + T(6)) \times (T(3) + T(4)) \times T(5)$
$:= -3! \times 1! \times (6! + 7!) + 8!$ $= (T(3) \times (T(1) + T(6)) + T(7)) \times T(8)$
$:= 2! \times (6! + 7! - 5! \times 4!)$ $= (T(2) + T(6) \times T(7) - T(5)) \times T(4)$
$:= 3! \times (5! \times 1! \times 2! + 6!)$ $= T(3) \times T(5) \times (T(1) + T(2) \times T(6))$

5784 $:= 4! - (6! + 7!) \times 3! + 8!$ $= T(4) \times (T(6) \times T(7) - T(3)) - T(8)$

5796 $:= 2! \times 3! + 4! + 6! + 7!$ $= (T(2) - T(3) + T(4) \times T(6)) \times T(7)$
$:= (2! + 5!) \times 3! + 4! + 7!$ $= (-T(2) + (T(5) + T(3)) \times T(4)) \times T(7)$

5802 $:= -3! + 2! \times 4! + 6! + 7!$ $= T(3) - (T(2) - T(4) \times T(6)) \times T(7)$
5832 $:= 5! + 6! - 2! \times 4! + 7!$ $= T(5) - T(6) \times (T(2) - T(4) \times T(7))$
5855 $:= -1! + 6! + 7! - 4! + 5!$ $= (-T(1) + T(6) \times T(7)) \times T(4) - T(5)$
5880 $:= 5! + 8! - 3! \times (6! + 7!)$ $= (T(5) + T(8) \times T(3) - T(6)) \times T(7)$

5904 $:= (4! - 6! - 7!) \times 3! + 8!$ $= T(4) \times (T(6) \times T(7) + T(3)) - T(8)$
$:= 2! \times 7! - (6! - 4!) \times 3!$ $= (T(2) + T(7) \times T(6)) \times T(4) - T(3)$

5905 $:= 1! + 6! + 7! + 4! + 5!$ $= (T(1) + T(6) \times T(7)) \times T(4) + T(5)$
5916 $:= 3! \times (4! + 2!) + 6! + 7!$ $= T(3) + T(4) \times (T(2) + T(6) \times T(7))$
5928 $:= 2! \times 4! + 7! + 6! + 5!$ $= (T(2) + T(4) \times T(7)) \times T(6) - T(5)$
6024 $:= 3! \times 4! + 5! + 6! + 7!$ $= -T(3) + T(4) \times (T(5) + T(6) \times T(7))$

6048 $:= 2! \times (4! + 5!) + 6! + 7!$ $= ((T(2) + T(4)) \times T(5) + T(6)) \times T(7)$
$:= 2! \times (-6! + 3!) \times 4! + 8!$ $= T(2) \times T(6) \times (T(3) \times T(4) + T(8))$
$:= 3! \times ((4! + 5!) \times 2! + 6!)$ $= (T(3) + T(4)) \times (T(5) + T(2)) \times T(6)$

6192 $:= 2! \times (6! - 5! - 4!) + 7!$ $= -T(2) + T(6) \times (T(5) + T(4) \times T(7))$
6216 $:= 2! \times (-5! + 6!) - 4! + 7!$ $= (-T(2) + T(5) + T(6) \times T(4)) \times T(7)$
6384 $:= 2! \times 6! + 4! - 5! + 7!$ $= (T(2) + T(6) \times T(4) + T(5)) \times T(7)$
6450 $:= -4! - 3! + 6! \times 2! + 7!$ $= T(4) \times (-T(3) + T(6) \times (T(2) + T(7)))$

$$
\begin{aligned}
\mathbf{6480} &:= (1! - 4! \times 2!) \times 6! + 8! && = T(1) \times T(4) \times (-T(2) + T(6)) \times T(8) \\
&:= 2! \times (3! + 4!) \times 5! - 6! && = T(2) \times T(3) \times T(4) \times (T(5) + T(6)) \\
&:= -2! \times 6! + 5! \times 4! + 7! && = (T(2) + T(6)) \times T(5) \times (-T(4) + T(7)) \\
&:= (3! + 6!) \times 5! - 2! \times 8! && = (T(3) - T(6)) \times (-T(5) + T(2)) \times T(8)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{6510} &:= 4! + 6! \times 2! + 3! + 7! && = T(4) \times T(6) \times (-T(2) + T(3) + T(7)) \\
\mathbf{6516} &:= -(3! - 4! - 6!) \times 2! + 7! && = T(3) + T(4) \times T(6) \times (T(2) + T(7)) \\
\mathbf{6720} &:= (1! \times 6! + 5!) \times 2! + 7! && = (T(1) - T(6)) \times (-T(5) + T(2)) \times T(7)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{7056} &:= -(3! - 5!) \times 4! - 6! + 7! && = (-T(3) + T(5) \times T(4)) \times (T(6) + T(7)) \\
&:= 4! \times (-3! + 6!) - 2! \times 7! && = (T(4) - T(3)) \times T(6) \times T(2) \times T(7)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{7200} &:= 4! \times 5! - 6! \times 1! + 7! && = T(4) \times T(5) \times (T(6) - T(1) + T(7)) \\
&:= 4! \times 6! + 3! \times 7! - 8! && = T(4) \times ((T(6) + T(3)) \times T(7) - T(8)) \\
&:= 3! \times (4! \times 5! + 7!) - 8! && = T(3) \times T(4) \times T(5) \times (-T(7) + T(8))
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{7344} &:= (3! + 5!) \times 4! - 6! + 7! && = -T(3) + T(5) \times T(4) \times (T(6) + T(7)) \\
\mathbf{7440} &:= 5! \times (4! - 3! + 2!) + 7! && = T(5) \times (T(4) + T(3)) \times (T(2) + T(7))
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{7560} &:= (1! + 2!) \times (6! + 5!) + 7! && = (-T(1) \times T(2) + T(6)) \times T(5) \times T(7) \\
&:= (1! + 2! + 3!) \times (5! + 6!) && = (T(1) + T(2)) \times T(3) \times T(5) \times T(6)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{7920} &:= (4! \times 5! - 6!) \times 3! - 7! && = T(4) \times (T(5) + T(6)) \times (-T(3) + T(7)) \\
&:= 2! \times (6! + 5! \times 3!) + 7! && = (T(2) + T(6)) \times T(5) \times (-T(3) + T(7))
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{8400} &:= (-1! \times 5! - 6! + 7!) \times 2! && = (T(1) + T(5)) \times T(6) \times (T(7) - T(2)) \\
&:= (4! - 2!) \times 5! + 7! + 6! && = T(4) \times (-T(2) + T(5) - T(7)) \times T(6) \\
&:= 5! \times (3! + 4! - 2!) + 7! && = (T(5) \times T(3) + T(4)) \times T(2) \times T(7)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{8520} &:= 6! \times (-1! + 3!) - 5! + 7! && = (T(6) - T(1)) \times (T(3) + T(5) \times T(7)) \\
\mathbf{8616} &:= 3! \times (6! - 5!) + 7! - 4! && = T(3) + T(6) \times (T(5) \times T(7) - T(4))
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{8640} &:= -(2! \times 5! + 7!) \times 3! + 8! && = (-T(2) + T(5) + T(7)) \times T(3) \times T(8) \\
&:= (4! + 6!) \times 5! - 2! \times 8! && = T(4) \times (-T(6) + T(5) \times T(2)) \times T(8)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{8664} &:= -3! \times (5! - 6!) + 7! + 4! && = -T(3) + T(5) \times (T(6) \times T(7) - T(4)) \\
\mathbf{8760} &:= 5! \times 1! - 2! \times (6! - 7!) && = T(5) \times (-T(1) - T(2) + T(6) \times T(7)) \\
\mathbf{8880} &:= 1! \times 2! \times (-6! + 7! + 5!) && = (T(1) + T(2) + T(6) \times T(7)) \times T(5) \\
\mathbf{8882} &:= (1! - 6! + 5! + 7!) \times 2! && = -T(1) + T(6) \times (T(5) \times T(7) + T(2)) \\
\mathbf{9072} &:= (2! \times (6! - 4!) + 5!) \times 3! && = T(2) \times T(6) \times (T(4) \times T(5) - T(3))
\end{aligned}
$$

$$\begin{aligned}
\mathbf{9216} &:= -3! \times (4! + 5! + 7!) + 8! && = (-T(3) + T(4) \times T(5)) \times (T(7) + T(8)) \\
\mathbf{9234} &:= 3! \times (6! - 1!) - 5! + 7! && = -T(3) + (T(6) + T(1)) \times T(5) \times T(7) \\
\mathbf{9240} &:= 3! \times 6! \times 1! - 5! + 7! && = (-T(3) + T(6) \times (T(1) + T(5))) \times T(7) \\
\mathbf{9246} &:= 3! \times (1! + 6!) - 5! + 7! && = T(3) + (T(1) + T(6)) \times T(5) \times T(7) \\
\mathbf{9324} &:= -(2! - 6!) \times 3! - 4! + 7! && = (-T(2) + T(6) \times (T(3) + T(4))) \times T(7) \\
\mathbf{9360} &:= (4! - 3! + 2!) \times 6! - 7! && = (T(4) + T(3)) \times (-T(2) + T(6) \times T(7)) \\
\mathbf{9492} &:= 3! \times (4! + 6! - 2!) + 7! && = ((T(3) + T(4)) \times T(6) + T(2)) \times T(7) \\
\mathbf{9504} &:= (4! - 7! - 5!) \times 3! + 8! && = ((-T(4) + T(7)) \times T(5) - T(3)) \times T(8) \\
\mathbf{9576} &:= 2! \times (5! + 7!) - 4! - 6! && = (-T(2) + T(5)) \times (T(7) + T(4)) \times T(6) \\
\mathbf{9900} &:= 2! \times (4! - 5! + 3! + 7!) && = T(2) \times T(4) \times T(5) \times (-T(3) + T(7)) \\
\\
\mathbf{9936} &:= -(1! \times 7! + 4!) \times 3! + 8! && = (-(T(1) - T(7)) \times T(4) + T(3)) \times T(8) \\
&:= 8! - 5! - 4! - 7! \times 3! && = T(8) \times (-T(5) \times (T(4) - T(7)) + T(3)) \\
\\
\mathbf{9984} &:= 4! - 5! - 3! \times 7! + 8! && = (T(4) \times T(5) + T(3)) \times (T(7) + T(8)) \\
\mathbf{10044} &:= -3! \times (2! + 7!) + 8! - 4! && = -T(3) + (-T(2) + T(7) \times T(8)) \times T(4) \\
\mathbf{10050} &:= -3! \times (1! + 7!) - 4! + 8! && = T(3) - (T(1) - T(7) \times T(4)) \times T(8) \\
\\
\mathbf{10080} &:= (1! - 2!) \times 3! \times 7! + 8! && = (T(1) + T(2) + T(3)) \times T(7) \times T(8) \\
&:= (2! \times 4! - 3!) \times 5! + 7! && = (T(2) \times T(4) - T(3)) \times T(5) \times T(7) \\
&:= (2! + 3! - 1!) \times 6! + 7! && = T(2) \times T(3) \times (-T(1) + T(6)) \times T(7) \\
&:= (2! + 6! - 3! \times 5!) \times 7! && = (-T(2) + T(6) + T(3)) \times T(5) \times T(7) \\
&:= (-3! + 4!) \times (5! + 6!) - 7! && = T(3) \times T(4) \times (-T(5) + T(6)) \times T(7) \\
&:= 6! \times (-2! \times 4! + 3!) + 8! && = (T(6) + T(2)) \times T(4) \times (T(3) + T(8)) \\
\\
\mathbf{10110} &:= 3! \times (1! - 7!) + 4! + 8! && = -T(3) + (T(1) + T(7) \times T(4)) \times T(8) \\
\mathbf{10116} &:= 3! \times (2! - 7!) + 8! + 4! && = T(3) + (T(2) + T(7) \times T(8)) \times T(4) \\
\\
\mathbf{10224} &:= (-1! \times 7! + 4!) \times 3! + 8! && = ((T(1) + T(7)) \times T(4) - T(3)) \times T(8) \\
&:= -3! \times 7! + 8! + 5! + 4! && = -T(3) + (T(7) \times T(8) + T(5)) \times T(4) \\
\\
\mathbf{10260} &:= 2! \times (-3! + 5! - 4! + 7!) && = T(2) \times T(3) \times T(5) \times (T(4) + T(7)) \\
\mathbf{10674} &:= -3! - 5! + 6! + 2! \times 7! && = T(3) \times (T(5) + T(6) \times T(2) \times T(7)) \\
\mathbf{10692} &:= -5! + 2! \times (3! + 7!) + 6! && = (T(5) + T(2)) \times (T(3) + T(7) \times T(6)) \\
\mathbf{10764} &:= 2! \times (3! - 4! + 7!) + 6! && = T(2) \times T(3) \times (T(4) + T(7) \times T(6)) \\
\mathbf{10800} &:= 1! \times 6! - 7! \times 3! + 8! && = (T(1) + T(6) + T(7)) \times T(3) \times T(8) \\
\\
\mathbf{10920} &:= (4! - 2!) \times 6! + 5! - 7! && = T(4) \times (T(2) + T(6) + T(5)) \times T(7) \\
&:= (1! + 3!) \times (6! + 5!) + 7! && = (-T(1) + T(3) + T(6)) \times T(5) \times T(7)
\end{aligned}$$

$$\begin{aligned}
\mathbf{11400} &:= -5! + 6! \times (-1! + 4!) - 7! && = T(5) \times (T(6) - T(1)) \times (T(4) + T(7)) \\
\mathbf{11976} &:= (-3! + 6!) \times 4! - 7! - 5! && = T(3) + T(6) \times (T(4) + T(7)) \times T(5)
\end{aligned}$$

$$\begin{aligned}
\mathbf{12240} &:= 4! \times 5! + 6! \times 3! + 7! && = T(4) \times (T(5) + T(6)) \times (T(3) + T(7)) \\
&:= 6! + 2! \times (5! \times 3! + 7!) && = (T(6) + T(2)) \times T(5) \times (T(3) + T(7))
\end{aligned}$$

$$\begin{aligned}
\mathbf{12600} &:= (1! + 2! - 4!) \times (5! - 6!) && = (T(1) + T(2)) \times T(4) \times T(5) \times T(6) \\
\mathbf{12960} &:= -3! \times 7! + 4! \times 5! + 8! && = (T(3) + T(7) - T(4)) \times T(5) \times T(8) \\
\mathbf{13104} &:= (3! + 5!) \times 4! + 2! \times 7! && = (T(3) + T(5) \times T(4)) \times T(2) \times T(7) \\
\mathbf{13440} &:= (4! - 2!) \times (6! + 5!) - 7! && = T(4) \times (T(2) \times T(6) - T(5)) \times T(7) \\
\mathbf{13680} &:= 5! \times 4! + 7! \times 2! + 6! && = T(5) \times (T(4) + T(7)) \times (T(2) + T(6))
\end{aligned}$$

$$\begin{aligned}
\mathbf{15120} &:= (-2! + 4!) \times 3! \times 5! - 6! && = T(2) \times (T(4) + T(3)) \times T(5) \times T(6) \\
&:= (2! - 1! - 3!) \times 7! + 8! && = T(2) \times (-T(1) + T(3)) \times T(7) \times T(8) \\
&:= -(4! + 3!) \times (5! + 6!) + 8! && = T(4) \times (T(3) + T(5) + T(6)) \times T(8) \\
&:= 3! \times (5! + 6! - 7!) + 8! && = T(3) \times T(5) \times T(6) \times (-T(7) + T(8))
\end{aligned}$$

$$\begin{aligned}
\mathbf{15840} &:= 6! + (1! - 3!) \times 7! + 8! && = (T(6) - T(1)) \times (-T(3) + T(7)) \times T(8) \\
\mathbf{16560} &:= -(2! + 4!) \times 6! - 7! + 8! && = T(2) \times T(4) \times (T(6) \times T(7) - T(8))
\end{aligned}$$

$$\begin{aligned}
\mathbf{17280} &:= (2! - 3!) \times 5! \times 6! + 9! && = T(2) \times T(3) \times (T(5) + T(6) \times T(9)) \\
&:= -(4! + 1!) \times 6! - 7! + 8! && = T(4) \times (-T(1) + T(6) + T(7)) \times T(8) \\
&:= -4! \times (5! \times 2! + 6!) + 8! && = T(4) \times (-T(5) + T(2) \times T(6)) \times T(8) \\
&:= 9! - 3! \times (4! \times 6! + 8!) && = (T(9) \times T(3) + T(4) \times T(6)) \times T(8)
\end{aligned}$$

$$\mathbf{17640} := (1! + 2!) \times (6! + 5! + 7!) \quad = (-T(1) + T(2)) \times T(6) \times T(5) \times T(7)$$

$$\begin{aligned}
\mathbf{18000} &:= 3! \times 5! \times 4! \times 1! + 6! && = T(3) \times T(5) \times T(4) \times (-T(1) + T(6)) \\
&:= -4! \times 5! \times 3! - 7! + 8! && = (-T(4) + T(5) \times (T(3) + T(7))) \times T(8) \\
&:= -1! \times 7! - 6! \times 4! + 8! && = (T(1) + T(7) + T(6)) \times T(4) \times T(8)
\end{aligned}$$

$$\begin{aligned}
\mathbf{18144} &:= -(6! - 3!) \times 4! - 7! + 8! && = T(6) \times (T(3) - T(4) + T(7)) \times T(8) \\
\mathbf{18720} &:= (3! \times 4! + 2! - 5!) \times 6! && = T(3) \times T(4) \times (-T(2) + T(5) \times T(6)) \\
\mathbf{20304} &:= (2! \times 7! + 4!) \times 3! - 8! && = (T(2) \times T(7) + T(4)) \times T(3) \times T(8)
\end{aligned}$$

$$\begin{aligned}
\mathbf{21600} &:= -1! \times 6! \times (2! + 4!) + 8! && = (-T(1) + T(6)) \times T(2) \times T(4) \times T(8) \\
&:= (4! - 3!) \times 2! \times (6! - 5!) && = T(4) \times T(3) \times (T(2) + T(6)) \times T(5)
\end{aligned}$$

$$\begin{aligned}
\mathbf{22320} &:= -(4! - 1! + 2!) \times 6! + 8! && = T(4) \times (-T(1) + T(2) \times T(6)) \times T(8) \\
\mathbf{23040} &:= (1! - 2!) \times 6! \times 4! + 8! && = (T(1) + T(2) \times T(6)) \times T(4) \times T(8)
\end{aligned}$$

$$\begin{aligned}
\mathbf{23328} &:= (2! \times 3! - 6!) \times 4! + 8! && = T(2) \times (T(3) + T(6) \times T(4)) \times T(8)\\
\mathbf{23760} &:= (2! - 4! - 1!) \times 6! + 8! && = T(2) \times T(4) \times (T(1) + T(6)) \times T(8)\\
\\
\mathbf{25200} &:= (1! + 3!) \times 4! \times 5! + 7! && = T(1) \times T(3) \times T(4) \times T(5) \times T(7)\\
&:= -4! \times (6! + 5!) + 7! + 8! && = T(4) \times T(6) \times T(5) \times (-T(7) + T(8))\\
\\
\mathbf{26628} &:= 3! \times (-2! - 6! + 5! + 7!) && = (T(3) + T(2) \times T(6) \times T(5)) \times T(7)\\
\\
\mathbf{27360} &:= -6! \times (1! + 4!) + 7! + 8! && = (T(6) - T(1)) \times (T(4) + T(7)) \times T(8)\\
&:= 3! \times (4! \times 5! - 7!) + 8! && = T(3) \times T(4) \times (T(5) \times T(7) + T(8))\\
\\
\mathbf{28080} &:= -3! \times 4! \times 5! + 7! + 8! && = T(3) \times T(4) \times (-T(5) + T(7)) \times T(8)\\
\mathbf{28224} &:= 4! \times (3! - 6!) + 7! + 8! && = (T(4) + T(3)) \times (T(6) + T(7)) \times T(8)\\
\mathbf{30180} &:= -(4! + 3! + 7!) \times 2! + 8! && = T(4) \times (-T(3) + T(7) \times T(2) \times T(8))\\
\mathbf{30222} &:= 3! + 8! - 4! - 7! \times 2! && = (-T(3) + T(8) \times T(4) \times T(7)) \times T(2)\\
\\
\mathbf{30240} &:= -3! \times (6! + 5!) - 7! + 8! && = (-T(3) + T(6) + T(5)) \times T(7) \times T(8)\\
&:= 2! \times ((5! + 6!) \times 4! - 7!) && = T(2) \times (T(5) + T(6)) \times T(4) \times T(7)\\
\\
\mathbf{30258} &:= -2! \times 7! + 4! + 8! - 3! && = T(2) \times (T(7) \times T(4) \times T(8) + T(3))\\
\mathbf{30300} &:= (4! + 3! - 7!) \times 2! + 8! && = T(4) \times (T(3) + T(7) \times T(2) \times T(8))\\
\mathbf{30912} &:= 6! - 2! \times (7! + 4!) + 8! && = (T(6) + T(2)) \times T(7) \times (T(4) + T(8))\\
\mathbf{33120} &:= 3! \times (4! \times 6! - 7!) - 8! && = T(3) \times T(4) \times (T(6) \times T(7) - T(8))\\
\mathbf{33600} &:= -(5! + 6!) \times 2! + 8! - 7! && = T(5) \times (T(6) \times T(2) \times T(8) - T(7))\\
\mathbf{34560} &:= -5! \times 6! + (2! + 1!) \times 8! && = T(5) \times (T(6) \times T(2) + T(1)) \times T(8)\\
\\
\mathbf{35280} &:= -5! \times (6! - 3!) + 4! \times 7! && = T(5) \times T(6) \times (-T(3) + T(4)) \times T(7)\\
&:= 9! - (2! + 3!) \times 8! - 7! && = (T(9) - T(2)) \times (-T(3) + T(8)) \times T(7)\\
\\
\mathbf{36288} &:= 3! \times (4! \times 2! - 6!) + 8! && = (T(3) + T(4)) \times T(2) \times T(6) \times T(8)\\
\mathbf{37440} &:= (3! - 4!) \times (6! - 7!) - 8! && = (T(3) \times T(4)) \times (T(6) \times T(7) + T(8))\\
\\
\mathbf{38880} &:= 2! \times 6! - 5! \times 4! + 8! && = T(2) \times (T(6) + T(5)) \times T(4) \times T(8)\\
&:= 5! \times (2! \times 3! - 4!) + 8! && = (T(5) + T(2)) \times T(3) \times T(4) \times T(8)\\
\\
\mathbf{40320} &:= 4! \times 7! \times 1! - 2! \times 8! && = T(4) \times T(7) \times (T(1) + T(2)) \times T(8)\\
&:= 2! \times (9! - 8!) - 7! \times 5! && = (-T(2) + T(9)) \times (T(8) + T(7)) \times T(5)\\
\\
\mathbf{45360} &:= (1! - 2! + 5!) \times 6! - 8! && = (T(1) + T(2)) \times T(5) \times T(6) \times T(8)\\
\mathbf{47520} &:= 5! \times (4! - 3!) + 7! + 8! && = T(5) \times (T(4) \times T(3) + T(7)) \times T(8)
\end{aligned}$$

$$
\begin{aligned}
\mathbf{50400} &:= (-1! \times 3! + 4!) \times 7! - 8! && = (-T(1) + T(3)) \times T(4) \times T(7) \times T(8)\\
\mathbf{51840} &:= -(3! - 4! + 2!) \times 6! + 8! && = T(3) \times T(4) \times (T(2) + T(6)) \times T(8)\\
\mathbf{55440} &:= (5! - 1!) \times 6! - 3! \times 7! && = T(5) \times (T(1) + T(6)) \times T(3) \times T(7)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{60480} &:= -2! \times (3! + 4!) \times 7! + 9! && = T(2) \times (T(3) + T(4)) \times T(7) \times T(9)\\
&:= (3! \times (5! + 2!) - 6!) \times 7! && = T(3) \times T(5) \times (T(2) + T(6)) \times T(7)\\
&:= 4! \times (-5! - 6! + 7!) - 8! && = T(4) \times (-T(5) + T(6)) \times T(7) \times T(8)\\
&:= 4! \times (-5! + 3! \times 6!) - 8! && = (-T(4) + T(5) \times T(3)) \times T(6) \times T(8)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{62640} &:= 3! \times (6! \times 4! - 5!) - 8! && = (T(3) \times T(6) - T(4)) \times T(5) \times T(8)\\
\mathbf{65520} &:= 3! \times (-5! + 7! - 6!) + 8! && = T(3) \times T(5) \times (-T(7) + T(6) \times T(8))\\
\mathbf{67680} &:= (4! + 3! + 5!) \times 6! - 8! && = (-T(4) + T(3) \times T(5) \times T(6)) \times T(8)\\
\mathbf{70560} &:= 3! \times (5! + 7!) - 6! + 8! && = T(3) \times T(5) \times (T(7) + T(6) \times T(8))\\
\mathbf{75600} &:= (-4! \times 2! + 6!) \times 5! - 7! && = T(4) \times (-T(2) + T(6)) \times T(5) \times T(7)\\
\mathbf{77760} &:= 2! \times (-6! - 3! \times 5! + 8!) && = (T(2) + T(6)) \times T(3) \times T(5) \times T(8)\\
\mathbf{80640} &:= (4! \times 3! - 5!) \times 7! - 8! && = (-T(4) + T(3) \times T(5)) \times T(7) \times T(8)\\
\mathbf{82800} &:= 4! \times (5! + 7!) - 6! - 8! && = T(4) \times T(5) \times (T(7) \times T(6) - T(8))\\
\mathbf{89880} &:= -5! - 6! + (-3! + 4!) \times 7! && = (T(5) \times T(6) + T(3)) \times T(4) \times T(7)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{90720} &:= 9! \times 2! - (5! + 3!) \times 7! && = T(9) \times (-T(2) + T(5)) \times T(3) \times T(7)\\
&:= 3! \times (4! \times (6! + 5!) - 7!) && = (T(3) + T(4) \times T(6)) \times T(5) \times T(7)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{108864} &:= (4! - 5!) \times (3! - 6!) + 8! && = (T(4) \times T(5) - T(3)) \times T(6) \times T(8)\\
\mathbf{116640} &:= 3! \times (5! - 8!) - 7! + 9! && = T(3) \times T(5) \times (T(8) + T(7) \times T(9))\\
\mathbf{120960} &:= (-3! + 6!) \times 5! - 7! + 8! && = T(3) \times T(6) \times T(5) \times (T(7) + T(8))\\
\mathbf{129600} &:= (2! \times 6! - 4!) \times 5! - 8! && = (T(2) + T(6)) \times T(4) \times T(5) \times T(8)\\
\mathbf{181440} &:= (3! - 2! + 4!) \times 7! + 8! && = T(3) \times T(2) \times T(4) \times T(7) \times T(8)\\
\mathbf{207360} &:= -3! \times 8! + 5! \times 6! + 9! && = T(3) \times T(8) \times (T(5) + T(6) \times T(9))\\
\mathbf{233280} &:= 2! \times (-(6! + 8!) \times 3! + 9!) && = (T(2) + T(6)) \times T(8) \times T(3) \times T(9)\\
\mathbf{241920} &:= 7! \times (5! - 4!) - 3! \times 8! && = T(7) \times T(5) \times (T(4) + T(3)) \times T(8)\\
\mathbf{264960} &:= -4! \times (6! + 7!) + 9! + 8! && = T(4) \times (T(6) \times T(7) \times T(9) + T(8))\\
\mathbf{272160} &:= (3! - 6!) \times 5! - 7! + 9! && = T(3) \times (T(6) + T(5)) \times T(7) \times T(9)\\
\mathbf{339840} &:= 1! \times 9! + 6! \times 4! - 8! && = (-T(1) + T(9) \times T(6)) \times T(4) \times T(8)\\
\mathbf{339984} &:= (3! + 6!) \times 4! + 9! - 8! && = (-T(3) + T(6) \times T(4) \times T(9)) \times T(8)\\
\mathbf{340560} &:= (4! + 1!) \times 6! + 9! - 8! && = T(4) \times (T(1) + T(6) \times T(9)) \times T(8)\\
\mathbf{341280} &:= (4! + 2!) \times 6! + 9! - 8! && = T(4) \times (T(2) + T(6) \times T(9)) \times T(8)\\
\mathbf{349920} &:= (3! - 4!) \times (6! - 8!) - 9! && = (T(3) + T(4) \times T(6)) \times T(8) \times T(9)\\
\mathbf{443520} &:= 4! \times 7! - 8! \times 1! + 9! && = T(4) \times T(7) \times T(8) \times (-T(1) + T(9))\\
\mathbf{453600} &:= (2! + 5! - 4!) \times 7! - 8! && = T(2) \times T(5) \times T(4) \times T(7) \times T(8)\\
\mathbf{725760} &:= 7! \times 4! + 3! \times 8! + 9! && = T(7) \times (T(4) + T(3)) \times T(8) \times T(9)
\end{aligned}
$$

Selfie Expressions With Factorial, Fibonacci and Triangular Values,
Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

$$\begin{aligned} \mathbf{816480} &:= 3! \times (2! \times 8! - 7!) + 9! && = T(3) \times T(2) \times T(8) \times T(7) \times T(9) \\ \\ \mathbf{1360800} &:= (4! - 2!) \times (7! + 8!) + 9! && = T(4) \times T(2) \times T(7) \times T(8) \times T(9) \\ \mathbf{4082400} &:= (3! + 5!) \times (8! - 7!) - 9! && = T(3) \times T(5) \times T(8) \times T(7) \times T(9) \end{aligned}$$

7 Fibonacci-Triangular-Type Equality Expressions

In this case we have very few examples, as we considered factorial and Fibonacci values equality expressions following the same order of digits on both sides of the equalities. This we have divided in two subsections. One only with positive sign expressions and another with positive and negative signs expressions.

7.1 Positive Sign Expressions

7.1.1 Two Terms Expressions

$$\mathbf{42} := F(3) \times F(8) = T(3) + T(8)$$

7.1.2 Three Terms Expressions

$$\begin{aligned} \mathbf{32} &:= (F(1) + F(4)) \times F(6) = T(1) + T(4) + T(6) \\ \mathbf{39} &:= F(1) \times F(4) \times F(7) \quad = T(1) + T(4) + T(7) \end{aligned}$$

$$\begin{aligned} \mathbf{42} &:= (F(1) \times F(3)) \times F(8) = T(1) \times T(3) + T(8) \\ &:= F(3) + F(5) \times F(6) \quad = T(3) + T(5) + T(6) \end{aligned}$$

$$\begin{aligned} \mathbf{43} &:= F(1) + F(3) \times F(8) \quad = T(1) + T(3) + T(8) \\ \mathbf{66} &:= F(4) \times (F(2) + F(8)) = T(4) \times T(2) + T(8) \\ \mathbf{105} &:= F(2) + F(7) \times F(6) \quad = T(2) \times T(7) + T(6) \end{aligned}$$

7.1.3 Four Terms Expressions

$$\begin{aligned} \mathbf{31} &:= F(1) + F(3) \times F(4) \times F(5) \quad = T(1) \times T(3) + T(4) + T(5) \\ \mathbf{32} &:= (F(1) + F(4) \times F(5)) \times F(3) \quad = T(1) + T(4) + T(5) + T(3) \end{aligned}$$

$$\begin{aligned} \mathbf{40} &:= F(1) \times F(2) \times F(5) \times F(6) \quad = T(1) + T(2) + T(5) + T(6) \\ &:= (F(2) \times F(3) + F(4)) \times F(6) \quad = T(2) + T(3) + T(4) + T(6) \end{aligned}$$

$$\mathbf{41} := F(1) + F(2) + F(4) \times F(7) \quad = T(1) \times T(2) + T(4) + T(7)$$

$$\begin{aligned} \mathbf{42} &:= F(1) \times F(5) \times F(6) + F(3) \quad = T(1) \times T(5) + T(6) + T(3) \\ &:= F(1) \times F(4) \times (F(2) + F(7)) \quad = T(1) + T(4) + T(2) + T(7) \end{aligned}$$

$$
\begin{aligned}
\mathbf{43} &:= F(1)+F(3)+F(5)\times F(6) && = T(1)+T(3)+T(5)+T(6)\\
\mathbf{44} &:= (F(1)+F(7))\times F(4)+F(3) && = T(1)\times T(7)+T(4)+T(3)\\
\\
\mathbf{45} &:= F(1)\times F(4)\times (F(3)+F(7)) && = T(1)+T(4)+T(3)+T(7)\\
&:= F(1)+F(3)\times (F(2)+F(8)) && = T(1)\times T(3)+T(2)+T(8)\\
\\
\mathbf{46} &:= (F(1)+F(2))\times (F(3)+F(8)) && = T(1)+T(2)+T(3)+T(8)\\
\mathbf{49} &:= F(2)+F(3)\times F(4)\times F(6) && = T(2)\times T(3)+T(4)+T(6)\\
\mathbf{52} &:= (F(1)+F(2)+F(3))\times F(7) && = (T(1)+T(2))\times T(3)+T(7)\\
\mathbf{54} &:= F(1)\times F(4)\times (F(5)+F(7)) && = T(1)+T(4)+T(5)+T(7)\\
\mathbf{60} &:= (F(1)+F(4))\times F(7)+F(6) && = T(1)+T(4)+T(7)+T(6)\\
\mathbf{65} &:= F(3)+F(4)\times (F(6)+F(7)) && = T(3)+T(4)+T(6)+T(7)\\
\\
\mathbf{66} &:= F(1)\times F(4)\times (F(2)+F(8)) && = T(1)\times T(4)\times T(2)+T(8)\\
&:= (F(5)+F(2))\times (F(4)+F(6)) && = T(5)+T(2)\times T(4)+T(6)\\
\\
\mathbf{67} &:= F(1)+F(4)\times (F(2)+F(8)) && = T(1)+T(4)\times T(2)+T(8)\\
\mathbf{68} &:= (F(1)+F(2))\times (F(7)+F(8)) && = T(1)+T(2)+T(7)+T(8)\\
\\
\mathbf{69} &:= F(1)\times F(2)+F(3)\times F(9) && = (T(1)+T(2))\times T(3)+T(9)\\
&:= F(4)\times (F(1)+F(2)+F(8)) && = (T(4)+T(1))\times T(2)+T(8)\\
\\
\mathbf{70} &:= F(3)\times (F(1)+F(7)+F(8)) && = (T(3)\times T(1))+T(7)+T(8)\\
\mathbf{72} &:= (F(3)+F(2))\times (F(4)+F(8)) && = T(3)+T(2)\times T(4)+T(8)\\
\\
\mathbf{73} &:= F(3)+F(6)+F(4)\times F(8) && = T(3)+T(6)+T(4)+T(8)\\
&:= F(4)+(F(2)+F(7))\times F(5) && = T(4)\times T(2)+T(7)+T(5)\\
&:= F(4)+F(3)\times (F(2)+F(9)) && = T(4)+T(3)\times T(2)+T(9)\\
\\
\mathbf{76} &:= F(4)+F(5)+F(3)\times F(9) && = T(4)+T(5)+T(3)+T(9)\\
\mathbf{77} &:= F(2)+F(7)+F(4)\times F(8) && = T(2)+T(7)+T(4)+T(8)\\
\mathbf{78} &:= F(2)\times F(3)\times (F(5)+F(9)) && = T(2)\times T(3)+T(5)+T(9)\\
\mathbf{81} &:= F(4)\times (F(2)+F(5)+F(8)) && = T(4)\times T(2)+T(5)+T(8)\\
\\
\mathbf{82} &:= (F(1)+F(5))\times F(6)+F(9) && = T(1)+T(5)+T(6)+T(9)\\
&:= F(3)\times F(4)\times F(6)+F(9) && = T(3)+T(4)+T(6)+T(9)\\
&:= F(3)\times F(9)+F(2)+F(7) && = T(3)+T(9)+T(2)+T(7)\\
&:= F(2)+F(7)+F(3)\times F(9) && = T(2)+T(7)+T(3)+T(9)
\end{aligned}
$$

Selfie Expressions With Factorial, Fibonacci and Triangular Values,
Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

$$
\begin{aligned}
\mathbf{84} &:= F(2)\times F(3)\times (F(6)+F(9)) && = T(2)\times T(3)+T(6)+T(9)\\
\mathbf{86} &:= (F(2)+F(4))\times F(7)+F(9) && = T(2)+T(4)+T(7)+T(9)\\
\mathbf{87} &:= F(2)\times F(4)\times (F(6)+F(8)) && = T(2)\times T(4)+T(6)+T(8)\\
\mathbf{89} &:= F(4)+F(5)\times F(7)+F(8) && = T(4)+T(5)+T(7)+T(8)\\
\mathbf{90} &:= F(2)+F(3)\times F(9)+F(8) && = T(2)+T(3)+T(9)+T(8)\\
\mathbf{91} &:= (F(2)\times F(3)+F(5))\times F(7) && = T(2)\times (T(3)+T(5))+T(7)\\
\mathbf{91} &:= (F(2)+F(3)\times F(4))\times F(7) && = T(2)+T(3)\times T(4)+T(7)\\
\mathbf{96} &:= F(3)\times F(6)\times (F(2)+F(5)) && = (T(3)+T(6))\times T(2)+T(5)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{105} &:= F(1)+F(3)+F(4)\times F(9) && = T(1)\times T(3)\times T(4)+T(9)\\
&:= F(1)+F(6)\times F(2)\times F(7) && = T(1)\times T(6)+T(2)\times T(7)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{106} &:= F(1)+F(2)+F(7)\times F(6) && = T(1)+T(2)\times T(7)+T(6)\\
&:= F(1)+(F(3)+F(4))\times F(8) && = (T(1)+T(3))\times T(4)+T(8)\\
&:= F(2)+(F(6)+F(7))\times F(5) && = T(2)\times T(6)+T(7)+T(5)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{108} &:= F(2)\times F(4)\times (F(3)+F(9)) && = T(2)+T(4)\times T(3)+T(9)\\
\mathbf{109} &:= F(3)+F(4)+F(6)\times F(7) && = T(3)\times T(4)+T(6)+T(7)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{111} &:= F(3)\times F(4)+F(5)\times F(8) && = T(3)\times T(4)+T(5)+T(8)\\
&:= (F(3)+F(1))\times (F(4)+F(9)) && = T(3)\times (T(1)+T(4))+T(9)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{112} &:= F(6)\times F(1)\times (F(2)+F(7)) && = T(6)\times (T(1)+T(2))+T(7)\\
\mathbf{114} &:= F(2)+F(6)+F(5)\times F(8) && = T(2)\times T(6)+T(5)+T(8)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{115} &:= (F(2)+F(7))\times F(6)+F(4) && = T(2)\times T(7)+T(6)+T(4)\\
&:= F(3)\times (F(7)+F(9))+F(8) && = T(3)+T(7)+T(9)+T(8)\\
&:= F(4)+F(6)\times (F(2)+F(7)) && = T(4)+T(6)+T(2)\times T(7)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{120} &:= F(4)\times (F(5)+F(2)+F(9)) && = (T(4)+T(5))\times T(2)+T(9)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{126} &:= (F(2)+F(3)+F(4))\times F(8) && = (T(2)+T(3))\times T(4)+T(8)\\
&:= (F(5)+F(2)\times F(1))\times F(8) && = T(5)+T(2)\times (T(1)+T(8))\\
&:= (F(2)+F(3))\times (F(6)+F(9)) && = T(2)\times (T(3)+T(6))+T(9)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{130} &:= (F(1)+F(2))\times F(5)\times F(7) && = T(1)+T(2)\times (T(5)+T(7))\\
\mathbf{136} &:= F(3)\times (F(5)+F(4)\times F(8)) && = T(3)\times T(5)+T(4)+T(8)\\
\mathbf{147} &:= F(3)+F(5)\times (F(6)+F(8)) && = T(3)\times T(5)+T(6)+T(8)\\
\mathbf{162} &:= (F(2)+F(6))\times (F(7)+F(5)) && = T(2)\times (T(6)+T(7))+T(5)\\
\mathbf{168} &:= F(3)\times (F(4)+F(2))\times F(8) && = T(3)\times T(4)+T(2)\times T(8)
\end{aligned}
$$

$$\begin{aligned}
\mathbf{171} &:= F(2)+F(9)\times(F(4)+F(3)) && = T(2)\times(T(9)+T(4))+T(3)\\
\mathbf{174} &:= (F(2)+F(5))\times(F(8)+F(6)) && = T(2)\times(T(5)+T(8))+T(6)\\
\\
\mathbf{180} &:= (F(1)+F(2)+F(9))\times F(5) && = T(1)\times T(2)\times(T(9)+T(5))\\
&:= F(5)\times F(2)\times(F(3)+F(9)) && = T(5)\times(T(2)+T(3))+T(9)\\
\\
\mathbf{186} &:= F(3)\times F(6)+F(5)\times F(9) && = T(3)\times T(6)+T(5)+T(9)\\
\mathbf{189} &:= (F(2)+F(4)+F(5))\times F(8) && = T(2)+T(4)\times T(5)+T(8)\\
\mathbf{190} &:= (F(4)+F(2)+F(9))\times F(5) && = T(4)+T(2)\times(T(9)+T(5))\\
\mathbf{195} &:= F(5)\times(F(4)+F(3)+F(9)) && = (T(5)+T(4))\times T(3)+T(9)\\
\mathbf{208} &:= (F(2)+F(5)\times F(4))\times F(7) && = (T(2)+T(5))\times T(4)+T(7)\\
\mathbf{210} &:= (F(2)+F(7)\times F(6))\times F(3) && = T(2)\times T(7)+T(6)\times T(3)\\
\mathbf{214} &:= F(3)\times(F(4)+(F(6)\times F(7))) && = T(3)\times(T(4)+T(6))+T(7)\\
\mathbf{216} &:= (F(2)+F(5)+F(8))\times F(6) && = T(2)\times(T(5)+T(8)+T(6))\\
\mathbf{231} &:= (F(1)+F(5)\times F(3))\times F(8) && = T(1)\times T(5)+T(3)\times T(8)\\
\mathbf{234} &:= F(4)\times(F(5)+F(2))\times F(7) && = T(4)\times T(5)+T(2)\times T(7)\\
\\
\mathbf{276} &:= F(1)+F(4)+F(6)\times F(9) && = (T(1)+T(4))\times T(6)+T(9)\\
&:= F(2)+F(8)\times F(7)+F(3) && = T(2)\times T(8)+T(7)\times T(3)\\
\\
\mathbf{300} &:= F(2)+F(7)\times(F(3)+F(8)) && = T(2)\times T(7)+T(3)\times T(8)\\
\mathbf{312} &:= (F(3)+F(2))\times F(6)\times F(7) && = T(3)\times(T(2)+T(6)+T(7))\\
\mathbf{346} &:= (F(4)\times F(7))\times F(6)+F(9) && = T(4)\times T(7)+T(6)+T(9)\\
\mathbf{370} &:= F(3)\times F(5)\times(F(9)+F(4)) && = T(3)\times(T(5)+T(9))+T(4)\\
\mathbf{378} &:= (F(2)+F(5))\times F(4)\times F(8) && = T(2)+T(5)+T(4)\times T(8)\\
\mathbf{441} &:= (F(3)\times F(6)+F(5))\times F(8) && = (T(3)+T(6))\times T(5)+T(8)\\
\mathbf{444} &:= F(3)\times F(1)+F(7)\times F(9) && = T(3)\times(T(1)+T(7)+T(9))\\
\mathbf{448} &:= F(4)\times F(3)+F(7)\times F(9) && = T(4)+T(3)\times(T(7)+T(9))\\
\mathbf{479} &:= F(4)+F(9)\times(F(1)+F(7)) && = T(4)\times T(9)+T(1)+T(7)\\
\mathbf{481} &:= F(2)\times F(7)\times(F(4)+F(9)) && = T(2)+T(7)+T(4)\times T(9)\\
\mathbf{510} &:= F(5)\times F(1)\times F(4)\times F(9) && = T(5)+(T(1)+T(4))\times T(9)\\
\mathbf{511} &:= F(1)+(F(3)+F(7))\times F(9) && = (T(1)+T(3))\times(T(7)+T(9))\\
\mathbf{525} &:= F(5)\times(F(2)+F(7)\times F(6)) && = (T(5)+T(2))\times T(7)+T(6)\\
\mathbf{540} &:= F(4)\times(F(9)+F(3))\times F(5) && = T(4)\times T(9)+T(3)\times T(5)\\
\mathbf{546} &:= (F(3)+F(6)\times F(5))\times F(7) && = T(3)\times T(6)+T(5)\times T(7)\\
\mathbf{615} &:= F(4)+(F(7)+F(5))\times F(9) && = (T(4)+T(7))\times T(5)+T(9)\\
\mathbf{624} &:= (F(5)+F(1))\times F(7)\times F(6) && = T(5)+(T(1)+T(7))\times T(6)\\
\mathbf{630} &:= F(4)\times(F(3)+F(6))\times F(8) && = T(4)\times(T(3)+T(6)+T(8))\\
\mathbf{640} &:= (F(4)+F(7))\times F(5)\times F(6) && = T(4)\times(T(7)+T(5)+T(6))\\
\mathbf{783} &:= F(2)+(F(3)+F(8))\times F(9) && = T(2)\times(T(3)\times T(8)+T(9))
\end{aligned}$$

$$\begin{aligned}
\mathbf{825} &:= F(5)\times F(4)\times(F(8)+F(9)) && = T(5)+T(4)\times(T(8)+T(9))\\
\mathbf{832} &:= (F(2)+F(4)\times F(8))\times F(7) && = (T(2)+T(4))\times(T(8)+T(7))\\
\mathbf{840} &:= (F(4)+F(8))\times(F(2)+F(9)) && = T(4)\times(T(8)+T(2)+T(9))\\
\mathbf{2145} &:= (F(2)+F(8)\times F(9))\times F(4) && = (T(2)+T(8))\times(T(9)+T(4))\\
\mathbf{2205} &:= F(4)\times F(8)\times(F(2)+F(9)) && = (T(4)+T(8)+T(2))\times T(9)\\
\mathbf{2346} &:= F(4)\times(F(8)+F(3))\times F(9) && = (T(4)+T(8))\times(T(3)+T(9))\\
\mathbf{2352} &:= (F(2)+F(7))\times F(6)\times F(8) && = T(2)\times(T(7)+T(6)\times T(8))
\end{aligned}$$

7.1.4 Five Terms Expressions

$$\begin{aligned}
\mathbf{34} &:= F(1)+(F(2)+F(5)\times F(3))\times F(4) && = T(1)\times T(2)+T(5)+T(3)+T(4)\\
\mathbf{35} &:= (F(1)+F(2)+F(3)+F(4))\times F(5) && = T(1)+T(2)+T(3)+T(4)+T(5)\\
\mathbf{40} &:= (F(1)\times F(2)\times F(3)+F(4))\times F(6) && = T(1)\times T(2)+T(3)+T(4)+T(6)\\
\mathbf{41} &:= F(1)\times F(2)+(F(3)+F(4))\times F(6) && = T(1)+T(2)+T(3)+T(4)+T(6)\\
\mathbf{44} &:= (F(1)+F(4))\times(F(2)+F(3)\times F(5)) && = T(1)+T(4)+T(2)\times T(3)+T(5)\\
\mathbf{46} &:= F(1)+(F(3)+F(2))\times F(4)\times F(5) && = (T(1)+T(3))\times T(2)+T(4)+T(5)\\
\mathbf{47} &:= F(1)+F(2)+F(4)\times(F(3)+F(7)) && = T(1)\times T(2)+T(4)+T(3)+T(7)\\
\mathbf{48} &:= (F(1)\times F(2)+F(3))\times(F(4)+F(7)) && = T(1)+T(2)+T(3)+T(4)+T(7)\\
\\
\mathbf{49} &:= F(1)\times F(2)+F(3)\times F(4)\times F(6) && = (T(1)\times T(2))\times T(3)+T(4)+T(6)\\
&:= F(1)+F(4)+F(5)\times(F(2)+F(6)) && = T(1)\times T(4)+T(5)+T(2)+T(6)\\
\\
\mathbf{50} &:= F(1)\times F(3)\times(F(2)+F(4)\times F(6)) && = T(1)+T(3)\times T(2)+T(4)+T(6)\\
\\
\mathbf{52} &:= (F(2)+F(1))\times(F(3)+F(4)\times F(6)) && = T(2)\times(T(1)+T(3))+T(4)+T(6)\\
&:= F(3)\times((F(5)+F(1))\times F(4)+F(6)) && = T(3)+T(5)\times T(1)+T(4)+T(6)\\
\\
\mathbf{53} &:= (F(1)+F(3))\times F(4)\times F(5)+F(6) && = T(1)+T(3)+T(4)+T(5)+T(6)\\
\\
\mathbf{55} &:= (F(2)+F(4)\times F(6))\times F(3)+F(5) && = T(2)+T(4)+T(6)+T(3)+T(5)\\
&:= F(1)\times F(5)\times(F(2)+F(3)+F(6)) && = T(1)+T(5)+T(2)\times T(3)+T(6)\\
\\
\mathbf{56} &:= (F(1)+F(2))\times(F(4)\times F(5)+F(7)) && = T(1)\times T(2)+T(4)+T(5)+T(7)\\
\\
\mathbf{57} &:= ((F(1)+F(6))\times F(3)+F(2))\times F(4) && = T(1)\times T(6)+T(3)+T(2)\times T(4)\\
&:= F(1)\times F(4)\times(F(2)+F(5)+F(7)) && = T(1)+T(4)+T(2)+T(5)+T(7)\\
&:= F(1)+(F(3)\times F(2)+F(5))\times F(6) && = (T(1)+T(3))\times T(2)+T(5)+T(6)\\
\\
\mathbf{58} &:= (F(1)+F(2))\times(F(3)\times F(6)+F(7)) && = T(1)\times T(2)+T(3)+T(6)+T(7)\\
\mathbf{59} &:= F(3)+F(5)+(F(1)+F(4))\times F(7) && = T(3)+T(5)\times T(1)+T(4)+T(7)
\end{aligned}$$

Selfie Expressions With Factorial, Fibonacci and Triangular Values,
Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

$$
\begin{aligned}
\mathbf{60} &:= (F(3)+F(6))\times(F(2)+F(1))\times F(4) && = T(3)+T(6)+T(2)\times(T(1)+T(4))\\
&:= F(1)\times F(4)\times(F(5)+F(3)+F(7)) && = T(1)+T(4)+T(5)+T(3)+T(7)\\
&:= F(5)\times(F(6)+F(1)+F(2)+F(3)) && = T(5)+T(6)+(T(1)+T(2))\times T(3)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{62} &:= (F(1)+F(2))\times(F(3)\times F(7)+F(5)) && = T(1)+T(2)\times T(3)+T(7)+T(5)\\
&:= F(3)\times F(5)+(F(2)+F(4))\times F(7) && = T(3)+T(5)+T(2)+T(4)+T(7)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{63} &:= F(1)\times F(4)\times(F(6)\times F(2)+F(7)) && = T(1)+T(4)+T(6)+T(2)+T(7)\\
\mathbf{64} &:= (F(1)+F(3)+F(2))\times(F(4)+F(7)) && = T(1)\times T(3)+T(2)\times T(4)+T(7)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{65} &:= (F(1)\times F(2)\times F(4)+F(3))\times F(7) && = T(1)+T(2)\times T(4)+T(3)+T(7)\\
&:= F(1)\times F(2)\times F(3)+F(4)\times F(8) && = T(1)+T(2)\times T(3)+T(4)+T(8)\\
&:= F(1)\times F(3)+F(4)\times(F(6)+F(7)) && = T(1)\times T(3)+T(4)+T(6)+T(7)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{66} &:= F(1)+F(2)+(F(4)+F(5))\times F(6) && = T(1)\times T(2)\times T(4)+T(5)+T(6)\\
&:= F(1)+F(3)+F(4)\times(F(6)+F(7)) && = T(1)+T(3)+T(4)+T(6)+T(7)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{67} &:= (F(1)\times F(2))\times F(3)+F(5)\times F(7) && = (T(1)+T(2))\times T(3)+T(5)+T(7)\\
&:= (F(1)+F(5))\times(F(2)+F(6))+F(7) && = T(1)\times T(5)+T(2)+T(6)+T(7)\\
&:= F(1)+(F(5)+F(2))\times(F(4)+F(6)) && = T(1)+T(5)+T(2)\times T(4)+T(6)\\
&:= F(1)+F(3)+F(2)+F(4)\times F(8) && = (T(1)+T(3))\times T(2)+T(4)+T(8)\\
&:= F(2)+F(1)+(F(4)+F(3))\times F(7) && = T(2)\times(T(1)+T(4))+T(3)+T(7)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{68} &:= (F(1)+F(2))\times(F(3)\times F(7)+F(6)) && = T(1)+T(2)\times T(3)+T(7)+T(6)\\
&:= F(3)\times F(6)+(F(2)+F(4))\times F(7) && = T(3)+T(6)+T(2)+T(4)+T(7)
\end{aligned}
$$

$$
\mathbf{69} := F(1)+F(5)+(F(2)+F(3))\times F(8) \qquad = T(1)\times T(5)+T(2)\times T(3)+T(8)
$$

$$
\begin{aligned}
\mathbf{70} &:= (F(1)+F(7))+((F(3)+F(5))\times F(6)) && = T(1)\times T(7)+T(3)+T(5)+T(6)\\
&:= F(1)\times F(2)+(F(3)+F(8))\times F(4) && = (T(1)+T(2))\times T(3)+T(8)+T(4)\\
&:= F(2)\times F(3)+F(5)+F(4)\times F(8) && = T(2)+T(3)+T(5)+T(4)+T(8)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{71} &:= (F(1)+F(6))\times F(5)+F(3)\times F(7) && = T(1)+T(6)+T(5)+T(3)+T(7)\\
&:= F(1)\times F(2)\times F(6)+F(4)\times F(8) && = T(1)+T(2)+T(6)+T(4)+T(8)\\
&:= F(2)+F(3)+F(4)+F(5)\times F(7) && = T(2)\times T(3)+T(4)+T(5)+T(7)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{72} &:= (F(1)+F(2)+F(5)+F(3))\times F(6) && = T(1)\times T(2)\times T(5)+T(3)+T(6)\\
&:= (F(1)+F(3))\times(F(4)\times F(2)+F(8)) && = T(1)\times T(3)+T(4)\times T(2)+T(8)\\
&:= (F(1)+F(3))\times F(4)\times F(2)\times F(6) && = (T(1)+T(3)+T(4))\times T(2)+T(6)
\end{aligned}
$$

$$:= (F(2)+F(4)) \times (F(5) \times F(3)+F(6)) \quad = T(2) \times T(4)+T(5)+T(3)+T(6)$$

$$\begin{aligned}
\mathbf{73} &:= (F(1)+F(2)) \times F(7) \times F(3)+F(8) && = T(1) \times T(2)+T(7)+T(3)+T(8)\\
&:= (F(2)+F(5)) \times (F(3)+F(6))+F(7) && = T(2)+T(5)+T(3)+T(6)+T(7)\\
&:= F(1) \times F(3)+F(6)+F(4) \times F(8) && = T(1) \times T(3)+T(6)+T(4)+T(8)\\
&:= F(1)+(F(2)+F(4)) \times (F(5)+F(7)) && = T(1) \times T(2) \times T(4)+T(5)+T(7)\\
&:= F(1)+F(4) \times (F(2)+F(3)+F(8)) && = T(1)+T(4) \times T(2)+T(3)+T(8)\\
&:= F(1)+F(4)+F(2)+F(3) \times F(9) && = T(1) \times T(4)+T(2) \times T(3)+T(9)
\end{aligned}$$

$$\begin{aligned}
\mathbf{74} &:= F(1) \times F(2) \times F(3) \times (F(4)+F(9)) && = T(1)+T(2) \times T(3)+T(4)+T(9)\\
&:= F(1)+F(3)+F(6)+F(4) \times F(8) && = T(1)+T(3)+T(6)+T(4)+T(8)\\
&:= F(1)+F(4)+(F(2)+F(7)) \times F(5) && = T(1)+T(4) \times T(2)+T(7)+T(5)
\end{aligned}$$

$$\begin{aligned}
\mathbf{75} &:= (F(1)+F(5)) \times (F(2)+F(6))+F(8) && = T(1) \times T(5)+T(2)+T(6)+T(8)\\
&:= (F(3)+F(1)) \times (F(4)+F(2)+F(8)) && = T(3)+(T(1)+T(4)) \times T(2)+T(8)
\end{aligned}$$

$$\begin{aligned}
\mathbf{76} &:= (F(1)+F(4)) \times (F(2)+F(5)+F(7)) && = (T(1)+T(4)) \times T(2)+T(5)+T(7)\\
&:= F(1) \times F(2) \times F(6)+F(3) \times F(9) && = T(1)+T(2)+T(6)+T(3)+T(9)\\
&:= F(1) \times F(3) \times (F(2)+F(4)+F(9)) && = (T(1)+T(3)) \times T(2)+T(4)+T(9)\\
&:= F(1) \times F(4)+F(5)+F(3) \times F(9) && = T(1) \times T(4)+T(5)+T(3)+T(9)\\
&:= F(3)+F(6)+F(4) \times (F(2)+F(8)) && = (T(3)+T(6))+T(4)+T(2)+T(8)
\end{aligned}$$

$$\begin{aligned}
\mathbf{77} &:= (F(1)+F(2)+F(5)) \times (F(4)+F(6)) && = T(1)+T(2) \times T(5)+T(4)+T(6)\\
&:= (F(1)+F(4)) \times (F(2)+F(7))+F(8) && = T(1) \times T(4)+T(2)+T(7)+T(8)\\
&:= (F(2) \times F(4)+F(5)) \times F(6)+F(7) && = T(2)+T(4)+T(5)+T(6)+T(7)\\
&:= F(1)+F(4)+F(5)+F(3) \times F(9) && = T(1)+T(4)+T(5)+T(3)+T(9)\\
&:= F(3) \times (F(2)+F(4)) \times F(6)+F(7) && = T(3) \times T(2)+T(4)+T(6)+T(7)
\end{aligned}$$

$$\begin{aligned}
\mathbf{78} &:= F(1) \times F(2) \times F(3) \times (F(5)+F(9)) && = T(1) \times T(2) \times T(3)+T(5)+T(9)\\
&:= F(1)+F(2)+F(7)+F(4) \times F(8) && = T(1)+T(2)+T(7)+T(4)+T(8)\\
&:= F(1)+F(6) \times (F(3)+F(5))+F(8) && = T(1) \times T(6)+T(3)+T(5)+T(8)
\end{aligned}$$

$$\begin{aligned}
\mathbf{79} &:= (F(2)+F(3)) \times F(5) \times F(4)+F(9) && = T(2)+T(3)+T(5)+T(4)+T(9)\\
&:= F(1) \times F(2)+F(3) \times (F(5)+F(9)) && = T(1)+T(2) \times T(3)+T(5)+T(9)\\
&:= F(1)+(F(3)+F(4)+F(2)) \times F(7) && = (T(1)+T(3)+T(4)) \times T(2)+T(7)\\
&:= F(2)+F(4)+F(5) \times (F(3)+F(7)) && = T(2) \times T(4)+T(5)+T(3)+T(7)\\
&:= F(4)+F(6)+(F(1)+F(2)) \times F(9) && = T(4)+T(6) \times T(1)+T(2)+T(9)
\end{aligned}$$

$$\begin{aligned}
\mathbf{80} &:= (F(1)+F(4) \times (F(3)+F(2))) \times F(6) && = T(1)+T(4)+T(3)+T(2) \times T(6)\\
&:= (F(5)+F(6)+F(7)) \times F(4)+F(3) && = T(5)+T(6)+T(7)+T(4)+T(3)
\end{aligned}$$

$$:= F(1) \times F(3) + (F(2) + F(5)) \times F(7) \quad = T(1) + T(3) + T(2) \times T(5) + T(7)$$

$$\begin{aligned}
\mathbf{81} &:= (F(1) + F(4)) \times (F(7) + F(3)) + F(8) && = T(1) + T(4) + T(7) + T(3) + T(8) \\
&:= (F(2) + F(5)) \times (F(3) + F(6)) + F(8) && = T(2) + T(5) + T(3) + T(6) + T(8) \\
&:= F(1) \times F(4) \times (F(2) + F(5) + F(8)) && = T(1) \times T(4) \times T(2) + T(5) + T(8) \\
&:= F(1) + F(3) \times (F(2) + F(5) + F(9)) && = (T(1) + T(3)) \times T(2) + T(5) + T(9)
\end{aligned}$$

$$\begin{aligned}
\mathbf{82} &:= (F(1) + F(3) + F(4)) \times F(6) + F(9) && = T(1) \times T(3) + T(4) + T(6) + T(9) \\
&:= F(1) \times F(2) + F(7) + F(3) \times F(9) && = T(1) \times T(2) + T(7) + T(3) + T(9) \\
&:= F(1) + (F(8) + F(5) + F(2)) \times F(4) && = T(1) + T(8) + T(5) + T(2) \times T(4) \\
&:= F(6) \times F(3) + F(2) + F(5) \times F(7) && = T(6) + T(3) \times T(2) + T(5) + T(7)
\end{aligned}$$

$$\begin{aligned}
\mathbf{83} &:= (F(1) + F(2)) \times F(4) \times F(7) + F(5) && = (T(1) + T(2)) \times T(4) + T(7) + T(5) \\
&:= F(1) + F(2) + F(7) + F(3) \times F(9) && = T(1) + T(2) + T(7) + T(3) + T(9) \\
&:= F(1) + F(3) \times F(4) \times F(6) + F(9) && = T(1) + T(3) + T(4) + T(6) + T(9) \\
&:= F(2) + F(7) + F(4) \times (F(3) + F(8)) && = T(2) + T(7) + T(4) + T(3) + T(8)
\end{aligned}$$

$$\begin{aligned}
\mathbf{84} &:= (F(1) + F(2)) \times (F(3) + F(5) \times F(6)) && = T(1) \times T(2) \times (T(3) + T(5)) + T(6) \\
&:= (F(1) + F(2) + F(6)) \times F(5) + F(9) && = T(1) \times T(2) + T(6) + T(5) + T(9) \\
&:= F(1) \times F(2) \times F(3) \times (F(6) + F(9)) && = T(1) \times T(2) \times T(3) + T(6) + T(9) \\
&:= F(3) \times F(4) \times (F(2) + F(6) + F(5)) && = (T(3) + T(4)) \times T(2) + T(6) + T(5) \\
&:= F(4) \times (F(1) + F(2) + F(8) + F(5)) && = (T(4) + T(1)) \times T(2) + T(8) + T(5)
\end{aligned}$$

$$\begin{aligned}
\mathbf{85} &:= (F(1) \times F(2) + F(6) \times F(3)) \times F(5) && = T(1) + T(2) \times T(6) + T(3) + T(5) \\
&:= (F(2) \times F(4) + F(5)) \times F(6) + F(8) && = T(2) + T(4) + T(5) + T(6) + T(8) \\
&:= (F(2) + F(3) \times F(6)) \times F(4) + F(9) && = (T(2) + T(3)) + T(6) + T(4) + T(9) \\
&:= (F(4) + F(2)) \times F(3) \times F(6) + F(8) && = T(4) + T(2) \times T(3) + T(6) + T(8) \\
&:= F(1) + F(3) \times F(2) \times (F(6) + F(9)) && = T(1) + T(3) \times T(2) + T(6) + T(9) \\
&:= F(6) \times (F(3) + F(2)) \times F(4) + F(7) && = T(6) + T(3) + T(2) \times T(4) + T(7)
\end{aligned}$$

$$\begin{aligned}
\mathbf{86} &:= (F(1) \times F(2) + F(4)) \times F(7) + F(9) && = T(1) \times T(2) + T(4) + T(7) + T(9) \\
&:= F(1) + F(5) \times (F(2) + F(4) + F(7)) && = (T(1) + T(5)) \times T(2) + T(4) + T(7)
\end{aligned}$$

$$\begin{aligned}
\mathbf{87} &:= (F(3) + F(2)) \times (F(4) + F(5) + F(8)) && = T(3) + T(2) \times T(4) + T(5) + T(8) \\
&:= F(1) \times F(2) \times F(4) \times (F(6) + F(8)) && = T(1) \times T(2) \times T(4) + T(6) + T(8) \\
&:= F(1) + (F(4) + F(2)) \times F(7) + F(9) && = T(1) + T(4) + T(2) + T(7) + T(9) \\
&:= F(1) + F(3) \times (F(2) + F(6) + F(9)) && = (T(1) + T(3)) \times T(2) + T(6) + T(9) \\
&:= F(1) + F(3) + (F(4) + F(2)) \times F(8) && = (T(1) + T(3) + T(4)) \times T(2) + T(8) \\
&:= F(1) + F(6) + F(3) \times (F(5) + F(9)) && = T(1) \times T(6) + T(3) + T(5) + T(9)
\end{aligned}$$

$$
\begin{aligned}
\mathbf{88} &:= (F(1)+F(5)+F(9))\times F(3)+F(6) && = T(1)+T(5)+T(9)+T(3)+T(6)\\
&:= F(2)\times F(3)+F(5)\times F(7)+F(8) && = T(2)+T(3)+T(5)+T(7)+T(8)\\
&:= F(2)+F(4)\times F(1)\times (F(6)+F(8)) && = T(2)\times T(4)+T(1)+T(6)+T(8)\\
&:= F(3)+F(6)+F(4)\times (F(5)+F(8)) && = T(3)+T(6)+T(4)+T(5)+T(8)\\
&:= F(5)\times (F(4)+F(2))+F(3)\times F(9) && = T(5)+T(4)+T(2)\times T(3)+T(9)\\
&:= F(6)\times ((F(1)+F(2))\times F(4)+F(5)) && = T(6)\times T(1)\times T(2)+T(4)+T(5)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{89} &:= (F(1)+F(4)+F(9))\times F(3)+F(7) && = T(1)\times T(4)+T(9)+T(3)+T(7)\\
&:= F(1)\times F(5)\times F(7)+F(4)+F(8) && = T(1)\times T(5)+T(7)+T(4)+T(8)\\
&:= F(3)\times F(4)\times (F(7)+F(2))+F(5) && = T(3)+T(4)+T(7)+T(2)\times T(5)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{90} &:= (F(2)\times F(3)+F(5))\times F(6)+F(9) && = T(2)+T(3)+T(5)+T(6)+T(9)\\
&:= F(6)\times (F(5)+F(2))+F(3)\times F(8) && = ((T(6)+T(5))+(T(2)\times T(3)))+T(8)\\
&:= F(1)\times F(2)+F(8)+F(3)\times F(9) && = T(1)\times T(2)+T(8)+T(3)+T(9)\\
&:= F(1)\times F(4)\times (F(2)+F(6)+F(8)) && = (T(1)+T(4))\times T(2)+T(6)+T(8)\\
&:= F(1)+F(4)+F(5)\times F(7)+F(8) && = T(1)+T(4)+T(5)+T(7)+T(8)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{91} &:= (F(1)\times F(2)\times F(3)+F(5))\times F(7) && = T(1)\times T(2)\times (T(3)+T(5))+T(7)\\
&:= (F(1)+F(2))\times (F(5)+F(9))+F(7) && = T(1)\times T(2)+T(5)+T(9)+T(7)\\
&:= (F(1)+F(2)+F(3)+F(4))\times F(7) && = T(1)\times T(2)+T(3)\times T(4)+T(7)\\
&:= (F(5)+F(7))\times (F(3)+F(4))+F(2) && = T(5)+T(7)+(T(3)+T(4))\times T(2)\\
&:= F(1)+F(2)+F(8)+F(3)\times F(9) && = T(1)+T(2)+T(8)+T(3)+T(9)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{92} &:= F(1)\times F(2)+(F(5)+F(3))\times F(7) && = T(1)+T(2)\times (T(5)+T(3))+T(7)\\
&:= F(1)+(F(3)\times F(4)+F(2))\times F(7) && = T(1)+T(3)\times T(4)+T(2)+T(7)\\
&:= F(2)+F(7)+F(4)\times (F(5)+F(8)) && = T(2)+T(7)+T(4)+T(5)+T(8)\\
&:= F(4)\times (F(8)+F(2))+F(3)\times F(7) && = T(4)+T(8)+T(2)\times T(3)+T(7)
\end{aligned}
$$

$$
\mathbf{93} := F(2)\times F(4)\times (F(6)+F(3)+F(8)) \qquad = T(2)\times T(4)+T(6)+T(3)+T(8)
$$

$$
\begin{aligned}
\mathbf{94} &:= (F(2)+F(4)+F(6))\times F(5)+F(9) && = T(2)+T(4)+T(6)+T(5)+T(9)\\
&:= F(2)\times F(1)\times F(3)\times (F(7)+F(9)) && = T(2)\times (T(1)+T(3))+T(7)+T(9)\\
&:= F(4)\times F(6)+F(3)\times (F(2)+F(9)) && = T(4)+T(6)+T(3)\times T(2)+T(9)\\
&:= F(5)\times (F(7)+F(2))+F(4)\times F(6) && = T(5)+T(7)+T(2)\times T(4)+T(6)
\end{aligned}
$$

$$
\mathbf{95} := (F(1)+F(2))\times (F(4)+F(9))+F(8) \qquad = T(1)+T(2)+T(4)+T(9)+T(8)
$$

$$
\begin{aligned}
\mathbf{96} &:= (F(1)+F(5)+F(4)\times F(3))\times F(6) && = T(1)\times T(5)+T(4)\times T(3)+T(6)\\
&:= F(1)\times F(6)\times F(3)\times (F(2)+F(5)) && = (T(1)\times T(6)+T(3))\times T(2)+T(5)
\end{aligned}
$$

Selfie Expressions With Factorial, Fibonacci and Triangular Values,
Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

$$
\begin{aligned}
\mathbf{97} &:= (F(1)+F(2))\times(F(6)+F(9))+F(7) && = T(1)\times T(2)+T(6)+T(9)+T(7)\\
&:= (F(1)+F(4))\times F(2)\times F(8)+F(7) && = (T(1)+T(4))\times T(2)+T(8)+T(7)\\
&:= (F(1)+F(4)+F(9))\times F(3)+F(8) && = T(1)\times T(4)+T(9)+T(3)+T(8)\\
&:= F(1)+(F(5)+F(2))\times F(3)\times F(6) && = T(1)+T(5)+T(2)\times(T(3)+T(6))\\
&:= F(2)+(F(3)+F(7))\times F(5)+F(8) && = T(2)\times T(3)+T(7)+T(5)+T(8)\\
&:= F(4)\times(F(5)+F(3)\times F(6))+F(9) && = T(4)+T(5)+T(3)+T(6)+T(9)\\
&:= F(5)+(F(2)+F(4))\times(F(3)+F(8)) && = T(5)\times T(2)+T(4)+T(3)+T(8)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{99} &:= (F(1)+F(2))\times(F(9)+F(5))+F(8) && = T(1)\times T(2)+T(9)+T(5)+T(8)\\
&:= (F(3)\times F(4)+F(5))\times(F(2)+F(6)) && = T(3)\times T(4)+T(5)+T(2)+T(6)\\
&:= (F(5)\times F(3)+F(1))\times(F(6)+F(2)) && = T(5)+(T(3)+T(1)+T(6))\times T(2)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{100} &:= F(7)\times(F(3)+F(5))+F(2)+F(6) && = ((T(7)+T(3))+(T(5)\times T(2)))+T(6)\\
&:= (F(1)+F(3))\times(F(2)+F(8))+F(9) && = T(1)+T(3)\times T(2)+T(8)+T(9)\\
&:= F(2)+F(3)+F(4)\times F(8)+F(9) && = T(2)+T(3)+T(4)+T(8)+T(9)\\
&:= F(2)+F(4)\times F(3)\times F(7)+F(8) && = T(2)\times T(4)+T(3)+T(7)+T(8)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{101} &:= (F(7)+F(2))\times(F(3)+F(5))+F(4) && = (T(7)+(T(2)\times(T(3)+T(5))))+T(4)\\
&:= F(2)+F(3)\times(F(4)+F(7)+F(9)) && = T(2)\times T(3)+T(4)+T(7)+T(9)\\
&:= F(4)+(F(7)+F(2))\times(F(3)+F(5)) && = T(4)+T(7)+T(2)\times(T(3)+T(5))
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{102} &:= F(2)\times F(4)\times(F(5)+F(6)+F(8)) && = T(2)\times T(4)+T(5)+T(6)+T(8)\\
&:= F(3)\times(F(4)+(F(5)+F(2))\times F(6)) && = T(3)+(T(4)+T(5))\times T(2)+T(6)\\
&:= F(4)\times(F(6)+(F(2)+F(1))\times F(7)) && = T(4)+T(6)\times T(2)+T(1)+T(7)\\
&:= F(5)+(F(3)+F(1))\times F(8)+F(9) && = (T(5)+T(3))\times T(1)+T(8)+T(9)
\end{aligned}
$$

$$
\mathbf{103} := F(2)+F(6)+F(3)\times(F(7)+F(9)) \qquad = T(2)+T(6)+T(3)+T(7)+T(9)
$$

$$
\begin{aligned}
\mathbf{104} &:= (F(1)\times F(2)\times F(5)+F(4))\times F(7) && = T(1)+T(2)\times(T(5)+T(4))+T(7)\\
&:= (F(2)+F(5))\times(F(4)+F(7))+F(6) && = T(2)\times T(5)+T(4)+T(7)+T(6)\\
&:= (F(3)+F(4))\times F(7)+F(5)+F(9) && = T(3)+T(4)+T(7)+T(5)+T(9)\\
&:= F(1)+F(2)+F(4)\times(F(7)+F(8)) && = (T(1)+T(2))\times T(4)+T(7)+T(8)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{105} &:= (F(1)+F(2))\times(F(6)+F(9))+F(8) && = T(1)\times T(2)+T(6)+T(9)+T(8)\\
&:= (F(2)\times F(1)\times F(4)+F(3))\times F(8) && = T(2)+(T(1)+T(4))\times T(3)+T(8)\\
&:= F(1)+(F(3)+F(5)+F(2))\times F(7) && = T(1)\times T(3)+T(5)+T(2)\times T(7)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{106} &:= (F(1)+F(2))\times(F(6)\times F(5)+F(7)) && = T(1)\times T(2)\times T(6)+T(5)+T(7)\\
&:= F(2)\times F(3)+(F(4)+F(5))\times F(7) && = T(2)+T(3)\times T(4)+T(5)+T(7)\\
&:= F(3)\times(F(1)+(F(2)+F(4))\times F(7)) && = T(3)\times T(1)\times(T(2)+T(4))+T(7)
\end{aligned}
$$

$$:= F(5) \times (F(7) + F(2)) + F(3) + F(9) \quad = T(5) + T(7) + T(2) \times T(3) + T(9)$$

$$\mathbf{107} := F(2) + (F(6) + F(7)) \times F(5) + F(1) \quad = T(2) \times T(6) + T(7) + T(5) + T(1)$$

$$\mathbf{108} := F(1) \times F(2) \times F(4) \times (F(3) + F(9)) \quad = T(1) \times T(2) + T(4) \times T(3) + T(9)$$
$$:= F(1) + F(5) + (F(3) + F(2)) \times F(9) \quad = (T(1) \times T(5) + T(3)) \times T(2) + T(9)$$
$$:= F(3) \times ((F(4) + F(2)) \times F(5) + F(9)) \quad = (T(3) + T(4)) \times T(2) + T(5) + T(9)$$

$$\mathbf{109} := F(7) \times F(4) + (F(2) + F(9)) \times F(3) \quad = ((T(7) + (T(4) \times T(2))) + T(9)) + T(3)$$
$$:= F(1) \times F(2) \times F(5) + F(6) \times F(7) \quad = (T(1) + T(2)) \times T(5) + T(6) + T(7)$$
$$:= F(1) \times F(2) + F(4) \times (F(3) + F(9)) \quad = (T(1) + T(2)) \times (T(4) + T(3)) + T(9)$$
$$:= F(1) \times F(3) + F(4) + F(6) \times F(7) \quad = T(1) \times T(3) \times T(4) + T(6) + T(7)$$
$$:= F(1) + F(4) \times F(3) \times (F(5) + F(7)) \quad = (T(1) + T(4)) \times T(3) + T(5) + T(7)$$
$$:= F(3) \times F(7) \times (F(2) + F(4)) + F(5) \quad = T(3) + T(7) + T(2) \times (T(4) + T(5))$$

$$\mathbf{110} := F(1) + F(3) + F(4) + F(6) \times F(7) \quad = T(1) + T(3) \times T(4) + T(6) + T(7)$$
$$:= F(4) \times F(6) + F(5) \times F(7) + F(8) \quad = T(4) + T(6) + T(5) + T(7) + T(8)$$

$$\mathbf{111} := (F(1) + F(2)) \times F(4) + F(5) \times F(8) \quad = T(1) \times T(2) \times (T(4) + T(5)) + T(8)$$
$$:= F(8) \times F(5) + F(4) \times (F(2) + F(1)) \quad = (T(8) + ((T(5) + T(4)) \times T(2))) \times T(1)$$

$$\mathbf{112} := (F(1) + F(5) + F(2)) \times F(7) + F(8) \quad = (T(1) + T(5)) \times T(2) + T(7) + T(8)$$
$$:= (F(1) + F(7)) \times F(2) \times (F(4) + F(5)) \quad = (T(1) + T(7)) \times T(2) + T(4) + T(5)$$
$$:= (F(2) + F(1) + F(5)) \times F(7) + F(8) \quad = T(2) \times (T(1) + T(5)) + T(7) + T(8)$$
$$:= (F(2) + F(3) \times F(4)) \times F(7) + F(8) \quad = T(2) \times (T(3) + T(4)) + T(7) + T(8)$$
$$:= (F(2) + F(4)) \times F(3) + F(6) \times F(7) \quad = T(2) + T(4) \times T(3) + T(6) + T(7)$$
$$:= (F(2) + F(7)) \times F(5) + F(6) + F(9) \quad = T(2) + T(7) + T(5) + T(6) + T(9)$$

$$\mathbf{112} := (F(3) + F(5) + F(1)) \times (F(2) + F(7)) \quad = (T(3) + T(5)) \times (T(1) + T(2)) + T(7)$$
$$:= (F(4) + F(2)) \times (F(5) + F(8)) + F(6) \quad = T(4) + T(2) \times T(5) + T(8) + T(6)$$
$$:= (F(4) + F(2)) \times F(3) \times (F(1) + F(7)) \quad = T(4) + T(2) \times (T(3) \times T(1) + T(7))$$
$$:= F(1) + F(3) \times F(4) + F(5) \times F(8) \quad = T(1) + T(3) \times T(4) + T(5) + T(8)$$
$$:= F(2) + F(3) + F(5) + F(6) \times F(7) \quad = T(2) \times (T(3) + T(5)) + T(6) + T(7)$$
$$:= F(3) \times (F(2) + F(7) + F(6) + F(9)) \quad = T(3) \times T(2) + T(7) + T(6) + T(9)$$

$$\mathbf{114} := (F(2) + F(1)) \times F(5) \times F(6) + F(9) \quad = T(2) \times (T(1) + T(5)) + T(6) + T(9)$$
$$:= (F(2) + F(3)) \times (F(4) + F(1) + F(9)) \quad = T(2) + T(3) \times (T(4) + T(1)) + T(9)$$
$$:= (F(2) + F(3)) \times F(4) + F(5) \times F(8) \quad = T(2) + T(3) \times T(4) + T(5) + T(8)$$
$$:= (F(2) + F(5)) \times (F(4) + F(3) \times F(6)) \quad = T(2) \times (T(5) + T(4) + T(3)) + T(6)$$
$$:= F(1) \times F(2) + F(6) + F(5) \times F(8) \quad = T(1) \times T(2) \times T(6) + T(5) + T(8)$$

$$:= F(1)+F(4)+F(5)\times(F(2)+F(8)) \quad = (T(1)+T(4)+T(5))\times T(2)+T(8)$$
$$:= F(3)+F(6)\times F(2)\times(F(1)+F(7)) \quad = T(3)+T(6)+T(2)\times(T(1)+T(7))$$

$$\mathbf{115} := (F(1)+F(2)+F(4))\times(F(3)+F(8)) \quad = T(1)+(T(2)+T(4))\times T(3)+T(8)$$
$$:= F(1)\times F(4)+F(6)\times(F(2)+F(7)) \quad = T(1)\times T(4)+T(6)+T(2)\times T(7)$$
$$:= F(1)\times F(8)+F(3)\times(F(7)+F(9)) \quad = T(1)\times T(8)+T(3)+T(7)+T(9)$$
$$:= F(1)+F(2)+F(6)+F(5)\times F(8) \quad = T(1)+T(2)\times T(6)+T(5)+T(8)$$
$$:= F(3)\times F(6)+F(7)\times F(5)+F(9) \quad = T(3)+T(6)+T(7)+T(5)+T(9)$$

$$\mathbf{116} := F(1)+F(4)+F(6)\times(F(2)+F(7)) \quad = T(1)+T(4)+T(6)+T(2)\times T(7)$$
$$:= F(1)+F(8)+F(3)\times(F(7)+F(9)) \quad = T(1)+T(8)+T(3)+T(7)+T(9)$$

$$\mathbf{117} := (F(1)+F(5)+F(2)+F(3))\times F(7) \quad = T(1)\times T(5)+T(2)\times(T(3)+T(7))$$
$$:= F(2)+(F(4)+F(8)+F(9))\times F(3) \quad = T(2)\times T(4)+T(8)+T(9)+T(3)$$

$$\mathbf{118} := (F(1)+F(2))\times F(6)+F(4)\times F(9) \quad = T(1)\times T(2)\times T(6)+T(4)+T(9)$$
$$:= (F(1)+F(5))\times(F(2)+F(7))+F(9) \quad = T(1)\times T(5)\times T(2)+T(7)+T(9)$$
$$:= (F(1)+F(8))\times(F(3)+F(4))+F(6) \quad = T(1)+T(8)+T(3)\times T(4)+T(6)$$

$$\mathbf{118} := F(1)+(F(2)+F(3))\times F(4)\times F(7) \quad = (T(1)\times T(2)+T(3))\times T(4)+T(7)$$

$$\mathbf{120} := ((F(8)+F(2))\times F(1)+F(3))\times F(5) \quad = T(8)+((T(2)+T(1))\times(T(3)+T(5)))$$
$$:= (F(9)+F(8)+F(2))\times F(3)+F(6) \quad = ((T(9)+T(8))+(T(2)\times T(3)))+T(6)$$
$$:= (F(1)+F(3))\times(F(2)+F(4)\times F(7)) \quad = T(1)\times T(3)+T(2)\times(T(4)+T(7))$$
$$:= F(1)\times F(5)\times(F(3)+F(2))\times F(6) \quad = (T(1)+T(5))\times T(3)+T(2)+T(6)$$
$$:= F(1)+F(3)+F(4)\times(F(5)+F(9)) \quad = T(1)\times T(3)\times T(4)+T(5)+T(9)$$
$$:= F(4)\times((F(5)+F(1))\times F(2)+F(9)) \quad = (T(4)+T(5))\times T(1)\times T(2)+T(9)$$

$$\mathbf{121} := (F(1)+F(5)\times F(3))\times(F(6)+F(4)) \quad = T(1)\times T(5)\times T(3)+T(6)+T(4)$$
$$:= (F(2)\times F(4))\times(F(3)+F(9))+F(7) \quad = T(2)\times(T(4)+T(3))+T(9)+T(7)$$
$$:= F(1)\times F(2)+F(4)\times F(5)\times F(6) \quad = (T(1)+T(2))\times(T(4)+T(5))+T(6)$$
$$:= F(1)+F(4)\times(F(5)+F(2)+F(9)) \quad = T(1)+(T(4)+T(5))\times T(2)+T(9)$$
$$:= F(1)+F(4)+(F(6)+F(2))\times F(7) \quad = (T(1)\times T(4)+T(6))\times T(2)+T(7)$$
$$:= F(2)+(F(4)+F(5))\times(F(3)+F(7)) \quad = T(2)\times(T(4)+T(5)+T(3))+T(7)$$

$$\mathbf{122} := F(1)\times F(3)+F(5)\times F(6)\times F(4) \quad = T(1)+T(3)\times T(5)+T(6)+T(4)$$

$$\mathbf{123} := F(1)+F(7)\times(F(2)+F(6))+F(5) \quad = (T(1)+T(7))\times T(2)+T(6)+T(5)$$
$$:= F(2)\times F(4)\times(F(3)+F(5)+F(9)) \quad = T(2)+T(4)\times T(3)+T(5)+T(9)$$
$$:= F(3)\times(F(8)+F(9))+F(5)+F(6) \quad = T(3)+T(8)+T(9)+T(5)+T(6)$$

$$:= F(4) \times (F(1) + F(5) + F(2) + F(9)) \quad = (T(4) + T(1) + T(5)) \times T(2) + T(9)$$

124 $:= (F(2) + F(4)) \times F(5) + F(6) \times F(7) \quad = T(2) \times (T(4) + T(5)) + T(6) + T(7)$
$:= (F(2) + F(5)) \times (F(3) + F(7)) + F(9) \quad = T(2) \times T(5) + T(3) + T(7) + T(9)$
$:= F(2) + F(4) \times F(9) + F(6) + F(7) \quad = T(2) \times T(4) + T(9) + T(6) + T(7)$
$:= F(3) \times (F(4) \times (F(5) + F(7)) + F(6)) \quad = T(3) \times T(4) + T(5) + T(7) + T(6)$
$:= F(3) + (F(6) + F(2)) \times F(7) + F(5) \quad = (T(3) + T(6)) \times T(2) + T(7) + T(5)$
$:= F(5) \times F(6) + (F(2) + F(4)) \times F(8) \quad = T(5) + T(6) \times T(2) + T(4) + T(8)$

125 $:= (F(1) + F(4)) \times F(3) \times F(7) + F(8) \quad = T(1) + T(4) \times T(3) + T(7) + T(8)$
$:= (F(1) + F(7)) \times F(5) + F(8) + F(9) \quad = T(1) + T(7) + T(5) + T(8) + T(9)$

126 $:= (F(1) \times F(2) + F(3)) \times (F(6) + F(9)) \quad = T(1) \times T(2) \times (T(3) + T(6)) + T(9)$
$:= (F(1) \times F(2) + F(3) + F(4)) \times F(8) \quad = (T(1) \times T(2) + T(3)) \times T(4) + T(8)$
$:= (F(3) + F(1)) \times (F(4) + F(5) + F(9)) \quad = T(3) \times (T(1) + T(4)) + T(5) + T(9)$
$:= (F(3) + F(2)) \times (F(4) + F(5) + F(9)) \quad = T(3) + T(2) \times (T(4) + T(5)) + T(9)$
$:= F(2) \times F(4) \times (F(3) + F(6) \times F(5)) \quad = T(2) \times (T(4) + T(3) + T(6)) + T(5)$
$:= F(2) + (F(7) + F(3)) \times F(6) + F(5) \quad = T(2) \times T(7) + T(3) + T(6) + T(5)$
$:= F(6) \times (F(1) + F(3)) + F(4) \times F(9) \quad = T(6) \times T(1) + T(3) \times T(4) + T(9)$

127 $:= F(1) \times F(2) + F(3) \times F(4) \times F(8) \quad = T(1) + (T(2) + T(3)) \times T(4) + T(8)$
$:= F(1) + (F(2) + F(3)) \times (F(6) + F(9)) \quad = T(1) + T(2) \times (T(3) + T(6)) + T(9)$
$:= F(1) + F(2) + F(6) \times F(7) + F(8) \quad = T(1) \times T(2) \times T(6) + T(7) + T(8)$
$:= F(1) + F(7) \times F(6) + F(2) + F(8) \quad = T(1) \times T(7) + T(6) \times T(2) + T(8)$
$:= F(2) + F(4) \times F(3) \times (F(7) + F(6)) \quad = (T(2) + T(4)) \times T(3) + T(7) + T(6)$
$:= F(3) + F(5) \times (F(1) + F(4) \times F(6)) \quad = T(3) \times (T(5) + T(1)) + T(4) + T(6)$
$:= F(3) + F(5) \times (F(1) + F(6) \times F(4)) \quad = T(3) \times (T(5) + T(1)) + T(6) + T(4)$

128 $:= (F(1) + F(3) + F(5)) \times (F(4) + F(7)) \quad = T(1) \times T(3) \times T(5) + T(4) + T(7)$

129 $:= (F(1) + F(3)) \times (F(6) + F(2) + F(9)) \quad = (T(1) + T(3) + T(6)) \times T(2) + T(9)$
$:= F(2) \times F(4) \times (F(3) + F(9)) + F(8) \quad = T(2) \times (T(4) + T(3)) + T(9) + T(8)$
$:= F(2) + F(3) + (F(1) + F(5)) \times F(8) \quad = T(2) + T(3) \times T(1) \times T(5) + T(8)$
$:= F(2) + F(3) + F(4) \times (F(6) + F(9)) \quad = T(2) + T(3) \times T(4) + T(6) + T(9)$

130 $:= (F(1) + F(5) + F(2) + F(4)) \times F(7) \quad = T(1) + T(5) + T(2) \times (T(4) + T(7))$
$:= (F(3) + F(7)) \times F(5) + F(8) + F(9) \quad = T(3) + T(7) + T(5) + T(8) + T(9)$
$:= F(2) \times F(5) + F(6) \times F(7) + F(8) \quad = T(2) \times T(5) + T(6) + T(7) + T(8)$

131 $:= F(2) + (F(4) + F(3) + F(5)) \times F(7) \quad = T(2) + T(4) + T(3) \times T(5) + T(7)$

$$\begin{aligned}
\mathbf{132} &:= F(8)\times F(5)+F(4)\times(F(2)+F(6)) && = (T(8)+((T(5)+T(4))\times T(2)))+T(6)\\
&:= F(1)\times F(4)\times(F(3)+F(6)+F(9)) && = (T(1)+T(4))\times T(3)+T(6)+T(9)\\
&:= F(6)+F(2)+F(4)\times F(9)+F(8) && = T(6)+T(2)\times T(4)+T(9)+T(8)
\end{aligned}$$

$$\begin{aligned}
\mathbf{133} &:= F(1)+(F(2)+F(7)\times F(5))\times F(3) && = (T(1)+T(2))\times T(7)+T(5)+T(3)\\
&:= F(4)+(F(6)\times F(2)+F(3))\times F(7) && = T(4)+T(6)+T(2)\times(T(3)+T(7))\\
&:= F(4)+F(3)\times F(2)\times F(5)\times F(7) && = T(4)\times T(3)+T(2)\times T(5)+T(7)
\end{aligned}$$

$$\mathbf{134} := F(1)+F(5)\times F(3)\times F(7)+F(4) \qquad = (T(1)+T(5))\times T(3)+T(7)+T(4)$$

$$\begin{aligned}
\mathbf{135} &:= (F(3)+F(1))\times F(5)\times(F(2)+F(6)) && = T(3)\times(T(1)+T(5)+T(2))+T(6)\\
&:= F(2)\times F(5)\times(F(1)+F(7)\times F(3)) && = T(2)\times(T(5)\times T(1)+T(7))+T(3)\\
&:= F(2)+F(6)+(F(4)\times F(3))\times F(8) && = T(2)\times(T(6)+T(4))+T(3)+T(8)\\
&:= F(4)\times(F(1)+F(3)\times(F(2)+F(8))) && = (T(4)+T(1))\times(T(3)+T(2))+T(8)\\
&:= F(6)+F(1)+(F(2)+F(5))\times F(8) && = T(6)\times(T(1)+T(2))+T(5)+T(8)
\end{aligned}$$

$$\begin{aligned}
\mathbf{136} &:= (F(1)\times F(3)+F(5)\times F(4))\times F(6) && = (T(1)+T(3))\times T(5)+T(4)+T(6)\\
&:= (F(1)+F(2))\times(F(5)+F(4)\times F(8)) && = (T(1)+T(2))\times(T(5)+T(4))+T(8)\\
&:= (F(2)+F(3)\times F(6))\times(F(5)+F(4)) && = T(2)\times(T(3)+T(6)+T(5))+T(4)\\
&:= F(1)\times F(3)\times(F(5)+F(4)\times F(8)) && = T(1)\times T(3)\times T(5)+T(4)+T(8)\\
&:= F(1)\times F(6)\times(F(2)+F(4)+F(7)) && = T(1)+T(6)+T(2)\times(T(4)+T(7))\\
&:= F(1)+(F(2)+F(6))\times(F(3)+F(7)) && = (T(1)+T(2))\times(T(6)+T(3))+T(7)\\
&:= F(1)+F(5)\times(F(2)+F(3)\times F(7)) && = (T(1)\times T(5)+T(2))\times T(3)+T(7)
\end{aligned}$$

$$\mathbf{137} := F(1)+F(3)\times(F(5)+F(4)\times F(8)) \qquad = T(1)+T(3)\times T(5)+T(4)+T(8)$$

$$\begin{aligned}
\mathbf{138} &:= (F(1)+(F(2)+F(6))\times F(5))\times F(4) && = T(1)\times T(2)\times(T(6)+T(5)+T(4))\\
&:= F(2)\times F(7)\times F(3)\times F(5)+F(6) && = T(2)\times(T(7)+T(3))+T(5)+T(6)\\
&:= F(4)\times(F(3)\times(F(5)+F(2))+F(9)) && = (T(4)+T(3)+T(5))\times T(2)+T(9)
\end{aligned}$$

$$\begin{aligned}
\mathbf{139} &:= F(1)+F(6)\times F(2)\times F(7)+F(9) && = (T(1)+T(6))\times T(2)+T(7)+T(9)\\
&:= F(1)+F(6)+F(5)\times F(3)\times F(7) && = T(1)\times T(6)+T(5)\times T(3)+T(7)\\
&:= F(2)\times F(5)\times(F(6)+F(7))+F(9) && = T(2)\times T(5)+T(6)+T(7)+T(9)\\
&:= F(4)\times(F(2)+F(7)+F(8))+F(9) && = T(4)\times T(2)+T(7)+T(8)+T(9)
\end{aligned}$$

$$\mathbf{140} := (F(1)+F(6))\times(F(7)+F(3))+F(5) \qquad = T(1)+T(6)+T(7)+T(3)\times T(5)$$

$$\begin{aligned}
\mathbf{141} &:= (F(1)+F(2)+F(7))\times F(6)+F(8) && = T(1)\times T(2)\times T(7)+T(6)+T(8)\\
&:= (F(2)+F(3))\times(F(6)+F(5)+F(9)) && = T(2)\times(T(3)+T(6))+T(5)+T(9)
\end{aligned}$$

Selfie Expressions With Factorial, Fibonacci and Triangular Values,
Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

$$:= (F(2)+F(5))\times(F(8)+F(3))+F(4) = T(2)\times T(5)+T(8)+T(3)\times T(4)$$
$$:= (F(3)+F(5)\times(F(6)+F(2)))\times F(4) = T(3)\times T(5)+T(6)+T(2)\times T(4)$$
$$:= F(1)+F(2)+F(5)\times F(8)+F(9) = (T(1)+T(2))\times T(5)+T(8)+T(9)$$
$$:= F(2)\times F(4)\times(F(5)+F(6)+F(9)) = T(2)\times(T(4)+T(5))+T(6)+T(9)$$
$$:= F(3)+F(7)+(F(2)+F(5))\times F(8) = T(3)+T(7)\times T(2)+T(5)+T(8)$$
$$:= F(4)\times(F(7)\times(F(2)+F(3))+F(6)) = (T(4)+T(7))\times T(2)+T(3)+T(6)$$

142 $:= (F(2)+F(1))\times(F(8)\times F(4)+F(6)) = T(2)\times(T(1)+T(8))+T(4)+T(6)$
$$:= F(1)+(F(5)+F(3)\times F(8))\times F(4) = (T(1)+T(5))\times T(3)+T(8)+T(4)$$
$$:= F(1)+(F(7)\times F(2)+F(9))\times F(4) = (T(1)+T(7))\times T(2)+T(9)+T(4)$$
$$:= F(2)+F(4)\times(F(3)\times F(7)+F(8)) = (T(2)+T(4))\times T(3)+T(7)+T(8)$$
$$:= F(3)\times(F(1)+F(5)\times(F(2)+F(7))) = T(3)\times(T(1)+T(5)+T(2))+T(7)$$

143 $:= (F(1)+F(3)+F(5)+F(4))\times F(7) = (T(1)+T(3))\times T(5)+T(4)+T(7)$
$$:= F(1)\times F(2)\times F(7)\times(F(4)+F(6)) = (T(1)+T(2))\times T(7)+T(4)+T(6)$$
$$:= F(1)\times F(3)+F(4)\times(F(7)+F(9)) = (T(1)+T(3))\times T(4)+T(7)+T(9)$$

144 $:= (F(1)+F(4))\times F(2)\times(F(3)+F(9)) = (T(1)+T(4))\times(T(2)+T(3))+T(9)$
$$:= (F(1)+F(5))\times(F(2)+F(3))\times F(6) = T(1)\times T(5)+T(2)+T(3)\times T(6)$$
$$:= (F(1)+F(5))\times(F(2)+F(3)+F(8)) = (T(1)\times T(5)+T(2))\times T(3)+T(8)$$
$$:= (F(2)+F(5)+F(4))\times F(6)\times F(3) = T(2)\times(T(5)+T(4)+T(6))+T(3)$$
$$:= (F(2)+F(8))\times(F(3)+F(4))+F(9) = T(2)+T(8)+T(3)\times T(4)+T(9)$$

145 $:= (F(3)+F(4))\times(F(6)\times F(2)+F(8)) = T(3)+T(4)+T(6)+T(2)\times T(8)$
$$:= (F(4)+F(3)\times F(2)\times F(7))\times F(5) = T(4)+T(3)+T(2)\times(T(7)+T(5))$$
$$:= F(1)\times F(2)\times F(5)\times(F(6)+F(8)) = T(1)+T(2)\times(T(5)+T(6))+T(8)$$
$$:= F(1)\times F(5)\times(F(3)\times F(6)+F(7)) = (T(1)+T(5))\times T(3)+T(6)+T(7)$$
$$:= F(4)\times F(7)+F(2)+F(5)\times F(8) = T(4)+T(7)\times T(2)+T(5)+T(8)$$

146 $:= F(3)\times F(5)+(F(1)+F(4))\times F(9) = T(3)\times T(5)+T(1)+T(4)+T(9)$
$$:= F(4)+(F(3)\times F(5)+F(2))\times F(7) = T(4)+T(3)\times(T(5)+T(2))+T(7)$$

147 $:= (F(9)+F(1))\times F(4)+F(3)\times F(8) = (T(9)+((T(1)+T(4))\times T(3)))+T(8)$
$$:= (F(3)+F(2)+F(4)+F(1))\times F(8) = T(3)+T(2)\times(T(4)+T(1)+T(8))$$
$$:= F(2)\times F(5)\times F(8)+F(6)+F(9) = T(2)\times T(5)+T(8)+T(6)+T(9)$$
$$:= F(2)+F(1)+F(5)\times(F(6)+F(8)) = T(2)\times(T(1)+T(5)+T(6))+T(8)$$
$$:= F(3)\times F(8)+F(2)+F(7)\times F(6) = T(3)+T(8)+T(2)\times T(7)+T(6)$$
$$:= F(3)+F(5)\times F(1)\times(F(6)+F(8)) = T(3)\times T(5)\times T(1)+T(6)+T(8)$$

148 $:= F(1)+F(3)+F(5)\times(F(6)+F(8)) = T(1)+T(3)\times T(5)+T(6)+T(8)$

$$:= F(5)+F(3)+F(4)\times(F(7)+F(9)) \quad = T(5)+T(3)\times T(4)+T(7)+T(9)$$

149 $:= (F(3)+F(5)\times F(4))\times F(6)+F(7) \quad = T(3)\times T(5)+T(4)+T(6)+T(7)$
150 $:= (F(2)+F(7)+F(1))\times F(5)\times F(3) \quad = T(2)\times(T(7)+T(1)+T(5)+T(3))$

151 $:= (F(1)+F(6))\times F(2)\times F(7)+F(9) \quad = T(1)+T(6)+T(2)\times T(7)+T(9)$
$:= F(1)+F(4)\times F(5)\times(F(3)+F(6)) \quad = T(1)\times T(4)+T(5)+T(3)\times T(6)$
$:= F(4)\times(F(2)+F(3))\times F(7)+F(9) \quad = (T(4)+T(2))\times T(3)+T(7)+T(9)$
$:= F(4)+F(1)+(F(3)+F(5))\times F(8) \quad = T(4)+(T(1)+T(3))\times T(5)+T(8)$
$:= F(4)+F(2)+F(8)\times(F(3)+F(5)) \quad = T(4)+T(2)\times(T(8)+T(3))+T(5)$
$:= F(5)\times F(7)\times(F(1)+F(2))+F(8) \quad = T(5)+T(7)\times T(1)+T(2)\times T(8)$
$:= F(5)+(F(7)+F(2))\times F(6)+F(9) \quad = T(5)+T(7)+T(2)\times T(6)+T(9)$

152 $:= (F(7)+(F(1)+F(2))\times F(4))\times F(6) \quad = T(7)+((T(1)+T(2))\times(T(4)+T(6)))$
$:= F(3)\times(F(7)+F(4)\times F(2)\times F(8)) \quad = T(3)+T(7)+T(4)+T(2)\times T(8)$

153 $:= F(2)+(F(1)+F(5)+F(7))\times F(6) \quad = T(2)\times(T(1)+T(5)+T(7))+T(6)$
$:= F(2)+(F(4)\times F(3)+F(7))\times F(6) \quad = T(2)\times(T(4)+T(3)+T(7))+T(6)$

154 $:= (F(1)+F(3)\times F(5))\times(F(2)+F(7)) \quad = (T(1)+T(3))\times(T(5)+T(2))+T(7)$
$:= (F(1)+F(7))\times(F(6)+F(2)+F(3)) \quad = T(1)+(T(7)+T(6))\times T(2)+T(3)$
$:= (F(3)+F(5))\times(F(6)+F(2)+F(7)) \quad = (T(3)+T(5)+T(6))\times T(2)+T(7)$
$:= F(2)\times F(6)\times(F(3)+F(7))+F(9) \quad = T(2)\times(T(6)+T(3))+T(7)+T(9)$
$:= F(3)\times(F(2)+F(4)\times F(8)+F(7)) \quad = (T(3)+T(2))\times T(4)+T(8)+T(7)$
$:= F(3)\times(F(4)\times F(7)+F(9))+F(6) \quad = T(3)\times T(4)+T(7)+T(9)+T(6)$
$:= F(5)+F(7)+(F(2)+F(4))\times F(9) \quad = T(5)+T(7)\times T(2)+T(4)+T(9)$

156 $:= (F(1)+F(3)+F(2))\times(F(9)+F(5)) \quad = T(1)\times T(3)+T(2)\times T(9)+T(5)$
$:= (F(2)+F(1))\times F(4)\times(F(8)+F(5)) \quad = T(2)\times(T(1)+T(4)+T(8))+T(5)$
$:= (F(2)+F(4)+F(3))\times(F(5)+F(8)) \quad = T(2)\times T(4)+T(3)\times T(5)+T(8)$
$:= (F(2)+F(5))\times(F(3)+F(4)\times F(6)) \quad = T(2)\times(T(5)+T(3)+T(4)+T(6))$
$:= (F(3)+F(2)+F(1)+F(6))\times F(7) \quad = T(3)+T(2)\times(T(1)+T(6)+T(7))$
$:= F(3)\times(F(5)\times(F(7)+F(2))+F(6)) \quad = T(3)+(T(5)+T(7))\times T(2)+T(6)$
$:= F(3)+(F(4)+F(8))\times F(5)+F(9) \quad = T(3)\times T(4)+T(8)+T(5)+T(9)$

157 $:= (F(3)+F(5)\times F(4))\times F(6)+F(8) \quad = T(3)\times T(5)+T(4)+T(6)+T(8)$
$:= F(1)+(F(4)+F(2)+F(6))\times F(7) \quad = T(1)\times T(4)+T(2)\times(T(6)+T(7))$
$:= F(8)+(F(7)+F(2)+F(4))\times F(6) \quad = (T(8)+T(7))+(T(2)\times(T(4)+T(6)))$

159 $:= (F(6)+F(2))\times F(7)+F(3)\times F(8) \quad = T(6)+T(2)\times(T(7)+T(3))+T(8)$

Selfie Expressions With Factorial, Fibonacci and Triangular Values,
Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

$$:= F(3) + (F(2) + F(4)) \times F(9) + F(8) \quad = T(3) \times (T(2) + T(4)) + T(9) + T(8)$$
$$:= F(4) + F(3) \times (F(5) + F(2)) \times F(7) \quad = T(4) \times T(3) + T(5) + T(2) \times T(7)$$

$$\mathbf{160} := (F(1) \times F(5) + F(3)) \times F(8) + F(7) \quad = (T(1) + T(5)) \times T(3) + T(8) + T(7)$$
$$:= (F(1) + F(2)) \times F(5) \times (F(4) + F(7)) \quad = T(1) + T(2) \times (T(5) + T(4) + T(7))$$
$$:= (F(1) + F(2)) \times F(6) \times F(3) \times F(5) \quad = T(1) + (T(2) + T(6)) \times T(3) + T(5)$$
$$:= (F(1) + F(4)) \times (F(5) + F(2) + F(9)) \quad = T(1) \times T(4) + T(5) + T(2) \times T(9)$$
$$:= (F(2) + F(1) + F(6)) \times (F(7) + F(4)) \quad = T(2) \times (T(1) + T(6) + T(7)) + T(4)$$
$$:= F(4) \times (F(6) \times F(5) + F(7)) + F(2) \quad = T(4) + T(6) + (T(5) + T(7)) \times T(2)$$

$$\mathbf{162} := (F(8) + F(1)) \times (F(3) + F(5)) + F(6) \quad = (T(8) + ((T(1) + T(3)) \times T(5))) + T(6)$$
$$:= (F(1) \times F(2) + F(6)) \times (F(7) + F(5)) \quad = T(1) \times T(2) \times (T(6) + T(7)) + T(5)$$
$$:= F(6) + (F(5) + F(3)) \times (F(8) + F(2)) \quad = (T(6) + T(5)) + ((T(3) + T(8)) \times T(2))$$

$$\mathbf{163} := F(1) + (F(2) + F(6)) \times (F(7) + F(5)) \quad = T(1) + T(2) \times (T(6) + T(7)) + T(5)$$

$$\mathbf{164} := (F(4) \times F(3) + F(5)) \times F(7) + F(8) \quad = T(4) + T(3) \times T(5) + T(7) + T(8)$$
$$:= F(1) \times F(3) \times F(5) \times F(7) + F(9) \quad = T(1) + T(3) \times T(5) + T(7) + T(9)$$

$$\mathbf{165} := (F(1) \times F(4) + F(6)) \times (F(3) + F(7)) \quad = T(1) + T(4) + T(6) \times T(3) + T(7)$$
$$:= (F(2) \times F(7) + F(3)) \times (F(4) + F(6)) \quad = T(2) \times T(7) + T(3) \times T(4) + T(6)$$
$$:= F(4) \times F(7) + (F(2) + F(5)) \times F(8) \quad = (T(4) + T(7)) \times T(2) + T(5) + T(8)$$

$$\mathbf{166} := F(1) + (F(8) \times F(2) + F(9)) \times F(4) \quad = (T(1) + T(8)) \times T(2) + T(9) + T(4)$$
$$:= F(3) \times (F(5) \times F(7) + F(2)) + F(9) \quad = T(3) \times T(5) + T(7) + T(2) + T(9)$$

$$\mathbf{167} := F(2) \times F(8) \times F(4) + F(6) \times F(7) \quad = T(2) \times T(8) + T(4) + T(6) + T(7)$$

$$\mathbf{168} := (F(1) + F(4)) \times F(3) \times F(2) \times F(8) \quad = T(1) \times T(4) \times T(3) + T(2) \times T(8)$$
$$:= (F(2) + F(3) + F(7) + F(5)) \times F(6) \quad = T(2) \times (T(3) + T(7) + T(5)) + T(6)$$
$$:= F(2) \times F(6) \times (F(5) + F(3)) \times F(4) \quad = T(2) \times (T(6) + T(5)) + T(3) \times T(4)$$

$$\mathbf{169} := F(1) \times F(2) + F(8) \times (F(4) + F(5)) \quad = (T(1) + T(2)) \times T(8) + T(4) + T(5)$$
$$:= F(1) + F(3) \times (F(4) + F(2)) \times F(8) \quad = T(1) + T(3) \times T(4) + T(2) \times T(8)$$
$$:= F(2) + F(6) \times (F(3) + F(5)) \times F(4) \quad = (T(2) + T(6)) \times T(3) + T(5) + T(4)$$
$$:= F(5) \times (F(1) + F(3) \times F(7)) + F(9) \quad = (T(5) + T(1)) \times T(3) + T(7) + T(9)$$

$$\mathbf{170} := (F(1) \times F(7) \times F(3) + F(6)) \times F(5) \quad = T(1) + T(7) + T(3) \times T(6) + T(5)$$
$$:= F(1) + (F(6) + F(3) + F(4)) \times F(7) \quad = (T(1) + T(6)) \times T(3) + T(4) + T(7)$$

$$
\begin{aligned}
\mathbf{171} &:= (F(5)+F(2)+F(3))\times F(8)+F(4) && = T(5)+T(2)\times(T(3)+T(8)+T(4))\\
&:= F(1)+(F(3)\times F(2)+F(4))\times F(9) && = T(1)\times T(3)+T(2)\times(T(4)+T(9))\\
&:= F(3)+F(1)+F(6)\times F(2)\times F(8) && = T(3)\times(T(1)+T(6))+T(2)+T(8)\\
&:= F(4)\times(F(2)+(F(5)+F(3))\times F(6)) && = T(4)\times T(2)+T(5)+T(3)\times T(6)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{172} &:= (F(1)+F(5))\times(F(3)+F(8))+F(9) && = T(1)+T(5)\times T(3)+T(8)+T(9)\\
&:= (F(2)+F(6))\times F(7)+F(8)+F(9) && = T(2)\times T(6)+T(7)+T(8)+T(9)\\
&:= F(2)+F(3)+(F(6)+F(5))\times F(7) && = T(2)+T(3)\times T(6)+T(5)+T(7)\\
&:= F(3)\times F(2)\times(F(5)\times F(7)+F(8)) && = T(3)\times(T(2)+T(5))+T(7)+T(8)\\
&:= F(3)+(F(1)+F(2)+F(4))\times F(9) && = T(3)+T(1)+T(2)\times(T(4)+T(9))\\
&:= F(4)+(F(5)\times F(2)+F(6))\times F(7) && = T(4)+T(5)+T(2)\times(T(6)+T(7))
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{173} &:= F(1)\times F(4)+F(8)\times F(6)+F(3) && = T(1)+T(4)+T(8)+T(6)\times T(3)\\
&:= F(4)\times(F(9)+F(3))+F(5)\times F(7) && = T(4)+T(9)+T(3)\times T(5)+T(7)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{174} &:= (F(1)\times F(2)+F(5))\times(F(8)+F(6)) && = T(1)\times T(2)\times(T(5)+T(8))+T(6)\\
&:= F(2)+F(6)+F(4)\times(F(8)+F(9)) && = T(2)\times(T(6)+T(4))+T(8)+T(9)\\
&:= F(2)+F(9)\times F(3)+F(5)\times F(8) && = T(2)+T(9)+T(3)\times T(5)+T(8)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{175} &:= (F(1)+F(6)+F(3)\times F(7))\times F(5) && = (T(1)+T(6))\times T(3)+T(7)+T(5)\\
&:= F(1)+F(2)+F(5)+F(8)\times F(6) && = T(1)+T(2)\times(T(5)+T(8))+T(6)\\
&:= F(2)+F(4)\times F(3)+F(6)\times F(8) && = T(2)+T(4)+T(3)\times T(6)+T(8)
\end{aligned}
$$

$$
\mathbf{177} := (F(2)+F(3))\times F(4)+F(8)\times F(6) \qquad = T(2)\times(T(3)+T(4)+T(8))+T(6)
$$

$$
\begin{aligned}
\mathbf{178} &:= (F(4)+F(2))\times F(3)+F(9)\times F(5) && = T(4)+T(2)\times(T(3)+T(9))+T(5)\\
&:= (F(4)+F(8))\times(F(2)+F(5))+F(9) && = T(4)+T(8)\times T(2)+T(5)+T(9)\\
&:= F(1)\times F(3)+(F(2)+F(8))\times F(6) && = T(1)+T(3)+T(2)\times(T(8)+T(6))\\
&:= F(1)\times F(5)\times F(3)+F(6)\times F(8) && = T(1)+T(5)+T(3)\times T(6)+T(8)\\
&:= F(3)\times(F(8)+(F(1)+F(2))\times F(9)) && = T(3)+T(8)+T(1)+T(2)\times T(9)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{180} &:= (F(2)\times F(3)+F(6))\times(F(7)+F(5)) && = T(2)\times(T(3)+T(6)+T(7))+T(5)\\
&:= (F(2)+F(5))\times F(4)\times(F(3)+F(6)) && = T(2)+T(5)\times T(4)+T(3)+T(6)\\
&:= F(1)\times F(5)\times(F(3)\times F(2)+F(9)) && = T(1)\times T(5)\times(T(3)+T(2))+T(9)\\
&:= F(4)\times((F(3)+F(2))\times F(7)+F(8)) && = T(4)\times T(3)+T(2)\times T(7)+T(8)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{181} &:= F(1)+(F(5)\times F(2))\times(F(3)+F(9)) && = T(1)+T(5)\times(T(2)+T(3))+T(9)\\
&:= F(2)\times F(8)\times(F(4)+F(5))+F(7) && = T(2)\times(T(8)+T(4))+T(5)+T(7)\\
&:= F(2)+(F(6)+F(3))\times(F(5)+F(7)) && = T(2)\times T(6)+T(3)\times T(5)+T(7)\\
&:= F(4)+F(6)+F(5)\times F(2)\times F(9) && = T(4)+T(6)+T(5)+T(2)\times T(9)
\end{aligned}
$$

Selfie Expressions With Factorial, Fibonacci and Triangular Values,
Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

$$\begin{aligned}
\mathbf{182} &:= (F(2)+F(6)+F(3)+F(4))\times F(7) && = (T(2)+T(6))\times T(3)+T(4)+T(7)\\
\\
\mathbf{183} &:= (F(3)+F(1))\times(F(6)\times F(5)+F(8)) && = T(3)\times(T(1)+T(6))+T(5)+T(8)\\
&:= F(1)+F(2)+F(7)+F(6)\times F(8) && = T(1)\times T(2)\times(T(7)+T(6))+T(8)\\
&:= F(2)+F(7)\times(F(6)+F(4)\times F(3)) && = T(2)\times(T(7)+T(6)+T(4))+T(3)\\
&:= F(4)+(F(1)+F(9)+F(2))\times F(5) && = (T(4)+T(1)+T(9))\times T(2)+T(5)\\
\\
\mathbf{184} &:= (F(2)+F(8))\times(F(5)+F(4))+F(6) && = T(2)\times(T(8)+T(5))+T(4)+T(6)\\
&:= (F(4)+F(5))\times(F(8)+F(2)+F(1)) && = (T(4)+T(5)+T(8))\times T(2)+T(1)\\
&:= F(3)+(F(2)+F(5)+F(6))\times F(7) && = (T(3)+T(2))\times T(5)+T(6)+T(7)\\
\\
\mathbf{186} &:= F(1)\times F(3)\times F(6)+F(5)\times F(9) && = (T(1)\times T(3))\times T(6)+T(5)+T(9)\\
&:= F(1)+(F(3)+F(2)+F(9))\times F(5) && = T(1)\times T(3)+T(2)\times(T(9)+T(5))\\
&:= F(1)+F(2)+F(6)\times(F(3)+F(8)) && = (T(1)+T(2)+T(6))\times T(3)+T(8)\\
&:= F(2)\times F(5)+F(7)+F(6)\times F(8) && = T(2)\times(T(5)+T(7))+T(6)+T(8)\\
\\
\mathbf{187} &:= F(1)+F(3)\times F(6)+F(5)\times F(9) && = T(1)+T(3)\times T(6)+T(5)+T(9)\\
&:= F(4)+(F(3)\times F(2)+F(8))\times F(6) && = T(4)+T(3)+T(2)\times(T(8)+T(6))\\
\\
\mathbf{189} &:= (F(1)\times F(2)+F(4)+F(5))\times F(8) && = T(1)\times T(2)+T(4)\times T(5)+T(8)\\
&:= (F(2)+F(1)+F(8))\times F(6)+F(5) && = T(2)\times(T(1)+T(8)+T(6))+T(5)\\
&:= F(2)\times F(6)\times(F(8)+F(3))+F(5) && = T(2)\times T(6)+T(8)+T(3)\times T(5)\\
&:= F(2)+(F(3)+F(9))\times F(5)+F(6) && = T(2)\times(T(3)+T(9))+T(5)+T(6)\\
&:= F(4)\times(F(5)+F(3))\times(F(2)+F(6)) && = T(4)\times T(5)+T(3)\times T(2)+T(6)\\
\\
\mathbf{190} &:= ((F(1)+F(4))\times F(2)+F(9))\times F(5) && = T(1)\times T(4)+T(2)\times(T(9)+T(5))\\
&:= (F(6)+F(3))\times(F(1)+F(5)+F(7)) && = T(6)\times(T(3)+T(1))+T(5)+T(7)\\
&:= F(1)+(F(2)+F(4)+F(5))\times F(8) && = T(1)+T(2)+T(4)\times T(5)+T(8)\\
\\
\mathbf{191} &:= (F(1)+F(8))\times F(6)+F(3)+F(7) && = ((T(1)+T(8))+(T(6)\times T(3)))+T(7)\\
&:= F(1)+(F(4)+F(2)+F(9))\times F(5) && = (T(1)+T(4))+(T(2)\times(T(9)+T(5)))\\
\\
\mathbf{192} &:= (F(1)+F(3)+F(5))\times(F(4)+F(8)) && = ((T(1)\times T(3))+(T(5)\times T(4)))+T(8)\\
&:= (F(3)+F(1))\times(F(4)+F(5))\times F(6) && = (T(3)+((T(1)+T(4))\times T(5)))+T(6)\\
&:= F(2)+F(3)+(F(1)+F(6))\times F(8) && = T(2)\times(((T(3)+T(1))+T(6))+T(8))\\
\\
\mathbf{195} &:= (F(2)+F(1)+F(5)+F(6))\times F(7) && = T(2)\times(((T(1)+T(5))+T(6))+T(7))\\
&:= (F(2)+F(4)\times F(3)+F(6))\times F(7) && = T(2)\times(((T(4)+T(3))+T(6))+T(7))\\
&:= (F(3)+F(5)+F(6))\times F(2)\times F(7) && = ((T(3)\times T(5))+T(6))+(T(2)\times T(7))
\end{aligned}$$

$$:= F(1) \times F(5) \times (F(4) + F(3) + F(9)) \quad = (((T(1) \times T(5)) + T(4)) \times T(3)) + T(9)$$
$$:= F(5) \times ((F(2) + F(6)) \times F(3) + F(8)) \quad = (T(5) + ((T(2) + T(6)) \times T(3))) + T(8)$$

$$\mathbf{196} := F(1) + (F(2) + F(3)) \times F(5) \times F(7) \quad = (T(1) + T(2)) \times ((T(3) + T(5)) + T(7))$$
$$:= F(1) + (F(9) + F(3) + F(4)) \times F(5) \quad = (T(1) + T(9)) + (T(3) \times (T(4) + T(5)))$$
$$:= F(2) + (F(5) + F(9)) \times (F(3) + F(4)) \quad = ((T(2) \times (T(5) + T(9))) + T(3)) + T(4)$$
$$:= F(2) + F(7) \times F(4) \times F(1) \times F(5) \quad = (T(2) + T(7)) + ((T(4) + T(1)) \times T(5))$$
$$:= F(3) + F(6) \times F(4) + F(5) \times F(9) \quad = (((T(3) \times T(6)) + T(4)) + T(5)) + T(9)$$

$$\mathbf{198} := (F(5) + F(7)) \times (F(6) + F(2) + F(3)) \quad = (((T(5) + T(7)) + T(6)) \times T(2)) + T(3)$$

$$\mathbf{199} := (F(9) + F(7)) \times F(3) + F(5) \times F(8) \quad = ((T(9) + T(7)) + (T(3) \times T(5))) + T(8)$$
$$:= F(1) + (F(6) + F(4)) \times (F(5) + F(7)) \quad = ((T(1) \times T(6)) + (T(4) \times T(5))) + T(7)$$

$$\mathbf{200} := (F(4) + F(7)) \times F(3) + F(6) \times F(8) \quad = ((T(4) + T(7)) + (T(3) \times T(6))) + T(8)$$
$$:= (F(7) + (F(1) + F(6)) \times F(4)) \times F(5) \quad = ((T(7) + T(1)) + T(6)) + (T(4) \times T(5))$$

$$\mathbf{201} := F(1) + (F(3) + F(4)) \times F(6) \times F(5) \quad = ((T(1) \times T(3)) \times (T(4) + T(6))) + T(5)$$
$$:= F(1) + F(5) \times (F(4) \times F(3) + F(9)) \quad = (((T(1) + T(5)) + T(4)) \times T(3)) + T(9)$$
$$:= F(2) + F(6) \times (F(1) + F(4) + F(8)) \quad = T(2) \times (((T(6) \times T(1)) + T(4)) + T(8))$$
$$:= F(6) \times (F(3) + F(4)) \times F(5) + F(2) \quad = (T(6) \times T(3)) + ((T(4) + T(5)) \times T(2))$$

$$\mathbf{202} := (F(1) + F(6)) \times F(8) \times F(2) + F(7) \quad = (((T(1) + T(6)) + T(8)) \times T(2)) + T(7)$$

$$\mathbf{204} := (F(1) + F(5)) \times (F(6) + F(3) \times F(7)) \quad = ((T(1) \times T(5)) + T(6)) + (T(3) \times T(7))$$
$$:= F(2) + (F(6) + F(8)) \times (F(3) + F(5)) \quad = (T(2) \times ((T(6) + T(8)) + T(3))) + T(5)$$
$$:= F(4) \times (F(5) + (F(2) + F(3)) \times F(8)) \quad = (((T(4) + T(5)) + T(2)) \times T(3)) + T(8)$$
$$:= F(4) \times F(5) + F(8) \times (F(2) + F(6)) \quad = (((T(4) + T(5)) + T(8)) \times T(2)) + T(6)$$

$$\mathbf{205} := F(1) + (F(3) + F(4) + F(2)) \times F(9) \quad = (T(1) + T(3)) \times T(4) + T(2) \times T(9)$$
$$:= F(3) + F(6) + F(4) \times F(5) \times F(7) \quad = T(3) + T(6) + T(4) \times T(5) + T(7)$$
$$:= F(6) \times (F(3) \times F(5) + F(7)) + F(8) \quad = T(6) \times T(3) + T(5) + T(7) + T(8)$$

$$\mathbf{207} := (F(1) + F(4) + F(5)) \times (F(3) + F(8)) \quad = (T(1) + T(4)) \times T(5) + T(3) + T(8)$$
$$:= (F(2) + F(6)) \times (F(5) \times F(3) + F(7)) \quad = T(2) + T(6) + T(5) + T(3) \times T(7)$$
$$:= F(2) \times F(9) + F(5) + F(6) \times F(8) \quad = T(2) \times T(9) + T(5) + T(6) + T(8)$$
$$:= F(4) \times ((F(1) + F(5)) \times F(6) + F(8)) \quad = T(4) \times T(1) \times T(5) + T(6) + T(8)$$

$$\mathbf{208} := (F(1) + F(2)) \times (F(5) + F(4)) \times F(7) \quad = (T(1) \times T(2) + T(5)) \times T(4) + T(7)$$
$$:= (F(2) + F(4)) \times (F(9) + F(5) + F(7)) \quad = T(2) \times (T(4) + T(9)) + T(5) + T(7)$$

$:= (F(4)+F(2)) \times (F(8)+F(5)) \times F(3) \quad = T(4)+T(2) \times T(8)+T(5) \times T(3)$
$:= F(1) \times F(6) \times F(3) \times F(2) \times F(7) \quad = T(1)+T(6)+T(3) \times (T(2)+T(7))$
$:= F(2)+F(4)+(F(1)+F(5)) \times F(9) \quad = T(2)+T(4) \times (T(1)+T(5))+T(9)$
$:= F(2)+F(8) \times F(5)+F(4) \times F(9) \quad = T(2) \times (T(8)+T(5))+T(4)+T(9)$

209 $:= (F(4)+F(2)) \times (F(9)+F(7))+F(8) \quad = T(4)+T(2) \times T(9)+T(7)+T(8)$
$:= F(1)+(F(4) \times F(5)+F(2)) \times F(7) \quad = T(1)+T(4) \times (T(5)+T(2))+T(7)$
$:= F(1)+(F(5)+F(4)+F(6)) \times F(7) \quad = (T(1)+T(5)) \times T(4)+T(6)+T(7)$

210 $:= (F(1) \times F(2)+F(8)) \times F(6)+F(9) \quad = (T(1)+T(2)) \times T(8)+T(6)+T(9)$
$:= (F(1)+F(7)+F(8)) \times (F(2)+F(5)) \quad = (T(1)+T(7)+T(8)) \times T(2)+T(5)$
$:= (F(5)+F(6)+F(3)) \times (F(1)+F(7)) \quad = T(5)+T(6)+T(3) \times (T(1)+T(7))$
$:= F(1) \times F(2) \times F(5) \times F(8) \times F(3) \quad = (T(1)+T(2)) \times (T(5)+T(8))+T(3)$
$:= F(2) \times F(3) \times F(5) \times (F(6)+F(7)) \quad = T(2) \times (T(3)+T(5)+T(6)+T(7))$
$:= F(3) \times (F(1)+(F(6) \times F(2)) \times F(7)) \quad = T(3) \times T(1) \times T(6)+T(2) \times T(7)$
$:= F(3) \times F(4)+(F(5)+F(2)) \times F(9) \quad = T(3) \times T(4)+T(5)+T(2) \times T(9)$

211 $:= F(1)+(F(2)+F(7) \times F(6)) \times F(3) \quad = T(1)+T(2) \times T(7)+T(6) \times T(3)$
$:= F(1)+(F(3)+F(4)+F(5)) \times F(8) \quad = (T(1)+T(3)) \times (T(4)+T(5))+T(8)$
$:= F(3) \times (F(9) \times F(4)+F(1))+F(5) \quad = T(3)+T(9)+T(4) \times (T(1)+T(5))$

213 $:= F(1)+(F(5)+F(2)) \times F(9)+F(6) \quad = T(1) \times T(5)+T(2) \times (T(9)+T(6))$
$:= F(1)+F(3) \times (F(5) \times F(8)+F(2)) \quad = (T(1)+T(3)) \times T(5)+T(8) \times T(2)$
$:= F(4) \times (F(5) \times (F(3)+F(6))+F(8)) \quad = T(4) \times T(5)+T(3)+T(6)+T(8)$
$:= F(4)+(F(1)+F(5)) \times (F(2)+F(9)) \quad = (T(4)+T(1)) \times T(5)+T(2)+T(9)$
$:= F(4)+F(3) \times F(2) \times F(5) \times F(8) \quad = T(4) \times T(3)+T(2) \times (T(5)+T(8))$

214 $:= ((F(8)+F(7)) \times F(4)+F(5)) \times F(3) \quad = (T(8)+T(7))+((T(4)+T(5)) \times T(3))$
$:= (F(3)+F(6)) \times (F(5)+F(7))+F(9) \quad = T(3) \times T(6)+T(5)+T(7)+T(9)$
$:= F(1) \times F(3) \times (F(4)+F(6) \times F(7)) \quad = T(1) \times T(3) \times (T(4)+T(6))+T(7)$
$:= F(4) \times F(9)+(F(2)+F(7)) \times F(6) \quad = (T(4)+T(9)) \times T(2)+T(7)+T(6)$
$:= F(5) \times (F(2)+F(8))+F(6) \times F(7) \quad = T(5)+T(2) \times (T(8)+T(6))+T(7)$

215 $:= F(1)+F(3) \times (F(4)+F(6) \times F(7)) \quad = T(1)+T(3) \times (T(4)+T(6))+T(7)$

216 $:= (F(1) \times F(2)+F(5)+F(8)) \times F(6) \quad = T(1) \times T(2) \times (T(5)+T(8)+T(6))$
$:= F(1)+(F(2)+F(9)+F(6)) \times F(5) \quad = (T(1)+T(2)) \times T(9)+T(6)+T(5)$
$:= F(3) \times (F(2)+F(5)+F(9) \times F(4)) \quad = T(3)+T(2) \times (T(5)+T(9)+T(4))$
$:= F(3) \times (F(5)+F(1)+F(4) \times F(9)) \quad = T(3)+T(5) \times (T(1)+T(4))+T(9)$

$$
\begin{aligned}
\mathbf{217} &:= (F(7)\times F(3)+F(2))\times F(6)+F(1) && = (T(7)+((T(3)+T(2))\times T(6)))\times T(1)\\
&:= F(9)\times F(1)\times (F(2)+F(5))+F(7) && = T(9)+((T(1)+T(2))\times (T(5)+T(7)))\\
&:= F(1)+(F(2)+F(5)+F(8))\times F(6) && = T(1)+T(2)\times (T(5)+T(8)+T(6))\\
&:= F(1)+F(6)\times (F(2)+F(3)\times F(7)) && = T(1)\times T(6)\times (T(2)+T(3))+T(7)\\
&:= F(2)+F(4)\times F(5)\times F(7)+F(8) && = T(2)+T(4)\times T(5)+T(7)+T(8)\\
\\
\mathbf{219} &:= F(3)\times F(5)\times F(8)+F(2)+F(6) && = T(3)\times T(5)+T(8)\times T(2)+T(6)\\
&:= F(4)+(F(2)+F(3)\times F(7))\times F(6) && = T(4)\times T(2)+T(3)\times T(7)+T(6)\\
\\
\mathbf{220} &:= (F(4)+F(1))\times (F(7)+F(3)\times F(8)) && = T(4)+(T(1)+T(7))\times T(3)+T(8)\\
&:= (F(4)+F(2))\times (F(3)\times F(8)+F(7)) && = T(4)+T(2)\times (T(3)+T(8)+T(7))\\
\\
\mathbf{221} &:= (F(4)\times F(5)\times F(1)+F(3))\times F(7) && = T(4)+T(5)+(T(1)+T(3))\times T(7)\\
\\
\mathbf{222} &:= (F(2)+F(5))\times (F(4)\times F(6)+F(7)) && = T(2)\times (T(5)+T(4)+T(6)+T(7))\\
&:= (F(2)+F(5))\times (F(8)+F(6)\times F(3)) && = T(2)\times (T(5)+T(8)+T(6))+T(3)\\
&:= F(3)\times (F(5)+F(4)\times F(9))+F(6) && = T(3)+T(5)\times T(4)+T(9)+T(6)\\
\\
\mathbf{223} &:= (F(1)+F(9))\times F(4)\times F(3)+F(7) && = T(1)\times T(9)+T(4)+T(3)\times T(7)\\
&:= (F(2)+F(9))\times F(3)\times F(4)+F(7) && = T(2)\times T(9)+T(3)\times T(4)+T(7)\\
&:= (F(5)+F(1))\times (F(2)+F(9))+F(7) && = T(5)+(T(1)+T(2))\times T(9)+T(7)\\
&:= F(2)+(F(9)+F(6)\times F(5))\times F(4) && = T(2)\times (T(9)+T(6))+T(5)+T(4)\\
&:= F(4)+(F(6)+F(3))\times (F(1)+F(8)) && = (T(4)+T(6))\times T(3)+T(1)+T(8)\\
\\
\mathbf{224} &:= (F(2)+F(4)\times F(5))\times (F(1)+F(7)) && = (T(2)+T(4))\times T(5)+T(1)+T(7)\\
\mathbf{225} &:= F(3)+(F(6)+F(2))\times F(8)+F(9) && = T(3)\times (T(6)+T(2))+T(8)+T(9)\\
\\
\mathbf{226} &:= (F(2)+F(6))\times F(8)+F(4)+F(9) && = T(2)\times (T(6)+T(8)+T(4))+T(9)\\
&:= F(1)+F(5)\times (F(4)+F(6)+F(9)) && = (T(1)+T(5))\times T(4)+T(6)+T(9)\\
&:= F(3)\times (F(2)+F(6)\times (F(1)+F(7))) && = (T(3)+T(2))\times (T(6)+T(1))+T(7)\\
&:= F(3)\times (F(6)+(F(9)+F(2))\times F(4)) && = (T(3)+T(6)+T(9))\times T(2)+T(4)\\
\\
\mathbf{227} &:= F(4)+F(6)\times F(3)\times (F(1)+F(7)) && = T(4)+T(6)+(T(3)+T(1))\times T(7)\\
&:= F(4)+F(6)\times F(3)\times (F(2)+F(7)) && = T(4)+T(6)\times (T(3)+T(2))+T(7)\\
\\
\mathbf{228} &:= ((F(1)+F(2))\times F(9)+F(6))\times F(4) && = T(1)\times T(2)\times (T(9)+T(6)+T(4))\\
&:= (F(3)+F(2))\times (F(8)\times F(4)+F(7)) && = T(3)+T(2)\times (T(8)+T(4)+T(7))\\
&:= F(4)+F(8)+(F(5)+F(2))\times F(9) && = (T(4)+T(8)+T(5))\times T(2)+T(9)\\
\\
\mathbf{229} &:= (F(1)+F(3))\times F(7)\times F(5)+F(9) && = T(1)+T(3)\times T(7)+T(5)+T(9)
\end{aligned}
$$

$$:= (F(1)+F(4)\times F(5))\times F(7)+F(8) \quad = (T(1)+T(4))\times T(5)+T(7)+T(8)$$
$$:= (F(2)+F(6))\times (F(4)+F(8))+F(7) \quad = T(2)\times (T(6)+T(4)+T(8))+T(7)$$
$$:= F(3)\times F(7)\times (F(4)+F(5))+F(8) \quad = T(3)\times T(7)+T(4)+T(5)+T(8)$$

230 $:= (F(1)+F(2))\times (F(7)+F(9)\times F(4)) \quad = T(1)+T(2)\times (T(7)+T(9))+T(4)$

231 $:= ((F(1)+F(2))\times F(4)+F(5))\times F(8) \quad = (T(1)\times T(2)+T(4))\times T(5)+T(8)$
$$:= (F(2)+F(3)+F(4)+F(5))\times F(8) \quad = T(2)\times T(3)\times T(4)+T(5)+T(8)$$
$$:= (F(9)\times F(3)+F(1)+F(6))\times F(4) \quad = T(9)+T(3)\times T(1)\times (T(6)+T(4))$$
$$:= (F(5)+F(1))\times (F(2)+F(9))+F(8) \quad = T(5)+(T(1)+T(2))\times T(9)+T(8)$$
$$:= (F(9)+F(1))\times (F(2)+F(5))+F(8) \quad = T(9)\times (T(1)+T(2))+T(5)+T(8)$$
$$:= F(2)\times F(8)+(F(6)+F(9))\times F(5) \quad = T(2)\times (T(8)+T(6))+T(9)+T(5)$$
$$:= F(3)\times (F(1)+F(7)\times F(6))+F(8) \quad = T(3)\times (T(1)+T(7))+T(6)+T(8)$$
$$:= F(4)\times (F(3)\times F(8)+F(2)+F(9)) \quad = T(4)\times T(3)+T(8)+T(2)\times T(9)$$
$$:= F(8)+(F(6)\times F(2)+F(9))\times F(5) \quad = (T(8)+T(6))\times T(2)+T(9)+T(5)$$

232 $:= ((F(1)+F(7))\times F(3)+F(2))\times F(6) \quad = T(1)+T(7)\times T(3)+T(2)\times T(6)$
$$:= F(2)\times F(6)\times (F(4)+F(3)\times F(7)) \quad = (T(2)+T(6)+T(4))\times T(3)+T(7)$$

234 $:= (F(1)+F(6))\times F(2)\times F(3)\times F(7) \quad = (T(1)+T(6))\times T(2)+T(3)\times T(7)$
$$:= F(1)\times F(4)\times (F(5)+F(2))\times F(7) \quad = T(1)\times T(4)\times T(5)+T(2)\times T(7)$$

234 $:= F(2)+F(8)\times F(4)+F(5)\times F(9) \quad = T(2)+T(8)+T(4)\times T(5)+T(9)$
$$:= F(3)\times (F(4)+F(5)+F(2))\times F(7) \quad = T(3)\times (T(4)+T(5))+T(2)\times T(7)$$
$$:= F(4)\times (F(6)+F(3)\times (F(2)+F(9))) \quad = (T(4)+T(6))\times T(3)+T(2)+T(9)$$
$$:= F(7)\times (F(3)\times F(2)\times F(5)+F(6)) \quad = T(7)\times T(3)+T(2)\times T(5)+T(6)$$

235 $:= ((F(1)\times F(2))\times F(7)+F(9))\times F(5) \quad = T(1)+T(2)\times (T(7)+T(9))+T(5)$
$$:= (F(3)+F(4))\times F(2)\times (F(7)+F(9)) \quad = T(3)+T(4)+T(2)\times (T(7)+T(9))$$
$$:= F(4)\times F(3)\times (F(5)+F(9))+F(2) \quad = T(4)+T(3)\times T(5)+T(9)\times T(2)$$
$$:= F(3)\times (F(7)\times F(6)+F(4))+F(8) \quad = T(3)\times T(7)+T(6)+T(4)+T(8)$$
$$:= F(1)+F(4)\times (F(5)+F(2))\times F(7) \quad = T(1)+T(4)\times T(5)+T(2)\times T(7)$$

237 $:= (F(1)+F(7)\times (F(2)+F(5)))\times F(4) \quad = (T(1)+T(7))\times T(2)+T(5)\times T(4)$
$$:= F(2)+F(1)+(F(7)+F(9))\times F(5) \quad = T(2)\times (T(1)+T(7)+T(9))+T(5)$$
$$:= F(2)+(F(5)+F(4)+F(6))\times F(8) \quad = (T(2)+T(5))\times T(4)+T(6)+T(8)$$

238 $:= (F(1)+F(2)+F(5))\times (F(7)+F(8)) \quad = T(1)+T(2)\times (T(5)+T(7)+T(8))$
$$:= (F(3)\times F(6)+F(1))\times (F(2)+F(7)) \quad = T(3)\times T(6)+(T(1)+T(2))\times T(7)$$
$$:= F(1)\times F(4)+F(5)\times (F(9)+F(7)) \quad = (T(1)+T(4))\times T(5)+T(9)+T(7)$$

$$:= (F(3)+F(5)\times F(4))\times(F(1)+F(7)) \quad = (T(3)+T(5))\times T(4)\times T(1)+T(7)$$
$$:= F(4)+F(5)\times(F(9)\times F(2)+F(7)) \quad = (T(4)+T(5)+T(9))\times T(2)+T(7)$$

$$\mathbf{240} := (F(2)+F(7)+F(3))\times F(4)\times F(5) \quad = T(2)\times T(7)+T(3)+T(4)\times T(5)$$
$$:= (F(2)+F(4)+F(7)\times F(3))\times F(6) \quad = T(2)\times(T(4)+T(7))+T(3)\times T(6)$$
$$:= (F(3)\times F(2)+F(6))\times(F(4)+F(8)) \quad = T(3)\times(T(2)+T(6)+T(4))+T(8)$$
$$:= F(3)\times F(4)\times(F(2)+F(9)+F(5)) \quad = T(3)\times T(4)\times T(2)+T(9)+T(5)$$
$$:= F(3)+(F(1)+F(5)+F(2))\times F(9) \quad = (T(3)+T(1))\times T(5)+T(2)\times T(9)$$

$$\mathbf{241} := F(1)+(F(3)\times F(5))\times F(4)\times F(6) \quad = (T(1)+T(3)+T(5))\times T(4)+T(6)$$
$$:= F(1)+(F(4)+F(8))\times F(3)\times F(5) \quad = T(1)\times T(4)+T(8)\times T(3)+T(5)$$
$$:= F(4)+(F(2)+F(5)+F(1))\times F(9) \quad = (T(4)+T(2))\times T(5)+T(1)+T(9)$$

$$\mathbf{242} := (F(1)+F(8))\times(F(3)\times F(4)+F(5)) \quad = T(1)+T(8)\times T(3)+T(4)+T(5)$$
$$\mathbf{243} := (F(2)+F(3)\times F(5)\times F(6))\times F(4) \quad = T(2)\times T(3)+T(5)+T(6)\times T(4)$$

$$\mathbf{244} := F(4)\times F(5)\times(F(2)+F(7))+F(9) \quad = T(4)+T(5)+T(2)\times(T(7)+T(9))$$
$$:= F(3)\times(F(5)+(F(1)+F(6))\times F(7)) \quad = T(3)\times(T(5)\times T(1)+T(6))+T(7)$$
$$:= F(3)+(F(6)+F(4))\times(F(2)+F(8)) \quad = T(3)\times T(6)+T(4)+T(2)\times T(8)$$

$$\mathbf{246} := (F(2)+F(1)+F(5))\times F(9)+F(6) \quad = T(2)\times(T(1)+T(5)+T(9)+T(6))$$
$$:= F(2)\times F(9)\times(F(3)+F(5))+F(6) \quad = T(2)\times T(9)+T(3)\times T(5)+T(6)$$
$$:= (F(2)+F(5))\times(F(3)+F(4)\times F(7)) \quad = T(2)+T(5)+T(3)\times(T(4)+T(7))$$
$$:= F(3)\times(F(5)\times F(6)+F(2))\times F(4) \quad = T(3)\times(T(5)+T(6))+T(2)\times T(4)$$
$$:= F(1)+(F(2)+F(9))\times(F(5)+F(3)) \quad = (T(1)+T(2))\times(T(9)+T(5))+T(3)$$
$$:= F(2)+(F(7)+F(3)+F(9))\times F(5) \quad = (T(2)+T(7))\times T(3)+T(9)+T(5)$$
$$:= F(4)\times((F(2)+F(5))\times F(6)+F(9)) \quad = T(4)\times(T(2)+T(5))+T(6)+T(9)$$
$$:= F(6)+(F(3)\times F(4)+F(2))\times F(9) \quad = T(6)+T(3)\times T(4)\times T(2)+T(9)$$

$$\mathbf{247} := (F(2)\times F(3)\times F(6)+F(4))\times F(7) \quad = T(2)+T(3)+T(6)\times T(4)+T(7)$$
$$:= (F(2)+F(3)\times F(5)+F(6))\times F(7) \quad = T(2)+T(3)\times(T(5)+T(6))+T(7)$$

$$\mathbf{249} := F(2)+(F(8)+F(5)\times F(3))\times F(6) \quad = T(2)\times T(8)+T(5)+T(3)\times T(6)$$
$$\mathbf{250} := (F(2)+F(4)+F(8))\times(F(3)+F(6)) \quad = T(2)+T(4)+T(8)\times T(3)+T(6)$$
$$\mathbf{251} := F(9)\times(F(4)\times F(3)+F(1))+F(7) \quad = T(9)+T(4)+(T(3)+T(1))\times T(7)$$

$$\mathbf{252} := (F(1)+F(2)+F(3)+F(6))\times F(8) \quad = (T(1)+T(2))\times(T(3)+T(6)+T(8))$$
$$:= (F(2)+F(4))\times F(8)\times(F(1)+F(3)) \quad = T(2)\times T(4)+(T(8)+T(1))\times T(3)$$
$$:= (F(1)+F(6))\times(F(3)+F(8)+F(5)) \quad = T(1)\times T(6)+T(3)\times T(8)+T(5)$$
$$:= F(2)+F(7)+F(9)\times(F(3)+F(5)) \quad = T(2)\times(T(7)+T(9)+T(3))+T(5)$$

$$:= F(3) \times (F(7) + F(1)) \times (F(2) + F(6)) \quad = T(3) \times T(7) + (T(1) + T(2)) \times T(6)$$

$$\mathbf{253} := (F(1) \times F(4) + F(6)) \times (F(3) + F(8)) \quad = T(1) + T(4) \times T(6) + T(3) + T(8)$$

$$\mathbf{255} := (F(3) \times F(6) + F(2)) \times F(7) + F(9) \quad = T(3) \times T(6) + T(2) \times T(7) + T(9)$$
$$:= F(5) \times (F(2) + F(6) + F(3) \times F(8)) \quad = T(5) + T(2) + T(6) + T(3) \times T(8)$$

$$\mathbf{256} := F(2) \times F(3) \times F(6) \times (F(4) + F(7)) \quad = T(2) \times T(3) + T(6) \times T(4) + T(7)$$

$$\mathbf{258} := F(6) \times (F(2) + F(7)) \times F(3) + F(9) \quad = T(6) + T(2) \times (T(7) + T(3) + T(9))$$
$$:= (F(9) + F(2)) \times (F(5) + F(3)) + F(7) \quad = T(9) + T(2) \times T(5) + T(3) \times T(7)$$
$$:= F(3) \times F(4) \times (F(2) + F(6) + F(9)) \quad = T(3) \times T(4) + T(2) \times (T(6) + T(9))$$
$$:= F(3) \times (F(4) + (F(5) + F(2)) \times F(8)) \quad = T(3) \times (T(4) + T(5)) + T(2) \times T(8)$$

$$\mathbf{259} := (F(1) + F(5) + F(2)) \times F(9) + F(8) \quad = T(1) + T(5) + T(2) \times (T(9) + T(8))$$
$$:= (F(3) \times F(4) + F(2)) \times F(9) + F(8) \quad = T(3) + T(4) + T(2) \times (T(9) + T(8))$$
$$:= (F(4) \times F(9) + F(8)) \times F(3) + F(7) \quad = T(4) + T(9) + T(8) + T(3) \times T(7)$$
$$:= (F(3) + F(5)) \times (F(4) \times F(6) + F(7)) \quad = (T(3) + T(5)) \times T(4) + T(6) + T(7)$$
$$:= F(4) + F(5) \times (F(7) + F(9)) + F(8) \quad = T(4) \times T(5) + T(7) + T(9) + T(8)$$

$$\mathbf{261} := (F(1) + F(5) + F(4)) \times (F(6) + F(8)) \quad = T(1) \times T(5) + T(4) \times T(6) + T(8)$$
$$:= (F(2) + F(6)) \times (F(4) + F(3) \times F(7)) \quad = T(2) \times (T(6) + T(4)) + T(3) \times T(7)$$

$$\mathbf{264} := (F(1) + F(5)) \times (F(2) + F(8)) \times F(3) \quad = (T(1) + T(5)) \times T(2) + T(8) \times T(3)$$
$$:= (F(2) + F(5)) \times (F(6) + F(3) + F(9)) \quad = T(2) + (T(5) + T(6)) \times T(3) + T(9)$$
$$:= F(4) \times (F(3) \times F(5) + F(2)) \times F(6) \quad = (T(4) + T(3)) \times T(5) + T(2) + T(6)$$
$$:= (F(4) + F(6)) \times (F(2) + F(3) + F(8)) \quad = T(4) \times T(6) + T(2) \times T(3) + T(8)$$

$$\mathbf{265} := F(3) \times F(8) \times (F(1) + F(5)) + F(7) \quad = T(3) \times (T(8) + T(1)) + T(5) + T(7)$$
$$:= F(7) + F(8) \times (F(6) + F(2) + F(4)) \quad = (T(7) + T(8) + T(6)) \times T(2) + T(4)$$

$$\mathbf{266} := F(3) \times (F(8) + F(6) \times (F(1) + F(7))) \quad = T(3) \times T(8) + T(6) + T(1) + T(7)$$
$$\mathbf{267} := F(3) + (F(4) + F(6)) \times F(8) + F(9) \quad = T(3) \times (T(4) + T(6)) + T(8) + T(9)$$

$$\mathbf{268} := (F(5) + F(2)) \times F(4) \times F(7) + F(9) \quad = T(5) \times (T(2) + T(4)) + T(7) + T(9)$$
$$:= (F(1) + F(4)) \times (F(3) + F(5) \times F(7)) \quad = (T(1) \times T(4) + T(3)) \times T(5) + T(7)$$
$$:= (F(4) + F(2)) \times (F(3) + F(5) \times F(7)) \quad = T(4) \times (T(2) + T(3) + T(5)) + T(7)$$

$$\mathbf{270} := (F(1) + F(5)) \times (F(4) + F(6) + F(9)) \quad = T(1) \times T(5) + T(4) \times T(6) + T(9)$$

$$\begin{aligned}
\mathbf{273} &:= (F(1)\times F(4)+F(6)+F(3))\times F(8) && = (T(1)+T(4))\times T(6)+T(3)+T(8)\\
&:= (F(2)\times F(5)+F(3))\times F(4)\times F(7) && = T(2)\times T(5)+T(3)\times (T(4)+T(7))\\
\mathbf{274} &:= F(1)+(F(7)\times (F(5)+F(3))\times F(4)) && = (T(1)+T(7)+T(5))\times T(3)+T(4)\\
&:= F(3)+(F(5)+F(4))\times (F(7)+F(8)) && = (T(3)+T(5))\times T(4)+T(7)+T(8)\\
\mathbf{275} &:= F(1)\times F(4)+F(6)\times (F(7)+F(8)) && = T(1)+T(4)\times T(6)+T(7)+T(8)\\
\mathbf{276} &:= F(1)\times F(2)+F(5)\times (F(9)+F(8)) && = (T(1)+T(2))\times (T(5)+T(9))+T(8)\\
&:= F(1)+F(3)+F(7)\times F(2)\times F(8) && = T(1)\times T(3)\times T(7)+T(2)\times T(8)\\
&:= F(3)\times (F(7)\times F(2)\times F(6)+F(9)) && = T(3)\times T(7)+T(2)\times T(6)+T(9)\\
\mathbf{277} &:= F(1)+F(2)+F(8)\times F(7)+F(3) && = T(1)+T(2)\times T(8)+T(7)\times T(3)\\
&:= F(1)\times F(3)+(F(8)+F(9))\times F(5) && = T(1)+T(3)\times T(8)+T(9)+T(5)\\
\mathbf{279} &:= (F(3)\times F(7)+F(5))\times (F(1)+F(6)) && = T(3)\times (T(7)+T(5))\times T(1)+T(6)\\
&:= (F(3)+F(5))\times F(2)+F(6)\times F(9) && = T(3)\times (T(5)+T(2)+T(6))+T(9)\\
&:= F(5)+F(1)+F(2)+F(6)\times F(9) && = T(5)+(T(1)+T(2))\times (T(6)+T(9))\\
&:= F(2)+F(3)\times (F(8)\times F(5)+F(9)) && = T(2)+T(3)\times T(8)+T(5)+T(9)\\
\mathbf{280} &:= (F(1)\times F(2)+F(9))\times (F(4)+F(5)) && = (T(1)+T(2))\times (T(9)+T(4)+T(5))\\
&:= F(1)\times F(6)+(F(4)+F(5))\times F(9) && = (T(1)+T(6))\times T(4)+T(5)+T(9)\\
\mathbf{282} &:= (F(3)+F(2))\times F(4)+F(7)\times F(8) && = T(3)\times (T(2)+T(4)+T(7))+T(8)\\
&:= F(1)\times F(3)+F(6)\times (F(2)+F(9)) && = (T(1)+T(3))\times T(6)+T(2)\times T(9)\\
&:= F(3)+(F(8)+F(1)+F(9))\times F(5) && = T(3)\times (T(8)+T(1))+T(9)+T(5)\\
\mathbf{283} &:= F(3)\times F(2)+F(8)\times F(7)+F(6) && = T(3)\times (T(2)+T(8))+T(7)+T(6)\\
\mathbf{284} &:= F(1)\times F(6)+F(4)+F(7)\times F(8) && = (T(1)+T(6))\times T(4)+T(7)+T(8)\\
\mathbf{285} &:= F(2)\times F(1)\times F(7)+F(6)\times F(9) && = T(2)\times (T(1)+T(7)+T(6)+T(9))\\
&:= F(2)+F(4)+F(6)+F(7)\times F(8) && = T(2)\times (T(4)+T(6)+T(7)+T(8))\\
\mathbf{286} &:= (F(4)\times (F(3)+F(5))+F(2))\times F(7) && = T(4)+T(3)\times (T(5)+T(2)+T(7))\\
\mathbf{287} &:= F(1)+F(3)\times F(7)\times (F(4)+F(6)) && = (T(1)+T(3))\times (T(7)+T(4))+T(6)\\
\mathbf{288} &:= (F(1)\times F(2)\times F(3)+F(9))\times F(6) && = (T(1)+T(2))\times (T(3)+T(9)+T(6))\\
&:= (F(2)+F(5))\times F(3)\times F(4)\times F(6) && = T(2)\times (T(5)+T(3)\times T(4)+T(6))\\
&:= F(2)\times F(3)\times (F(7)+F(5))\times F(6) && = (T(2)+T(3))\times T(7)+T(5)+T(6)\\
&:= F(3)+F(2)+F(7)+F(6)\times F(9) && = T(3)+T(2)\times (T(7)+T(6)+T(9))
\end{aligned}$$

$$:= F(2) \times F(3) + F(7) \times (F(1) + F(8)) \quad = (T(2) + T(3)) \times T(7) \times T(1) + T(8)$$
$$:= (F(4) + F(5)) \times (F(2) + F(1) + F(9)) \quad = T(4) \times T(5) + T(2) \times (T(1) + T(9))$$
$$:= (F(5) + F(4)) \times (F(3) \times F(2) + F(9)) \quad = T(5) \times (T(4) + T(3) + T(2)) + T(9)$$
$$:= F(3) + (F(1) + F(8)) \times (F(5) + F(6)) \quad = (T(3) + T(1)) \times T(8) + T(5) + T(6)$$

$$\mathbf{289} := F(4) + F(6) + F(5) + F(7) \times F(8) \quad = T(4) \times T(6) + T(5) + T(7) + T(8)$$
$$:= F(2) + F(3) + F(7) \times (F(1) + F(8)) \quad = (T(2) + T(3)) \times T(7) + T(1) + T(8)$$

$$\mathbf{291} := (F(2) + F(3)) \times (F(4) \times F(8) + F(9)) \quad = T(2) \times (T(3) + T(4) + T(8) + T(9))$$
$$:= F(4) \times F(2) + F(6) \times (F(3) + F(9)) \quad = T(4) \times (T(2) + T(6)) + T(3) + T(9)$$
$$:= F(1) + (F(4) \times F(6) + F(9)) \times F(5) \quad = (T(1) + T(4)) \times T(6) + T(9) + T(5)$$

$$\mathbf{294} := (F(2) + F(4)) \times F(5) \times F(7) + F(9) \quad = T(2) \times (T(4) + T(5) + T(7) + T(9))$$
$$:= (F(3) + F(4) + F(6) + F(2)) \times F(8) \quad = T(3) \times (T(4) + T(6)) + T(2) \times T(8)$$
$$:= (F(2) + F(5) \times F(3) + F(4)) \times F(8) \quad = T(2) + T(5) + T(3) \times (T(4) + T(8))$$
$$:= (F(3) + F(5)) \times F(4) \times (F(2) + F(7)) \quad = (T(3) + T(5)) \times T(4) + T(2) \times T(7)$$

$$\mathbf{296} := (F(4) + F(5)) \times (F(1) + F(3) + F(9)) \quad = T(4) + T(5) + T(1) + T(3) \times T(9)$$
$$\mathbf{297} := F(2) + F(3) + (F(7) + F(1)) \times F(8) \quad = (T(2) + T(3)) \times (T(7) + T(1)) + T(8)$$
$$\mathbf{298} := F(5) \times F(9) + F(6) \times (F(4) + F(7)) \quad = T(5) + T(9) + T(6) \times T(4) + T(7)$$
$$\mathbf{299} := (F(1) + (F(4) + F(6)) \times F(3)) \times F(7) \quad = T(1) + T(4) \times (T(6) + T(3)) + T(7)$$

$$\mathbf{300} := (F(2) + F(7)) \times F(3) + F(6) \times F(9) \quad = T(2) \times (T(7) + T(3) + T(6) + T(9))$$
$$:= F(1) \times F(2) + F(7) \times (F(3) + F(8)) \quad = T(1) \times T(2) \times T(7) + T(3) \times T(8)$$
$$:= F(3) \times F(4) + (F(7) + F(2)) \times F(8) \quad = (T(3) \times T(4) + T(7)) \times T(2) + T(8)$$
$$:= F(5) \times (F(7) \times (F(1) + F(3)) + F(8)) \quad = (T(5) + T(7) + T(1)) \times T(3) + T(8)$$

$$\mathbf{301} := F(1) + F(2) + F(7) \times (F(3) + F(8)) \quad = T(1) + T(2) \times T(7) + T(3) \times T(8)$$
$$\mathbf{302} := F(4) + F(7) \times F(1) \times (F(3) + F(8)) \quad = (T(4) + T(7)) \times (T(1) + T(3)) + T(8)$$

$$\mathbf{304} := (F(1) \times F(2) + F(4) + F(9)) \times F(6) \quad = (T(1) + T(2)) \times (T(4) + T(9) + T(6))$$
$$:= (F(9) + F(7) + F(5) \times F(8)) \times F(3) \quad = T(9) + T(7) + T(5) + T(8) \times T(3)$$
$$:= (F(2) + F(4)) \times (F(6) + F(3) \times F(9)) \quad = T(2) + T(4) + T(6) + T(3) \times T(9)$$
$$:= F(6) \times (F(9) + F(4) + F(2)) \times F(1) \quad = (T(6) + T(9) + T(4)) \times (T(2) + T(1))$$
$$:= F(6) \times (F(2) + F(4) + F(7) + F(8)) \quad = (T(6) + T(2)) \times T(4) + T(7) + T(8)$$
$$:= F(6) \times (F(5) \times (F(4) + F(3)) + F(7)) \quad = (T(6) + T(5) + T(4)) \times T(3) + T(7)$$

$$\mathbf{306} := ((F(2) + F(4)) \times F(3) + F(1)) \times F(9) \quad = T(2) \times T(4) + T(3) \times (T(1) + T(9))$$
$$:= F(6) \times (F(9) + F(4)) + F(3) \times F(5) \quad = T(6) + T(9) + (T(4) + T(3)) \times T(5)$$

$$\begin{aligned}
\mathbf{307} &:= F(2)\times F(6)+(F(3)+F(8))\times F(7) && = T(2)\times T(6)+T(3)\times T(8)+T(7)\\
\mathbf{308} &:= (F(4)+F(6))\times F(3)\times (F(1)+F(7)) && = T(4)\times (T(6)+T(3)+T(1))+T(7)\\
\\
\mathbf{309} &:= (F(2)+F(1)+F(9))\times F(6)+F(8) && = T(2)\times (T(1)+T(9)+T(6)+T(8))\\
&:= F(1)\times F(4)+(F(2)+F(6))\times F(9) && = (T(1)+T(4))\times (T(2)+T(6))+T(9)\\
&:= F(1)+F(3)+F(9)\times (F(2)+F(6)) && = T(1)\times T(3)\times (T(9)+T(2))+T(6)\\
\\
\mathbf{312} &:= (F(1)\times F(2)+F(8)+F(3))\times F(7) && = (T(1)+T(2))\times T(8)+T(3)\times T(7)\\
&:= (F(1)+F(3))\times F(2)\times F(6)\times F(7) && = T(1)\times T(3)\times (T(2)+T(6)+T(7))\\
&:= F(2)+F(4)\times F(7)+F(6)\times F(9) && = T(2)\times (T(4)+T(7)+T(6)+T(9))\\
&:= F(3)\times F(7)\times (F(2)+F(4)+F(6)) && = (T(3)+T(7))\times T(2)+T(4)\times T(6)\\
\\
\mathbf{313} &:= F(1)+(F(3)+F(2))\times F(6)\times F(7) && = T(1)+T(3)\times (T(2)+T(6)+T(7))\\
\mathbf{314} &:= F(2)+F(1)+F(7)\times F(4)\times F(6) && = T(2)+(T(1)+T(7))\times T(4)+T(6)\\
\\
\mathbf{315} &:= (F(2)+F(3))\times F(5)\times F(1)\times F(8) && = T(2)+T(3)\times (T(5)+T(1)+T(8))\\
&:= (F(3)\times F(4)+F(2)+F(6))\times F(8) && = T(3)+(T(4)+T(2))\times T(6)+T(8)\\
&:= (F(2)+F(9))\times (F(1)+F(3))\times F(4) && = T(2)\times (T(9)\times T(1)+T(3)\times T(4))\\
&:= (F(3)+F(1))\times (F(7)+F(6))\times F(5) && = T(3)\times (T(1)+T(7)+T(6))+T(5)\\
&:= F(4)\times (F(1)+(F(6)\times F(2))\times F(7)) && = (T(4)+T(1))\times T(6)+T(2)\times T(7)\\
&:= F(5)\times ((F(7)+(F(3)\times F(8)))+F(6)) && = (T(5)+T(7))\times T(3)+T(8)+T(6)\\
\\
\mathbf{316} &:= F(5)\times (F(7)+F(6))\times F(4)+F(2) && = T(5)+T(7)+T(6)\times (T(4)+T(2))\\
&:= F(1)\times F(2)+(F(3)+F(7))\times F(8) && = (T(1)+T(2)+T(3))\times T(7)+T(8)\\
&:= F(1)+(F(6)+F(7))\times F(4)\times F(5) && = (T(1)\times T(6)+T(7)\times T(4))+T(5)\\
\\
\mathbf{317} &:= F(1)\times F(3)+F(5)\times F(8)\times F(4) && = T(1)+T(3)\times (T(5)+T(8))+T(4)\\
&:= F(1)\times F(5)+F(6)\times F(4)\times F(7) && = T(1)+T(5)+T(6)+T(4)\times T(7)\\
&:= F(3)+F(4)\times (F(1)+F(7)\times F(6)) && = T(3)+T(4)\times (T(1)+T(7))+T(6)\\
\\
\mathbf{318} &:= F(4)+(F(2)+F(6))\times (F(1)+F(9)) && = (T(4)+T(2))\times T(6)\times T(1)+T(9)\\
&:= F(4)+F(5)\times (F(3)+F(2))\times F(8) && = T(4)\times (T(5)+T(3))+T(2)\times T(8)\\
\\
\mathbf{319} &:= F(3)+(F(4)+F(8))\times F(7)+F(5) && = T(3)\times (T(4)+T(8))+T(7)+T(5)\\
&:= F(3)+(F(6)\times F(7))\times F(4)+F(5) && = T(3)\times (T(6)+T(7))+T(4)+T(5)\\
&:= F(2)+(F(3)+F(6)\times F(7))\times F(4) && = T(2)\times T(3)+T(6)+T(7)\times T(4)\\
\\
\mathbf{321} &:= F(2)\times F(4)\times (F(3)+F(5)\times F(8)) && = (T(2)+T(4)+T(3))\times T(5)+T(8)\\
&:= F(2)+F(5)+F(8)\times (F(3)+F(7)) && = T(2)\times (T(5)+T(8))+T(3)\times T(7)\\
&:= F(2)+(F(4)\times F(3)+F(9))\times F(6) && = T(2)\times T(4)+T(3)\times T(9)+T(6)
\end{aligned}$$

Selfie Expressions With Factorial, Fibonacci and Triangular Values,
Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

$$
\begin{aligned}
\mathbf{322} &:= F(3)\times F(5)+F(6)\times F(4)\times F(7) && = T(3)+T(5)+T(6)+T(4)\times T(7)\\
&:= F(1)+(F(5)\times F(8)+F(3))\times F(4) && = (T(1)+T(5)+T(8))\times T(3)+T(4)\\
&:= F(3)+(F(6)\times (F(2)+(F(7)\times F(4)))) && = T(3)\times (T(6)+T(2)+T(7))+T(4)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{324} &:= (F(6)+F(2))\times ((F(4)\times F(5))+F(8)) && = T(6)\times (T(2)+T(4))+T(5)+T(8)\\
&:= F(4)\times (F(3)+F(2)+F(5)\times F(8)) && = (T(4)+T(3))\times (T(2)+T(5))+T(8)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{325} &:= (F(1)+F(4)+F(2))\times F(7)\times F(5) && = T(1)\times T(4)\times (T(2)+T(7))+T(5)\\
&:= F(4)+((F(7)+F(2))\times (F(3)+F(8))) && = T(4)\times T(7)+T(2)+T(3)+T(8)
\end{aligned}
$$

$$
\mathbf{327} := (F(3)+F(2))\times (F(6)\times F(7)+F(5)) \quad = T(3)\times (T(2)+T(6)+T(7))+T(5)
$$

$$
\begin{aligned}
\mathbf{328} &:= (F(1)\times F(2)+F(7))\times F(8)+F(9) && = T(1)+T(2)\times (T(7)+T(8)+T(9))\\
&:= (F(7)\times F(3)+F(5)\times F(4))\times F(6) && = T(7)+T(3)\times T(5)+T(4)\times T(6)\\
&:= F(2)\times F(6)\times (F(3)+F(4)\times F(7)) && = (T(2)+T(6)+T(3))\times T(4)+T(7)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{330} &:= (F(3)+F(2))\times F(5)\times (F(1)+F(8)) && = T(3)\times (T(2)+T(5)+T(1)+T(8))\\
&:= F(6)+(F(1)+F(7))\times (F(3)+F(8)) && = (T(6)\times T(1)+T(7))\times T(3)+T(8)
\end{aligned}
$$

$$
\mathbf{331} := (F(1)+F(8)\times F(5))\times F(4)+F(7) \quad = T(1)\times T(8)+T(5)+T(4)\times T(7)
$$

$$
\begin{aligned}
\mathbf{333} &:= (F(2)+F(3))\times F(6)\times F(7)+F(8) && = T(2)+T(3)\times (T(6)+T(7))+T(8)\\
&:= (F(1)+F(9)+F(3))\times (F(2)+F(6)) && = T(1)\times T(9)\times T(3)+T(2)\times T(6)\\
&:= F(2)\times F(9)+F(7)\times (F(8)+F(3)) && = T(2)\times (T(9)+T(7)+T(8))+T(3)
\end{aligned}
$$

$$
\mathbf{334} := F(1)+F(7)\times (F(8)+F(3))+F(9) \quad = T(1)\times T(7)+T(8)+T(3)\times T(9)
$$

$$
\begin{aligned}
\mathbf{336} &:= ((F(4)+F(2))\times F(3)+F(6))\times F(8) && = T(4)\times (T(2)+T(3)+T(6))+T(8)\\
&:= (F(4)+F(5))\times F(3)\times F(2)\times F(8) && = (T(4)+T(5)\times T(3))\times T(2)+T(8)\\
&:= (F(1)+F(3)+F(8))\times (F(2)+F(7)) && = (T(1)+T(3))\times T(8)+T(2)\times T(7)\\
&:= (F(2)+F(3)+F(5))\times (F(6)+F(9)) && = (T(2)\times T(3))\times T(5)+T(6)+T(9)\\
&:= F(2)+F(4)\times F(8)+F(6)\times F(9) && = T(2)\times (T(4)+T(8)+T(6)+T(9))\\
&:= F(3)\times (F(9)+F(8)+F(2))\times F(4) && = T(3)\times T(9)+T(8)+T(2)\times T(4)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{337} &:= (F(3)+F(9))\times (F(2)+F(6))+F(7) && = T(3)\times (T(9)+T(2))+T(6)+T(7)\\
&:= F(3)+F(9)\times F(6)+F(4)\times F(8) && = T(3)\times T(9)+T(6)+T(4)+T(8)\\
&:= F(1)+F(3)\times F(8)\times (F(4)+F(5)) && = (T(1)+T(3))\times (T(8)+T(4))+T(5)
\end{aligned}
$$

$$
\mathbf{339} := F(2)+(F(5)+F(6))\times F(7)\times F(3) \quad = T(2)\times T(5)+(T(6)+T(7))\times T(3)
$$

$$:= F(4) + F(8) \times F(3) \times F(2) \times F(6) \qquad = (T(4) + T(8)) \times T(3) + T(2) \times T(6)$$

$$\begin{aligned}
\mathbf{340} &:= ((F(4) + F(5)) \times F(1) + F(3)) \times F(9) && = T(4) + T(5) + (T(1) + T(3)) \times T(9) \\
&:= (F(1) + F(2) + F(6)) \times (F(7) + F(8)) && = (T(1) + T(2)) \times (T(6) + T(7) + T(8)) \\
&:= F(3) \times F(1) \times F(5) \times (F(8) + F(7)) && = T(3) \times (T(1) + T(5) + T(8)) + T(7)
\end{aligned}$$

$$\mathbf{341} := F(4) \times F(1) + F(7) \times (F(5) + F(8)) \qquad = T(4) \times (T(1) + T(7)) + T(5) + T(8)$$

$$\begin{aligned}
\mathbf{342} &:= F(2) + F(8) \times (F(7) + F(4)) + F(5) && = T(2) \times (T(8) + T(7)) + T(4) \times T(5) \\
&:= F(3) \times F(2) \times (F(4) + F(6) \times F(8)) && = (T(3) \times ((T(2) \times T(4)) + T(6))) + T(8)
\end{aligned}$$

$$\begin{aligned}
\mathbf{343} &:= F(4) \times F(2) + (F(6) + F(3)) \times F(9) && = (T(4) + (T(2) \times T(6))) + (T(3) \times T(9)) \\
&:= F(1) + F(3) \times (F(4) + F(8) \times F(6)) && = ((T(1) + T(3)) \times (T(4) + T(8))) + T(6) \\
&:= F(4) + (F(7) + F(8)) \times (F(3) + F(6)) && = (((T(4) \times T(7)) + T(8)) + T(3)) + T(6)
\end{aligned}$$

$$\begin{aligned}
\mathbf{344} &:= ((F(1) + F(7)) \times F(4) + F(2)) \times F(6) && = T(1) + T(7) \times T(4) + T(2) \times T(6) \\
&:= F(4) \times F(3) + (F(5) + F(8)) \times F(7) && = T(4) + T(3) \times (T(5) + T(8)) + T(7) \\
&:= F(4) + F(7) \times F(8) + F(3) \times F(9) && = T(4) + T(7) + T(8) + T(3) \times T(9)
\end{aligned}$$

$$\begin{aligned}
\mathbf{345} &:= (F(2) + F(9) \times F(5)) \times F(3) + F(4) && = T(2) \times T(9) + (T(5) + T(3)) \times T(4) \\
&:= (F(3) + F(9)) \times (F(2) + F(6)) + F(8) && = T(3) \times (T(9) + T(2)) + T(6) + T(8) \\
&:= F(1) + (F(8) \times F(3) + F(2)) \times F(6) && = T(1) \times T(8) \times (T(3) + T(2)) + T(6)
\end{aligned}$$

$$\begin{aligned}
\mathbf{346} &:= F(1) \times F(4) \times F(7) \times F(6) + F(9) && = (T(1) \times T(4)) \times T(7) + T(6) + T(9) \\
&:= (F(1) \times F(5) \times F(9) + F(4)) \times F(3) && = T(1) + T(5) + (T(9) + T(4)) \times T(3) \\
&:= F(2) \times F(4) \times F(6) \times F(7) + F(9) && = (T(2) + T(4)) \times T(6) + T(7) + T(9) \\
&:= F(8) + (F(2) + F(4) \times F(6)) \times F(7) && = T(8) \times T(2) + T(4) \times T(6) + T(7)
\end{aligned}$$

$$\mathbf{347} := F(1) + F(4) \times F(7) \times F(6) + F(9) \qquad = T(1) + T(4) \times T(7) + T(6) + T(9)$$

$$\begin{aligned}
\mathbf{348} &:= (F(2) + F(5) \times F(9) + F(4)) \times F(3) && = T(2) + T(5) + (T(9) + T(4)) \times T(3) \\
&:= F(2) \times F(6) + F(5) \times F(3) \times F(9) && = T(2) \times T(6) + T(5) + T(3) \times T(9)
\end{aligned}$$

$$\mathbf{349} := F(4) \times (F(7) \times F(6) + F(2)) + F(9) \qquad = T(4) \times T(7) + T(6) + T(2) + T(9)$$

$$\begin{aligned}
\mathbf{351} &:= (F(3) + F(1)) \times F(4) \times (F(9) + F(5)) && = T(3) \times (T(1) + T(4) + T(9)) + T(5) \\
&:= (F(1) + F(6)) \times (F(3) + F(4) + F(9)) && = T(1) \times T(6) + T(3) \times (T(4) + T(9)) \\
&:= (F(6) + F(2)) \times (F(4) + F(3) + F(9)) && = (T(6) + T(2) \times T(4)) \times T(3) + T(9) \\
&:= F(1) + F(3) \times (F(2) + F(9)) \times F(5) && = (T(1) + T(3)) \times (T(2) + T(9)) + T(5)
\end{aligned}$$

Selfie Expressions With Factorial, Fibonacci and Triangular Values,
Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

$$
\begin{aligned}
\mathbf{352} &:= ((F(2)+F(3))\times F(7)+F(5))\times F(6) && = T(2)+T(3)+T(7)+T(5)\times T(6)\\
&:= (F(5)\times F(8)+F(6))\times F(4)+F(7) && = T(5)+T(8)+T(6)+T(4)\times T(7)\\
&:= (F(1)+F(7)+F(3))\times (F(2)+F(8)) && = T(1)\times T(7)+(T(3)+T(2))\times T(8)\\
&:= (F(3)+F(6)\times F(7))\times F(4)+F(9) && = T(3)+T(6)+T(7)\times T(4)+T(9)\\
&:= F(2)+F(7)\times (F(4)\times F(3)+F(8)) && = (T(2)+T(7))\times T(4)+T(3)+T(8)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{353} &:= F(1)+F(6)\times (F(5)+F(4)\times F(7)) && = T(1)\times T(6)\times T(5)+T(4)+T(7)\\
&:= F(3)+(F(1)+F(6))\times F(7)\times F(4) && = (T(3)+T(1))\times (T(6)+T(7))+T(4)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{354} &:= ((F(6)+F(2))\times (F(4)+F(9)))+F(8) && = T(6)\times (T(2)+T(4))+T(9)+T(8)\\
&:= F(3)\times (F(2)+(F(1)+F(8))\times F(6)) && = (T(3)+T(2))\times (T(1)+T(8))+T(6)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{355} &:= (F(7)+F(3))\times F(8)+F(5)\times F(6) && = T(7)+T(3)\times (T(8)+T(5))+T(6)\\
&:= F(4)+F(6)\times F(3)\times (F(2)+F(8)) && = T(4)+T(6)+(T(3)+T(2))\times T(8)
\end{aligned}
$$

$$
\mathbf{356} := F(5)+(F(6)+F(2))\times F(4)\times F(7) \qquad = T(5)\times T(6)+T(2)+T(4)+T(7)
$$

$$
\mathbf{357} := (F(1)+F(8))\times F(3)\times F(6)+F(5) \qquad = T(1)\times T(8)+T(3)+T(6)\times T(5)
$$

$$
\begin{aligned}
\mathbf{358} &:= (F(1)+F(3)\times F(9))\times F(5)+F(7) && = (T(1)+T(3))\times T(9)+T(5)+T(7)\\
&:= F(3)\times ((F(1)+F(8))\times F(6)+F(4)) && = T(3)\times (T(1)+T(8)+T(6))+T(4)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{360} &:= (F(3)\times F(1)+F(7))\times F(4)\times F(6) && = T(3)\times (T(1)+T(7)+T(4)+T(6))\\
&:= (F(2)\times F(7)+F(3))\times (F(4)+F(8)) && = T(2)\times T(7)+T(3)\times (T(4)+T(8))\\
&:= (F(2)+F(4)+F(3)\times F(9))\times F(5) && = T(2)\times (T(4)\times T(3)+T(9)+T(5))\\
&:= (F(1)+F(3)\times (F(2)+F(8)))\times F(6) && = T(1)\times T(3)\times (T(2)+T(8)+T(6))\\
&:= F(5)\times (F(2)+F(1))\times (F(3)+F(9)) && = T(5)\times T(2)\times (T(1)+T(3))+T(9)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{361} &:= F(4)\times (F(7)\times F(6)+F(5))+F(9) && = T(4)\times T(7)+T(6)+T(5)+T(9)\\
&:= F(1)+F(6)\times F(4)\times (F(3)+F(7)) && = T(1)\times T(6)+T(4)\times (T(3)+T(7))\\
&:= F(2)+F(6)\times (F(3)+F(7))\times F(4) && = T(2)\times (T(6)+T(3))+T(7)\times T(4)
\end{aligned}
$$

$$
\mathbf{363} := F(2)+(F(7)+F(6)\times F(8))\times F(3) \qquad = T(2)\times (T(7)+T(6))+T(8)\times T(3)
$$

$$
\begin{aligned}
\mathbf{364} &:= (F(1)+F(6)+F(5))\times F(3)\times F(7) && = (T(1)+T(6))\times T(5)+T(3)+T(7)\\
&:= (F(4)+F(2))\times (F(5)+F(3))\times F(7) && = T(4)+T(2)\times (T(5)\times T(3)+T(7))\\
&:= (F(1)+(F(2)+F(6))\times F(4))\times F(7) && = ((T(1)+T(2))\times T(6))+(T(4)\times T(7))\\
&:= (F(1)+F(7))\times (F(3)+F(4)\times F(6)) && = T(1)\times T(7)+(T(3)+T(4))\times T(6)\\
&:= (F(2)+F(7))\times (F(3)+F(4)\times F(6)) && = T(2)+(T(7)+T(3))\times T(4)+T(6)
\end{aligned}
$$

$$\mathbf{365} := (F(1)+F(4)+F(7))\times F(8)+F(6) \qquad = (T(1)+T(4))\times T(7)+T(8)+T(6)$$

$$\begin{aligned}\mathbf{366} &:= (F(1)+F(3)\times F(9))\times F(5)+F(8) && = (T(1)+T(3))\times T(9)+T(5)+T(8)\\ &:= F(5)\times (F(2)+F(9)\times F(3))+F(8) && = T(5)+T(2)\times T(9)+T(3)\times T(8)\\ &:= F(3)\times (F(6)+F(5)\times (F(1)+F(9))) && = T(3)+T(6)\times T(5)\times T(1)+T(9)\end{aligned}$$

$$\begin{aligned}\mathbf{369} &:= (F(2)+F(3))\times (F(4)\times F(9)+F(8)) && = T(2)+T(3)\times (T(4)+T(9))+T(8)\\ &:= (F(2)+F(6))\times (F(5)+F(3)+F(9)) && = T(2)+T(6)\times T(5)+T(3)+T(9)\\ &:= (F(3)+F(7)\times F(4))\times (F(2)+F(6)) && = T(3)\times (T(7)+T(4)\times T(2))+T(6)\end{aligned}$$

$$\begin{aligned}\mathbf{370} &:= (F(1)\times F(4)+F(9))\times F(5)\times F(3) && = T(1)\times T(4)+(T(9)+T(5))\times T(3)\\ &:= (F(1)+F(3)\times F(6))\times F(8)+F(7) && = T(1)\times T(3)\times (T(6)+T(8))+T(7)\\ &:= F(5)\times (F(4)\times F(7)+F(2)+F(9)) && = T(5)+T(4)\times (T(7)+T(2))+T(9)\end{aligned}$$

$$\begin{aligned}\mathbf{371} &:= F(1)+(F(7)+F(4))\times F(8)+F(9) && = (T(1)+T(7))\times T(4)+T(8)+T(9)\\ &:= F(1)+(F(4)+F(9))\times F(5)\times F(3) && = T(1)+T(4)+(T(9)+T(5))\times T(3)\end{aligned}$$

$$\begin{aligned}\mathbf{372} &:= (F(2)\times F(8)+F(5))\times F(7)+F(9) && = T(2)\times (T(8)+T(5)+T(7)+T(9))\\ &:= F(3)\times (F(8)\times F(6)+F(2))+F(9) && = T(3)\times T(8)+T(6)+T(2)\times T(9)\\ &:= F(9)+F(3)\times (F(1)+F(8)\times F(6)) && = T(9)\times (T(3)+T(1))+T(8)+T(6)\end{aligned}$$

$$\mathbf{375} := F(2)+(F(5)+F(3)\times F(4))\times F(9) \qquad = T(2)\times T(5)+T(3)\times (T(4)+T(9))$$

$$\begin{aligned}\mathbf{376} &:= F(1)\times F(2)\times F(6)\times (F(7)+F(9)) && = (T(1)+T(2))\times (T(6)+T(7)+T(9))\\ &:= (F(4)+F(9)+F(3)\times F(5))\times F(6) && = T(4)+T(9)+T(3)+T(5)\times T(6)\\ &:= F(1)\times F(6)\times (F(8)+F(3)\times F(7)) && = (T(1)+T(6)+T(8))\times T(3)+T(7)\\ &:= F(3)\times (F(2)+F(4))\times (F(9)+F(7)) && = T(3)\times (T(2)+T(4)+T(9))+T(7)\end{aligned}$$

$$\mathbf{377} := (F(8)+(F(1)+F(4))\times F(3))\times F(7) \qquad = T(8)+T(1)+T(4)\times (T(3)+T(7))$$

$$\begin{aligned}\mathbf{378} &:= (F(1)\times F(2)+F(5))\times F(4)\times F(8) && = T(1)\times T(2)+T(5)+T(4)\times T(8)\\ &:= (F(2)\times F(3)+F(4)+F(7))\times F(8) && = (T(2)+T(3))\times (T(4)+T(7))+T(8)\\ &:= (F(3)\times F(1)\times F(5)+F(6))\times F(8) && = T(3)+(T(1)+T(5))\times T(6)+T(8)\\ &:= (F(1)+F(3))\times (F(2)+F(5))\times F(8) && = (T(1)+T(3))\times (T(2)+T(5)+T(8))\\ &:= (F(9)+F(6))\times F(4)\times (F(3)+F(2)) && = (T(9)+T(6)+T(4)\times T(3))\times T(2)\end{aligned}$$

$$\begin{aligned}\mathbf{379} &:= F(1)\times F(3)+F(7)\times (F(6)+F(8)) && = (T(1)+T(3))\times (T(7)+T(6))+T(8)\\ &:= F(7)\times F(4)+F(9)\times (F(3)+F(6)) && = T(7)+(T(4)+T(9))\times T(3)+T(6)\\ &:= F(1)+(F(5)+F(2))\times F(4)\times F(8) && = T(1)+T(5)+T(2)+T(4)\times T(8)\\ &:= F(2)+(F(4)+F(3)+F(7))\times F(8) && = T(2)+T(4)\times (T(3)+T(7))+T(8)\end{aligned}$$

$$:= F(3) + (F(4) \times F(6) + F(5)) \times F(7) \quad = (T(3) + T(4)) \times T(6) + T(5) + T(7)$$

$$\mathbf{381} := F(1) + F(5) \times (F(9) \times F(3) + F(6)) \quad = (T(1) \times T(5) + T(9)) \times T(3) + T(6)$$

$$\mathbf{382} := F(2) \times F(5) + (F(6) + F(8)) \times F(7) \quad = T(2) + T(5) \times T(6) + T(8) + T(7)$$
$$:= F(6) + (F(1) + F(3) \times F(5)) \times F(9) \quad = T(6) + T(1) + T(3) \times (T(5) + T(9))$$

$$\mathbf{384} := (F(1) + F(7) + F(3)) \times F(4) \times F(6) \quad = (T(1) + T(7)) \times T(3) + T(4) \times T(6)$$
$$:= (F(2) + F(1)) \times F(6) \times (F(4) + F(8)) \quad = T(2) \times T(1) + T(6) + T(4) \times T(8)$$
$$:= (F(3) + F(7) + F(2)) \times (F(4) + F(8)) \quad = T(3) \times (T(7) + T(2) \times T(4)) + T(8)$$
$$:= (F(3) + (F(2) + F(5)) \times F(8)) \times F(4) \quad = T(3) + T(2) + T(5) + T(8) \times T(4)$$
$$:= F(3) \times (F(2) + F(8) + F(5) \times F(9)) \quad = (T(3) + T(2)) \times T(8) + T(5) + T(9)$$

$$\mathbf{389} := F(4) + F(6) + (F(5) + F(7)) \times F(8) \quad = T(4) + T(6) \times T(5) + T(7) + T(8)$$
$$:= F(5) + F(6) \times (F(1) + F(7) + F(9)) \quad = T(5) \times T(6) + T(1) + T(7) + T(9)$$

$$\mathbf{390} := (F(2) \times F(7) + F(3)) \times (F(5) + F(8)) \quad = T(2) \times T(7) + T(3) \times (T(5) + T(8))$$
$$:= (F(9) + F(2)) \times (F(4) + F(6)) + F(5) \quad = T(9) + T(2) \times T(4) + T(6) \times T(5)$$

$$\mathbf{391} := (F(2) + F(7) + F(4)) \times F(8) + F(9) \quad = (T(2) + T(7)) \times T(4) + T(8) + T(9)$$
$$:= F(2) + (F(4) \times F(7)) \times (F(3) + F(6)) \quad = (T(2) + T(4)) \times T(7) + T(3) + T(6)$$

$$\mathbf{396} := (F(2) \times F(4) + F(6)) \times (F(3) + F(9)) \quad = (T(2) + T(4)) \times (T(6) + T(3)) + T(9)$$

$$\mathbf{397} := F(3) + F(8) + (F(6) + F(4)) \times F(9) \quad = T(3) \times (T(8) + T(6)) + T(4) + T(9)$$
$$:= F(1) + (F(6) + F(4)) \times (F(3) + F(9)) \quad = (T(1) + T(6)) \times (T(4) + T(3)) + T(9)$$
$$:= F(7) + F(3) \times (F(4) + F(8)) \times F(6) \quad = (T(7) + T(3)) \times T(4) + T(8) + T(6)$$

$$\mathbf{399} := (F(2) \times F(3) \times F(6) + F(4)) \times F(8) \quad = T(2) \times T(3) + T(6) + T(4) \times T(8)$$
$$:= (F(6) + F(2) + F(5) \times F(3)) \times F(8) \quad = T(6) + T(2) \times (T(5) \times T(3) + T(8))$$

$$\mathbf{400} := (F(2) + F(7) \times F(4)) \times F(3) \times F(5) \quad = (T(2) + T(7)) \times T(4) + T(3) \times T(5)$$
$$:= F(1) + F(8) \times (F(7) + F(3) \times F(4)) \quad = (T(1) + T(8) + T(7)) \times T(3) + T(4)$$

$$\mathbf{403} := (F(3) + F(4) \times F(6) + F(5)) \times F(7) \quad = T(3) \times T(4) + T(6) \times T(5) + T(7)$$

$$\mathbf{405} := (F(2) + F(6)) \times (F(4) + F(8) \times F(3)) \quad = T(2) + (T(6) + T(4) + T(8)) \times T(3)$$
$$:= (F(3) + F(7)) \times (F(1) + F(8) + F(5)) \quad = T(3) \times (T(7) + T(1) + T(8)) + T(5)$$

$$\mathbf{406} := (F(2) + F(7)) \times (F(5) + F(4) + F(8)) \quad = T(2) + T(7) + T(5) + T(4) \times T(8)$$

$$:= (F(3)+F(5))\times(F(9)+F(4)+F(8)) \quad = T(3)\times(T(5)+T(9))+T(4)+T(8)$$
$$:= F(2)+F(5)\times(F(9)\times F(3)+F(7)) \quad = (T(2)+T(5)+T(9))\times T(3)+T(7)$$
$$:= F(4)+F(7)\times(F(3)\times F(5)+F(8)) \quad = T(4)\times T(7)+T(3)\times T(5)+T(8)$$

$$\mathbf{407} := (F(1)+F(3)+F(6))\times(F(9)+F(4)) \quad = T(1)+T(3)\times(T(6)+T(9))+T(4)$$

$$\mathbf{408} := (F(2)+F(5))\times F(3)\times F(1)\times F(9) \quad = T(2)\times(T(5)\times T(3)+T(1)+T(9))$$
$$:= (F(3)\times F(6)+F(1))\times(F(4)+F(8)) \quad = T(3)\times(T(6)+T(1)+T(4)+T(8))$$

$$\mathbf{409} := (F(9)+F(3))\times(F(4)+F(6))+F(7) \quad = T(9)+(T(3)+T(4))\times T(6)+T(7)$$
$$:= F(4)+(F(7)+F(2))\times(F(8)+F(6)) \quad = T(4)\times T(7)+T(2)\times T(8)+T(6)$$
$$:= F(4)+(F(8)+F(6))\times(F(1)+F(7)) \quad = T(4)\times T(8)+T(6)\times T(1)+T(7)$$

$$\mathbf{411} := F(8)\times F(5)+(F(1)+F(6))\times F(9) \quad = T(8)+T(5)\times(T(1)+T(6))+T(9)$$
$$\mathbf{414} := F(3)\times(F(7)\times F(4)+F(6)\times F(8)) \quad = T(3)\times T(7)+T(4)\times T(6)+T(8)$$
$$\mathbf{416} := (F(4)\times(F(6)+F(2))+F(5))\times F(7) \quad = T(4)+T(6)\times(T(2)+T(5))+T(7)$$
$$\mathbf{417} := (F(9)+F(3))\times(F(4)+F(6))+F(8) \quad = T(9)+(T(3)+T(4))\times T(6)+T(8)$$

$$\mathbf{420} := (F(1)+F(2)+F(6))\times F(3)\times F(8) \quad = (T(1)+T(2)\times T(6))\times T(3)+T(8)$$
$$:= (F(2)+F(6)\times F(3)+F(4))\times F(8) \quad = (T(2)+T(6))\times(T(3)+T(4))+T(8)$$
$$:= (F(3)\times(F(2)+F(5))+F(6))\times F(8) \quad = T(3)+(T(2)+T(5))\times T(6)+T(8)$$
$$:= (F(3)+F(4)+F(5))\times(F(6)+F(9)) \quad = T(3)\times T(4)+T(5)\times T(6)+T(9)$$
$$:= F(5)\times F(1)\times(F(2)+F(4))\times F(8) \quad = (T(5)\times(T(1)+T(2)))+(T(4)\times T(8))$$
$$:= (F(5)+F(2))\times F(3)\times(F(1)+F(9)) \quad = T(5)+(((T(2)+T(3))\times T(1))\times T(9))$$
$$:= F(3)\times F(5)\times(F(6)+F(7)+F(8)) \quad = (T(3)\times((T(5)+T(6))+T(7)))+T(8)$$
$$:= F(4)\times(F(3)+F(6))\times(F(2)+F(7)) \quad = ((T(4)+T(3))\times T(6))+(T(2)\times T(7))$$
$$:= F(5)\times(F(1)+F(2))\times(F(6)+F(9)) \quad = (T(5)\times((T(1)+T(2))+T(6)))+T(9)$$
$$:= F(4)\times(F(8)\times F(5)+F(1)+F(9)) \quad = (((T(4)\times T(8))+T(5))\times T(1))+T(9)$$

$$\mathbf{423} := (F(3)\times F(7)+F(8))\times(F(2)+F(6)) \quad = T(3)\times(T(7)+T(8)+T(2))+T(6)$$
$$\mathbf{424} := (F(5)+F(8))\times(F(4)+F(7))+F(6) \quad = T(5)+T(8)\times T(4)+T(7)+T(6)$$

$$\mathbf{426} := (F(3)\times F(9)+F(4))\times(F(1)+F(5)) \quad = T(3)\times(T(9)+T(4)+T(1)+T(5))$$
$$:= (F(2)+F(5))\times(F(6)+F(4)\times F(8)) \quad = (T(2)+T(5)+T(6))\times T(4)+T(8)$$

$$\mathbf{429} := ((F(2)+F(5))\times F(3)+F(8))\times F(7) \quad = T(2)\times T(5)+T(3)\times(T(8)+T(7))$$
$$:= (F(3)+F(6)+F(2))\times(F(5)+F(9)) \quad = T(3)+T(6)\times(T(2)+T(5))+T(9)$$
$$:= F(9)\times(F(2)+F(6)+F(4))+F(8) \quad = T(9)+T(2)+T(6)+T(4)\times T(8)$$

$$\mathbf{430} := F(5)\times(F(7)\times(F(4)+F(2))+F(9)) \quad = T(5)+T(7)\times T(4)+T(2)\times T(9)$$

$$\begin{aligned}
\mathbf{432} &:= F(3)\times(F(1)+F(5)+F(8))\times F(6) && = T(3)\times T(1)\times(T(5)+T(8)+T(6))\\
\mathbf{433} &:= F(2)+(F(5)+F(7))\times(F(4)+F(8)) && = T(2)\times T(5)+T(7)+T(4)\times T(8)\\
\mathbf{435} &:= (F(2)+F(3))\times F(5)\times(F(8)+F(6)) && = T(2)+T(3)\times(T(5)+T(8)+T(6))
\end{aligned}$$

$$\begin{aligned}
\mathbf{441} &:= (F(1)\times F(3)\times F(6)+F(5))\times F(8) && = (T(1)\times T(3)+T(6))\times T(5)+T(8)\\
&:= (F(2)+F(5)+F(1))\times F(4)\times F(8) && = T(2)\times T(5)+(T(1)+T(4))\times T(8)\\
&:= ((F(2)+F(6))\times F(3)+F(4))\times F(8) && = T(2)\times(T(6)+T(3))+T(4)\times T(8)\\
&:= (F(2)\times F(5)+F(3)\times F(6))\times F(8) && = T(2)\times(T(5)\times T(3)+T(6)+T(8))\\
&:= (F(4)+F(6)+F(5)\times F(3))\times F(8) && = T(4)\times T(6)+T(5)+T(3)\times T(8)\\
&:= F(4)\times(F(6)+F(5)\times F(8)+F(9)) && = T(4)\times(T(6)+T(5))+T(8)+T(9)
\end{aligned}$$

$$\begin{aligned}
\mathbf{442} &:= (F(2)\times F(5)+F(6))\times(F(7)+F(8)) && = (T(2)+T(5))\times T(6)+T(7)+T(8)\\
&:= (F(3)+F(6)+F(4))\times(F(7)+F(8)) && = T(3)\times T(6)+T(4)\times T(7)+T(8)\\
&:= (F(1)+F(3)\times F(6))\times(F(5)+F(8)) && = T(1)+(T(3)+T(6))\times T(5)+T(8)
\end{aligned}$$

$$\begin{aligned}
\mathbf{444} &:= F(1)+F(2)+(F(5)+F(6))\times F(9) && = (T(1)+T(2)+T(5))\times T(6)+T(9)\\
\mathbf{445} &:= F(1)+F(4)+F(8)\times(F(6)+F(7)) && = (T(1)+T(4))\times T(8)+T(6)+T(7)\\
\mathbf{447} &:= F(5)+F(3)+F(6)\times(F(9)+F(8)) && = (T(5)+(T(3)\times(T(6)+T(9))))+T(8)
\end{aligned}$$

$$\begin{aligned}
\mathbf{448} &:= F(1)+F(4)+F(3)+F(7)\times F(9) && = T(1)\times T(4)+T(3)\times(T(7)+T(9))\\
&:= F(3)\times F(6)\times(F(5)\times F(4)+F(7)) && = (T(3)+T(6)+T(5))\times T(4)+T(7)
\end{aligned}$$

$$\begin{aligned}
\mathbf{449} &:= F(1)+F(4)\times F(3)+F(7)\times F(9) && = T(1)+T(4)+T(3)\times(T(7)+T(9))\\
\mathbf{450} &:= F(3)+F(6)\times(F(2)+F(9)+F(8)) && = T(3)\times(T(6)+T(2)+T(9))+T(8)\\
\mathbf{451} &:= F(4)\times(F(2)+F(3))+F(7)\times F(9) && = T(4)+T(2)+T(3)\times(T(7)+T(9))\\
\mathbf{453} &:= F(1)+F(5)\times F(3)+F(7)\times F(9) && = T(1)\times T(5)+T(3)\times(T(7)+T(9))\\
\mathbf{454} &:= (F(1)+F(5))\times F(3)+F(7)\times F(9) && = T(1)+T(5)+T(3)\times(T(7)+T(9))
\end{aligned}$$

$$\begin{aligned}
\mathbf{456} &:= (F(3)\times F(8)+F(4)\times F(5))\times F(6) && = (T(3)+T(8))\times T(4)+T(5)+T(6)\\
&:= (F(4)+F(5))\times(F(8)+F(3)+F(9)) && = T(4)\times T(5)+T(8)+T(3)\times T(9)
\end{aligned}$$

$$\begin{aligned}
\mathbf{457} &:= F(1)\times F(3)+F(7)\times(F(2)+F(9)) && = T(1)+T(3)\times(T(7)+T(2)+T(9))\\
\mathbf{459} &:= F(1)+F(7)\times F(9)+F(3)\times F(6) && = (T(1)\times T(7)+T(9))\times T(3)+T(6)
\end{aligned}$$

$$\begin{aligned}
\mathbf{460} &:= (F(1)+F(6))\times F(3)+F(7)\times F(9) && = T(1)+T(6)+T(3)\times(T(7)+T(9))\\
&:= F(5)\times(F(3)+F(8))\times(F(1)+F(4)) && = T(5)\times T(3)+(T(8)+T(1))\times T(4)
\end{aligned}$$

$$\begin{aligned}
\mathbf{462} &:= ((F(3)+F(2))\times F(4)+F(7))\times F(8) && = T(3)\times(T(2)+T(4)+T(7)+T(8))\\
&:= (F(4)+F(6))\times F(1)\times F(3)\times F(8) && = T(4)\times T(6)+(T(1)+T(3))\times T(8)
\end{aligned}$$

$$\mathbf{463} := F(4) \times (F(5) + F(3)) + F(7) \times F(9) \quad = T(4) + T(5) + T(3) \times (T(7) + T(9))$$

$$\mathbf{465} := (F(1) + F(9)) \times F(7) + F(3) + F(6) \quad = (T(1) + T(9) + T(7)) \times T(3) + T(6)$$
$$:= F(2) + (F(7) + F(4)) \times (F(8) + F(6)) \quad = T(2) \times T(7) + T(4) \times T(8) + T(6)$$

$$\mathbf{468} := F(3) \times F(4) \times (F(2) + F(5)) \times F(7) \quad = (T(3) + T(4)) \times T(2) + T(5) \times T(7)$$
$$:= (F(4) \times F(6) + F(3)) \times (F(5) + F(7)) \quad = T(4) \times T(6) + T(3) \times (T(5) + T(7))$$
$$:= (F(5) + F(6)) \times F(2) \times (F(3) + F(9)) \quad = T(5) \times T(6) + T(2) \times (T(3) + T(9))$$

$$\mathbf{469} := F(2) + F(7) \times (F(5) \times F(4) + F(8)) \quad = T(2) + (T(7) + T(5)) \times T(4) + T(8)$$

$$\mathbf{471} := F(1) + F(3) \times F(5) \times (F(7) + F(9)) \quad = T(1) \times T(3) + T(5) \times T(7) + T(9)$$
$$:= F(2) + (F(7) + F(9)) \times F(3) \times F(5) \quad = (T(2) + T(7) + T(9)) \times T(3) + T(5)$$

$$\mathbf{472} := F(3) \times (F(1) + F(5) \times (F(7) + F(9))) \quad = T(3) + T(1) + T(5) \times T(7) + T(9)$$
$$\mathbf{474} := F(2) + F(5) + F(7) \times (F(3) + F(9)) \quad = T(2) + T(5) \times T(7) + T(3) + T(9)$$
$$\mathbf{477} := F(2) + F(7) \times (F(9) + F(3)) + F(6) \quad = (T(2) + T(7) + T(9)) \times T(3) + T(6)$$
$$\mathbf{477} := F(1) + (F(6) + F(3) \times F(4)) \times F(9) \quad = T(1) \times T(6) + T(3) + T(4) \times T(9)$$
$$\mathbf{478} := F(6) + F(3) \times F(5) \times (F(7) + F(9)) \quad = (T(6) + T(3)) \times T(5) + T(7) + T(9)$$
$$\mathbf{480} := (F(3) + F(6)) \times (F(9) + F(2) + F(7)) \quad = T(3) \times (T(6) + T(9)) + T(2) \times T(7)$$

$$\mathbf{481} := (F(1) \times F(2)) \times F(7) \times (F(4) + F(9)) \quad = T(1) \times T(2) + T(7) + T(4) \times T(9)$$
$$:= (F(8) + F(4) \times F(5) + F(1)) \times F(7) \quad = T(8) + T(4) + T(5) \times (T(1) + T(7))$$
$$:= F(7) \times (F(5) + (F(2) + F(4)) \times F(6)) \quad = (T(7) + T(5) + T(2)) \times T(4) + T(6)$$

$$\mathbf{482} := F(1) \times F(2) + F(7) \times (F(4) + F(9)) \quad = T(1) + T(2) + T(7) + T(4) \times T(9)$$
$$\mathbf{483} := F(3) + F(5) + (F(2) + F(7)) \times F(9) \quad = T(3) \times (T(5) \times T(2) + T(7)) + T(9)$$
$$\mathbf{484} := F(1) + F(3) + F(7) \times (F(4) + F(9)) \quad = T(1) \times T(3) + T(7) + T(4) \times T(9)$$
$$\mathbf{486} := F(3) \times F(5) + (F(1) + F(7)) \times F(9) \quad = T(3) + T(5) \times (T(1) + T(7)) + T(9)$$
$$\mathbf{487} := (F(1) + F(6)) \times F(5) + F(7) \times F(9) \quad = T(1) + T(6) + T(5) \times T(7) + T(9)$$

$$\mathbf{489} := F(5) + (F(7) + F(2)) \times F(9) + F(6) \quad = T(5) \times T(7) + T(2) + T(9) + T(6)$$
$$:= F(5) + F(8) \times F(3) + F(7) \times F(9) \quad = T(5) + T(8) + T(3) \times (T(7) + T(9))$$

$$\mathbf{492} := (F(3) + F(6)) \times F(5) + F(7) \times F(9) \quad = T(3) + T(6) + T(5) \times T(7) + T(9)$$

$$\mathbf{495} := F(4) \times (F(2) + F(3)) \times (F(8) + F(9)) \quad = T(4) \times (T(2) + T(3) + T(8)) + T(9)$$
$$:= F(5) \times (F(3) + F(9) + F(4) \times F(8)) \quad = T(5) \times T(3) + T(9) + T(4) \times T(8)$$

$$\mathbf{496} := (F(4) \times F(5) + F(7) + F(9)) \times F(6) \quad = T(4) \times (T(5) + T(7)) + T(9) + T(6)$$

Selfie Expressions With Factorial, Fibonacci and Triangular Values,
Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

$$:= F(3)+(F(2)+F(4)+F(9))\times F(7) \quad = T(3)\times T(2)+T(4)\times T(9)+T(7)$$

$$\mathbf{500} := (F(1)+F(7))\times F(9)+F(4)\times F(6) \quad = T(1)+T(7)+T(9)\times T(4)+T(6)$$

$$\mathbf{502} := (F(2)+F(4)+F(9))\times F(7)+F(6) \quad = T(2)+T(4)\times T(9)+T(7)+T(6)$$
$$:= F(5)+(F(7)+F(1))\times F(9)+F(8) \quad = T(5)\times T(7)+T(1)+T(9)+T(8)$$

$$\mathbf{504} := F(2)\times F(6)\times (F(1)+F(3))\times F(8) \quad = T(2)\times ((T(6)+T(1))\times T(3)+T(8))$$

$$\mathbf{504} := (F(2)+F(6)+F(4)\times F(5))\times F(8) \quad = T(2)+(T(6)+T(4))\times T(5)+T(8)$$
$$:= (F(4)+F(5))\times (F(3)+F(2))\times F(8) \quad = (T(4)\times T(5)+T(3))\times T(2)+T(8)$$
$$:= F(3)\times (F(2)+F(5))\times (F(6)+F(9)) \quad = T(3)\times (T(2)+T(5)+T(6)+T(9))$$

$$\mathbf{507} := F(1)+F(3)+F(6)\times F(4)\times F(8) \quad = (T(1)+T(3))\times T(6)+T(4)\times T(8)$$
$$:= F(7)\times (F(5)+F(6))\times (F(3)+F(2)) \quad = (T(7)+T(5)+T(6)\times T(3))\times T(2)$$

$$\mathbf{508} := F(7)\times (F(5)+F(6))\times F(4)+F(1) \quad = T(7)+T(5)\times (T(6)+T(4)+T(1))$$
$$:= F(2)+(F(4)\times F(7))\times (F(6)+F(5)) \quad = T(2)+T(4)\times (T(7)+T(6))+T(5)$$

$$\mathbf{510} := (F(1)\times F(2))\times F(4)\times F(5)\times F(9) \quad = (T(1)+T(2)\times T(4))\times T(5)+T(9)$$
$$:= ((F(5)+F(2))\times F(3)+F(4))\times F(9) \quad = T(5)+(T(2)+T(3))\times (T(4)+T(9))$$
$$:= (F(2)+F(6)+F(4)\times F(3))\times F(9) \quad = (T(2)+T(6))\times T(4)+T(3)\times T(9)$$

$$\mathbf{511} := F(2)+F(4)\times (F(8)+F(7))\times F(5) \quad = (T(2)+T(4))\times T(8)+T(7)+T(5)$$

$$\mathbf{513} := (F(3)+F(8)+F(9))\times (F(1)+F(6)) \quad = T(3)\times (T(8)+T(9)+T(1))+T(6)$$
$$:= F(2)\times F(4)\times (F(1)+F(9)\times F(5)) \quad = T(2)+(T(4)+T(1))\times T(9)+T(5)$$
$$:= F(2)+F(3)+F(4)\times F(5)\times F(9) \quad = T(2)\times (T(3)+T(4)\times T(5))+T(9)$$
$$:= F(3)\times F(4)+F(7)\times (F(9)+F(5)) \quad = T(3)\times (T(4)+T(7)+T(9))+T(5)$$

$$\mathbf{514} := F(4)+F(2)+F(9)\times (F(3)+F(7)) \quad = T(4)\times (T(2)+T(9))+T(3)+T(7)$$

$$\mathbf{515} := (F(1)+F(4)+F(9))\times F(7)+F(8) \quad = T(1)+T(4)\times T(9)+T(7)+T(8)$$

$$\mathbf{516} := (F(3)+F(5)\times F(9))\times F(1)\times F(4) \quad = T(3)+T(5)+T(9)\times (T(1)+T(4))$$
$$:= F(3)\times F(4)\times (F(5)\times F(7)+F(8)) \quad = T(3)\times T(4)+T(5)\times T(7)+T(8)$$
$$:= F(5)+F(2)+(F(7)+F(3))\times F(9) \quad = T(5)\times (T(2)+T(7))+T(3)+T(9)$$

$$\mathbf{517} := (F(2)\times F(4))\times F(8)\times F(6)+F(7) \quad = (T(2)+T(4))\times T(8)+T(6)+T(7)$$
$$:= (F(8)+F(3)\times F(7))\times (F(4)+F(6)) \quad = T(8)\times T(3)+T(7)\times T(4)+T(6)$$

Selfie Expressions With Factorial, Fibonacci and Triangular Values,
Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

$$\begin{aligned}
\mathbf{518} &:= (F(4)\times F(1)+F(9))\times(F(2)+F(7)) && = T(4)\times(T(1)+T(9)+T(2))+T(7)\\
\mathbf{519} &:= F(3)+(F(7)+F(9))\times(F(4)+F(6)) && = T(3)\times(T(7)+T(9)+T(4))+T(6)
\end{aligned}$$

$$\begin{aligned}
\mathbf{520} &:= (F(1)+F(4))\times F(5)\times F(3)\times F(7) && = T(1)\times T(4)+T(5)\times(T(3)+T(7))\\
&:= (F(1)+F(4)+F(2))\times F(6)\times F(7) && = T(1)\times T(4)\times(T(2)+T(6)+T(7))\\
&:= F(3)\times(F(4)+F(2))\times F(5)\times F(7) && = T(3)+T(4)+(T(2)+T(5))\times T(7)\\
&:= (F(4)+F(3)\times F(6)+F(8))\times F(7) && = T(4)+T(3)\times(T(6)+T(8)+T(7))
\end{aligned}$$

$$\begin{aligned}
\mathbf{522} &:= (F(2)\times F(7)+F(5))\times(F(6)+F(8)) && = (T(2)+T(7))\times T(5)+T(6)+T(8)\\
\mathbf{523} &:= F(2)\times F(4)\times F(5)\times F(9)+F(7) && = T(2)\times T(4)\times T(5)+T(9)+T(7)
\end{aligned}$$

$$\begin{aligned}
\mathbf{525} &:= ((F(1)+F(3))\times F(9)+F(4))\times F(5) && = (T(1)\times T(3)+T(9))\times T(4)+T(5)\\
&:= ((F(6)\times F(1))\times F(4)+F(2))\times F(8) && = T(6)+(T(1)+T(4)+T(2))\times T(8)\\
&:= (F(1)\times F(5))\times F(4)\times(F(2)+F(9)) && = (T(1)+T(5))\times T(4)\times T(2)+T(9)
\end{aligned}$$

$$\begin{aligned}
\mathbf{525} &:= (F(1)\times F(5))\times(F(2)+F(7)\times F(6)) && = (T(1)\times T(5)+T(2))\times T(7)+T(6)\\
&:= F(5)+F(7)\times(F(3)\times F(4)+F(9)) && = T(5)\times T(7)+T(3)\times T(4)+T(9)
\end{aligned}$$

$$\begin{aligned}
\mathbf{526} &:= F(1)+(F(6)\times F(7)+F(2))\times F(5) && = T(1)+T(6)+T(7)\times(T(2)+T(5))\\
&:= F(1)+F(5)\times F(8)\times(F(4)+F(3)) && = (T(1)+T(5)+T(8))\times T(4)+T(3)
\end{aligned}$$

$$\mathbf{528} := F(6)+(F(2)+F(9)+F(5))\times F(7) \quad = T(6)\times T(2)+T(9)+T(5)\times T(7)$$

$$\begin{aligned}
\mathbf{531} &:= (F(2)\times F(4))\times F(5)\times F(9)+F(8) && = T(2)\times T(4)\times T(5)+T(9)+T(8)\\
&:= F(5)\times(F(2)+F(3))\times F(9)+F(8) && = T(5)\times T(2)+T(3)\times(T(9)+T(8))\\
&:= F(1)+F(5)\times(F(3)+F(7)\times F(6)) && = T(1)\times T(5)\times(T(3)+T(7))+T(6)\\
&:= F(2)+F(5)\times(F(7)\times F(6)+F(3)) && = (T(2)+T(5))\times T(7)+T(6)+T(3)
\end{aligned}$$

$$\mathbf{532} := F(2)+F(8)+F(9)\times(F(3)+F(7)) \quad = (T(2)+T(8)+T(9))\times T(3)+T(7)$$

$$\begin{aligned}
\mathbf{534} &:= (F(3)+F(7))\times F(9)+F(4)+F(8) && = T(3)\times(T(7)+T(9)+T(4))+T(8)\\
&:= (F(3)+(F(2)+F(8))\times F(6))\times F(4) && = (T(3)+T(2))\times T(8)+T(6)\times T(4)\\
&:= F(1)+(F(7)\times((F(5)+F(9))+F(3))) && = (T(1)+T(7)+T(5)+T(9))\times T(3)
\end{aligned}$$

$$\begin{aligned}
\mathbf{535} &:= (F(4)\times(F(1)+F(9))+F(3))\times F(5) && = T(4)\times(T(1)+T(9)+T(3))+T(5)\\
&:= F(2)\times F(5)\times(F(4)+F(6)\times F(7)) && = T(2)\times T(5)+T(4)\times(T(6)+T(7))
\end{aligned}$$

$$\mathbf{538} := F(7)+F(5)\times(F(9)+F(1))\times F(4) \quad = T(7)+T(5)+T(9)\times(T(1)+T(4))$$

$$\begin{aligned}
\mathbf{540} &:= F(1)\times F(4)\times (F(9)+F(3))\times F(5) && = T(1)\times T(4)\times T(9)+T(3)\times T(5)\\
&:= F(4)\times (F(1)+F(9)+F(2))\times F(5) && = (T(4)+T(1))\times T(9)+T(2)\times T(5)\\
\\
\mathbf{541} &:= F(1)+F(4)\times (F(9)+F(3))\times F(5) && = T(1)+T(4)\times T(9)+T(3)\times T(5)\\
\mathbf{543} &:= (F(2)+F(5)\times (F(3)+F(9)))\times F(4) && = T(2)+T(5)\times T(3)+T(9)\times T(4)\\
\\
\mathbf{544} &:= F(1)\times F(9)\times (F(4)\times F(2)+F(7)) && = (T(1)+T(9))\times T(4)+T(2)\times T(7)\\
&:= F(3)\times (F(4)+F(5))\times (F(8)+F(7)) && = T(3)+T(4)\times (T(5)+T(8))+T(7)\\
\\
\mathbf{546} &:= (F(1)\times F(2))\times F(7)\times F(3)\times F(8) && = (T(1)+T(2)\times T(7))\times T(3)+T(8)\\
&:= (F(1)\times F(6)+F(5))\times F(3)\times F(8) && = (T(1)+T(6))\times T(5)+T(3)\times T(8)\\
&:= (F(2)\times F(5)\times F(6)+F(3))\times F(7) && = (T(2)+T(5))\times T(6)+T(3)\times T(7)\\
&:= (F(3)+F(2)+F(5)+F(9))\times F(7) && = T(3)\times (T(2)+T(5)+T(9)+T(7))\\
&:= ((F(5)+F(2))\times F(4)+F(6))\times F(8) && = T(5)\times (T(2)+T(4)+T(6))+T(8)\\
&:= (F(1)\times F(3)+F(6)\times F(5))\times F(7) && = T(1)\times T(3)\times T(6)+T(5)\times T(7)\\
&:= (F(3)+F(7))\times (F(9)+F(2))+F(8) && = T(3)\times (T(7)+T(9))+T(2)\times T(8)\\
&:= F(2)+F(5)\times (F(3)+F(4))\times F(8) && = (T(2)\times T(5)+T(3))\times T(4)+T(8)\\
&:= F(3)+(F(4)+F(5)+F(6))\times F(9) && = T(3)\times (T(1)+T(5))+T(4)\times T(9)\\
&:= F(3)+(F(4)+F(5)+F(6))\times F(9) && = T(3)\times (T(4)+T(5)+T(6)+T(9))\\
\\
\mathbf{547} &:= F(1)+(F(3)+F(6)\times F(5))\times F(7) && = T(1)+T(3)\times T(6)+T(5)\times T(7)\\
\\
\mathbf{549} &:= F(2)\times F(5)+F(3)\times F(6)\times F(9) && = (T(2)+T(5)+T(3))\times T(6)+T(9)\\
&:= F(5)\times F(2)+(F(7)+F(4))\times F(9) && = T(5)+T(2)\times T(7)+T(4)\times T(9)\\
&:= F(4)\times (F(8)\times F(6)+F(3)+F(7)) && = T(4)\times T(8)+T(6)+T(3)\times T(7)\\
&:= F(8)+(F(2)+F(5)\times F(7))\times F(6) && = T(8)\times T(2)+T(5)\times T(7)+T(6)\\
\\
\mathbf{550} &:= F(4)+F(2)+F(7)\times F(3)\times F(8) && = T(4)+T(2)\times T(7)\times T(3)+T(8)\\
\\
\mathbf{553} &:= (F(3)+F(9))\times F(4)\times F(5)+F(7) && = (T(3)+T(9))\times T(4)+T(5)+T(7)\\
&:= F(3)\times (F(1)+F(7)\times F(8))+F(5) && = (T(3)+T(1))\times (T(7)+T(8)+T(5))\\
\\
\mathbf{555} &:= (F(1)+F(3))\times F(5)\times (F(4)+F(9)) && = (T(1)+T(3))\times T(5)+T(4)\times T(9)\\
&:= ((F(3)+F(2))\times F(5))\times (F(4)+F(9)) && = (T(3)+T(2)\times T(5))\times T(4)+T(9)\\
&:= F(5)\times (F(2)+F(6)+F(4)\times F(9)) && = T(5)\times (T(2)+T(6)+T(4))+T(9)\\
\\
\mathbf{556} &:= (F(1)+F(4))\times (F(5)\times F(8)+F(9)) && = T(1)+T(4)\times (T(5)+T(8))+T(9)\\
\\
\mathbf{559} &:= (F(4)+F(9)+F(2)+F(5))\times F(7) && = T(4)+T(9)+(T(2)+T(5))\times T(7)\\
&:= F(5)+F(6)+F(7)\times F(3)\times F(8) && = T(5)\times T(6)+T(7)+T(3)\times T(8)
\end{aligned}$$

Selfie Expressions With Factorial, Fibonacci and Triangular Values,
Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

$$:= (F(9)+F(4)\times(F(2)+F(3)))\times F(7) \quad = T(9)+T(4)+T(2)\times T(3)\times T(7)$$

$$\mathbf{560} := (F(4)+F(3))\times F(6)\times(F(1)+F(7)) \quad = T(4)\times(T(3)+T(6)+T(1)+T(7))$$
$$:= (F(1)+F(7))\times(F(4)\times F(3)+F(9)) \quad = (T(1)+T(7))\times T(4)+T(3)\times T(9)$$

$$\mathbf{561} := (F(3)+F(9))\times F(4)\times F(5)+F(8) \quad = (T(3)+T(9))\times T(4)+T(5)+T(8)$$
$$\mathbf{564} := (F(5)+F(2))\times F(3)\times(F(7)+F(9)) \quad = T(5)+(T(2)\times T(3))\times T(7)+T(9)$$

$$\mathbf{565} := (F(1)+F(3)\times F(9))\times F(6)+F(7) \quad = T(1)+T(3)\times(T(9)+T(6)+T(7))$$
$$:= F(9)\times(F(4)\times F(5)+F(1))+F(8) \quad = T(9)+T(4)\times(T(5)+T(1)+T(8))$$
$$:= F(5)+(F(7)+F(4))\times(F(2)+F(9)) \quad = (T(5)+T(7))\times T(4)+T(2)\times T(9)$$

$$\mathbf{567} := (F(1)+F(3)\times(F(6)+F(5)))\times F(8) \quad = T(1)\times T(3)+T(6)+T(5)\times T(8)$$
$$:= (F(5)+(F(4)+F(6))\times F(3))\times F(8) \quad = (T(5)+T(4))\times T(6)+T(3)+T(8)$$
$$:= F(5)+F(3)\times(F(7)\times F(8)+F(6)) \quad = T(5)\times(T(3)+T(7))+T(8)+T(6)$$
$$:= F(8)\times(F(3)+F(2)+F(4)\times F(6)) \quad = (T(8)+T(3))\times(T(2)+T(4))+T(6)$$

$$\mathbf{568} := F(1)+(F(2)+F(3)\times F(7))\times F(8) \quad = (T(1)+T(2)\times T(3))\times T(7)+T(8)$$

$$\mathbf{570} := F(3)\times F(7)\times F(8)+F(4)\times F(6) \quad = T(3)\times(T(7)+T(8)+T(4)+T(6))$$
$$:= F(2)\times F(3)\times(F(7)+F(6)\times F(9)) \quad = T(2)\times T(3)\times T(7)+T(6)+T(9)$$
$$:= F(3)\times F(1)\times(F(7)+F(6)\times F(9)) \quad = T(3)\times(T(1)+T(7)+T(6)+T(9))$$
$$:= F(4)+(F(3)\times F(7)+F(2))\times F(8) \quad = (T(4)+T(3)\times T(7))\times T(2)+T(8)$$

$$\mathbf{572} := (F(1)+F(6))\times F(4)\times F(8)+F(5) \quad = T(1)+T(6)+T(4)+T(8)\times T(5)$$

$$\mathbf{573} := F(4)\times F(8)+(F(7)+F(3))\times F(9) \quad = T(4)\times T(8)+T(7)\times T(3)+T(9)$$
$$:= F(2)+(F(9)+F(3)\times F(5))\times F(7) \quad = T(2)\times(T(9)+T(3))+T(5)\times T(7)$$
$$:= F(4)\times(F(9)\times F(5)\times F(2)+F(8)) \quad = T(4)\times T(9)+T(5)+T(2)\times T(8)$$

$$\mathbf{576} := (F(2)+F(9)+F(1))\times F(3)\times F(6) \quad = T(2)\times(T(9)+(T(1)+T(3))\times T(6))$$
$$:= (F(1)+F(4)+F(9)\times F(3))\times F(6) \quad = T(1)\times T(4)\times T(9)+T(3)\times T(6)$$
$$:= (F(3)+F(1))\times(F(4)+F(8))\times F(6) \quad = T(3)\times T(1)+T(4)\times(T(8)+T(6))$$
$$:= (F(5)\times F(4)+F(1))\times(F(3)+F(9)) \quad = T(5)+(T(4)+T(1))\times(T(3)+T(9))$$
$$:= (F(5)+F(4)+F(6))\times(F(3)+F(9)) \quad = (T(5)+T(4))\times T(6)+T(3)+T(9)$$
$$:= F(3)\times F(6)\times(F(5)\times F(4)+F(8)) \quad = T(3)\times(T(6)+T(5))+T(4)\times T(8)$$
$$:= (F(3)+(F(7)+F(2))\times F(5))\times F(6) \quad = (T(3)+T(7)+T(2))\times T(5)+T(6)$$
$$:= F(6)\times(F(2)+F(4)+F(9)\times F(3)) \quad = (T(6)+T(2)\times T(4)+T(9))\times T(3)$$

$$\mathbf{577} := F(5)+(F(8)+F(2))\times F(3)\times F(7) \quad = T(5)\times T(8)+T(2)+T(3)+T(7)$$

Selfie Expressions With Factorial, Fibonacci and Triangular Values,
Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

$$\begin{aligned}
\mathbf{579} &:= F(2)+(F(7)+F(1)+F(4))\times F(9) && = T(2)\times T(7)+(T(1)+T(4))\times T(9)\\
\mathbf{580} &:= F(3)+F(9)\times(F(4)+F(2)+F(7)) && = T(3)\times T(9)+T(4)\times(T(2)+T(7))\\
\mathbf{582} &:= F(4)\times(F(5)+(F(1)+F(6))\times F(8)) && = (T(4)+T(5)+T(1))\times T(6)+T(8)\\
\mathbf{584} &:= (F(9)+(F(4)\times F(1))\times F(7))\times F(6) && = T(9)+(T(4)+T(1))\times(T(7)+T(6))\\
\\
\mathbf{585} &:= (F(6)+F(2))\times F(7)\times(F(4)+F(3)) && = T(6)+(T(2)\times T(7)+T(4))\times T(3)\\
&:= (F(2)+F(3)\times(F(1)+F(8)))\times F(7) && = (T(2)+T(3))\times(T(1)+T(8)+T(7))\\
&:= F(1)+(F(3)\times F(9)+F(5))\times F(6) && = T(1)\times T(3)\times T(9)+T(5)\times T(6)\\
\\
\mathbf{586} &:= (F(4)+F(7)\times F(8))\times F(3)+F(9) && = T(4)\times T(7)+T(8)+T(3)\times T(9)\\
&:= F(3)\times(F(8)+F(9)\times(F(5)+F(4))) && = T(3)\times(T(8)+T(9)+T(5))+T(4)\\
\\
\mathbf{588} &:= (F(6)\times F(9)+F(8)+F(1))\times F(3) && = T(6)+(T(9)+T(8))\times(T(1)+T(3))\\
&:= (F(2)+F(4))\times(F(3)+F(5))\times F(8) && = T(2)\times(T(4)+T(3))+T(5)\times T(8)\\
&:= (F(3)+F(7))\times(F(5)+F(9))+F(4) && = T(3)\times(T(7)+T(5)+T(9)+T(4))\\
\\
\mathbf{594} &:= F(3)\times(F(7)\times F(8)+F(4)\times F(6)) && = T(3)\times(T(7)+T(8))+T(4)\times T(6)\\
&:= F(3)\times(F(2)+F(6)\times(F(4)+F(9))) && = T(3)\times(T(2)+T(6))+T(4)\times T(9)\\
\\
\mathbf{595} &:= (F(1)+F(9))\times(F(6)\times F(3)+F(2)) && = T(1)+(T(9)+T(6))\times(T(3)+T(2))\\
\\
\mathbf{598} &:= ((F(4)+F(3))\times F(5)+F(8))\times F(7) && = T(4)\times(T(3)+T(5)+T(8))+T(7)\\
&:= (F(1)+F(4)\times F(6)+F(8))\times F(7) && = T(1)\times T(4)\times(T(6)+T(8))+T(7)\\
&:= (F(2)+F(8)+F(4)\times F(6))\times F(7) && = T(2)\times T(8)+T(4)\times(T(6)+T(7))\\
\\
\mathbf{600} &:= (F(3)+F(7))\times(F(2)+F(5)+F(9)) && = (T(3)+T(7)+T(2))\times T(5)+T(9)\\
\mathbf{608} &:= F(1)\times F(6)\times(F(8)\times F(4)+F(7)) && = (T(1)+T(6)+T(8))\times T(4)+T(7)\\
\\
\mathbf{609} &:= ((F(3)+F(2))\times F(6)+F(5))\times F(8) && = T(3)+T(2)\times T(6)+T(5)\times T(8)\\
&:= (F(2)+F(5)\times F(4)+F(7))\times F(8) && = T(2)+T(5)\times(T(4)+T(7))+T(8)\\
\\
\mathbf{612} &:= F(4)\times(F(9)+F(3)+F(6)\times F(8)) && = T(4)\times T(9)+T(3)\times T(6)+T(8)\\
\\
\mathbf{613} &:= F(1)+F(9)\times F(4)\times(F(2)+F(5)) && = (T(1)+T(9))\times(T(4)+T(2))+T(5)\\
&:= F(3)+(F(9)+F(5)+F(6))\times F(7) && = T(3)\times T(9)+T(5)\times T(6)+T(7)\\
&:= F(5)+F(6)\times(F(8)\times F(4)+F(7)) && = T(5)+(T(6)+T(8))\times T(4)+T(7)\\
\\
\mathbf{615} &:= F(1)\times F(4)+(F(7)+F(5))\times F(9) && = (T(1)\times T(4)+T(7))\times T(5)+T(9)\\
&:= (F(2)+F(9)\times(F(1)+F(5)))\times F(4) && = T(2)\times(T(9)+(T(1)+T(5))\times T(4))\\
&:= (F(3)+F(7))\times(F(2)+F(5)\times F(6)) && = T(3)\times(T(7)\times T(2)+T(5))+T(6)
\end{aligned}$$

$$:= F(4) + (F(6) + F(2)) \times F(3) \times F(9) \quad = T(4) \times T(6) + (T(2) + T(3)) \times T(9)$$
$$:= F(5) \times (F(8) \times F(2) + F(4) \times F(9)) \quad = T(5) \times T(8) + T(2) \times T(4) + T(9)$$

$$\mathbf{616} := F(1) + F(4) + (F(7) + F(5)) \times F(9) \quad = T(1) + (T(4) + T(7)) \times T(5) + T(9)$$
$$:= (F(4) + F(6)) \times (F(8) + F(1) + F(9)) \quad = T(4) \times (T(6) + T(8)) + T(1) + T(9)$$

$$\mathbf{618} := (F(3) + (F(2) + F(5)) \times F(9)) \times F(4) \quad = T(3) \times T(2) + (T(5) + T(9)) \times T(4)$$
$$\mathbf{619} := F(3) \times (F(9) + F(7) \times F(8)) + F(5) \quad = T(3) + T(9) + T(7) + T(8) \times T(5)$$

$$\mathbf{624} := (F(2) + F(4) + F(3)) \times F(6) \times F(7) \quad = T(2) \times T(4) + T(3) + T(6) \times T(7)$$
$$:= (F(3) \times F(4) + F(6) + F(9)) \times F(7) \quad = T(3) \times (T(4) + T(6) + T(9) + T(7))$$
$$:= (F(1) + F(8) \times F(3) + F(5)) \times F(7) \quad = T(1) \times T(8) + (T(3) + T(5)) \times T(7)$$
$$:= F(6) \times F(2) \times F(4) \times (F(5) + F(8)) \quad = T(6) \times (T(2) + T(4) + T(5)) + T(8)$$

$$\mathbf{625} := F(1) \times F(5) \times (F(8) + F(6) \times F(7)) \quad = (T(1) + T(5)) \times T(8) + T(6) + T(7)$$
$$:= (F(3) + F(4)) \times (F(8) + F(6) \times F(7)) \quad = (T(3) + T(4)) \times T(8) + T(6) + T(7)$$
$$:= F(1) + F(7) \times F(6) \times F(3) \times F(4) \quad = (T(1) + T(7)) \times T(6) + T(3) + T(4)$$

$$\mathbf{627} := F(4) + (F(5) + F(9)) \times F(3) \times F(6) \quad = T(4) \times (T(5) + T(9)) + T(3) + T(6)$$

$$\mathbf{630} := (F(2) \times F(3)) \times F(5) \times F(4) \times F(8) \quad = T(2) \times T(3) \times T(5) + T(4) \times T(8)$$
$$:= (F(2) + F(1) + F(7)) \times F(3) \times F(8) \quad = T(2) \times ((T(1) + T(7)) \times T(3) + T(8))$$
$$:= F(1) \times F(4) \times (F(3) + F(6)) \times F(8) \quad = T(1) \times T(4) \times (T(3) + T(6) + T(8))$$
$$:= (F(1) + F(3) \times F(6) + F(7)) \times F(8) \quad = T(1) \times T(3) + T(6) \times T(7) + T(8)$$
$$:= (F(1) + F(3)) \times (F(9) + F(6)) \times F(5) \quad = (T(1) + T(3)) \times T(9) + T(6) \times T(5)$$
$$:= F(4) \times (F(1) + F(5)) \times (F(2) + F(9)) \quad = T(4) \times T(1) \times (T(5) + T(2) + T(9))$$
$$:= F(5) \times (F(3) + F(2)) \times (F(6) + F(9)) \quad = T(5) \times (T(3) \times T(2) + T(6)) + T(9)$$
$$:= F(3) \times ((F(9) + F(5)) \times F(6) + F(4)) \quad = T(3) \times T(9) + (T(5) + T(6)) \times T(4)$$

$$\mathbf{631} := F(1) + F(4) \times (F(3) + F(6)) \times F(8) \quad = T(1) + T(4) \times (T(3) + T(6) + T(8))$$
$$\mathbf{632} := (F(3) \times F(4) \times F(7) + F(1)) \times F(6) \quad = T(3) + T(4) + T(7) \times (T(1) + T(6))$$

$$\mathbf{633} := ((F(3) + F(6)) \times F(8) + F(1)) \times F(4) \quad = T(3) + (T(6) + T(8)) \times (T(1) + T(4))$$
$$:= (F(2) + (F(3) + F(6)) \times F(8)) \times F(4) \quad = T(2) + (T(3) + T(6) + T(8)) \times T(4)$$
$$:= F(4) \times (F(2) + F(5) \times (F(6) + F(9))) \quad = (T(4) + T(2) + T(5)) \times T(6) + T(9)$$

$$\mathbf{634} := F(3) \times (F(5) + F(7) \times (F(4) + F(8))) \quad = (T(3) + T(5)) \times T(7) + T(4) + T(8)$$

$$\mathbf{636} := F(3) \times F(4) \times (F(1) + F(5) \times F(8)) \quad = T(3) \times T(4) + (T(1) + T(5)) \times T(8)$$
$$:= (F(3) + F(7) \times F(6)) \times (F(2) + F(5)) \quad = T(3) \times (T(7) + T(6) \times T(2) + T(5))$$

$$:= F(4) \times (F(3) \times F(8) + F(5) \times F(9)) \quad = (T(4) + T(3)) \times T(8) + T(5) + T(9)$$

$$\mathbf{637} := ((F(1) + F(8)) \times F(3) + F(5)) \times F(7) \quad = T(1) + T(8) \times T(3) + T(5) \times T(7)$$
$$\mathbf{638} := F(1) + (F(9) + F(5) \times F(4)) \times F(7) \quad = (T(1) + T(9) + T(5)) \times T(4) + T(7)$$
$$\mathbf{639} := (F(4) + F(9) \times F(3)) \times (F(2) + F(6)) \quad = T(4) \times T(9) + (T(3) + T(2)) \times T(6)$$

$$\mathbf{640} := F(1) \times F(6) \times (F(4) + F(7)) \times F(5) \quad = (T(1) + T(6)) \times T(4) + T(7) \times T(5)$$
$$:= (F(1) + F(4) \times F(8)) \times F(3) \times F(5) \quad = T(1) \times T(4) + (T(8) + T(3)) \times T(5)$$
$$:= F(2) \times F(6) \times F(5) \times (F(4) + F(7)) \quad = (T(2) + T(6)) \times T(5) + T(4) \times T(7)$$
$$:= (F(4) \times F(8) + F(1)) \times (F(3) + F(6)) \quad = T(4) \times (T(8) + T(1) + T(3) + T(6))$$
$$:= F(3) \times F(6) \times (F(2) + F(7) \times F(4)) \quad = T(3) \times (T(6) + T(2) \times T(7)) + T(4)$$
$$:= F(3) \times (F(6) + F(7) \times (F(4) + F(8))) \quad = T(3) + T(6) \times T(7) + T(4) + T(8)$$

$$\mathbf{641} := F(1) + (F(4) + F(7)) \times F(5) \times F(6) \quad = T(1) + T(4) \times (T(7) + T(5) + T(6))$$

$$\mathbf{645} := F(4) \times (F(3) \times F(8) + F(2)) \times F(5) \quad = T(4) \times T(3) + (T(8) + T(2)) \times T(5)$$
$$:= F(4) \times F(5) \times (F(2) + F(6) + F(9)) \quad = (T(4) + T(5)) \times (T(2) + T(6)) + T(9)$$
$$:= F(4) \times ((F(3) + F(6)) \times F(8) + F(5)) \quad = T(4) \times (T(3) + T(6) + T(8)) + T(5)$$
$$:= F(5) \times (F(1) + (F(7) + F(4)) \times F(6)) \quad = T(5) \times (T(1) + T(7)) + T(4) \times T(6)$$
$$:= F(5) \times (F(8) + F(4) \times (F(3) + F(9))) \quad = T(5) \times T(8) + T(4) \times T(3) + T(9)$$

$$\mathbf{646} := (F(1) + F(3) + F(7) + F(4)) \times F(9) \quad = (T(1) + T(3)) \times T(7) + T(4) \times T(9)$$

$$\mathbf{648} := F(4) \times (F(1) + F(3) \times F(7)) \times F(6) \quad = T(4) \times T(1) \times T(3) + T(7) \times T(6)$$

$$\mathbf{651} := ((F(5) + F(2)) \times F(4) + F(7)) \times F(8) \quad = T(5) \times (T(2) + T(4) + T(7)) + T(8)$$
$$:= ((F(5) \times F(1)) + (F(7) \times F(3))) \times F(8) \quad = T(5) \times (T(1) + T(7)) + T(3) \times T(8)$$
$$:= F(1) + F(7) \times (F(6) + F(3) \times F(8)) \quad = (T(1) + T(7)) \times T(6) + T(3) + T(8)$$
$$:= F(2) + (F(6) + F(3)) \times F(5) \times F(7) \quad = T(2) \times T(6) + (T(3) + T(5)) \times T(7)$$

$$\mathbf{652} := F(1) + (F(5) + F(3) \times F(7)) \times F(8) \quad = (T(1) + T(5) + T(3)) \times T(7) + T(8)$$

$$\mathbf{658} := (F(4) + F(8)) \times F(7) \times F(3) + F(9) \quad = T(4) \times T(8) + T(7) + T(3) \times T(9)$$
$$:= (F(1) + F(7)) \times (F(5) + F(3) \times F(8)) \quad = T(1) \times T(7) + T(5) \times (T(3) + T(8))$$

$$\mathbf{660} := F(4) \times (F(2) + F(8)) \times F(3) \times F(5) \quad = T(4) \times T(2) + (T(8) + T(3)) \times T(5)$$
$$:= F(4) \times (F(3) + F(6)) \times (F(2) + F(8)) \quad = T(4) \times (T(3) + T(6) + T(2) + T(8))$$

$$\mathbf{663} := (F(4) + (F(5) + F(2)) \times F(6)) \times F(7) \quad = (T(4) + T(5)) \times T(2) + T(6) \times T(7)$$

$$
\begin{aligned}
\mathbf{666} &:= (F(1)+F(6))\times(F(9)+F(4))\times F(3) && = (T(1)\times T(6)+T(9))\times T(4)+T(3)\\
&:= (F(3)\times F(5)+F(6))\times(F(4)+F(9)) && = T(3)\times(T(5)+T(6))+T(4)\times T(9)\\
\\
\mathbf{669} &:= (F(9)+F(3))\times(F(5)+F(7))+F(8) && = T(9)+(T(3)+T(5))\times T(7)+T(8)\\
\\
\mathbf{672} &:= F(3)\times F(8)\times(F(1)+F(2))\times F(6) && = (T(3)\times T(8)+T(1))\times T(2)+T(6)\\
&:= (F(5)+F(7)\times F(3)+F(1))\times F(8) && = T(5)\times T(7)+(T(3)+T(1))\times T(8)\\
\\
\mathbf{676} &:= (F(1)+F(2))\times(F(5)+F(8))\times F(7) && = (T(1)\times T(2)+T(5))\times T(8)+T(7)\\
&:= (F(3)\times(F(6)+F(2))+F(9))\times F(7) && = T(3)\times(T(6)\times T(2)+T(9))+T(7)\\
&:= (F(4)+F(2))\times F(7)\times(F(6)+F(5)) && = T(4)+(T(2)+T(7))\times T(6)+T(5)\\
&:= F(3)+(F(6)\times F(4))\times(F(5)+F(8)) && = T(3)\times T(6)+T(4)+T(5)\times T(8)\\
&:= (F(4)+F(1))\times(F(2)+F(6)\times F(8)) && = T(4)\times(T(1)+T(2)\times T(6))+T(8)\\
\\
\mathbf{682} &:= (F(3)\times F(7)+F(5))\times(F(2)+F(8)) && = T(3)+T(7)+(T(5)+T(2))\times T(8)\\
\\
\mathbf{684} &:= (F(2)+F(5)+F(7))\times(F(3)+F(9)) && = T(2)\times(T(5)+T(7)\times T(3)+T(9))\\
&:= (F(2)+F(6))\times(F(9)+F(3)\times F(8)) && = (T(2)\times T(6)+T(9))\times T(3)+T(8)\\
\\
\mathbf{688} &:= (F(1)+F(6)+F(9))\times(F(4)+F(7)) && = (T(1)\times T(6)+T(9))\times T(4)+T(7)\\
\mathbf{690} &:= F(5)\times(F(3)+F(9)\times(F(2)+F(4))) && = (T(5)+T(3)+T(9)+T(2))\times T(4)\\
\mathbf{693} &:= F(4)\times(F(1)+F(3)+F(6))\times F(8) && = (T(4)+T(1))\times(T(3)+T(6)+T(8))\\
\mathbf{702} &:= (F(1)+F(6))\times F(3)\times(F(5)+F(9)) && = T(1)\times T(6)+T(3)+T(5)\times T(9)\\
\mathbf{705} &:= F(5)\times F(4)\times(F(7)\times F(2)+F(9)) && = T(5)\times(T(4)+T(7))+T(2)\times T(9)\\
\mathbf{706} &:= F(9)+F(6)\times(F(1)+F(4))\times F(8) && = (T(9)+T(6)+T(1))\times T(4)+T(8)\\
\mathbf{712} &:= ((F(1)+F(4))\times F(8)+F(5))\times F(6) && = T(1)+(T(4)+T(8))\times T(5)+T(6)\\
\\
\mathbf{714} &:= (F(1)\times F(4)+F(7)+F(5))\times F(9) && = T(1)+T(4)+T(7)+T(5)\times T(9)\\
&:= (F(2)\times F(3)\times F(6)+F(5))\times F(9) && = T(2)\times T(3)+T(6)+T(5)\times T(9)\\
&:= (F(2)\times F(6)+F(7)\times F(3))\times F(8) && = (T(2)+T(6))\times T(7)+T(3)+T(8)\\
&:= (F(5)+F(3)\times F(6)+F(7))\times F(8) && = T(5)\times T(3)+T(6)\times T(7)+T(8)\\
\\
\mathbf{718} &:= F(4)+F(2)+F(9)\times(F(6)+F(7)) && = T(4)\times(T(2)+T(9)+T(6))+T(7)\\
\\
\mathbf{720} &:= F(1)\times F(2)+F(9)\times F(8)+F(5) && = (T(1)+T(2))\times T(9)+T(8)\times T(5)\\
&:= (F(2)+F(4))\times F(5)\times(F(3)+F(9)) && = T(2)\times T(4)\times T(5)+T(3)\times T(9)\\
&:= (F(3)+F(7))\times(F(2)+F(5))\times F(6) && = T(3)\times(T(7)\times T(2)+T(5)+T(6))\\
&:= F(5)\times(F(3)+F(7)+F(4))\times F(6) && = T(5)\times(T(3)+T(7))+T(4)\times T(6)\\
\\
\mathbf{721} &:= F(2)+F(5)+(F(8)+F(9))\times F(7) && = (T(2)+T(5))\times T(8)+T(9)+T(7)
\end{aligned}
$$

$$\begin{aligned}
\mathbf{722} &:= F(1)\times F(4)+F(5)+F(9)\times F(8) && = T(1)+T(4)+T(5)\times T(9)+T(8)\\
\mathbf{726} &:= F(4)+F(2)+F(6)+F(9)\times F(8) && = T(4)\times(T(2)+T(6)+T(9))+T(8)\\
\mathbf{727} &:= F(4)+F(3)\times F(5)+F(9)\times F(8) && = T(4)+T(3)+T(5)\times T(9)+T(8)\\
\\
\mathbf{729} &:= (F(2)+F(3))\times F(5)+F(9)\times F(8) && = T(2)\times T(3)+T(5)\times T(9)+T(8)\\
&:= F(1)+(F(5)+F(3))\times F(7)\times F(6) && = T(1)\times T(5)+(T(3)+T(7))\times T(6)\\
\\
\mathbf{735} &:= F(4)\times(F(3)+F(5))\times(F(1)+F(9)) && = T(4)\times T(3)+T(5)\times T(1)\times T(9)\\
\mathbf{738} &:= F(2)+F(3)+F(8)\times(F(1)+F(9)) && = (T(2)+T(3))\times(T(8)+T(1)+T(9))\\
\\
\mathbf{741} &:= ((F(3)+F(5))\times F(6)+F(2))\times F(7) && = T(3)\times T(5)+T(6)\times(T(2)+T(7))\\
&:= (F(1)+(F(3)+F(5))\times F(6))\times F(7) && = T(1)\times T(3)+T(5)\times(T(6)+T(7))\\
\\
\mathbf{744} &:= F(4)\times(F(5)+F(3)\times F(7))\times F(6) && = T(4)\times T(5)+T(3)+T(7)\times T(6)\\
&:= F(3)\times((F(5)+F(8))\times F(7)+F(9)) && = T(3)\times(T(5)+T(8)+T(7)+T(9))\\
\\
\mathbf{745} &:= ((F(1)+F(4))\times F(9)+F(7))\times F(5) && = T(1)\times T(4)\times(T(9)+T(7))+T(5)\\
&:= F(3)\times F(7)+F(5)+F(9)\times F(8) && = T(3)+T(7)+T(5)\times T(9)+T(8)\\
\\
\mathbf{748} &:= ((F(2)+F(3))\times F(4)+F(7))\times F(9) && = T(2)\times T(3)+T(4)\times(T(7)+T(9))\\
&:= (F(2)+F(4)+F(5)+F(7))\times F(9) && = T(2)+(T(4)+T(5))\times T(7)+T(9)\\
&:= F(9)\times(F(4)\times(F(3)+F(1))+F(7)) && = T(9)\times(T(4)+T(3))\times T(1)+T(7)\\
\\
\mathbf{750} &:= F(5)\times(F(3)\times F(6)+F(9))\times F(4) && = T(5)\times T(3)+(T(6)+T(9))\times T(4)\\
&:= F(5)\times F(4)+F(8)\times(F(1)+F(9)) && = T(5)\times(T(4)+T(8)+T(1))+T(9)\\
&:= F(3)\times(F(2)+F(9)\times(F(6)+F(4))) && = (T(3)+T(2)+T(9)+T(6))\times T(4)\\
\\
\mathbf{751} &:= F(4)+F(9)\times(F(1)+F(7)+F(6)) && = T(4)\times(T(9)\times T(1)+T(7))+T(6)\\
\mathbf{753} &:= F(3)+F(4)+(F(2)+F(8))\times F(9) && = T(3)\times(T(4)+T(2)\times T(8))+T(9)\\
\\
\mathbf{754} &:= (F(1)\times F(4)\times F(6)+F(9))\times F(7) && = (T(1)+T(4))\times(T(6)+T(9))+T(7)\\
&:= (F(2)\times F(6)\times F(4)+F(9))\times F(7) && = T(2)+T(6)+T(4)\times(T(9)+T(7))\\
\\
\mathbf{756} &:= ((F(2)+F(5))\times F(3)\times F(4))\times F(8) && = T(2)\times T(5)\times(T(3)+T(4))+T(8)\\
\mathbf{759} &:= F(2)\times F(4)+(F(3)+F(9))\times F(8) && = T(2)+(T(4)+T(3))\times T(9)+T(8)\\
\\
\mathbf{760} &:= (F(1)+(F(9)+F(7))\times F(3))\times F(6) && = T(1)+T(9)+(T(7)+T(3))\times T(6)\\
&:= (F(6)+F(3))\times(F(7)+F(4)\times F(8)) && = T(6)\times(T(3)+T(7))+T(4)+T(8)\\
\\
\mathbf{762} &:= F(1)+F(5)+(F(9)+F(3))\times F(8) && = (T(1)+T(5))\times T(9)+T(3)+T(8)
\end{aligned}$$

$$:= F(5)+F(2)+(F(9)+F(3))\times F(8) \quad = T(5)\times(T(2)+T(9))+T(3)+T(8)$$

$$\mathbf{763} := F(3)+(F(1)+F(8))\times F(9)+F(7) \quad = (T(3)+T(1))\times(T(8)+T(9)+T(7))$$
$$\mathbf{766} := (F(1)+F(4))\times F(7)+F(9)\times F(8) \quad = (T(1)\times T(4))\times(T(7)+T(9))+T(8)$$
$$\mathbf{767} := (F(1)+F(8)+F(4)+F(9))\times F(7) \quad = T(1)+T(8)+T(4)\times(T(9)+T(7))$$
$$\mathbf{768} := (F(2)+F(5))\times(F(4)+F(7))\times F(6) \quad = (T(2)+T(5))\times T(4)+T(7)\times T(6)$$
$$\mathbf{771} := F(5)\times F(4)+(F(3)+F(9))\times F(8) \quad = T(5)+(T(4)+T(3))\times T(9)+T(8)$$
$$\mathbf{772} := F(4)+F(7)+(F(9)+F(3))\times F(8) \quad = T(4)\times(T(7)+T(9))+T(3)+T(8)$$
$$\mathbf{774} := (F(2)+F(6))\times(F(7)\times F(5)+F(8)) \quad = T(2)+(T(6)+T(7))\times T(5)+T(8)$$
$$\mathbf{777} := (F(2)+(F(5)+F(7))\times F(3))\times F(8) \quad = T(2)\times(T(5)+T(7)+T(3)\times T(8))$$
$$\mathbf{780} := F(4)\times(F(3)+F(6))\times(F(5)+F(8)) \quad = T(4)\times(T(3)+T(6)+T(5)+T(8))$$
$$\mathbf{783} := F(1)\times F(2)+(F(3)+F(8))\times F(9) \quad = T(1)\times T(2)\times(T(3)\times T(8)+T(9))$$

$$\mathbf{784} := F(1)+F(2)+(F(3)+F(8))\times F(9) \quad = T(1)+T(2)\times(T(3)\times T(8)+T(9))$$
$$:= F(8)\times F(9)+F(5)\times(F(1)+F(7)) \quad = T(8)+T(9)\times(T(5)+T(1))+T(7)$$

$$\mathbf{793} := ((F(2)+F(6))\times F(4)+F(9))\times F(7) \quad = T(2)\times T(6)+T(4)\times(T(9)+T(7))$$
$$\mathbf{798} := F(4)+(F(8)+F(3))\times F(9)+F(7) \quad = T(4)\times T(8)+T(3)\times(T(9)+T(7))$$
$$\mathbf{800} := (F(3)\times F(8)+F(6))\times(F(4)+F(7)) \quad = T(3)+T(8)\times T(6)+T(4)+T(7)$$
$$\mathbf{805} := (F(4)\times F(9)+F(7))\times(F(3)+F(5)) \quad = T(4)\times(T(9)+T(7)+T(3))+T(5)$$
$$\mathbf{810} := F(5)+(F(8)+F(3))\times(F(1)+F(9)) \quad = T(5)\times T(8)+T(3)\times T(1)\times T(9)$$
$$\mathbf{814} := (F(1)\times F(2)+F(8))\times(F(9)+F(4)) \quad = T(1)+T(2)+(T(8)+T(9))\times T(4)$$

$$\mathbf{816} := (F(3)+F(2)+F(6)+F(7))\times F(9) \quad = T(3)\times(T(2)\times T(6)+T(7)+T(9))$$
$$:= F(3)+(F(4)+F(9))\times(F(1)+F(8)) \quad = T(3)+T(4)\times(T(9)\times T(1)+T(8))$$
$$:= F(9)\times(F(6)+(F(5)+F(4))\times F(3)) \quad = (T(9)+T(6)+T(5))\times T(4)+T(3)$$

$$\mathbf{819} := F(1)\times F(2)\times F(8)\times(F(5)+F(9)) \quad = (T(1)+T(2))\times T(8)+T(5)\times T(9)$$
$$:= (F(2)+F(3))\times(F(5)+F(6))\times F(8) \quad = T(2)\times(T(3)+T(5))+T(6)\times T(8)$$
$$:= (F(3)+F(8)+F(5)\times F(6))\times F(7) \quad = T(3)\times T(8)+T(5)+T(6)\times T(7)$$
$$:= F(2)+F(3)+(F(4)+F(8))\times F(9) \quad = (T(2)+T(3))\times(T(4)+T(8)+T(9))$$
$$:= F(4)\times F(7)\times(F(5)+F(3)\times F(6)) \quad = (T(4)+T(7))\times(T(5)+T(3))+T(6)$$

$$\mathbf{822} := (F(3)+F(1))\times(F(2)+F(8)\times F(7)) \quad = T(3)\times(T(1)+T(2)\times T(8)+T(7))$$
$$:= F(5)\times F(6)+(F(8)+F(3))\times F(9) \quad = T(5)+T(6)\times T(8)+T(3)+T(9)$$

$$\mathbf{825} := F(1)\times F(5)\times F(4)\times(F(8)+F(9)) \quad = T(1)\times T(5)+T(4)\times(T(8)+T(9))$$
$$:= F(3)\times F(4)+F(8)\times(F(5)+F(9)) \quad = (T(3)+T(4)+T(8))\times T(5)+T(9)$$
$$:= F(5)\times F(4)\times(F(8)\times F(2)+F(9)) \quad = T(5)\times(T(4)+T(8))+T(2)\times T(9)$$
$$:= F(5)+F(2)+F(7)\times F(4)\times F(8) \quad = T(5)\times(T(2)+T(7))+T(4)\times T(8)$$

Selfie Expressions With Factorial, Fibonacci and Triangular Values,
Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

$$
\begin{aligned}
\mathbf{826} &:= F(3)+F(5)+F(8)\times F(4)\times F(7) && = T(3)+T(5)\times T(8)+T(4)\times T(7)\\
&:= F(1)+F(5)\times F(4)\times (F(8)+F(9)) && = T(1)+T(5)+T(4)\times (T(8)+T(9))\\
&:= F(2)+(F(8)\times F(7)+F(3))\times F(4) && = (T(2)\times T(8)+T(7))\times T(3)+T(4)\\
\\
\mathbf{828} &:= (F(2)+F(5)\times (F(8)+F(9)))\times F(4) && = T(2)+T(5)+(T(8)+T(9))\times T(4)\\
&:= F(3)\times (F(7)\times F(6)+F(9))\times F(4) && = T(3)\times T(7)+(T(6)+T(9))\times T(4)\\
\\
\mathbf{829} &:= F(9)\times (F(1)+F(3))\times F(6)+F(7) && = T(9)+(T(1)+T(3)+T(6))\times T(7)\\
\mathbf{830} &:= F(4)\times (F(7)\times F(8)+F(1))+F(6) && = T(4)+T(7)+T(8)\times (T(1)+T(6))\\
\mathbf{831} &:= (F(3)+F(5)\times (F(8)+F(9)))\times F(4) && = T(3)+T(5)+(T(8)+T(9))\times T(4)\\
\\
\mathbf{832} &:= (F(2)\times F(4)+F(5))\times F(6)\times F(7) && = (T(2)+T(4))\times (T(5)+T(6)+T(7))\\
&:= (F(2)+F(6)+F(8)+F(9))\times F(7) && = T(2)+T(6)\times T(8)+T(9)+T(7)\\
&:= (F(1)\times F(2)+F(4)\times F(8))\times F(7) && = (T(1)\times T(2)+T(4))\times (T(8)+T(7))\\
&:= F(3)\times (F(4)+F(2))\times F(6)\times F(7) && = (T(3)+T(4))\times (T(2)+T(6)+T(7))\\
\\
\mathbf{833} &:= F(1)+(F(2)+F(4)\times F(8))\times F(7) && = T(1)+(T(2)+T(4))\times (T(8)+T(7))\\
\mathbf{835} &:= F(4)+F(7)+F(8)\times (F(5)+F(9)) && = T(4)\times (T(7)+T(8)+T(5))+T(9)\\
\\
\mathbf{840} &:= ((F(1)+F(3))\times F(7)+F(2))\times F(8) && = (T(1)+T(3))\times (T(7)\times T(2)+T(8))\\
&:= (F(1)\times F(4)+F(8))\times (F(2)+F(9)) && = T(1)\times T(4)\times (T(8)+T(2)+T(9))\\
&:= (F(3)\times (F(4)+F(7))+F(6))\times F(8) && = T(3)+(T(4)+T(7))\times T(6)+T(8)\\
&:= (F(4)+F(2))\times (F(9)+F(6))\times F(5) && = T(4)\times (T(2)+T(9)+T(6)+T(5))\\
&:= (F(4)+(F(2)+F(3))\times F(9))\times F(6) && = T(4)\times (T(2)\times T(3)+T(9)+T(6))\\
\\
\mathbf{841} &:= F(1)+(F(4)+F(8))\times (F(2)+F(9)) && = T(1)+T(4)\times (T(8)+T(2)+T(9))\\
\mathbf{844} &:= F(2)+F(8)\times F(6)\times F(5)+F(4) && = (T(2)+T(8))\times T(6)+T(5)+T(4)\\
\mathbf{845} &:= (F(2)+F(4)\times F(8)+F(1))\times F(7) && = (T(2)+T(4))\times (T(8)+T(1)+T(7))\\
\mathbf{846} &:= F(3)\times (F(2)+F(6))\times (F(7)+F(9)) && = (T(3)+T(2))\times (T(6)+T(7)+T(9))\\
\\
\mathbf{847} &:= (F(1)+F(6)\times F(8))\times F(5)+F(3) && = T(1)+T(6)\times T(8)+T(5)\times T(3)\\
&:= (F(1)+F(8)\times F(6))\times F(5)+F(3) && = T(1)+T(8)\times T(6)+T(5)\times T(3)\\
&:= F(3)+F(5)\times (F(6)\times F(8)+F(1)) && = T(3)\times T(5)+T(6)\times T(8)+T(1)\\
&:= F(3)+F(5)\times (F(8)\times F(6)+F(1)) && = T(3)\times T(5)+T(8)\times T(6)+T(1)\\
&:= F(3)+F(5)\times (F(1)+F(6)\times F(8)) && = T(3)\times T(5)+T(1)+T(6)\times T(8)\\
&:= F(3)+F(5)\times (F(1)+F(8)\times F(6)) && = T(3)\times T(5)+T(1)+T(8)\times T(6)\\
\\
\mathbf{850} &:= (F(4)+F(8)+F(1))\times F(2)\times F(9) && = T(4)\times (T(8)+T(1)+T(2)+T(9))\\
&:= (F(4)+F(3))\times F(5)\times (F(7)+F(8)) && = T(4)\times (T(3)+T(5)+T(7)+T(8))
\end{aligned}
$$

$$:= (F(1)+F(4)\times F(6))\times(F(7)+F(8)) \quad = (T(1)\times T(4))\times(T(6)+T(7)+T(8))$$

$$\mathbf{855} := (F(3)+F(4))\times(F(2)+F(5)\times F(9)) \quad = (T(3)\times T(4))\times T(2)+T(5)\times T(9)$$
$$:= F(5)+(F(2)+F(8)+F(4))\times F(9) \quad = (T(5)\times T(2)+T(8))\times T(4)+T(9)$$

$$\mathbf{856} := (F(4)\times F(7)+F(9)\times F(3))\times F(6) \quad = T(4)\times(T(7)+T(9))+T(3)\times T(6)$$
$$\mathbf{858} := F(4)\times(F(6)+F(5))\times(F(2)+F(8)) \quad = T(4)\times T(6)+(T(5)+T(2))\times T(8)$$

$$\mathbf{861} := (F(2)\times F(3)+F(9)+F(5))\times F(8) \quad = T(2)\times T(3)\times T(9)+T(5)+T(8)$$
$$:= (F(1)+F(8))\times(F(5)+F(9))+F(4) \quad = T(1)\times T(8)+T(5)\times(T(9)+T(4))$$
$$:= F(8)+(F(2)+F(9))\times F(4)\times F(6) \quad = (T(8)+T(2)+T(9))\times T(4)+T(6)$$

$$\mathbf{864} := F(2)\times F(4)\times F(6)\times(F(9)+F(3)) \quad = (T(2)+T(4))\times(T(6)+T(9))+T(3)$$
$$:= (F(2)+F(3)+F(5)\times F(8))\times F(6) \quad = T(2)+T(3)+T(5)\times(T(8)+T(6))$$
$$:= (F(3)+F(7)\times(F(2)+F(8)))\times F(4) \quad = T(3)\times T(7)\times T(2)+T(8)\times T(4)$$
$$:= F(4)\times(F(8)+F(3)+F(7))\times F(6) \quad = (T(4)+T(8))\times T(3)+T(7)\times T(6)$$

$$\mathbf{865} := F(1)+(F(4)+F(5)\times F(8))\times F(6) \quad = T(1)\times T(4)+T(5)\times(T(8)+T(6))$$
$$\mathbf{873} := (F(2)+F(6))\times(F(4)\times F(8)+F(9)) \quad = T(2)\times T(6)+T(4)\times(T(8)+T(9))$$
$$\mathbf{879} := (F(2)+F(8)\times F(6))\times F(5)+F(9) \quad = (T(2)+T(8))\times T(6)+T(5)+T(9)$$

$$\mathbf{880} := F(1)\times F(5)\times F(6)\times(F(2)+F(8)) \quad = T(1)+T(5)+(T(6)+T(2))\times T(8)$$
$$:= (F(3)+F(4))\times(F(8)+F(2))\times F(6) \quad = T(3)+T(4)+T(8)\times(T(2)+T(6))$$
$$:= (F(4)\times F(3)+F(9))\times(F(1)+F(8)) \quad = T(4)\times(T(3)+T(9)+T(1)+T(8))$$

$$\mathbf{882} := (F(2)+F(4)\times F(7)+F(3))\times F(8) \quad = T(2)\times T(4)\times T(7)+T(3)+T(8)$$
$$:= (F(3)+F(5)\times F(1)\times F(6))\times F(8) \quad = T(3)\times T(5)+(T(1)+T(6))\times T(8)$$

$$\mathbf{886} := F(3)+F(7)\times(F(5)+F(4)\times F(8)) \quad = (T(3)+T(7))\times(T(5)+T(4))+T(8)$$
$$\mathbf{891} := F(2)+(F(4)+F(7)\times F(9))\times F(3) \quad = T(2)\times T(4)\times T(7)+T(9)+T(3)$$

$$\mathbf{897} := (F(1)\times F(8)+F(3))\times(F(5)+F(9)) \quad = (T(1)+T(8))\times T(3)+T(5)\times T(9)$$
$$:= F(2)\times F(7)\times(F(1)+F(3)\times F(9)) \quad = T(2)\times(T(7)+T(1)+T(3)\times T(9))$$

$$\mathbf{900} := (F(4)+F(2)+F(8))\times(F(3)+F(9)) \quad = T(4)\times(T(2)+T(8)+T(3)+T(9))$$
$$:= (F(2)+F(4)\times F(6))\times(F(3)+F(9)) \quad = T(2)\times T(4)\times T(6)+T(3)\times T(9)$$
$$:= F(3)\times(F(6)\times F(2)+F(7)\times F(9)) \quad = T(3)\times(T(6)+T(2)\times T(7)+T(9))$$

$$\mathbf{903} := F(2)\times F(8)\times(F(1)+F(6)+F(9)) \quad = (T(2)+T(8))\times(T(1)+T(6))+T(9)$$

$$\begin{aligned}
\mathbf{910} &:= (F(5)+F(3)+F(8)\times F(4))\times F(7) && = T(5)\times(T(3)+T(8))+T(4)\times T(7)\\
&:= (F(2)+F(4)\times(F(3)+F(8)))\times F(7) && = (T(2)+T(4))\times(T(3)+T(8)+T(7))\\
\mathbf{912} &:= (F(2)+F(7)\times(F(1)+F(9)))\times F(3) && = T(2)\times(T(7)+(T(1)+T(9))\times T(3))\\
\mathbf{918} &:= (F(2)+(F(5)+F(6))\times F(3))\times F(9) && = T(2)\times(T(5)+T(6)+T(3)\times T(9))\\
&:= F(9)\times(F(4)\times F(3)+F(7)+F(6)) && = (T(9)+T(4))\times T(3)+T(7)\times T(6)\\
\mathbf{921} &:= F(4)\times F(6)\times F(9)+F(5)\times F(8) && = T(4)\times T(6)+T(9)\times T(5)+T(8)\\
&:= F(2)\times F(4)\times(F(7)\times F(8)+F(9)) && = T(2)\times T(4)\times T(7)+T(8)+T(9)\\
\mathbf{924} &:= (F(2)+F(6)\times F(5)+F(4))\times F(8) && = T(2)+T(6)+(T(5)+T(4))\times T(8)\\
&:= F(3)\times(F(1)+F(7)+F(6))\times F(8) && = T(3)\times T(1)\times T(7)+T(6)\times T(8)\\
&:= F(2)+F(7)\times(F(4)+F(3)\times F(9)) && = T(2)\times(T(7)+T(4)+T(3)\times T(9))\\
\mathbf{936} &:= (F(2)\times F(5)+F(9))\times(F(4)+F(8)) && = (T(2)\times T(5)+T(9))\times T(4)+T(8)\\
&:= (F(3)+F(8)+F(1))\times(F(5)+F(9)) && = T(3)\times T(8)+(T(1)+T(5))\times T(9)\\
&:= (F(5)+F(9))\times(F(2)+F(3)+F(8)) && = T(5)\times(T(9)+T(2))+T(3)\times T(8)\\
&:= F(6)\times(F(3)+F(2))\times(F(5)+F(9)) && = T(6)\times T(3)+(T(2)+T(5))\times T(9)\\
\mathbf{937} &:= (F(9)+F(6))\times(F(2)+F(8))+F(7) && = T(9)+(T(6)+T(2))\times T(8)+T(7)\\
\mathbf{945} &:= (F(9)+F(2)+F(3)\times F(5))\times F(8) && = T(9)\times(T(2)+T(3))+T(5)\times T(8)\\
\mathbf{946} &:= (F(1)+F(8))\times(F(4)+F(5)\times F(6)) && = (T(1)+T(8))\times(T(4)+T(5))+T(6)\\
\mathbf{955} &:= F(3)\times F(9)\times(F(7)+F(2))+F(4) && = T(3)+(T(9)+T(7))\times(T(2)+T(4))\\
\mathbf{957} &:= F(4)\times(F(7)+(F(2)+F(6))\times F(9)) && = (T(4)+T(7))\times(T(2)+T(6))+T(9)\\
\mathbf{960} &:= (F(4)+F(8))\times(F(1)+F(5)+F(9)) && = T(4)\times(T(8)\times T(1)+T(5)+T(9))\\
&:= (F(5)\times F(6))\times(F(1)+F(3)+F(8)) && = T(5)\times(T(6)+T(1)+T(3)+T(8))\\
&:= (F(5)\times F(6))\times(F(2)+F(3)+F(8)) && = T(5)+T(6)\times(T(2)+T(3)+T(8))\\
&:= (F(6)\times F(3))\times((F(4)\times F(7))+F(8)) && = T(6)\times(T(3)+T(4)+T(7))+T(8)\\
\mathbf{963} &:= F(2)+(F(4)+F(9))\times(F(5)+F(8)) && = T(2)+T(4)\times(T(9)+T(5)+T(8))\\
\mathbf{966} &:= (F(2)+F(7))\times F(4)\times(F(3)+F(8)) && = T(2)\times(T(7)\times T(4)+T(3)+T(8))\\
&:= (F(4)\times F(3)+F(5)\times F(6))\times F(8) && = T(4)\times(T(3)+T(5))+T(6)\times T(8)\\
&:= (F(2)+(F(3)+F(7))\times F(4))\times F(8) && = T(2)\times(T(3)+T(7)\times T(4)+T(8))\\
&:= (F(3)+F(8))\times((F(5)+F(9))+F(4)) && = T(3)+(T(8)+T(5)+T(9))\times T(4)\\
\mathbf{973} &:= F(9)\times(F(7)+F(4)\times F(5))+F(8) && = T(9)+T(7)+(T(4)+T(5))\times T(8)\\
\mathbf{984} &:= (F(2)+F(5)\times F(6))\times(F(4)+F(8)) && = T(2)+T(5)+T(6)\times(T(4)+T(8))
\end{aligned}$$

Selfie Expressions With Factorial, Fibonacci and Triangular Values,
Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

$$\begin{aligned}
\mathbf{987} &:= ((F(2)+F(6))\times F(5)+F(3))\times F(8) && = T(2)\times T(6)\times T(5)+T(3)+T(8)\\
&:= (F(5)\times(F(1)+F(6))+F(3))\times F(8) && = T(5)\times T(1)+(T(6)+T(3))\times T(8)
\end{aligned}$$

$$\begin{aligned}
\mathbf{988} &:= (F(4)+F(3)\times F(9)+F(5))\times F(7) && = (T(4)+T(3))\times(T(9)+T(5))+T(7)\\
&:= F(1)\times F(3)+(F(8)+F(6))\times F(9) && = T(1)+T(3)+T(8)+T(6)\times T(9)\\
&:= F(3)\times F(7)\times(F(2)+F(9)+F(4)) && = T(3)\times(T(7)+T(2)\times T(9))+T(4)\\
&:= F(2)+(F(6)+F(4)\times F(7))\times F(8) && = (T(2)+T(6)+T(4))\times T(7)+T(8)
\end{aligned}$$

$$\mathbf{989} := F(4)+(F(7)+F(3)\times F(6))\times F(9) \qquad = T(4)+T(7)+T(3)+T(6)\times T(9)$$

$$\begin{aligned}
\mathbf{990} &:= (F(1)+F(5))\times(F(8)+F(9))\times F(4) && = T(1)\times T(5)\times T(8)+T(9)\times T(4)\\
&:= (F(5)\times F(3)+F(6))\times(F(8)+F(9)) && = T(5)\times(T(3)+T(6)+T(8))+T(9)\\
&:= F(3)\times(F(2)+F(6))\times(F(9)+F(8)) && = T(3)+T(2)+T(6)\times T(9)+T(8)\\
&:= F(3)+F(2)+(F(7)+F(9))\times F(8) && = T(3)\times(T(2)\times T(7)+T(9)+T(8))\\
&:= F(4)\times(F(2)+F(5))\times(F(8)+F(9)) && = T(4)\times(T(2)+T(5)+T(8)+T(9))
\end{aligned}$$

$$\mathbf{992} := (F(1)+F(8)+F(4)\times F(9))\times F(6) \qquad = T(1)+T(8)+T(4)+T(9)\times T(6)$$

$$\mathbf{994} := (F(1)+F(7))\times(F(6)+F(4)\times F(8)) \qquad = T(1)\times T(7)+T(6)\times(T(4)+T(8))$$

$$\mathbf{1000} := (F(4)+F(5))\times(F(6)\times F(7)+F(8)) \qquad = T(4)\times(T(5)+T(6)+T(7)+T(8))$$

$$\begin{aligned}
\mathbf{1008} &:= (F(3)\times F(8))\times(F(4)+F(6)+F(7)) && = (T(3)+T(8))\times T(4)+T(6)\times T(7)\\
&:= (F(5)+F(7))\times(F(8)+F(2)+F(9)) && = T(5)\times(T(7)+T(8)+T(2))+T(9)
\end{aligned}$$

$$\mathbf{1009} := F(1)+F(8)\times F(3)\times F(6)\times F(4) \qquad = (T(1)+T(8))\times(T(3)+T(6))+T(4)$$

$$\begin{aligned}
\mathbf{1011} &:= F(4)+(F(7)+F(9)+F(2))\times F(8) && = (T(4)\times T(7)+T(9))\times T(2)+T(8)\\
&:= F(4)+F(6)\times(F(5)+F(2))\times F(8) && = (T(4)+T(6)\times T(5))\times T(2)+T(8)
\end{aligned}$$

$$\begin{aligned}
\mathbf{1015} &:= (F(5)+F(4)\times F(6))\times(F(1)+F(9)) && = T(5)+T(4)+(T(6)+T(1))\times T(9)\\
&:= F(2)+F(7)\times(F(8)+F(5))\times F(4) && = (T(2)+T(7)+T(8))\times T(5)+T(4)
\end{aligned}$$

$$\begin{aligned}
\mathbf{1017} &:= F(3)+(F(6)+F(8))\times(F(1)+F(9)) && = (T(3)+T(6))\times T(8)\times T(1)+T(9)\\
&:= F(3)+(F(8)+F(6))\times(F(2)+F(9)) && = (T(3)+T(8))\times T(6)+T(2)\times T(9)
\end{aligned}$$

$$\begin{aligned}
\mathbf{1020} &:= (F(1)+F(2)+F(6))\times F(4)\times F(9) && = (T(1)+T(2))\times(T(6)\times T(4)+T(9))\\
&:= (F(1)+F(3)+F(4))\times F(5)\times F(9) && = (T(1)+T(3)+T(4))\times(T(5)+T(9))\\
&:= (F(2)+F(8)+F(4)+F(5))\times F(9) && = (T(2)+T(8))\times(T(4)+T(5))+T(9)
\end{aligned}$$

$$:= (F(2)+F(5)+F(4)\times F(6))\times F(9) \quad = T(2)\times(T(5)+T(4))+T(6)\times T(9)$$
$$:= F(3)\times F(4)\times F(5)\times (F(7)+F(8)) \quad = T(3)\times T(4)+T(5)\times(T(7)+T(8))$$
$$:= F(4)\times (F(6)+F(3))\times F(2)\times F(9) \quad = T(4)\times T(6)+T(3)\times T(2)\times T(9)$$

$$\mathbf{1023} := (F(2)+F(6)+F(8))\times F(9)+F(4) \quad = T(2)+(T(6)+T(8)+T(9))\times T(4)$$
$$:= F(4)\times (F(2)+(F(3)+F(6))\times F(9)) \quad = (T(4)+T(2))\times T(3)+T(6)\times T(9)$$

$$\mathbf{1027} := (F(2)+F(4)\times (F(5)+F(8)))\times F(7) \quad = (T(2)+T(4))\times(T(5)+T(8)+T(7))$$
$$\mathbf{1032} := (F(4)+F(8))\times (F(1)+F(6)+F(9)) \quad = (T(4)+T(8)+T(1))\times T(6)+T(9)$$
$$\mathbf{1033} := F(4)\times (F(3)+F(6))\times F(9)+F(7) \quad = T(4)\times T(3)+T(6)\times T(9)+T(7)$$

$$\mathbf{1035} := (F(2)+F(3)\times F(9))\times F(4)\times F(5) \quad = T(2)\times(T(3)\times(T(9)+T(4))+T(5))$$
$$:= (F(5)\times F(4))\times (F(1)+F(3)\times F(9)) \quad = T(5)\times(T(4)+T(1))\times T(3)+T(9)$$

$$\mathbf{1041} := F(3)\times F(5)\times F(9)\times F(4)+F(8) \quad = T(3)+T(5)\times T(9)+T(4)\times T(8)$$
$$:= F(4)\times (F(3)+F(6))\times F(9)+F(8) \quad = T(4)\times T(3)+T(6)\times T(9)+T(8)$$

$$\mathbf{1042} := F(3)\times (F(1)+(F(5)\times F(6))\times F(7)) \quad = T(3)+(T(1)+T(5)+T(6))\times T(7)$$

$$\mathbf{1044} := (F(1)\times F(8)+F(6))\times (F(3)+F(9)) \quad = (T(1)+T(8))\times(T(6)+T(3))+T(9)$$
$$:= (F(1)+F(2)+F(9))\times (F(6)+F(8)) \quad = (T(1)\times T(2)+T(9))\times T(6)+T(8)$$
$$:= (F(2)\times F(9)+F(3))\times (F(6)+F(8)) \quad = (T(2)+T(9))\times T(3)+T(6)\times T(8)$$

$$\mathbf{1050} := (F(4)\times F(6)+F(2))\times F(3)\times F(8) \quad = T(4)\times(T(6)\times T(2)+T(3)+T(8))$$

$$\mathbf{1050} := (F(1)+F(9)+F(5)\times F(4))\times F(8) \quad = (T(1)+T(9))\times T(5)+T(4)\times T(8)$$
$$:= (F(2)\times F(9)+F(6)\times F(3))\times F(8) \quad = (T(2)+T(9))\times T(6)+T(3)+T(8)$$
$$:= (F(3)+F(4))\times F(5)\times (F(6)+F(9)) \quad = T(3)\times T(4)+T(5)\times(T(6)+T(9))$$
$$:= (F(4)+F(2)+F(8))\times (F(6)+F(9)) \quad = T(4)\times(T(2)+T(8)+T(6)+T(9))$$
$$:= (F(3)\times F(5))\times (F(1)+F(6)\times F(7)) \quad = (T(3)+T(5))\times(T(1)+T(6)+T(7))$$
$$:= F(4)\times (F(3)+F(6))\times (F(1)+F(9)) \quad = T(4)\times T(3)+(T(6)+T(1))\times T(9)$$
$$:= (F(9)+F(3)\times (F(4)+F(5)))\times F(8) \quad = (T(9)+T(3))\times T(4)+T(5)\times T(8)$$

$$\mathbf{1053} := F(4)\times (F(2)+F(5)+F(8))\times F(7) \quad = T(4)\times T(2)+T(5)+T(8)\times T(7)$$
$$:= F(4)\times (F(2)+F(6))\times (F(5)+F(9)) \quad = (T(4)+T(2))\times(T(6)+T(5)+T(9))$$

$$\mathbf{1054} := (F(1)+F(2)+F(8)+F(6))\times F(9) \quad = T(1)+T(2)\times T(8)+T(6)\times T(9)$$

$$\mathbf{1056} := (F(2)+F(8))\times F(6)\times F(3)\times F(4) \quad = T(2)\times((T(8)+T(6))\times T(3)+T(4))$$
$$:= (F(1)+F(9)+F(7))\times (F(8)+F(2)) \quad = T(1)\times T(9)+T(7)\times T(8)+T(2)$$

$$:= (F(2)+F(5))\times F(6)\times (F(1)+F(8)) \quad = T(2)\times (T(5)\times T(6)+T(1)+T(8))$$
$$:= (F(1)+F(8))\times (F(7)+F(2)+F(9)) \quad = T(1)\times T(8)\times T(7)+T(2)+T(9)$$

$$\mathbf{1071} := (F(9)+F(1)+F(3)\times F(6))\times F(8) \quad = T(9)\times (T(1)+T(3))+T(6)\times T(8)$$
$$:= (F(9)+F(2)+F(3)\times F(6))\times F(8) \quad = T(9)+T(2)\times T(3)\times (T(6)+T(8))$$
$$:= (F(2)+(F(3)+F(6))\times F(5))\times F(8) \quad = T(2)\times (T(3)+T(6)\times T(5)+T(8))$$

$$\mathbf{1074} := F(3)\times F(5)\times F(6)\times F(7)+F(9) \quad = (T(3)+T(5))\times (T(6)+T(7))+T(9)$$
$$:= F(2)+(F(4)+F(9))\times (F(8)+F(6)) \quad = (T(2)+T(4))\times (T(9)+T(8))+T(6)$$

$$\mathbf{1086} := (F(5)+F(2))\times (F(6)\times F(8)+F(7)) \quad = T(5)+(T(2)\times T(6))+T(8)\times T(7)$$
$$\mathbf{1090} := F(3)\times (F(2)+F(9)\times (F(4)+F(7))) \quad = T(3)\times T(2)\times T(9)+T(4)\times T(7)$$

$$\mathbf{1092} := (F(9)+F(6))\times F(1)\times (F(5)+F(8)) \quad = (T(9)+T(6))\times (T(1)+T(5))+T(8)$$
$$:= (F(9)+F(6))\times (F(3)+F(4)+F(8)) \quad = (T(9)+T(6))\times (T(3)+T(4))+T(8)$$

$$\mathbf{1096} := (F(3)+(F(9)\times F(6)))\times (F(2)+F(4)) = T(3)+T(9)\times (T(6)+T(2))+T(4)$$
$$\mathbf{1100} := ((F(4)+F(7))+F(9))\times (F(1)+F(8)) = T(4)\times (T(7)+T(9)+T(1)+T(8))$$
$$\mathbf{1104} := (F(3)+(F(4)+F(2))\times F(9))\times F(6) \quad = (T(3)+T(4))\times (T(2)+T(9)+T(6))$$
$$\mathbf{1108} := F(3)\times (F(9)+(F(6)\times F(5))\times F(7)) \quad = (T(3)+T(9)+T(6))\times T(5)+T(7)$$
$$\mathbf{1113} := (F(3)\times F(4)+F(9)+F(7))\times F(8) \quad = T(3)\times T(4)+T(9)+T(7)\times T(8)$$

$$\mathbf{1122} := (F(1)+F(4)+F(6)+F(8))\times F(9) \quad = (T(1)+T(4))\times (T(6)+T(8)+T(9))$$
$$:= (F(1)+F(3))\times (F(4)+F(6))\times F(9) \quad = (T(1)+T(3)+T(4))\times (T(6)+T(9))$$

$$\mathbf{1125} := F(5)\times ((F(3)\times F(9))\times F(4)+F(8)) \quad = T(5)\times (T(3)+T(9))+T(4)\times T(8)$$

$$\mathbf{1131} := (F(8)\times F(2)+F(6))\times (F(9)+F(5)) \quad = T(8)+(T(2)+T(6))\times T(9)+T(5)$$
$$:= F(4)\times (F(5)\times F(8)+F(6)\times F(9)) \quad = T(4)\times T(5)+T(8)+T(6)\times T(9)$$

$$\mathbf{1132} := F(2)+(F(6)+F(8))\times F(4)\times F(7) \quad = (T(2)+T(6))\times (T(8)+T(4))+T(7)$$

$$\mathbf{1134} := (F(1)+F(6))\times (F(2)+F(5))\times F(8) \quad = T(1)\times T(6)\times (T(2)+T(5)+T(8))$$
$$:= (F(3)\times (F(2)+F(6))\times F(4))\times F(8) \quad = T(3)\times T(2)+(T(6)+T(4))\times T(8)$$

$$\mathbf{1134} := (F(3)\times F(7)+F(1))\times (F(9)+F(6)) \quad = T(3)\times T(7)+(T(1)+T(9))\times T(6)$$

$$\mathbf{1144} := (F(1)+F(4))\times (F(2)+F(8))\times F(7) \quad = (T(1)+T(4)\times T(2))\times T(8)+T(7)$$
$$:= (F(9)+F(5))\times (F(8)+F(6))+F(7) \quad = T(9)+(T(5)+T(8))\times T(6)+T(7)$$
$$:= (F(1)+(F(8)+F(6))\times F(4))\times F(7) \quad = T(1)\times T(8)\times (T(6)+T(4))+T(7)$$

$$:= (F(2) + (F(6) + F(8)) \times F(4)) \times F(7) \quad = (T(2) + T(6)) \times T(8) + T(4) \times T(7)$$

$$\mathbf{1150} := (F(4) + F(7) + F(9)) \times (F(3) + F(8)) \quad = T(4) \times (T(7) + T(9) + T(3) + T(8))$$

$$\mathbf{1155} := ((F(5) + F(7)) \times F(4) + F(2)) \times F(8) \quad = T(5) \times (T(7) + T(4) + T(2) + T(8))$$
$$:= (F(5) + F(7) + F(4)) \times (F(8) + F(9)) \quad = T(5) \times (T(7) + T(4) + T(8)) + T(9)$$

$$\mathbf{1164} := F(2) \times F(9) \times (F(7) + F(8)) + F(6) \quad = (T(2) \times T(9) + T(7) \times T(8)) + T(6)$$
$$\mathbf{1170} := (F(4) + F(6) + F(9)) \times (F(5) + F(8)) \quad = T(4) \times (T(6) + T(9) + T(5) + T(8))$$

$$\mathbf{1176} := (F(3) + F(8) + F(5)) \times (F(6) + F(9)) \quad = T(3) \times T(8) + T(5) + T(6) \times T(9)$$
$$:= F(3) \times (F(7) + F(2)) \times (F(9) + F(6)) \quad = T(3) \times T(7) + (T(2) + T(9)) \times T(6)$$

$$\mathbf{1197} := (F(1) + (F(3) + F(5)) \times F(6)) \times F(8) \quad = (T(1) \times T(3) + T(5)) \times (T(6) + T(8))$$
$$\mathbf{1212} := F(3) \times F(4) \times (F(9) + F(6) \times F(8)) \quad = T(3) + T(4) \times T(9) + T(6) \times T(8)$$
$$\mathbf{1218} := (F(7) + F(1)) \times (F(8) + F(6)) \times F(4) \quad = T(7) \times T(1) \times T(8) + T(6) \times T(4)$$

$$\mathbf{1224} := (F(2) \times F(3) + F(8) + F(7)) \times F(9) \quad = T(2) + (T(3) + T(8)) \times T(7) + T(9)$$
$$:= ((F(2) + F(3)) \times F(5) + F(8)) \times F(9) \quad = T(2) + T(3) + T(5) \times (T(8) + T(9))$$

$$\mathbf{1225} := F(1) + (F(4) \times F(5) + F(8)) \times F(9) \quad = T(1) \times T(4) + T(5) \times (T(8) + T(9))$$
$$\mathbf{1251} := (F(5) \times F(8) + F(9)) \times (F(1) + F(6)) \quad = T(5) \times (T(8) + T(9) + T(1)) + T(6)$$

$$\mathbf{1260} := (F(2) + F(5)) \times F(8) \times (F(3) + F(6)) \quad = (T(2) + T(5) + T(8) + T(3)) \times T(6)$$
$$:= F(5) \times F(4) \times F(3) \times (F(6) + F(9)) \quad = T(5) \times (T(4) \times T(3) + T(6)) + T(9)$$
$$:= (F(2) + F(9)) \times (F(5) \times F(4) + F(8)) \quad = T(2) \times (T(9) + T(5) + T(4) \times T(8))$$
$$:= F(8) \times (F(3) + F(7)) \times (F(2) + F(4)) \quad = (T(8) + T(3) + T(7) \times T(2)) \times T(4)$$

$$\mathbf{1261} := F(4) + (F(8) + F(3) \times F(6)) \times F(9) \quad = T(4) + T(8) + (T(3) + T(6)) \times T(9)$$
$$\mathbf{1281} := (F(2) + F(9) + F(3) \times F(7)) \times F(8) \quad = T(2) + T(9) \times T(3) + T(7) \times T(8)$$
$$\mathbf{1292} := (F(1) + F(4) \times F(6) + F(7)) \times F(9) \quad = T(1) + T(4) + T(6) + T(7) \times T(9)$$

$$\mathbf{1302} := (F(3) \times (F(1) + F(7)) + F(9)) \times F(8) \quad = T(3) \times T(1) + T(7) \times T(9) + T(8)$$
$$:= (F(6) + F(9)) \times (F(5) \times F(3) + F(8)) \quad = T(6) \times (T(9) + T(5) + T(3)) + T(8)$$
$$:= (F(6) + F(9)) \times (F(7) \times F(3) + F(5)) \quad = T(6) + T(9) \times T(7) + T(3) + T(5)$$

$$\mathbf{1323} := (F(3) \times F(6) + F(7) + F(9)) \times F(8) \quad = T(3) + T(6) + T(7) \times T(9) + T(8)$$
$$:= (F(2) + F(6)) \times (F(3) + F(5)) \times F(8) \quad = T(2) \times ((T(6) + T(3)) \times T(5) + T(8))$$
$$:= F(8) \times (F(3) + F(2)) \times (F(7) + F(6)) \quad = (T(8) + T(3)) \times (T(2) + T(7)) + T(6)$$

$$\begin{aligned}
\mathbf{1326} &:= (F(3)+F(1))\times(F(6)+F(5))\times F(9) && = T(3)+(T(1)+T(6))\times(T(5)+T(9))\\
&:= F(4)\times F(7)\times(F(5)+F(6)+F(8)) && = (T(4)+T(7))\times T(5)+T(6)\times T(8)\\
\\
\mathbf{1333} &:= F(4)\times(F(8)+F(9))\times F(6)+F(7) && = T(4)\times T(8)+T(9)\times T(6)+T(7)\\
\mathbf{1338} &:= F(4)\times((F(7)+F(6))\times F(8)+F(5)) && = (T(4)+T(7))\times T(6)+T(8)\times T(5)\\
\mathbf{1339} &:= (F(9)+(F(3)+F(8))\times F(4))\times F(7) && = T(9)+T(3)+(T(8)+T(4))\times T(7)\\
\\
\mathbf{1344} &:= (F(1)+F(4))\times F(6)\times F(3)\times F(8) && = (T(1)+T(4)+T(6))\times(T(3)+T(8))\\
&:= (F(2)\times F(4)+F(5))\times F(8)\times F(6) && = (T(2)+T(4)+T(5)+T(8))\times T(6)\\
&:= (F(4)+F(2))\times F(3)\times F(8)\times F(6) && = (T(4)+T(2)\times T(3)+T(8))\times T(6)\\
\\
\mathbf{1347} &:= (F(3)+F(1))\times F(7)\times F(9)+F(8) && = T(3)+(T(1)+T(7))\times T(9)+T(8)\\
&:= F(9)\times F(7)\times(F(2)+F(3))+F(8) && = T(9)+(T(7)+T(2))\times(T(3)+T(8))\\
\\
\mathbf{1353} &:= F(4)\times(F(6)+F(2)+F(7)\times F(9)) && = (T(4)+T(6))\times T(2)+T(7)\times T(9)\\
\\
\mathbf{1360} &:= (F(4)+F(1))\times F(3)\times F(5)\times F(9) && = T(4)\times(T(1)+T(3)\times T(5)+T(9))\\
&:= F(1)\times F(5)\times F(6)\times(F(7)+F(8)) && = (T(1)+T(5))\times(T(6)+T(7)+T(8))\\
&:= (F(3)+F(4))\times F(6)\times(F(7)+F(8)) && = (T(3)+T(4))\times(T(6)+T(7)+T(8))\\
&:= (F(4)\times(F(2)+F(6))+F(7))\times F(9) && = T(4)\times(T(2)\times T(6)+T(7)+T(9))\\
&:= (F(4)+F(2))\times(F(3)+F(6))\times F(9) && = T(4)+(T(2)+T(3)+T(6))\times T(9)\\
&:= F(9)\times F(5)\times F(3)\times(F(1)+F(4)) && = (T(9)+T(5)\times T(3)+T(1))\times T(4)\\
\\
\mathbf{1365} &:= (F(3)+F(4)\times F(9)+F(1))\times F(7) && = T(3)\times T(4)+T(9)\times(T(1)+T(7))\\
&:= (F(3)+F(4))\times(F(1)+F(6)\times F(9)) && = T(3)\times T(4)\times(T(1)+T(6))+T(9)\\
&:= F(5)+(F(4)+F(3))\times F(6)\times F(9) && = T(5)\times T(4)+(T(3)+T(6))\times T(9)\\
\\
\mathbf{1366} &:= F(2)+F(8)\times F(7)\times(F(4)+F(3)) && = (T(2)\times T(8)+T(7))\times T(4)+T(3)\\
\\
\mathbf{1368} &:= F(4)+(F(6)\times F(9)+F(2))\times F(5) && = (T(4)+T(6)+T(9))\times(T(2)+T(5))\\
&:= F(5)+(F(6)+F(8))\times(F(7)+F(9)) && = T(5)\times T(6)+T(8)\times T(7)+T(9)\\
&:= F(6)\times(F(2)+(F(3)+F(4))\times F(9)) && = T(6)\times(T(2)+T(3)\times T(4))+T(9)\\
&:= F(6)\times(F(2)+F(5)\times(F(7)+F(8))) && = (T(6)+T(2))\times T(5)+T(7)\times T(8)\\
\\
\mathbf{1371} &:= F(2)+(F(1)+F(8)\times F(7))\times F(5) && = T(2)\times(T(1)+T(8)+T(7)\times T(5))\\
\\
\mathbf{1378} &:= ((F(3)+F(4))\times F(8)+F(2))\times F(7) && = T(3)+(T(4)+T(8)+T(2))\times T(7)\\
&:= (F(1)+(F(2)+F(9))\times F(4))\times F(7) && = T(1)\times T(2)\times T(9)\times T(4)+T(7)\\
\\
\mathbf{1378} &:= F(4)+(F(8)\times F(7)+F(3))\times F(5) && = (T(4)+T(8))\times T(7)+T(3)\times T(5)
\end{aligned}$$

Selfie Expressions With Factorial, Fibonacci and Triangular Values,
Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

$$\begin{aligned}
\mathbf{1380} &:= (F(2)\times F(4)+F(7)\times F(8))\times F(5) && = T(2)\times T(4)\times T(7)+T(8)\times T(5)\\
\\
\mathbf{1386} &:= (F(2)+(F(3)+F(4))\times F(7))\times F(8) && = T(2)\times T(3)+(T(4)+T(7))\times T(8)\\
&:= (F(3)+(F(5)+F(4))\times F(6))\times F(8) && = T(3)\times (T(5)+T(4)\times T(6))+T(8)\\
&:= F(6)+(F(2)+F(5)\times F(8))\times F(7) && = T(6)\times (T(2)+T(5))+T(8)\times T(7)\\
\\
\mathbf{1390} &:= F(2)+(F(9)\times F(7)+F(8))\times F(4) && = (T(2)+T(9))\times T(7)+T(8)+T(4)\\
\mathbf{1392} &:= (F(2)+F(9)+F(7))\times (F(8)+F(6)) && = T(2)+T(9)+(T(7)+T(8))\times T(6)\\
\mathbf{1404} &:= F(4)\times (F(3)+F(9))\times F(2)\times F(7) && = T(4)\times T(3)+(T(9)+T(2))\times T(7)\\
\mathbf{1407} &:= (F(3)+F(5)\times F(7))\times F(2)\times F(8) && = (T(3)+T(5))\times (T(7)+T(2)+T(8))\\
\\
\mathbf{1408} &:= F(1)+(F(3)+F(5)\times F(7))\times F(8) && = (T(1)+T(3)+T(5))\times (T(7)+T(8))\\
&:= F(4)+(F(6)+F(7)\times F(8))\times F(5) && = (T(4)+T(6))\times T(7)+T(8)\times T(5)\\
\\
\mathbf{1410} &:= F(3)\times F(4)\times F(5)\times (F(7)+F(9)) && = T(3)\times (T(4)+T(5))+T(7)\times T(9)\\
&:= (F(6)+F(1)+F(8))\times (F(7)+F(9)) && = T(6)\times (T(1)+T(8)+T(7))+T(9)\\
\\
\mathbf{1425} &:= F(5)\times F(1)\times (F(7)+F(6)\times F(9)) && = T(5)\times (T(1)+T(7)+T(6)+T(9))\\
\\
\mathbf{1428} &:= (F(4)+F(7)+F(8)+F(5))\times F(9) && = (T(4)+T(7))\times T(8)+T(5)+T(9)\\
&:= (F(5)+F(2)+F(6))\times F(4)\times F(9) && = T(5)+T(2)\times (T(6)+T(4)\times T(9))\\
\\
\mathbf{1431} &:= F(2)+F(7)\times F(5)\times (F(1)+F(8)) && = T(2)+T(7)\times (T(5)\times T(1)+T(8))\\
&:= F(4)+(F(2)+F(1))\times F(9)\times F(8) && = (T(4)\times T(2)+T(1))\times T(9)+T(8)\\
\\
\mathbf{1440} &:= (F(1)+F(2)+F(9))\times F(5)\times F(6) && = (T(1)+T(2))\times (T(9)+T(5)\times T(6))\\
&:= (F(2)+F(7)\times F(4))\times (F(9)+F(3)) && = T(2)\times (T(7)+T(4)\times T(9))+T(3)\\
\\
\mathbf{1446} &:= F(5)\times (F(6)\times F(9)+F(7))+F(8) && = T(5)\times (T(6)+T(9)+T(7))+T(8)\\
\\
\mathbf{1449} &:= ((F(3)+F(5))\times F(6)+F(7))\times F(8) && = (T(3)+T(5))\times T(6)+T(7)\times T(8)\\
&:= F(9)\times (F(1)+F(7))\times F(4)+F(8) && = T(9)+(T(1)+T(7)+T(4))\times T(8)\\
&:= (F(1)+F(3)\times F(9))\times (F(7)+F(6)) && = (T(1)\times T(3)+T(9))\times T(7)+T(6)\\
\\
\mathbf{1452} &:= (F(2)+F(7)\times F(5))\times (F(1)+F(8)) && = T(2)\times (T(7)\times (T(5)+T(1))+T(8))\\
\mathbf{1470} &:= F(3)\times (F(6)+F(7))\times (F(2)+F(9)) && = T(3)\times T(6)+T(7)\times (T(2)+T(9))\\
\mathbf{1512} &:= (F(3)+F(2))\times F(4)\times F(8)\times F(6) && = (T(3)+T(2)\times T(4)+T(8))\times T(6)\\
\mathbf{1518} &:= (F(3)+F(8))\times (F(2)+F(5)\times F(7)) && = T(3)+(T(8)+T(2)+T(5))\times T(7)\\
\\
\mathbf{1530} &:= (F(2)+F(3))\times F(4)\times F(5)\times F(9) && = (T(2)+T(3)+T(4)+T(5))\times T(9)
\end{aligned}$$

Selfie Expressions With Factorial, Fibonacci and Triangular Values,
Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

$$
\begin{aligned}
&:= (F(3)+F(4))\times(F(1)+F(6))\times F(9) && = T(3)\times(T(4)\times T(1)\times T(6)+T(9))\\
&:= (F(4)+(F(1)+F(2))\times F(8))\times F(9) && = T(4)\times T(1)\times(T(2)\times T(8)+T(9))\\
&:= (F(4)+F(3)\times(F(6)+F(7)))\times F(9) && = T(4)\times(T(3)+T(6))+T(7)\times T(9)\\
&:= F(5)\times(F(2)+F(6))\times(F(7)+F(8)) && = (T(5)+T(2))\times(T(6)+T(7)+T(8))
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{1533} &:= F(2)\times F(8)\times(F(5)\times F(7)+F(6)) && = (T(2)+T(8)+T(5))\times T(7)+T(6)\\
&:= (F(5)+F(3)\times F(9))\times(F(6)+F(7)) && = (T(5)+T(3))\times T(9)+T(6)\times T(7)\\
&:= F(4)+F(5)\times F(9)\times(F(2)+F(6)) && = (T(4)+T(5)+T(9)+T(2))\times T(6)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{1536} &:= F(4)+(F(3)\times F(9)+F(5))\times F(8) && = (T(4)+T(3))\times(T(9)+T(5)+T(8))\\
\mathbf{1540} &:= (F(1)+F(8))\times F(5)\times(F(2)+F(7)) && = (T(1)+T(8)+T(5)+T(2))\times T(7)\\
\mathbf{1545} &:= F(5)\times(F(4)+(F(2)+F(6))\times F(9)) && = T(5)+(T(4)+T(2)+T(6))\times T(9)\\
\mathbf{1560} &:= (F(4)+F(3))\times(F(5)+F(9))\times F(6) && = T(4)\times(T(3)\times T(5)+T(9)+T(6))
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{1561} &:= F(2)+(F(4)+F(8))\times F(5)\times F(7) && = T(2)+T(4)+T(8)\times(T(5)+T(7))\\
&:= F(2)+F(5)\times F(4)\times F(7)\times F(6) && = (T(2)\times T(5)+T(4))\times T(7)+T(6)
\end{aligned}
$$

$$
\mathbf{1564} := (F(3)+F(8))\times(F(5)\times F(7)+F(4)) \quad = T(3)+T(8)\times(T(5)+T(7))+T(4)
$$

$$
\begin{aligned}
\mathbf{1575} &:= (F(5)\times F(6)+F(2)+F(9))\times F(8) && = T(5)\times(T(6)+T(2)+T(9)+T(8))\\
&:= (F(3)+F(6)+F(5)\times F(7))\times F(8) && = T(3)+T(6)+(T(5)+T(7))\times T(8)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{1590} &:= (F(3)+F(7))\times(F(1)+F(5)\times F(8)) && = T(3)+(T(7)+T(1)+T(5))\times T(8)\\
\mathbf{1596} &:= (F(1)+(F(7)+F(3))\times F(5))\times F(8) && = T(1)\times T(7)\times(T(3)+T(5)+T(8))
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{1620} &:= (F(1)+F(6))\times(F(3)+F(9))\times F(5) && = (T(1)\times T(6)+T(3))\times(T(9)+T(5))\\
\mathbf{1625} &:= F(5)\times(F(4)+F(1)+F(8))\times F(7) && = (T(5)+T(4))\times(T(1)+T(8)+T(7))\\
\mathbf{1632} &:= F(1)\times F(4)\times F(6)\times F(3)\times F(9) && = (T(1)+T(4)+T(6))\times(T(3)+T(9))
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{1638} &:= F(1)\times F(4)\times F(7)\times F(3)\times F(8) && = (T(1)+T(4)+T(7))\times(T(3)+T(8))\\
&:= (F(1)+F(2))\times(F(5)+F(9))\times F(8) && = T(1)\times T(2)+T(5)+T(9)\times T(8)\\
&:= (F(2)+F(3))\times(F(6)+F(9))\times F(7) && = T(2)\times T(3)\times T(6)+T(9)\times T(7)\\
&:= F(4)\times(F(6)+F(7))\times(F(5)+F(8)) && = T(4)\times T(6)+T(7)\times(T(5)+T(8))
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{1645} &:= (F(2)+F(9))\times(F(4)\times F(7)+F(6)) && = (T(2)+T(9)+T(4))\times T(7)+T(6)\\
\mathbf{1650} &:= (F(1)+F(5))\times(F(4)+F(6)\times F(9)) && = (T(1)\times T(5)+T(4))\times(T(6)+T(9))\\
\mathbf{1651} &:= ((F(1)+F(5))\times F(8)+F(2))\times F(7) && = (T(1)+T(5)\times T(8))\times T(2)+T(7)\\
\mathbf{1656} &:= (F(3)\times F(9)+F(1))\times F(4)\times F(6) && = T(3)\times(T(9)+(T(1)+T(4))\times T(6))\\
\mathbf{1659} &:= ((F(2)+F(6))\times F(5)+F(9))\times F(8) && = T(2)+T(6)+T(5)+T(9)\times T(8)\\
\mathbf{1665} &:= F(5)\times(F(6)+F(2))\times(F(4)+F(9)) && = T(5)\times T(6)+T(2)\times T(4)\times T(9)
\end{aligned}
$$

Selfie Expressions With Factorial, Fibonacci and Triangular Values,
Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

$$
\begin{aligned}
\mathbf{1666} &:= (F(3)\times(F(2)+F(7))+F(8))\times F(9) && = T(3)\times T(2)+T(7)+T(8)\times T(9)\\
&:= (F(3)+F(6)+F(7)\times F(4))\times F(9) && = T(3)\times T(6)+T(7)\times(T(4)+T(9))\\
&:= (F(1)+F(3)\times F(4)\times F(6))\times F(9) && = T(1)+(T(3)+T(4)+T(6))\times T(9)
\end{aligned}
$$

$$
\mathbf{1677} := (F(3)\times F(8)+F(1))\times(F(9)+F(5)) \quad = T(3)+T(8)\times(T(1)+T(9))+T(5)
$$

$$
\begin{aligned}
\mathbf{1680} &:= F(3)\times(F(4)+F(8))\times(F(1)+F(9)) && = T(3)\times T(4)+T(8)\times T(1)\times T(9)\\
&:= F(5)\times F(8)\times(F(2)+F(3)+F(7)) && = (T(5)+T(8)+T(2)+T(3))\times T(7)
\end{aligned}
$$

$$
\mathbf{1690} := (F(4)\times F(6)+F(3))\times F(5)\times F(7) \quad = T(4)\times(T(6)\times T(3)+T(5)+T(7))
$$

$$
\begin{aligned}
\mathbf{1701} &:= (F(2)\times F(7)+F(3)\times F(9))\times F(8) && = (T(2)+T(7)+T(3))\times T(9)+T(8)\\
&:= (F(5)+F(3)\times F(9)+F(6))\times F(8) && = (T(5)+T(3))\times T(9)+T(6)\times T(8)\\
&:= F(9)\times(F(8)\times F(3)+F(6))+F(2) && = T(9)\times T(8)+(T(3)+T(6))\times T(2)\\
&:= F(2)+F(5)\times F(9)\times(F(3)+F(6)) && = (T(2)+T(5)+T(9))\times(T(3)+T(6))\\
&:= F(2)+((F(6)+(F(3)\times F(8)))\times F(9)) && = T(2)\times(T(6)+T(3))+T(8)\times T(9)
\end{aligned}
$$

$$
\mathbf{1710} := (F(3)+F(6))\times(F(2)+F(9)\times F(5)) \quad = (T(3)+T(6)\times T(2)+T(9))\times T(5)
$$

$$
\begin{aligned}
\mathbf{1716} &:= (F(1)+F(5))\times F(7)\times(F(2)+F(8)) && = (T(1)+T(5)+T(7))\times(T(2)+T(8))\\
&:= F(3)\times F(4)\times F(7)\times(F(1)+F(8)) && = T(3)\times T(4)\times T(7)\times T(1)+T(8)\\
&:= F(3)\times F(4)\times F(7)\times(F(2)+F(8)) && = (T(3)+T(4)+T(7))\times(T(2)+T(8))
\end{aligned}
$$

$$
\mathbf{1719} := (F(2)+F(6))\times(F(8)+F(9)\times F(5)) \quad = T(2)+T(6)\times(T(8)+T(9))+T(5)
$$

$$
\mathbf{1722} := (F(2)+F(7)+F(3)\times F(9))\times F(8) \quad = T(2)\times(T(7)+T(3))+T(9)\times T(8)
$$

$$
\begin{aligned}
\mathbf{1734} &:= ((F(3)+F(6))\times F(5)+F(2))\times F(9) && = T(3)+(T(6)+T(5))\times(T(2)+T(9))\\
&:= F(4)\times(F(2)+F(6)\times F(3))\times F(9) && = (T(4)+T(2)+T(6))\times(T(3)+T(9))
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{1764} &:= (F(1)+F(7))\times F(4)\times(F(9)+F(6)) && = (T(1)+T(7)+T(4)+T(9))\times T(6)\\
&:= F(3)\times F(2)\times(F(6)+F(9))\times F(8) && = T(3)\times(T(2)+T(6))+T(9)\times T(8)\\
&:= F(8)\times(F(1)+F(2))\times(F(9)+F(6)) && = (T(8)\times T(1)+T(2)+T(9))\times T(6)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{1776} &:= (F(1)+F(4))\times F(7)\times F(9)+F(6) && = (T(1)+T(4)+T(7))\times T(9)+T(6)\\
\mathbf{1800} &:= F(5)\times(F(8)\times F(3)+F(4))\times F(6) && = T(5)\times T(8)+T(3)\times T(4)\times T(6)\\
\mathbf{1806} &:= (F(3)\times F(9)+F(7)+F(5))\times F(8) && = T(3)+T(9)\times T(7)+T(5)\times T(8)\\
\mathbf{1809} &:= F(3)+F(7)\times(F(5)\times F(8)+F(9)) && = (T(3)+T(7)+T(5))\times T(8)+T(9)\\
\mathbf{1810} &:= F(4)+F(7)\times(F(9)+F(5)\times F(8)) && = T(4)+T(7)\times T(9)+T(5)\times T(8)
\end{aligned}
$$

$$\begin{aligned}
\mathbf{1830} &:= F(4)\times(F(6)\times F(8)+F(7)\times F(9)) && = T(4)\times(T(6)+T(8))+T(7)\times T(9)\\
\mathbf{1846} &:= F(7)\times(F(9)\times F(4)+F(5)\times F(6)) && = (T(7)+T(9))\times(T(4)+T(5))+T(6)\\
\mathbf{1848} &:= (F(1)+F(8))\times F(3)\times(F(9)+F(6)) && = (T(1)+T(8)+T(3)+T(9))\times T(6)\\
\mathbf{1869} &:= F(8)\times(F(5)\times F(7)+F(4)\times F(6)) && = (T(8)+T(5)+T(7)+T(4))\times T(6)\\
\mathbf{1881} &:= F(2)+(F(7)+F(9))\times F(5)\times F(6) && = (T(2)+T(7))\times(T(9)+T(5))+T(6)\\
\\
\mathbf{1890} &:= (F(5)+F(2))\times(F(7)+F(3))\times F(8) && = T(5)\times(T(2)\times T(7)+T(3)+T(8))\\
&:= F(3)\times(F(6)+F(4)+F(9))\times F(8) && = (T(3)+T(6))\times T(4)+T(9)\times T(8)\\
\\
\mathbf{1911} &:= (F(3)+F(5))\times F(7)\times F(2)\times F(8) && = (T(3)+T(5)+T(7))\times(T(2)+T(8))\\
\mathbf{1932} &:= (F(2)+F(7)\times(F(5)+F(3)))\times F(8) && = (T(2)+T(7)+T(5))\times(T(3)+T(8))\\
\mathbf{1938} &:= (F(2)+(F(3)+F(5))\times F(6))\times F(9) && = T(2)+T(3)\times T(5)\times T(6)+T(9)\\
\\
\mathbf{1974} &:= (F(2)\times F(7)+F(9))\times F(3)\times F(8) && = T(2)\times T(7)+T(9)\times(T(3)+T(8))\\
&:= (F(3)+F(5)\times F(6))\times(F(7)+F(9)) && = (T(3)+T(5))\times(T(6)+T(7)+T(9))\\
\\
\mathbf{2016} &:= (F(2)+F(5))\times(F(4)+F(7))\times F(8) && = (T(2)+T(5)+T(4)+T(7))\times T(8)\\
&:= F(3)\times(F(5)+F(1))\times F(6)\times F(8) && = T(3)\times T(5)\times(T(1)+T(6))+T(8)\\
\\
\mathbf{2040} &:= (F(2)+F(4)+F(6))\times F(5)\times F(9) && = (T(2)+T(4)+T(6))\times(T(5)+T(9))\\
&:= (F(3)+F(5)+F(7))\times F(4)\times F(9) && = T(3)\times(T(5)+T(7)\times T(4)+T(9))\\
\\
\mathbf{2074} &:= F(9)\times((F(2)+F(5))\times F(6)+F(7)) && = T(9)\times T(2)\times T(5)+T(6)+T(7)\\
\mathbf{2100} &:= (F(2)+F(9)+F(5)\times F(7))\times F(8) && = (T(2)+T(9))\times(T(5)+T(7))+T(8)\\
\\
\mathbf{2142} &:= (F(3)\times F(8)+F(6)+F(7))\times F(9) && = (T(3)+T(8))\times T(6)+T(7)\times T(9)\\
&:= (F(3)+F(5)\times F(6)+F(8))\times F(9) && = (T(3)+T(5))\times(T(6)+T(8)+T(9))\\
\\
\mathbf{2145} &:= F(4)\times(F(5)+F(6))\times(F(8)+F(9)) && = (T(4)+T(5))\times T(6)+T(8)\times T(9)\\
&:= F(4)\times(F(1)+(F(9)\times F(2))\times F(8)) && = (T(4)\times T(1)+T(9))\times(T(2)+T(8))\\
\\
\mathbf{2146} &:= F(1)+(F(8)\times F(9)+F(2))\times F(4) && = (T(1)+T(8))\times(T(9)+T(2)+T(4))\\
\mathbf{2151} &:= (F(3)+F(2)+F(8)\times F(9))\times F(4) && = T(3)+(T(2)+T(8))\times(T(9)+T(4))\\
\\
\mathbf{2160} &:= (F(2)+F(5)+F(9)\times F(8))\times F(4) && = (T(2)\times(T(5)+T(9))+T(8))\times T(4)\\
&:= F(4)\times(F(5)+(F(8)+F(9))\times F(7)) && = (T(4)+T(5))\times T(8)+T(9)\times T(7)\\
\\
\mathbf{2163} &:= F(4)\times F(9)\times(F(6)+F(7))+F(8) && = (T(4)+T(9))\times T(6)+T(7)\times T(8)\\
&:= (F(2)+F(4)\times F(9))\times(F(7)+F(6)) && = (T(2)\times T(4)+T(9)+T(7))\times T(6)
\end{aligned}$$

$$\begin{aligned}
\mathbf{2166} &:= F(4)\times(F(9)\times F(2)\times F(8)+F(6)) && = (T(4)+T(9))\times(T(2)+T(8))+T(6)\\
\mathbf{2169} &:= F(4)\times(F(6)+F(7)\times(F(8)+F(9))) && = (T(4)+T(6)+T(7))\times T(8)+T(9)\\
\\
\mathbf{2184} &:= (F(1)+F(4)\times F(9)+F(2))\times F(8) && = (T(1)+T(4)+T(9))\times(T(2)+T(8))\\
&:= F(6)+(F(2)+F(4)\times F(8))\times F(9) && = (T(6)+T(2))\times(T(4)+T(8)+T(9))\\
\\
\mathbf{2196} &:= (F(3)+F(9))\times(F(5)\times F(6)+F(8)) && = T(3)\times(T(9)+T(5)\times T(6))+T(8)\\
\mathbf{2202} &:= F(3)+F(6)\times(F(8)+F(9))\times F(5) && = (T(3)+T(6))\times(T(8)+T(9))+T(5)\\
\\
\mathbf{2205} &:= F(1)\times F(4)\times F(8)\times(F(2)+F(9)) && = (T(1)\times T(4)+T(8)+T(2))\times T(9)\\
&:= (F(1)+F(9)\times F(4)+F(3))\times F(8) && = T(1)\times T(9)+(T(4)\times T(3))\times T(8)\\
\\
\mathbf{2206} &:= F(1)+F(4)\times F(8)\times(F(2)+F(9)) && = T(1)+(T(4)+T(8)+T(2))\times T(9)\\
\mathbf{2208} &:= F(4)\times(F(1)+F(8)\times(F(2)+F(9))) && = (T(4)\times T(1)+T(8))\times(T(2)+T(9))\\
\\
\mathbf{2211} &:= (F(3)+(F(9)+F(2))\times F(8))\times F(4) && = T(3)+T(9)\times(T(2)+T(8)+T(4))\\
&:= F(1)+(F(4)\times F(8)+F(3))\times F(9) && = (T(1)+T(4)\times T(8))\times T(3)+T(9)\\
\\
\mathbf{2215} &:= F(4)+F(3)+(F(5)\times F(7))\times F(9) && = T(4)+(T(3)+T(5)+T(7))\times T(9)\\
\\
\mathbf{2220} &:= (F(2)\times F(3)+F(7)\times F(9))\times F(5) && = (T(2)+T(3)+T(7))\times(T(9)+T(5))\\
&:= F(4)\times(F(8)\times(F(2)+F(9))+F(5)) && = (T(4)+T(8)+T(2))\times T(9)+T(5)\\
\\
\mathbf{2223} &:= F(1)\times F(7)\times(F(4)+F(6)\times F(8)) && = (T(1)+T(7)+T(4))\times(T(6)+T(8))\\
&:= F(5)\times(F(2)+F(9)\times F(7))+F(6) && = T(5)+T(2)+T(9)\times(T(7)+T(6))\\
&:= (F(5)+F(6)\times F(7))\times F(8)+F(9) && = T(5)+T(6)\times T(7)+T(8)\times T(9)\\
\\
\mathbf{2226} &:= ((F(4)+F(5))\times F(7)+F(3))\times F(8) && = (T(4)+T(5)+T(7))\times(T(3)+T(8))\\
&:= F(6)\times F(3)+F(5)\times F(7)\times F(9) && = T(6)+(T(3)+T(5)+T(7))\times T(9)\\
\\
\mathbf{2229} &:= F(4)\times(F(8)\times(F(2)+F(9))+F(6)) && = (T(4)+T(8))\times(T(2)+T(9))+T(6)\\
\mathbf{2232} &:= (F(2)+F(7)\times F(8)+F(5))\times F(6) && = (T(2)+T(7))\times(T(8)+T(5)+T(6))\\
\mathbf{2236} &:= (F(1)\times F(3)+F(9)\times F(5))\times F(7) && = (T(1)+T(3)+T(9))\times(T(5)+T(7))\\
\mathbf{2241} &:= F(5)\times(F(3)+F(7)\times F(9))+F(8) && = (T(5)+T(3)+T(7))\times T(9)+T(8)\\
\\
\mathbf{2244} &:= (F(2)\times F(7)\times F(5)+F(1))\times F(9) && = T(2)\times(T(7)+(T(5)+T(1))\times T(9))\\
&:= (F(2)+F(7)\times(F(3)+F(4)))\times F(9) && = T(2)\times(T(7)+(T(3)+T(4))\times T(9))\\
&:= F(8)+(F(9)\times F(5)+F(2))\times F(7) && = T(8)\times(T(9)+T(5))+T(2)\times T(7)\\
\\
\mathbf{2250} &:= F(2)\times F(5)\times(F(6)+F(7)\times F(9)) && = T(2)\times T(5)\times(T(6)+T(7))+T(9)
\end{aligned}$$

Selfie Expressions With Factorial, Fibonacci and Triangular Values,
Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

$$
\begin{aligned}
\mathbf{2268} &:= F(2)\times F(8)\times F(4)\times (F(3)+F(9)) && = T(2)\times (T(8)+(T(4)+T(3))\times T(9))\\
&:= (F(2)+F(5)+F(4)\times F(9))\times F(8) && = (T(2)+T(5)+T(4))\times (T(9)+T(8))\\
\\
\mathbf{2271} &:= F(5)\times (F(9)\times F(7)+F(6))+F(8) && = T(5)\times T(9)+T(7)\times (T(6)+T(8))\\
\\
\mathbf{2289} &:= (F(5)\times (F(3)+F(7))+F(9))\times F(8) && = (T(5)+T(3))\times (T(7)+T(9)+T(8))\\
&:= F(8)\times (F(5)\times F(2)+F(7)\times F(6)) && = (T(8)+T(5)\times T(2)+T(7))\times T(6)\\
\\
\mathbf{2296} &:= (F(1)+F(7)\times (F(2)+F(8)))\times F(6) && = T(1)\times T(7)+T(2)\times T(8)\times T(6)\\
&:= F(8)+F(5)\times (F(9)+F(2))\times F(7) && = T(8)\times (T(5)+T(9)+T(2))+T(7)\\
\\
\mathbf{2304} &:= (F(5)\times (F(8)+F(9))+F(7))\times F(6) && = T(5)+(T(8)+T(9)+T(7))\times T(6)\\
&:= (F(3)+F(9))\times (F(2)+F(4)\times F(8)) && = (T(3)+T(9)+T(2)+T(4))\times T(8)\\
&:= F(6)\times (F(3)+F(7)\times (F(2)+F(8))) && = (T(6)+T(3))\times T(7)\times T(2)+T(8)\\
\\
\mathbf{2314} &:= ((F(2)+F(8))\times F(6)+F(3))\times F(7) && = T(2)\times (T(8)\times T(6)+T(3))+T(7)\\
\mathbf{2331} &:= (F(6)+F(2)+F(4)\times F(9))\times F(8) && = (T(6)+T(2)\times T(4))\times T(9)+T(8)\\
\mathbf{2340} &:= F(2)\times F(5)\times F(7)\times (F(3)+F(9)) && = (T(2)+T(5)+T(7)+T(3))\times T(9)\\
\mathbf{2346} &:= F(1)\times F(4)\times (F(8)+F(3))\times F(9) && = (T(1)\times T(4)+T(8))\times (T(3)+T(9))\\
\mathbf{2347} &:= F(1)+F(4)\times (F(8)+F(3))\times F(9) && = T(1)+(T(4)+T(8))\times (T(3)+T(9))\\
\mathbf{2349} &:= (F(2)+F(9)\times (F(3)+F(8)))\times F(4) && = T(2)+(T(9)+T(3))\times (T(8)+T(4))\\
\mathbf{2352} &:= (F(1)\times F(2)+F(7))\times F(6)\times F(8) && = (T(1)\times T(2))\times (T(7)+T(6)\times T(8))\\
\mathbf{2353} &:= F(1)+(F(2)+F(7))\times F(6)\times F(8) && = T(1)+(T(2)\times (T(7)+T(6)\times T(8)))\\
\mathbf{2355} &:= (F(4)+F(7)\times (F(3)+F(9)))\times F(5) && = T(4)\times T(7)\times T(3)+T(9)\times T(5)\\
\mathbf{2355} &:= F(5)\times (F(6)+F(7)\times F(9)+F(8)) && = T(5)\times (T(6)+T(7))+T(9)\times T(8)\\
\mathbf{2361} &:= F(4)\times ((F(8)+F(3))\times F(9)+F(5)) && = (T(4)+T(8))\times (T(3)+T(9))+T(5)\\
\mathbf{2380} &:= (F(3)+F(7)\times F(5)+F(4))\times F(9) && = (T(3)+T(7))\times (T(5)+T(4)+T(9))\\
\mathbf{2436} &:= F(3)\times (F(4)\times F(6)+F(9))\times F(8) && = T(3)\times T(4)+(T(6)+T(9))\times T(8)\\
\mathbf{2448} &:= (F(2)+F(3))\times (F(4)+F(8))\times F(9) && = T(2)\times (T(3)+T(4)\times (T(8)+T(9)))\\
\mathbf{2457} &:= ((F(3)+F(8))\times F(6)+F(5))\times F(7) && = T(3)+(T(8)+T(6))\times (T(5)+T(7))\\
\mathbf{2458} &:= F(2)+(F(9)+F(5))\times F(8)\times F(4) && = (T(2)+T(9))\times (T(5)+T(8))+T(4)\\
\mathbf{2496} &:= F(6)\times (F(2)+F(3)+F(8))\times F(7) && = (T(6)+T(2)\times T(3))\times (T(8)+T(7))\\
\mathbf{2502} &:= (F(2)+F(6))\times (F(7)\times F(8)+F(5)) && = T(2)+(T(6)+T(7))\times (T(8)+T(5))\\
\\
\mathbf{2520} &:= (F(1)+F(2)+F(7))\times F(8)\times F(6) && = ((T(1)\times T(2))\times T(7)+T(8))\times T(6)\\
&:= (F(1)+F(5)+F(9))\times F(4)\times F(8) && = (T(1)\times T(5)+T(9)+T(4))\times T(8)\\
&:= F(5)\times F(6)\times (F(1)+F(3))\times F(8) && = T(5)\times ((T(6)+T(1))\times T(3)+T(8))\\
\\
\mathbf{2556} &:= (F(3)+F(9))\times (F(6)+F(4)\times F(8)) && = T(3)\times (T(9)+T(6)+T(4)\times T(8))
\end{aligned}
$$

Selfie Expressions With Factorial, Fibonacci and Triangular Values,
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$$
\begin{aligned}
\mathbf{2565} &:= (F(3)+F(7))\times(F(1)+F(5)\times F(9)) && = T(3)\times T(7)\times T(1)\times T(5)+T(9)\\
\mathbf{2646} &:= (F(2)+F(5))\times F(8)\times(F(6)+F(7)) && = (T(2)+T(5)+T(8))\times(T(6)+T(7))\\
\mathbf{2652} &:= (F(5)+F(8))\times(F(1)+F(3))\times F(9) && = (T(5)+T(8)+T(1))\times(T(3)+T(9))\\
\mathbf{2673} &:= (F(2)+F(5))\times F(7)\times F(9)+F(8) && = T(2)\times T(5)+(T(7)+T(9))\times T(8)\\
\mathbf{2691} &:= (F(8)\times F(6)+F(9)+F(5))\times F(7) && = T(8)\times T(6)+T(9)\times(T(5)+T(7))\\
\mathbf{2728} &:= F(9)\times F(5)\times(F(7)+F(4))+F(6) && = (T(9)+T(5)+T(7))\times(T(4)+T(6))\\
\mathbf{2730} &:= F(2)\times F(7)\times(F(6)+F(3))\times F(8) && = T(2)\times(T(7)+T(6)\times(T(3)+T(8)))\\
\mathbf{2736} &:= (F(1)+F(5)\times F(9)\times F(3))\times F(6) && = (T(1)+T(5))\times(T(9)+T(3)\times T(6))\\
\mathbf{2751} &:= F(5)+F(4)\times(F(6)+F(9))\times F(8) && = T(5)+(T(4)+T(6)+T(9))\times T(8)\\
\mathbf{2772} &:= F(4)\times(F(6)+F(9))\times(F(1)+F(8)) && = (T(4)+T(6)+T(9)+T(1))\times T(8)\\
\mathbf{2800} &:= F(5)\times(F(2)+F(9))\times(F(4)+F(7)) && = (T(5)\times T(2)+T(9)+T(4))\times T(7)\\
\mathbf{2808} &:= (F(3)+F(9))\times(F(2)+F(5))\times F(7) && = T(3)\times(T(9)+T(2)+T(5)\times T(7))\\
\mathbf{2848} &:= (F(4)+F(7))\times(F(5)\times F(9)+F(6)) && = T(4)+(T(7)+T(5))\times(T(9)+T(6))\\
\mathbf{2856} &:= (F(4)\times F(5)+F(3))\times F(8)\times F(6) && = (T(4)+T(5)\times T(3)+T(8))\times T(6)\\
\mathbf{2871} &:= (F(5)\times F(7)+F(9))\times(F(6)+F(8)) && = T(5)+T(7)\times(T(9)+T(6)+T(8))\\
\mathbf{2898} &:= (F(6)+F(3)\times F(5)\times F(7))\times F(8) && = T(6)\times T(3)\times T(5)+T(7)\times T(8)\\
\mathbf{2899} &:= F(2)+(F(9)+F(6)\times F(7))\times F(8) && = T(2)\times T(9)\times T(6)+T(7)+T(8)\\
\mathbf{2925} &:= F(2)+(F(5)\times F(7)+F(8))\times F(9) && = T(2)\times T(5)\times(T(7)+T(8))+T(9)\\
\\
\mathbf{2940} &:= (F(1)+F(7))\times(F(6)+F(9))\times F(5) && = (T(1)\times T(7)+T(6))\times(T(9)+T(5))\\
&:= F(8)\times(F(3)+F(6))\times(F(2)+F(7)) && = (T(8)+T(3)+T(6)\times T(2))\times T(7)\\
\\
\mathbf{2958} &:= F(9)\times(F(3)+F(1))\times(F(8)+F(6)) && = (T(9)+T(3))\times(T(1)+T(8)+T(6))\\
\mathbf{3024} &:= (F(1)+(F(7)+F(9))\times F(4))\times F(8) && = (T(1)+T(7)+T(9)+T(4))\times T(8)\\
\mathbf{3030} &:= F(5)\times F(4)\times(F(6)\times F(8)+F(9)) && = T(5)+(T(4)+T(6)+T(8))\times T(9)\\
\\
\mathbf{3060} &:= (F(1)+F(6)+F(8))\times F(4)\times F(9) && = (T(1)+T(6)+T(8)+T(4))\times T(9)\\
&:= (F(3)+F(7))\times(F(5)+F(2))\times F(9) && = (T(3)+T(7))\times(T(5)\times T(2)+T(9))\\
&:= F(5)\times F(3)\times(F(2)+F(6))\times F(9) && = T(5)\times(T(3)+T(2)\times(T(6)+T(9)))\\
&:= F(4)\times(F(2)+F(6)+F(8))\times F(9) && = T(4)\times T(2)\times(T(6)+T(8)+T(9))\\
\\
\mathbf{3150} &:= (F(3)+F(7))\times F(5)\times(F(6)+F(9)) && = (T(3)+T(7)+T(5)+T(6))\times T(9)\\
\mathbf{3192} &:= F(8)\times F(6)\times(F(2)+F(5)+F(7)) && = (T(8)+T(6)\times T(2)+T(5))\times T(7)\\
\mathbf{3234} &:= (F(4)+F(6))\times(F(2)+F(7))\times F(8) && = T(4)\times T(6)+(T(2)\times T(7))\times T(8)\\
\mathbf{3264} &:= ((F(3)+F(7))\times F(5)+F(8))\times F(9) && = (T(3)+T(7))\times(T(5)+T(8)+T(9))\\
\mathbf{3276} &:= (F(2)+F(5))\times F(3)\times F(7)\times F(8) && = (T(2)\times(T(5)+T(3))+T(7))\times T(8)\\
\mathbf{3276} &:= F(4)\times(F(6)+F(9))\times(F(5)+F(8)) && = (T(4)+T(6)+T(9)+T(5))\times T(8)\\
\mathbf{3690} &:= F(5)\times(F(4)\times F(6)+F(8)\times F(9)) && = (T(5)+T(4)+T(6)+T(8))\times T(9)\\
\mathbf{3705} &:= F(5)\times F(7)\times(F(3)+F(8)+F(9)) && = T(5)\times(T(7)+T(3)\times T(8))+T(9)\\
\mathbf{3718} &:= (F(4)+F(6))\times(F(8)+F(5))\times F(7) && = (T(4)\times T(6)+T(8))\times T(5)+T(7)
\end{aligned}
$$

$$\mathbf{3744} := (F(5)+F(8)+F(7)\times F(9))\times F(6) \quad = (T(5)+T(8))\times(T(7)+T(9))+T(6)$$

$$\begin{aligned}\mathbf{3780} &:= (F(3)+F(9))\times F(5)\times F(2)\times F(8) && = T(3)\times(T(9)+T(5)\times(T(2)+T(8)))\\ &:= (F(5)\times F(9)+F(3)+F(6))\times F(8) && = (T(5)+T(9))\times(T(3)+T(6)+T(8))\\ &:= F(8)\times(F(9)+F(1)+F(2))\times F(5) && = T(8)\times(T(9)+(T(1)+T(2))\times T(5))\end{aligned}$$

$$\begin{aligned}\mathbf{3795} &:= F(5)\times(F(4)+F(3)+F(9))\times F(8) && = T(5)+(T(4)\times T(3)+T(9))\times T(8)\\ \mathbf{3808} &:= F(9)\times F(6)\times F(2)\times(F(1)+F(7)) && = T(9)\times T(6)\times(T(2)+T(1))+T(7)\\ \mathbf{3811} &:= F(4)+F(6)\times(F(2)+F(7))\times F(9) && = T(4)+T(6)+(T(2)\times T(7))\times T(9)\\ \mathbf{3843} &:= F(2)\times F(8)\times(F(7)+F(5)\times F(9)) && = T(2)+(T(8)+T(7))\times(T(5)+T(9))\\ \mathbf{3853} &:= F(5)+(F(9)+F(4))\times F(6)\times F(7) && = T(5)\times(T(9)+T(4)\times T(6))+T(7)\\ \mathbf{3915} &:= F(5)\times(F(1)+(F(3)+F(8))\times F(9)) && = (T(5)\times T(1))\times(T(3)\times T(8)+T(9))\\ \mathbf{3915} &:= F(5)\times(F(2)+(F(3)+F(8))\times F(9)) && = (T(5)\times T(2)+T(3)+T(8))\times T(9)\\ \mathbf{3925} &:= (F(4)+(F(3)+F(8))\times F(9))\times F(5) && = T(4)+(T(3)\times T(8)+T(9))\times T(5)\\ \mathbf{3933} &:= (F(3)+F(8))\times(F(2)+F(5)\times F(9)) && = T(3)\times T(8)\times(T(2)+T(5))+T(9)\\ \mathbf{3960} &:= F(5)\times(F(2)+F(8))\times(F(3)+F(9)) && = T(5)\times(T(2)+T(8)\times T(3)+T(9))\\ \mathbf{3978} &:= (F(2)+F(6))\times F(1)\times F(7)\times F(9) && = T(2)\times(T(6)+(T(1)+T(7))\times T(9))\\ \mathbf{4080} &:= F(1)\times F(5)\times F(4)\times F(6)\times F(9) && = (T(1)+T(5))\times(T(4)\times T(6)+T(9))\end{aligned}$$

$$\begin{aligned}\mathbf{4095} &:= (F(1)+F(6)\times F(9))\times F(4)\times F(5) && = T(1)\times T(6)\times(T(9)+T(4)\times T(5))\\ &:= (F(2)+F(6))\times F(7)\times(F(1)+F(9)) && = (T(2)\times T(6)+T(7))\times T(1)\times T(9)\end{aligned}$$

$$\begin{aligned}\mathbf{4110} &:= F(4)\times F(5)\times(F(3)+F(6)\times F(9)) && = T(4)\times(T(5)+T(3)\times(T(6)+T(9)))\\ \mathbf{4158} &:= (F(4)+F(6))\times(F(5)+F(7))\times F(8) && = T(4)\times T(6)\times T(5)+T(7)\times T(8)\\ \mathbf{4167} &:= (F(2)+F(6))\times(F(8)+F(7)\times F(9)) && = T(2)\times(T(6)\times(T(8)+T(7))+T(9))\\ \mathbf{4200} &:= F(5)\times F(4)\times F(6)\times(F(2)+F(9)) && = T(5)+(T(4)+T(6))\times T(2)\times T(9)\\ \mathbf{4284} &:= F(9)\times(F(2)+F(5))\times(F(6)+F(7)) && = (T(9)+T(2)\times(T(5)+T(6)))\times T(7)\\ \mathbf{4290} &:= F(4)\times F(3)\times F(7)\times(F(8)+F(9)) && = T(4)\times(T(3)\times(T(7)+T(8))+T(9))\end{aligned}$$

$$\begin{aligned}\mathbf{4320} &:= F(5)\times F(6)\times F(4)\times(F(3)+F(9)) && = (T(5)+T(6)+T(4)\times T(3))\times T(9)\\ &:= F(5)\times(F(9)+F(3))\times(F(4)+F(8)) && = (T(5)+T(9)+T(3)\times T(4))\times T(8)\end{aligned}$$

$$\begin{aligned}\mathbf{4368} &:= F(1)\times F(3)\times F(6)\times F(7)\times F(8) && = (T(1)+T(3))\times(T(6)\times T(7)+T(8))\\ &:= (F(5)+F(9))\times(F(2)+F(7))\times F(6) && = ((T(5)+T(9))\times T(2)+T(7))\times T(6)\end{aligned}$$

$$\begin{aligned}\mathbf{4410} &:= (F(2)+F(6)\times F(7))\times F(3)\times F(8) && = T(2)\times T(6)\times(T(7)+T(3)+T(8))\\ &:= F(4)\times F(3)\times(F(2)+F(9))\times F(8) && = T(4)\times((T(3)+T(2))\times T(9)+T(8))\end{aligned}$$

$$\mathbf{4485} := F(5)\times F(7)\times(F(1)+F(3)\times F(9)) \quad = T(5)\times(T(7)+T(1)+T(3)\times T(9))$$

$$\begin{aligned}
\mathbf{4488} &:= F(3)\times(F(7)\times F(5)+F(1))\times F(9) && = T(3)\times(T(7)+(T(5)+T(1))\times T(9))\\
&:= F(3)\times(F(7)\times F(5)+F(2))\times F(9) && = T(3)\times(T(7)+T(5)\times(T(2)+T(9)))
\end{aligned}$$

$$\begin{aligned}
\mathbf{4536} &:= (F(1)+F(7)\times F(3))\times F(6)\times F(8) && = (T(1)\times T(7))\times(T(3)\times T(6)+T(8))\\
&:= (F(3)+F(9))\times(F(1)+F(5))\times F(8) && = T(3)\times(T(9)\times(T(1)+T(5))+T(8))\\
&:= (F(3)+F(9))\times(F(2)+F(5))\times F(8) && = T(3)\times((T(9)+T(2))\times T(5)+T(8))
\end{aligned}$$

$$\begin{aligned}
\mathbf{4590} &:= F(5)\times(F(2)+F(6))\times F(4)\times F(9) && = (T(5)+T(2))\times(T(6)\times T(4)+T(9))\\
\mathbf{4605} &:= F(4)\times F(5)\times(F(7)\times F(8)+F(9)) && = T(4)\times(T(5)\times T(7)+T(8))+T(9)\\
\mathbf{4680} &:= (F(3)+F(7))\times F(6)\times(F(5)+F(9)) && = T(3)\times((T(7)+T(6))\times T(5)+T(9))\\
\mathbf{4704} &:= F(3)\times(F(7)+F(1))\times F(6)\times F(8) && = T(3)\times(T(7)\times T(1)+T(6)\times T(8))\\
\mathbf{5145} &:= (F(5)+F(3))\times F(8)\times(F(2)+F(9)) && = T(5)+(T(3)+T(8)\times T(2))\times T(9)\\
\mathbf{5725} &:= F(9)\times(F(4)+F(5))\times F(8)+F(7) && = T(9)+T(4)\times(T(5)\times T(8)+T(7))\\
\mathbf{5796} &:= F(3)\times F(8)\times(F(6)\times F(7)+F(9)) && = T(3)\times T(8)\times T(6)+T(7)\times T(9)\\
\mathbf{5880} &:= (F(4)+F(5))\times F(8)\times(F(2)+F(9)) && = T(4)\times(T(5)\times T(8)+T(2)+T(9))\\
\mathbf{5916} &:= F(3)\times F(9)\times F(4)\times(F(6)+F(8)) && = (T(3)\times T(9)+T(4))\times T(6)+T(8)\\
\mathbf{6084} &:= (F(3)+F(9))\times(F(2)+F(6)\times F(8)) && = T(3)\times(T(9)+T(2))\times T(6)+T(8)\\
\mathbf{6264} &:= ((F(3)+F(8))\times F(9)+F(2))\times F(6) && = (T(3)\times T(8)+T(9))\times(T(2)+T(6))\\
\mathbf{6552} &:= F(6)\times(F(3)+F(2))\times F(8)\times F(7) && = (T(6)\times T(3)+T(2)\times T(8))\times T(7)\\
\mathbf{6804} &:= (F(2)+F(6))\times(F(3)+F(9))\times F(8) && = ((T(2)+T(6))\times T(3)+T(9))\times T(8)\\
\mathbf{6864} &:= F(4)\times(F(1)+F(8))\times F(6)\times F(7) && = (T(4)+T(1))\times(T(8)+T(6)\times T(7))\\
\mathbf{7170} &:= F(3)\times F(5)\times(F(9)\times F(8)+F(4)) && = (T(3)+T(5)\times T(9)+T(8))\times T(4)\\
\mathbf{7176} &:= F(4)\times F(6)\times F(7)\times(F(3)+F(8)) && = T(4)\times T(6)\times(T(7)+T(3))+T(8)\\
\mathbf{7650} &:= F(5)\times(F(4)+F(8)\times F(3))\times F(9) && = (T(5)+T(4))\times(T(8)+T(3)\times T(9))\\
\mathbf{7686} &:= F(3)\times(F(5)\times F(9)+F(7))\times F(8) && = T(3)\times(T(5)+T(9)\times T(7))+T(8)\\
\mathbf{7696} &:= F(3)\times F(6)\times F(7)\times(F(9)+F(4)) && = T(3)\times(T(6)+T(7)\times T(9))+T(4)
\end{aligned}$$

$$\begin{aligned}
\mathbf{7956} &:= F(3)\times(F(6)+F(1))\times F(7)\times F(9) && = T(3)\times(T(6)+(T(1)+T(7))\times T(9))\\
&:= (F(5)+F(8))\times(F(6)+F(2))\times F(9) && = (T(5)+T(8))\times(T(6)+T(2)\times T(9))
\end{aligned}$$

$$\begin{aligned}
\mathbf{8160} &:= F(3)\times F(6)\times F(4)\times F(5)\times F(9) && = (T(3)\times T(6)+T(4))\times(T(5)+T(9))\\
\mathbf{8316} &:= (F(4)+F(6))\times(F(3)+F(9))\times F(8) && = ((T(4)+T(6))\times T(3)+T(9))\times T(8)\\
\mathbf{8398} &:= (F(3)\times F(6)+F(4))\times F(9)\times F(7) && = T(3)\times(T(6)+T(4))\times T(9)+T(7)\\
\mathbf{8568} &:= (F(6)+F(2)+F(4))\times F(8)\times F(9) && = T(6)\times(T(2)+T(4)\times T(8)+T(9))\\
\mathbf{9291} &:= F(2)+F(9)\times F(7)\times F(8)+F(6) && = (T(2)\times T(9)+T(7))\times(T(8)+T(6))\\
\mathbf{9384} &:= (F(3)+F(7)\times F(8)+F(1))\times F(9) && = (T(3)\times T(7)+T(8))\times(T(1)+T(9))\\
\mathbf{9792} &:= ((F(2)+F(8))\times F(7)+F(3))\times F(9) && = T(2)\times(T(8)+T(7))\times(T(3)+T(9))
\end{aligned}$$

$$\begin{aligned}
\mathbf{9828} &:= (F(1)\times F(3)+F(9))\times F(8)\times F(7) && = ((T(1)+T(3))\times T(9)+T(8))\times T(7)\\
&:= (F(2)\times F(9)+F(3))\times F(8)\times F(7) && = (T(2)\times T(9)+T(3)\times T(8))\times T(7)
\end{aligned}$$

Selfie Expressions With Factorial, Fibonacci and Triangular Values,
Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

$$
\begin{aligned}
\mathbf{10584} &:= (F(3)+F(9))\times F(8)\times (F(2)+F(7)) = (T(3)\times T(9)+T(8)\times T(2))\times T(7)\\
\mathbf{10710} &:= (F(1)+F(7)\times F(6))\times F(4)\times F(9) = (T(1)\times T(7)+T(6)\times T(4))\times T(9)\\
\mathbf{10731} &:= (F(2)+(F(7)+F(3))\times F(9))\times F(8) = T(2)+(T(7)+T(3)\times T(9))\times T(8)\\
\mathbf{10836} &:= (F(5)\times F(9)+F(3))\times F(4)\times F(8) = T(5)\times T(9)\times (T(3)+T(4))+T(8)\\
\mathbf{10944} &:= (F(8)\times F(7)\times F(5)+F(4))\times F(6) = (T(8)+T(7))\times (T(5)\times T(4)+T(6))\\
\mathbf{11025} &:= (F(9)+F(1))\times F(8)\times (F(3)+F(7)) = T(9)\times (T(1)+T(8)\times T(3)+T(7))\\
\mathbf{11088} &:= (F(5)\times F(7)+F(2))\times F(8)\times F(6) = (T(5)\times T(7)+T(2)\times T(8))\times T(6)\\
\mathbf{11340} &:= F(5)\times F(8)\times F(4)\times (F(3)+F(9)) = T(5)\times (T(8)+T(4)+T(3))\times T(9)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{11424} &:= F(2)\times F(9)\times F(8)\times (F(4)+F(7)) = (T(2)+T(9)+T(8)\times T(4))\times T(7)\\
&:= F(4)\times F(6)\times (F(7)+F(2))\times F(9) = (T(4)\times T(6)+T(7))\times (T(2)+T(9))
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{11466} &:= F(8)\times F(7)\times (F(3)+F(5)\times F(6)) = (T(8)+(T(7)+T(3))\times T(5))\times T(6)\\
\mathbf{11760} &:= F(5)\times (F(1)+F(7))\times F(6)\times F(8) = T(5)\times T(1)\times (T(7)+T(6)\times T(8))\\
\mathbf{12988} &:= F(9)\times (F(5)+(F(6)+F(8))\times F(7)) = (T(9)+T(5)\times T(6))\times T(8)+T(7)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{13104} &:= (F(1)+F(5))\times F(6)\times F(7)\times F(8) = ((T(1)+T(5))\times T(6)+T(7))\times T(8)\\
&:= F(3)\times F(4)\times F(6)\times F(7)\times F(8) = ((T(3)+T(4))\times T(6)+T(7))\times T(8)\\
&:= F(8)\times (F(5)+F(2))\times F(7)\times F(6) = (T(8)\times T(5)+T(2)\times T(7))\times T(6)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{13650} &:= F(5)\times F(7)\times (F(6)+F(3))\times F(8) = T(5)\times (T(7)+T(6)\times (T(3)+T(8)))\\
\mathbf{16320} &:= F(9)\times F(6)\times (F(4)\times F(7)+F(8)) = (T(9)+T(6)\times T(4))\times (T(7)+T(8))\\
\mathbf{17640} &:= F(4)\times F(6)\times F(8)\times (F(2)+F(9)) = T(4)\times T(6)\times (T(8)+T(2)+T(9))\\
\mathbf{19890} &:= (F(1)+F(6))\times F(5)\times F(7)\times F(9) = (T(1)+T(6)+T(5)\times T(7))\times T(9)\\
\mathbf{22848} &:= F(3)\times F(8)\times F(9)\times (F(4)+F(7)) = (T(3)+(T(8)+T(9))\times T(4))\times T(7)\\
\mathbf{53550} &:= F(5)\times F(9)\times (F(7)+F(3))\times F(8) = (T(5)+T(9)\times T(7))\times (T(3)+T(8))
\end{aligned}
$$

7.2 Positive and Negative Signs Expressions

7.2.1 Two Terms Expressions

$$
\begin{aligned}
\mathbf{3} &:= F(2)+F(3) = -T(2)+T(3)\\
\mathbf{8} &:= -F(7)+F(8) = -T(7)+T(8)\\
\mathbf{11} &:= F(4)+F(6) = -T(4)+T(6)
\end{aligned}
$$

7.2.2 Three Terms Expressions

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

Selfie Expressions With Factorial, Fibonacci and Triangular Values,
Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

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

$$
\begin{aligned}
\mathbf{3} &:= (-F(1) + F(3)) \times F(4) && = -T(1) - T(3) + T(4) \\
&:= -F(2) \times F(3) + F(5) && = T(2) \times T(3) - T(5) \\
&:= -F(2) \times F(5) + F(6) && = -T(2) - T(5) + T(6) \\
&:= F(4) \times (-F(1) + F(3)) && = T(4) - T(1) - T(3)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{4} &:= -F(1) + F(3) + F(4) && = -T(1) \times T(3) + T(4) \\
&:= -F(2) - F(6) + F(7) && = -T(2) - T(6) + T(7)
\end{aligned}
$$

$$
\mathbf{5} := F(1) \times F(3) + F(4) \qquad = T(1) - T(3) + T(4)
$$

$$
\begin{aligned}
\mathbf{6} &:= (F(1) + F(2)) \times F(4) && = -T(1) - T(2) + T(4) \\
&:= F(1) - F(6) + F(7) && = -T(1) - T(6) + T(7) \\
&:= -F(2) + F(3) + F(5) && = -T(2) - T(3) + T(5)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{7} &:= -F(1) - F(7) + F(8) && = -T(1) - T(7) + T(8) \\
&:= F(2) + F(3) \times F(4) && = T(2) - T(3) + T(4)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{8} &:= -F(1) \times F(7) + F(8) && = -T(1) \times T(7) + T(8) \\
&:= F(1) + F(3) + F(5) && = -T(1) - T(3) + T(5) \\
&:= F(2) \times F(4) + F(5) && = T(2) - T(4) + T(5)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{9} &:= -F(1) + F(3) \times F(5) && = -T(1) \times T(3) + T(5) \\
&:= F(1) - F(7) + F(8) && = T(1) - T(7) + T(8)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{10} &:= F(1) \times F(3) \times F(5) && = T(1) - T(3) + T(5) \\
&:= -F(1) + F(4) + F(6) && = -T(1) - T(4) + T(6) \\
&:= -F(2) - F(3) + F(7) && = -T(2) \times T(3) + T(7)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{11} &:= F(1) \times F(4) + F(6) && = -T(1) \times T(4) + T(6) \\
&:= F(3) \times F(4) + F(5) && = T(3) - T(4) + T(5)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{12} &:= (F(2) + F(5)) \times F(3) && = T(2) + T(5) - T(3) \\
&:= F(1) + F(4) + F(6) && = T(1) - T(4) + T(6) \\
&:= -F(2) - F(6) + F(8) && = -T(2) - T(6) + T(8) \\
&:= -F(2) - F(8) + F(9) && = T(2) - T(8) + T(9) \\
&:= F(3) - F(4) + F(7) && = -T(3) - T(4) + T(7)
\end{aligned}
$$

Selfie Expressions With Factorial, Fibonacci and Triangular Values,
Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

$$
\begin{aligned}
\mathbf{14} &:= (-F(1)+F(6))\times F(3) && = -T(1)+T(6)-T(3)\\
&:= F(1)-F(6)+F(8) && = -T(1)-T(6)+T(8)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{15} &:= (F(2)\times F(4))\times F(5) && = T(2)\times T(4)-T(5)\\
&:= -F(1)+F(3)\times F(6) && = -T(1)\times T(3)+T(6)\\
&:= -F(2)+F(4)+F(7) && = -T(2)-T(4)+T(7)\\
&:= F(3)-F(8)+F(9) && = T(3)-T(8)+T(9)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{16} &:= F(1)\times F(3)\times F(6) && = T(1)-T(3)+T(6)\\
&:= F(4)+F(5)+F(6) && = T(4)-T(5)+T(6)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{17} &:= F(1)+F(4)+F(7) && = -T(1)-T(4)+T(7)\\
&:= -F(2)+F(5)+F(7) && = T(2)\times T(5)-T(7)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{18} &:= -F(2)-F(3)+F(8) && = -T(2)\times T(3)+T(8)\\
&:= F(3)\times (F(2)+F(6)) && = -T(3)+T(2)+T(6)\\
&:= -F(3)\times F(6)+F(9) && = -T(3)-T(6)+T(9)\\
&:= -F(3)-F(2)+F(8) && = -T(3)\times T(2)+T(8)\\
&:= F(4)\times F(7)-F(8) && = T(4)-T(7)+T(8)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{20} &:= -F(2)-F(7)+F(9) && = T(2)-T(7)+T(9)\\
&:= F(3)-F(4)+F(8) && = -T(3)-T(4)+T(8)
\end{aligned}
$$

$$
\mathbf{21} := F(2)\times F(6)+F(7) \quad = T(2)\times (-T(6)+T(7))
$$

$$
\begin{aligned}
\mathbf{23} &:= -F(2)+F(4)+F(8) && = -T(2)-T(4)+T(8)\\
&:= F(3)-F(7)+F(9) && = T(3)-T(7)+T(9)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{24} &:= (F(2)+F(3))\times F(6) && = -T(2)+T(3)+T(6)\\
&:= -F(3)\times F(5)+F(9) && = -T(3)-T(5)+T(9)\\
&:= -F(5)\times F(3)+F(9) && = -T(5)-T(3)+T(9)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{25} &:= F(1)+F(4)+F(8) && = -T(1)-T(4)+T(8)\\
&:= -F(1)-F(6)+F(9) && = T(1)-T(6)+T(9)\\
&:= -F(2)+F(3)\times F(7) && = T(2)-T(3)+T(7)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{26} &:= (F(1)+F(2))\times F(7) && = T(1)-T(2)+T(7)\\
\mathbf{27} &:= F(2)-F(6)+F(9) && = T(2)-T(6)+T(9)
\end{aligned}
$$

$$\begin{aligned}
\mathbf{29} &:= -F(1) \times F(5) + F(9) && = -T(1) - T(5) + T(9) \\
&:= -F(3) - F(4) + F(9) && = -T(3) - T(4) + T(9)
\end{aligned}$$

$$\begin{aligned}
\mathbf{30} &:= (F(3) \times F(4)) \times F(5) && = T(3) \times (-T(4) + T(5)) \\
&:= F(1) - F(5) + F(9) && = -T(1) \times T(5) + T(9) \\
&:= F(5) \times (-F(3) + F(6)) && = T(5) - T(3) + T(6)
\end{aligned}$$

$$\begin{aligned}
\mathbf{32} &:= F(2) - F(4) + F(9) && = -T(2) - T(4) + T(9) \\
&:= F(3) \times (F(4) + F(7)) && = T(3) \times T(4) - T(7)
\end{aligned}$$

$$\mathbf{35} := (-F(1) + F(6)) \times F(5) = -T(1) + T(6) + T(5)$$

$$\begin{aligned}
\mathbf{36} &:= -F(1) + F(4) + F(9) && = T(1) - T(4) + T(9) \\
&:= F(2) \times F(3) + F(9) && = -T(2) - T(3) + T(9)
\end{aligned}$$

$$\begin{aligned}
\mathbf{38} &:= -F(1) + F(4) \times F(7) && = T(1) \times T(4) + T(7) \\
&:= F(2) + F(4) + F(9) && = T(2) - T(4) + T(9)
\end{aligned}$$

$$\begin{aligned}
\mathbf{39} &:= -F(2) + F(5) \times F(6) && = T(2) + T(5) + T(6) \\
\mathbf{41} &:= -F(1) + F(3) \times F(8) && = -T(1) + T(3) + T(8) \\
\mathbf{42} &:= F(3) \times (F(6) + F(7)) && = T(3) \times (-T(6) + T(7)) \\
\mathbf{48} &:= (F(5) + F(2)) \times F(6) && = -T(5) + T(2) \times T(6) \\
\mathbf{60} &:= F(3) \times F(9) - F(6) && = -T(3) + T(9) + T(6) \\
\mathbf{63} &:= F(4) \times (-F(7) + F(9)) && = -T(4) + T(7) + T(9) \\
\mathbf{64} &:= (-F(5) + F(7)) \times F(6) && = T(5) + T(7) + T(6) \\
\mathbf{91} &:= (-F(2) + F(6)) \times F(7) && = T(2) \times T(6) + T(7)
\end{aligned}$$

$$\begin{aligned}
\mathbf{105} &:= (F(2) + F(9)) \times F(4) && = T(2) \times (T(9) - T(4)) \\
&:= F(5) \times (F(6) + F(7)) && = T(5) \times (-T(6) + T(7))
\end{aligned}$$

$$\mathbf{180} := (F(3) + F(9)) \times F(5) = T(3) \times (T(9) - T(5))$$

7.2.3 Four Terms Expressions

$$\begin{aligned}
\mathbf{0} &:= F(1) \times F(3) - F(5) + F(4) && = T(1) - T(3) + T(5) - T(4) \\
&:= (F(1) - F(3) + F(2)) \times F(5) && = (T(1) - T(3)) \times T(2) + T(5) \\
&:= (F(2) - F(4) + F(3)) \times F(8) && = T(2) \times T(4) + T(3) - T(8) \\
&:= F(1) \times F(2) + F(3) - F(4) && = T(1) + T(2) + T(3) - T(4) \\
&:= F(1) + F(3) + F(5) - F(6) && = T(1) \times T(3) + T(5) - T(6)
\end{aligned}$$

$$
\begin{aligned}
&:= (F(2)+F(3)-F(4))\times F(7) && = T(2)\times T(3)+T(4)-T(7)\\
&:= F(2)+F(3)+F(5)-F(6) && = T(2)\times (T(3)+T(5)-T(6))\\
\mathbf{0}\ &:= F(3)\times F(6)+F(5)-F(8) && = (T(3)-T(6)+T(5))\times T(8)\\
&:= (F(3)+F(4)-F(5))\times F(9) && = -T(3)\times T(4)+T(5)+T(9)\\
&:= (F(4)+F(3)-F(5))\times F(6) && = T(4)\times (T(3)+T(5)-T(6))\\
&:= (F(4)+F(5)-F(6))\times F(8) && = T(4)\times (T(5)+T(6)-T(8))\\
&:= F(5)+F(6)+F(8)-F(9) && = (T(5)+T(6)-T(8))\times T(9)\\
&:= F(3)\times (F(5)+F(6)-F(7)) && = (T(3)+T(5)-T(6))\times T(7)\\
&:= F(5)\times (F(6)-F(8)+F(7)) && = (T(5)+T(6)-T(8))\times T(7)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{1}\ &:= -F(1)\times F(3)+F(6)-F(5) && = T(1)+T(3)-T(6)+T(5)\\
&:= (F(1)+F(2))\times F(4)-F(5) && = -T(1)-T(2)-T(4)+T(5)\\
&:= F(1)+F(2)+F(3)-F(4) && = -T(1)\times T(2)-T(3)+T(4)\\
&:= F(1)+F(3)+F(4)-F(5) && = T(1)\times T(3)+T(4)-T(5)\\
&:= (-F(1)+F(6))\times F(3)-F(7) && = -T(1)\times T(6)-T(3)+T(7)\\
&:= F(2)+F(4)+F(5)-F(6) && = -T(2)+T(4)+T(5)-T(6)\\
&:= -(F(2)+F(5))\times F(3)+F(7) && = -(T(2)\times (T(5)-T(3)))+T(7)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{1}\ &:= F(2)+F(6)+F(7)-F(8) && = -T(2)\times T(6)+T(7)+T(8)\\
&:= -F(3)-F(5)-F(7)+F(8) && = -T(3)+T(5)+T(7)-T(8)\\
&:= (F(3)-F(7))\times F(4)+F(9) && = -T(3)-T(7)-T(4)+T(9)\\
&:= -(F(4)+F(2))\times F(5)+F(8) && = T(4)-T(2)\times T(5)+T(8)\\
&:= F(7)+F(2)+F(8)-F(9) && = T(7)+T(2)\times (T(8)-T(9))\\
&:= F(3)\times (F(4)+F(6))-F(8) && = T(3)+T(4)+T(6)-T(8)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{2}\ &:= -F(1)\times F(2)\times F(4)+F(5) && = -T(1)\times T(2)-T(4)+T(5)\\
&:= -F(1)\times F(2)-F(3)+F(5) && = -T(1)+T(2)\times T(3)-T(5)\\
&:= F(1)\times F(4)\times F(5)-F(7) && = -T(1)-T(4)-T(5)+T(7)\\
&:= -F(1)\times F(4)-F(6)+F(7) && = -T(1)+T(4)+T(6)-T(7)\\
&:= (F(1)+F(2))\times F(5)-F(6) && = -T(1)-T(2)-T(5)+T(6)\\
&:= -F(1)-F(3)-F(6)+F(7) && = T(1)-T(3)-T(6)+T(7)\\
&:= (F(1)-F(3))\times F(4)+F(5) && = T(1)+T(3)+T(4)-T(5)\\
&:= -F(2)-F(3)-F(4)+F(6) && = -T(2)-T(3)-T(4)+T(6)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{2}\ &:= -F(2)-F(3)-F(6)+F(7) && = T(2)+T(3)+T(6)-T(7)\\
&:= -F(3)\times F(4)-F(5)+F(7) && = T(3)\times (-T(4)+T(5))-T(7)\\
&:= F(3)+F(4)+F(5)-F(6) && = T(3)-T(4)-T(5)+T(6)\\
&:= F(3)+F(5)+F(6)-F(7) && = -T(3)+T(5)+T(6)-T(7)\\
&:= -F(4)-F(6)-F(8)+F(9) && = -T(4)+T(6)+T(8)-T(9)\\
&:= (F(1)+F(2))\times (-F(3)+F(4)) && = T(1)-T(2)-T(3)+T(4)
\end{aligned}
$$

$$:= -F(2) + F(4) \times F(6) - F(8) \qquad = -T(2) - T(4) - T(6) + T(8)$$
$$:= (F(2) - F(3)) \times (-F(5) + F(4)) \qquad = T(2) - T(3) + T(5) - T(4)$$

$$\mathbf{3} := -F(1) \times F(2) \times F(3) + F(5) \qquad = T(1) \times T(2) \times T(3) - T(5)$$
$$:= -F(1) \times F(2) \times F(5) + F(6) \qquad = -T(1) \times T(2) - T(5) + T(6)$$
$$:= F(1) \times F(2) - F(4) + F(5) \qquad = T(1) - T(2) - T(4) + T(5)$$
$$:= -F(1) - F(2) - F(6) + F(7) \qquad = -T(1) - T(2) - T(6) + T(7)$$
$$:= (-F(1) + F(7)) \times F(3) - F(8) \qquad = T(1) - T(7) - T(3) + T(8)$$
$$:= (F(1) - F(4)) \times F(5) + F(7) \qquad = -T(1) \times T(4) - T(5) + T(7)$$
$$:= F(1) - F(4) - F(6) + F(7) \qquad = T(1) \times T(4) + T(6) - T(7)$$
$$:= -F(2) \times F(3) - F(6) + F(7) \qquad = T(2) \times (-T(3) - T(6) + T(7))$$
$$:= F(2) \times F(4) \times F(6) - F(8) \qquad = T(2) \times (T(4) - T(6)) + T(8)$$
$$:= -F(2) \times F(4) - F(3) + F(6) \qquad = T(2) \times T(4) - T(3) - T(6)$$

$$\mathbf{3} := -F(2) \times F(5) - F(7) + F(8) \qquad = T(2) \times (-T(5) + T(7)) - T(8)$$
$$:= (F(2) + F(3)) \times F(6) - F(8) \qquad = T(2) \times T(3) + T(6) - T(8)$$
$$:= (F(2) - F(3)) \times F(5) + F(6) \qquad = T(2) + T(3) + T(5) - T(6)$$
$$:= -F(2) + F(3) - F(4) + F(5) \qquad = T(2) \times (T(3) + T(4) - T(5))$$
$$:= -F(3) - F(4) - F(5) + F(7) \qquad = T(3) + T(4) + T(5) - T(7)$$
$$:= F(4) + F(6) + F(7) - F(8) \qquad = -T(4) + T(6) + T(7) - T(8)$$
$$:= F(3) \times (F(4) - F(6)) + F(7) \qquad = T(3) - T(4) - T(6) + T(7)$$
$$:= F(4) \times (F(3) - F(6)) + F(8) \qquad = T(4) \times T(3) - T(6) - T(8)$$
$$:= F(4) \times (-F(5) + F(7)) - F(8) \qquad = T(4) - T(5) - T(7) + T(8)$$

$$\mathbf{4} := -F(1) \times F(2) - F(6) + F(7) \qquad = -T(1) \times T(2) - T(6) + T(7)$$
$$:= F(1) \times F(2) - F(3) + F(5) \qquad = T(1) + T(2) \times T(3) - T(5)$$
$$:= F(1) \times F(2) - F(5) + F(6) \qquad = T(1) - T(2) - T(5) + T(6)$$
$$:= -F(1) - F(2) - F(3) + F(6) \qquad = T(1) - T(2) \times T(3) + T(6)$$
$$:= -F(1) - F(4) - F(5) + F(7) \qquad = T(1) - T(4) - T(5) + T(7)$$
$$:= (-F(1) + F(5)) \times F(4) - F(6) \qquad = T(1) \times T(5) + T(4) - T(6)$$
$$:= F(1) - F(3) - F(4) + F(6) \qquad = -T(1) - T(3) - T(4) + T(6)$$

$$\mathbf{4} := (F(2) + F(3)) \times F(4) - F(5) \qquad = T(2) + T(3) + T(4) - T(5)$$
$$:= F(2) - F(3) - F(6) + F(7) \qquad = T(2) - T(3) - T(6) + T(7)$$
$$:= F(2) - F(5) - F(7) + F(8) \qquad = -T(2) + T(5) + T(7) - T(8)$$
$$:= -(F(3) + F(2)) \times F(4) + F(7) \qquad = T(3) - T(2) \times T(4) + T(7)$$
$$:= F(1) + F(4) \times F(6) - F(8) \qquad = -T(1) - T(4) - T(6) + T(8)$$
$$:= F(2) - F(3) \times F(5) + F(7) \qquad = -T(2) - T(3) - T(5) + T(7)$$
$$:= -F(2) + F(4) \times F(7) - F(9) \qquad = -T(2) - T(4) - T(7) + T(9)$$

$$
\begin{aligned}
\mathbf{5} &:= -F(1) \times F(2) \times F(6) + F(7) && = T(1) - T(2) - T(6) + T(7) \\
&:= (F(1) + F(2)) \times F(7) - F(8) && = -T(1) \times T(2) - T(7) + T(8) \\
&:= (-F(1) - F(2) + F(4)) \times F(5) && = (-T(1) + T(2)) \times T(4) - T(5) \\
&:= F(1) + F(3) - F(2) + F(4) && = (-T(1) + T(3)) \times T(2) - T(4) \\
&:= (F(1) - F(3)) \times F(4) + F(6) && = -T(1) \times T(3) - T(4) + T(6) \\
&:= (F(1) - F(4)) \times F(6) + F(8) && = -T(1) \times T(4) - T(6) + T(8) \\
&:= -F(1) + F(4) - F(5) + F(6) && = T(1) + T(4) + T(5) - T(6)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{5} &:= -F(2) \times F(4) - F(7) + F(8) && = T(2) + T(4) + T(7) - T(8) \\
&:= -F(2) - F(3) - F(5) + F(7) && = T(2) \times T(3) + T(5) - T(7) \\
&:= -F(2) - F(3) - F(7) + F(8) && = T(2) - T(3) - T(7) + T(8) \\
&:= F(3) \times F(8) - F(4) - F(9) && = T(3) - T(8) - T(4) + T(9) \\
&:= -F(1) - F(2) + F(3) + F(5) && = -T(1) - T(2) - T(3) + T(5) \\
&:= -F(3) \times (F(4) + F(5)) + F(8) && = -T(3) - T(4) - T(5) + T(8)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{6} &:= F(1) \times F(2) + F(4) + F(3) && = -T(1) + T(2) + T(4) - T(3) \\
&:= -F(1) \times F(3) - F(5) + F(7) && = -T(1) - T(3) - T(5) + T(7) \\
&:= -F(1) \times F(4) + F(2) + F(6) && = (-T(1) + T(4)) \times T(2) - T(6) \\
&:= -F(1) - F(2) - F(7) + F(8) && = T(1) - T(2) - T(7) + T(8) \\
&:= -F(1) - F(3) + F(2) + F(6) && = (T(1) - T(3)) \times T(2) + T(6) \\
&:= (F(1) + F(6)) \times F(4) - F(8) && = T(1) - T(6) - T(4) + T(8) \\
&:= -F(1) + F(3) - F(4) + F(6) && = T(1) - T(3) - T(4) + T(6)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{6} &:= -F(2) \times F(3) - F(7) + F(8) && = T(2) \times (-T(3) - T(7) + T(8)) \\
&:= F(2) \times F(4) - F(5) + F(6) && = -T(2) \times T(4) + T(5) + T(6) \\
&:= F(2) \times F(5) \times F(6) - F(9) && = -T(2) - T(5) - T(6) + T(9) \\
&:= F(2) + F(3) - F(5) + F(6) && = T(2) \times (-T(3) + T(5)) - T(6) \\
&:= (-F(2) + F(8)) \times F(3) - F(9) && = T(2) - T(8) - T(3) + T(9) \\
&:= F(2) - F(4) - F(5) + F(7) && = T(2) - T(4) - T(5) + T(7) \\
&:= F(2) - F(4) - F(7) + F(8) && = T(2) \times (T(4) + T(7) - T(8)) \\
&:= (F(3) + F(4)) \times F(6) - F(9) && = -T(3) \times T(4) + T(6) + T(9)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{6} &:= -(F(3) + F(5)) \times F(2) + F(7) && = T(3) \times T(5) - T(2) \times T(7) \\
&:= -F(3) - F(5) - F(6) + F(8) && = T(3) + T(5) + T(6) - T(8) \\
&:= -F(6) + F(2) - F(8) + F(9) && = -T(6) + T(2) \times (-T(8) + T(9)) \\
&:= F(1) + F(4) \times F(7) - F(9) && = -T(1) - T(4) - T(7) + T(9) \\
&:= (F(1) + F(2)) \times (-F(3) + F(5)) && = -T(1) \times T(2) - T(3) + T(5) \\
&:= F(2) - F(3) \times F(6) + F(8) && = -T(2) - T(3) - T(6) + T(8) \\
&:= F(3) \times (-F(8) + F(4) \times F(6)) && = T(3) \times T(8) - T(4) \times T(6)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{7} &:= -F(1) \times F(2) + F(4) + F(5) && = -T(1) + T(2) - T(4) + T(5) \\
&:= F(1) + F(2) + F(3) + F(4) && = T(1) \times T(2) - T(3) + T(4) \\
&:= F(1) + F(2) - F(4) + F(6) && = -T(1) - T(2) - T(4) + T(6) \\
&:= F(1) + F(3) - F(2) + F(5) && = T(1) - T(3) - T(2) + T(5) \\
&:= -F(1) - F(5) - F(8) + F(9) && = T(1) + T(5) + T(8) - T(9) \\
&:= F(1) - F(3) - F(5) + F(7) && = -T(1) \times T(3) - T(5) + T(7) \\
&:= F(2) \times F(3) - F(4) + F(6) && = T(2) \times T(3) + T(4) - T(6) \\
&:= F(2) + F(4) - F(5) + F(6) && = T(2) + T(4) + T(5) - T(6) \\
&:= F(2) - F(3) + F(4) + F(5) && = -T(2) \times T(3) + T(4) + T(5) \\
&:= -F(3) \times F(4) - F(8) + F(9) && = T(3) + T(4) + T(8) - T(9) \\
&:= (F(4) + F(2)) \times F(5) - F(7) && = -T(4) + T(2) \times T(5) - T(7)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{8} &:= F(1) \times F(2) \times F(4) + F(5) && = T(1) \times T(2) - T(4) + T(5) \\
&:= (-F(1) - F(2) + F(4)) \times F(6) && = -T(1) \times T(2) - T(4) + T(6) \\
&:= -F(1) - F(2) - F(4) + F(7) && = (T(1) - T(2)) \times T(4) + T(7) \\
&:= (F(1) - F(3)) \times F(5) + F(7) && = T(1) - T(3) - T(5) + T(7) \\
&:= (F(1) - F(4)) \times F(7) + F(9) && = T(1) - T(4) - T(7) + T(9) \\
&:= -F(2) \times F(3) \times F(7) + F(9) && = -T(2) - T(3) - T(7) + T(9) \\
&:= -F(2) \times F(4) - F(3) + F(7) && = T(2) \times T(4) + T(3) - T(7) \\
&:= (F(2) \times F(4) - F(3)) \times F(6) && = T(2) - T(4) - T(3) + T(6)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{8} &:= (-F(2) + F(3)) \times F(4) + F(5) && = -T(2) + T(3) - T(4) + T(5) \\
&:= ((F(3) - F(4)) \times F(7)) + F(8) && = T(3) + T(4) + T(7) - T(8) \\
&:= -F(3) + F(5) - F(6) + F(7) && = T(3) \times (-T(5) + T(6)) - T(7) \\
&:= (-F(4) - F(2) + F(5)) \times F(6) && = -T(4) + T(2) \times (-T(5) + T(6)) \\
&:= (F(4) - F(5)) \times F(7) + F(9) && = T(4) + T(5) + T(7) - T(9) \\
&:= F(1) + F(2) + F(3) \times F(4) && = T(1) + T(2) - T(3) + T(4) \\
&:= -F(3) - F(4) \times F(6) + F(9) && = -T(3) - T(4) - T(6) + T(9)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{9} &:= (F(1) \times F(2) + F(3)) \times F(4) && = T(1) + T(2) \times T(3) - T(4) \\
&:= F(1) \times F(2) + F(4) + F(5) && = T(1) + T(2) - T(4) + T(5) \\
&:= -F(1) \times F(2) + F(3) + F(6) && = (T(1) - T(2)) \times T(3) + T(6) \\
&:= F(1) \times F(2) - F(5) + F(7) && = -T(1) - T(2) - T(5) + T(7) \\
&:= F(1) + F(2) + F(3) + F(5) && = (T(1) + T(2)) \times T(3) - T(5) \\
&:= -F(1) - F(2) - F(3) + F(7) && = -T(1) - T(2) \times T(3) + T(7) \\
&:= -F(1) - F(2) + F(4) + F(6) && = T(1) \times T(2) \times T(4) - T(6)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{9} &:= -F(1) + F(5) - F(6) + F(7) && = T(1) + T(5) + T(6) - T(7) \\
&:= -F(2) \times F(3) + F(4) + F(6) && = (-T(2) + T(3)) \times T(4) - T(6) \\
&:= F(2) + F(4) - F(6) + F(7) && = T(2) \times (T(4) + T(6) - T(7))
\end{aligned}
$$

Selfie Expressions With Factorial, Fibonacci and Triangular Values,
Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

$$
\begin{aligned}
&:= -(F(2)+F(5))\times F(3)+F(8) && = -T(2)\times(T(5)-T(3))+T(8)\\
&:= F(2)-F(3)-F(4)+F(7) && = -T(2)-T(3)-T(4)+T(7)\\
&:= F(2)-F(5)-F(8)+F(9) && = T(2)+T(5)+T(8)-T(9)\\
&:= F(3)\times F(4)\times F(5)-F(8) && = T(3)\times T(4)-T(5)-T(8)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{9}\ &:= F(3)\times F(4)-F(5)+F(6) && = T(3)\times(-T(4)+T(5))-T(6)\\
&:= -F(3)-F(5)+F(4)+F(7) && = T(3)-T(5)-T(4)+T(7)\\
&:= F(2)\times F(4)\times(-F(3)+F(5)) && = T(2)\times T(4)-T(3)-T(5)\\
&:= F(2)+F(3)\times F(8)-F(9) && = T(2)\times T(3)+T(8)-T(9)\\
&:= (F(2)+F(3))\times(-F(5)+F(6)) && = -T(2)+T(3)-T(5)+T(6)\\
&:= F(3)\times(F(4)+F(6))-F(7) && = T(3)+T(4)+T(6)-T(7)\\
&:= F(4)\times(F(2)-F(5))+F(8) && = T(4)\times T(2)+T(5)-T(8)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{10}\ &:= -F(1)\times F(2)-F(3)+F(7) && = -T(1)\times T(2)\times T(3)+T(7)\\
&:= F(1)\times F(3)+F(4)+F(5) && = -T(1)+T(3)-T(4)+T(5)\\
&:= F(1)+F(2)+F(4)+F(5) && = (T(1)-T(2))\times(T(4)-T(5))\\
&:= F(1)+F(2)-F(5)+F(7) && = -T(1)\times T(2)-T(5)+T(7)\\
&:= F(1)+F(2)-F(7)+F(8) && = -T(1)+T(2)-T(7)+T(8)\\
&:= -F(1)-F(3)-F(6)+F(8) && = T(1)-T(3)-T(6)+T(8)\\
&:= F(2)\times F(3)-F(5)+F(7) && = T(2)-T(3)-T(5)+T(7)\\
&:= F(2)\times F(3)-F(7)+F(8) && = T(2)\times T(3)+T(7)-T(8)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{10}\ &:= F(2)\times F(5)-F(6)+F(7) && = T(2)\times(T(5)-T(6))+T(7)\\
&:= (-F(3)\times F(4)+F(6))\times F(5) && = T(3)+T(4)-T(6)+T(5)\\
&:= F(4)+F(3)-F(6)+F(7) && = T(4)\times(-T(3)-T(6)+T(7))\\
&:= (F(1)+F(2))\times(-F(4)+F(6)) && = T(1)+T(2)\times T(4)-T(6)\\
&:= (F(1)+F(2))\times(-F(6)+F(7)) && = T(1)\times T(2)-T(6)+T(7)\\
&:= (F(2)\times F(3))\times(-F(6)+F(7)) && = -T(2)+T(3)-T(6)+T(7)\\
&:= F(3)\times(F(1)-F(7))+F(9) && = -T(3)-T(1)-T(7)+T(9)\\
&:= F(3)\times(-F(9)+F(4)\times F(7)) && = -T(3)\times T(9)+T(4)\times T(7)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{11}\ &:= -F(1)\times F(2)\times F(3)+F(7) && = T(1)-T(2)\times T(3)+T(7)\\
&:= F(1)\times F(2)+F(3)+F(6) && = -T(1)-T(2)-T(3)+T(6)\\
&:= -F(1)\times F(3)+F(5)+F(6) && = -T(1)+T(3)-T(5)+T(6)\\
&:= -F(1)-F(2)-F(6)+F(8) && = -T(1)-T(2)-T(6)+T(8)\\
&:= -F(1)-F(2)-F(8)+F(9) && = -T(1)+T(2)-T(8)+T(9)\\
&:= F(1)+F(3)+F(4)+F(5) && = T(1)\times T(3)-T(4)+T(5)\\
&:= -F(1)+F(3)-F(4)+F(7) && = -T(1)-T(3)-T(4)+T(7)\\
&:= (F(1)-F(4))\times F(5)+F(8) && = -T(1)\times T(4)-T(5)+T(8)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{11} &:= (F(2)+F(3))\times F(6)-F(7) && = T(2)\times T(3)+T(6)-T(7)\\
&:= F(2)+F(3)-F(7)+F(8) && = -T(2)+T(3)-T(7)+T(8)\\
&:= F(2)+F(5)-F(6)+F(7) && = T(2)+T(5)+T(6)-T(7)\\
&:= F(2)-F(5)+F(3)+F(7) && = T(2)\times T(5)-T(3)-T(7)\\
&:= F(3)\times F(4)-F(6)+F(7) && = T(3)\times T(4)-T(6)-T(7)\\
&:= F(4)\times F(2)\times F(6)-F(7) && = -T(4)+T(2)\times(-T(6)+T(7))\\
&:= F(1)\times F(2)+F(3)\times F(5) && = -T(1)+T(2)-T(3)+T(5)\\
&:= F(2)-F(4)\times F(6)+F(9) && = -T(2)-T(4)-T(6)+T(9)\\
&:= F(3)\times(F(4)-F(6))+F(8) && = T(3)-T(4)-T(6)+T(8)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{12} &:= -F(1)\times F(2)-F(6)+F(8) && = -T(1)\times T(2)-T(6)+T(8)\\
&:= -F(1)\times F(2)-F(8)+F(9) && = T(1)\times T(2)-T(8)+T(9)\\
&:= -F(1)\times F(2)+F(5)+F(6) && = (T(1)-T(2))\times(T(5)-T(6))\\
&:= F(1)\times F(3)-F(4)+F(7) && = -T(1)\times T(3)-T(4)+T(7)\\
&:= (F(1)+F(2))\times F(4)\times F(3) && = -T(1)-T(2)+T(4)+T(3)\\
&:= F(1)+F(2)+F(3)+F(6) && = -T(1)\times T(2)-T(3)+T(6)\\
&:= F(1)+F(2)-F(4)+F(7) && = (T(1)+T(2))\times T(4)-T(7)\\
&:= (F(1)+F(4))\times F(2)+F(6) && = (T(1)+T(4))\times T(2)-T(6)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{12} &:= -F(1)-F(4)-F(5)+F(8) && = T(1)-T(4)-T(5)+T(8)\\
&:= F(1)-F(3)+F(5)+F(6) && = T(1)\times T(3)-T(5)+T(6)\\
&:= -(F(2)+F(3))\times F(4)+F(8) && = T(2)\times(T(3)+T(4))-T(8)\\
&:= (F(2)+F(4))\times F(5)-F(6) && = T(2)\times(T(4)+T(5)-T(6))\\
&:= -F(2)-F(6)-F(7)+F(9) && = T(2)\times(T(6)+T(7)-T(9))\\
&:= F(2)-F(3)+F(5)+F(6) && = T(2)\times T(3)+T(5)-T(6)\\
&:= F(2)-F(3)-F(6)+F(8) && = T(2)-T(3)-T(6)+T(8)\\
&:= F(2)-F(3)-F(8)+F(9) && = -T(2)+T(3)-T(8)+T(9)\\
&:= F(3)\times F(2)-F(4)+F(7) && = T(3)\times(T(2)\times T(4)-T(7))
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{12} &:= (-F(3)+F(7))\times F(4)-F(8) && = -T(3)-T(7)+T(4)+T(8)\\
&:= (-F(4)+F(6))\times F(5)-F(7) && = -T(4)-T(6)+T(5)+T(7)\\
&:= F(1)\times F(4)\times(-F(2)+F(5)) && = (-T(1)+T(4))\times T(2)-T(5)\\
&:= F(1)+F(2)+F(3)\times F(5) && = T(1)\times T(2)-T(3)+T(5)\\
&:= -F(1)-F(3)+F(4)\times F(5) && = T(1)+T(3)-T(4)+T(5)\\
&:= F(2)-F(3)\times F(5)+F(8) && = -T(2)-T(3)-T(5)+T(8)\\
&:= (F(2)+F(4))\times(F(5)-F(3)) && = (-T(2)-T(4)+T(5))\times T(3)\\
&:= F(3)\times(F(1)-F(6)+F(7)) && = T(3)-T(1)-T(6)+T(7)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{13} &:= -F(1)\times F(2)\times F(6)+F(8) && = T(1)-T(2)-T(6)+T(8)\\
&:= -F(1)\times F(2)\times F(8)+F(9) && = T(1)+T(2)-T(8)+T(9)
\end{aligned}
$$

$$:= (F(1) \times F(3) - F(2)) \times F(7) \qquad = (T(1) - T(3)) \times T(2) + T(7)$$
$$:= F(1) + F(2) + F(4) + F(6) \qquad = -T(1) + T(2) - T(4) + T(6)$$
$$:= (-F(1) + F(3)) \times F(5) + F(6) \qquad = T(1) + T(3) - T(5) + T(6)$$
$$:= (F(1) - F(6)) \times F(4) + F(9) \qquad = -T(1) - T(6) - T(4) + T(9)$$
$$:= F(2) \times F(3) + F(4) + F(6) \qquad = -T(2) \times T(3) + T(4) + T(6)$$

13 $:= (-F(2) - F(4) + F(5)) \times F(7) \qquad = -T(2) \times T(4) + T(5) + T(7)$
$$:= F(3) \times F(7) + F(8) - F(9) \qquad = -T(3) + T(7) + T(8) - T(9)$$
$$:= (F(3) - F(4)) \times F(8) + F(9) \qquad = -T(3) + T(4) - T(8) + T(9)$$
$$:= F(4) \times F(7) - F(5) - F(8) \qquad = -T(4) - T(7) + T(5) + T(8)$$
$$:= -F(1) - F(3) + F(4) + F(7) \qquad = T(1) - T(3) - T(4) + T(7)$$
$$:= -F(2) \times F(3) + F(4) \times F(5) \qquad = T(2) \times T(3) + T(4) - T(5)$$
$$:= F(1) + (F(2) + F(5)) \times F(3) \qquad = T(1) + T(2) + T(5) - T(3)$$
$$:= -F(1) + F(3) \times (-F(2) + F(6)) \qquad = T(1) - T(3) - T(2) + T(6)$$

14 $:= -F(1) \times F(3) - F(5) + F(8) \qquad = -T(1) - T(3) - T(5) + T(8)$
$$:= (F(1) + F(2)) \times F(4) + F(6) \qquad = T(1) \times T(2) - T(4) + T(6)$$
$$:= -F(1) - F(2) + F(4) + F(7) \qquad = -T(1) - T(2) - T(4) + T(7)$$
$$:= -F(1) + F(3) - F(8) + F(9) \qquad = -T(1) + T(3) - T(8) + T(9)$$
$$:= F(2) \times F(4) - F(3) + F(7) \qquad = (-T(2) + T(4)) \times T(3) - T(7)$$
$$:= (F(2) + F(3)) \times F(4) + F(5) \qquad = T(2) + T(3) - T(4) + T(5)$$
$$:= F(2) + F(3) + F(4) + F(6) \qquad = -T(2) + T(3) - T(4) + T(6)$$

14 $:= F(2) - F(4) - F(5) + F(8) \qquad = T(2) - T(4) - T(5) + T(8)$
$$:= -F(3) - F(5) + F(6) + F(7) \qquad = T(3) + T(5) + T(6) - T(7)$$
$$:= -F(1) \times F(2) + F(4) \times F(5) \qquad = -T(1) + T(2) \times T(4) - T(5)$$
$$:= -F(1) - F(3) \times F(4) + F(8) \qquad = (-T(1) + T(3)) \times T(4) - T(8)$$
$$:= F(4) \times (-F(5) + F(8)) - F(9) \qquad = -T(4) + T(5) - T(8) + T(9)$$
$$:= (F(4) - F(5)) \times (F(2) - F(6)) \qquad = -T(4) + T(5) \times T(2) - T(6)$$
$$:= -F(2) + F(4) \times (-F(6) + F(7)) \qquad = -T(2) + T(4) - T(6) + T(7)$$
$$:= F(3) \times (-F(1) - F(7) + F(8)) \qquad = T(3) \times T(1) - T(7) + T(8)$$

15 $:= F(1) \times F(2) \times F(4) \times F(5) \qquad = T(1) \times T(2) \times T(4) - T(5)$
$$:= -F(1) \times F(2) + F(4) + F(7) \qquad = -T(1) \times T(2) - T(4) + T(7)$$
$$:= F(1) \times F(3) - F(8) + F(9) \qquad = T(1) \times T(3) - T(8) + T(9)$$
$$:= F(1) - F(3) - F(5) + F(8) \qquad = -T(1) \times T(3) - T(5) + T(8)$$
$$:= -F(1) + F(4) + F(5) + F(6) \qquad = -T(1) + T(4) - T(5) + T(6)$$
$$:= F(2) \times F(3) + F(5) + F(6) \qquad = T(2) + T(3) - T(5) + T(6)$$
$$:= F(2) + F(1) + F(5) + F(6) \qquad = T(2) \times (-T(1) - T(5) + T(6))$$
$$:= (-F(2) + F(3)) \times F(4) \times F(5) \qquad = (-T(2) - T(3) + T(4)) \times T(5)$$

$$:= (-F(2)+F(7)) \times F(4) - F(8) \quad = -T(2) - T(7) + T(4) + T(8)$$
$$:= F(2) - F(3) + F(4) + F(7) \quad = T(2) - T(3) - T(4) + T(7)$$

15 $:= -F(2) + F(4) - F(6) + F(8) \quad = T(2) \times T(4) + T(6) - T(8)$
$:= F(2) - F(5) - F(3) + F(8) \quad = T(2) \times T(5) + T(3) - T(8)$
$:= -F(2) + F(6) - F(7) + F(8) \quad = T(2) \times (T(6) - T(7)) + T(8)$
$:= (-F(3) - F(6) + F(7)) \times F(5) \quad = (-T(3) - T(6) + T(7)) \times T(5)$
$:= -F(4) \times F(6) + F(5) + F(9) \quad = T(4) \times (T(6) - T(5)) - T(9)$
$:= -F(5) \times F(6) + F(8) + F(9) \quad = -T(5) + T(6) - T(8) + T(9)$
$:= F(5) - F(4) - F(8) + F(9) \quad = T(5) \times (T(4) + T(8) - T(9))$
$:= (F(2) + F(3)) \times (-F(4) + F(6)) \quad = T(2) \times (-T(3) - T(4) + T(6))$
$:= (F(3) + F(2)) \times (-F(6) + F(7)) \quad = -T(3) + T(2) \times (-T(6) + T(7))$
$:= -F(1) + (-F(2) + F(4)) \times F(6) \quad = T(1) + T(2) - T(4) + T(6)$
$:= -F(1) + F(3) \times (-F(7) + F(8)) \quad = T(1) + T(3) - T(7) + T(8)$

16 $:= F(1) \times F(2) \times F(4) + F(7) \quad = T(1) - T(2) - T(4) + T(7)$
$:= F(1) \times F(2) + F(3) + F(7) \quad = (T(1) - T(2)) \times T(3) + T(7)$
$:= F(1) \times F(4) + F(5) + F(6) \quad = T(1) \times T(4) - T(5) + T(6)$
$:= -F(1) - F(2) - F(4) + F(8) \quad = (T(1) - T(2)) \times T(4) + T(8)$
$:= -F(1) - F(2) + F(5) + F(7) \quad = T(1) \times T(2) - T(5) + T(7)$
$:= F(1) + F(3) - F(8) + F(9) \quad = T(1) + T(3) - T(8) + T(9)$
$:= (F(1) - F(3)) \times F(5) + F(8) \quad = T(1) - T(3) - T(5) + T(8)$
$:= (F(1) - F(3) + F(4)) \times F(6) \quad = -T(1) + T(3) - T(4) + T(6)$

16 $:= -F(2) \times F(3) + F(5) + F(7) \quad = -T(2) + T(3) - T(5) + T(7)$
$:= F(2) \times F(4) - F(8) + F(9) \quad = -T(2) + T(4) - T(8) + T(9)$
$:= F(2) \times F(6) - F(7) + F(8) \quad = T(2) + T(6) + T(7) - T(8)$
$:= (-F(2) + F(7)) \times F(3) - F(6) \quad = T(2) + T(7) + T(3) - T(6)$
$:= (-F(2) + F(3)) \times F(4) + F(7) \quad = T(2) \times (T(3) - T(4)) + T(7)$
$:= (F(1) + F(2)) \times (F(4) + F(5)) \quad = T(1) + T(2) \times T(4) - T(5)$
$:= (F(1) + F(2)) \times (-F(7) + F(8)) \quad = (T(1) - T(2)) \times (T(7) - T(8))$
$:= F(2) \times F(3) \times (F(4) + F(5)) \quad = -T(2) - T(3) + T(4) + T(5)$
$:= F(1) - F(4) \times (F(6) - F(7)) \quad = -T(1) + T(4) - T(6) + T(7)$

17 $:= -F(1) \times F(2) + F(5) + F(7) \quad = T(1) + T(2) - T(5) + T(7)$
$:= F(1) \times F(2) - F(5) + F(8) \quad = -T(1) - T(2) - T(5) + T(8)$
$:= -F(1) - F(2) - F(3) + F(8) \quad = -T(1) - T(2) \times T(3) + T(8)$
$:= (F(1) + F(3)) \times F(4) + F(6) \quad = T(1) \times T(3) - T(4) + T(6)$
$:= F(1) + F(4) + F(5) + F(6) \quad = T(1) + T(4) - T(5) + T(6)$
$:= -F(1) - F(4) + F(6) + F(7) \quad = T(1) \times T(4) - T(6) + T(7)$

$$:= F(2) + F(6) + F(8) - F(7) \qquad = T(2) \times (-T(6) + T(8)) - T(7)$$
$$:= F(2) - F(3) + F(5) + F(7) \qquad = (-T(2) + T(3)) \times T(5) - T(7)$$
$$:= F(2) - F(3) - F(4) + F(8) \qquad = -T(2) - T(3) - T(4) + T(8)$$
$$:= F(2) - F(6) + F(4) + F(8) \qquad = T(2) \times T(6) - T(4) - T(8)$$

17 $:= F(3) \times F(4) \times F(5) - F(7) \qquad = T(3) \times T(4) - T(5) - T(7)$
$$:= -F(3) + F(4) - F(5) + F(8) \qquad = T(3) - T(4) - T(5) + T(8)$$
$$:= F(4) + F(2) - F(8) + F(9) \qquad = -T(4) + T(2) \times (-T(8) + T(9))$$
$$:= F(1) \times F(2) + F(3) \times F(6) \qquad = -T(1) + T(2) - T(3) + T(6)$$
$$:= -F(1) - F(3) \times F(6) + F(9) \qquad = -T(1) - T(3) - T(6) + T(9)$$
$$:= -F(1) + F(7) \times F(4) - F(8) \qquad = -T(1) - T(7) + T(4) + T(8)$$
$$:= F(2) \times F(3) + F(5) \times F(4) \qquad = T(2) \times (-T(3) + T(5)) - T(4)$$
$$:= -F(2) - F(6) + F(3) \times F(7) \qquad = T(2) \times (T(6) - T(3)) - T(7)$$
$$:= F(2) - F(3) \times (F(7) - F(8)) \qquad = T(2) + T(3) - T(7) + T(8)$$

18 $:= F(1) \times F(2) \times F(5) + F(7) \qquad = T(1) + T(2) \times T(5) - T(7)$
$$:= -F(1) \times F(2) - F(3) + F(8) \qquad = -T(1) \times T(2) \times T(3) + T(8)$$
$$:= -F(1) \times F(3) \times F(6) + F(9) \qquad = -T(1) \times T(3) - T(6) + T(9)$$
$$:= F(1) \times F(4) \times F(7) - F(8) \qquad = T(1) \times T(4) - T(7) + T(8)$$
$$:= -F(1) \times F(4) + F(6) + F(7) \qquad = T(1) + T(4) - T(6) + T(7)$$
$$:= (F(1) + F(2)) \times F(5) + F(6) \qquad = T(1) \times T(2) \times (-T(5) + T(6))$$
$$:= -(F(1) + F(2)) \times F(6) + F(9) \qquad = T(1) \times T(2) \times T(6) - T(9)$$
$$:= F(1) + F(2) - F(5) + F(8) \qquad = -T(1) \times T(2) - T(5) + T(8)$$
$$:= (-F(1) + F(3)) \times F(5) + F(7) \qquad = -T(1) + T(3) - T(5) + T(7)$$

18 $:= F(2) \times F(3) \times F(5) + F(6) \qquad = -T(2) \times T(3) + T(5) + T(6)$
$$:= -F(2) \times F(3) \times F(6) + F(9) \qquad = (-T(2) + T(3)) \times T(6) - T(9)$$
$$:= F(2) \times F(3) - F(5) + F(8) \qquad = T(2) - T(3) - T(5) + T(8)$$
$$:= F(2) \times F(4) \times F(7) - F(8) \qquad = T(2) \times (-T(4) + T(7)) - T(8)$$
$$:= F(2) \times F(5) - F(6) + F(8) \qquad = T(2) \times (T(5) - T(6)) + T(8)$$
$$:= F(2) \times F(5) - F(8) + F(9) \qquad = T(2) \times (T(5) + T(8) - T(9))$$
$$:= (F(2) + F(1)) \times F(7) - F(6) \qquad = T(2) \times (-T(1) + T(7) - T(6))$$
$$:= (F(3) + F(2)) \times F(7) - F(8) \qquad = -T(3) + T(2) \times (-T(7) + T(8))$$
$$:= (-F(3) + F(1)) \times F(4) + F(8) \qquad = T(3) \times (-T(1) + T(4)) - T(8)$$

18 $:= (-F(3) + F(4)) \times F(5) + F(7) \qquad = T(3) \times (-T(4) - T(5) + T(7))$
$$:= (-F(4) + F(5)) \times F(7) - F(6) \qquad = T(4) + T(5) - T(7) + T(6)$$
$$:= F(1) \times F(4) \times (-F(3) + F(6)) \qquad = T(1) - T(4) + T(3) + T(6)$$
$$:= F(1) + F(2) + F(3) \times F(6) \qquad = T(1) \times T(2) - T(3) + T(6)$$
$$:= (F(1) + F(3)) \times (F(2) + F(5)) \qquad = T(1) \times T(3) - T(2) + T(5)$$

$$:= F(1) + F(3) + F(4) \times F(5) \quad = -T(1) - T(3) + T(4) + T(5)$$
$$:= -F(2) + F(4) \times F(6) - F(5) \quad = T(2) \times (-T(4) + T(6)) - T(5)$$
$$:= F(3) \times (F(5) + F(8)) - F(9) \quad = -T(3) + T(5) - T(8) + T(9)$$
$$:= -F(6) + F(3) \times (-F(8) + F(9)) \quad = T(6) + T(3) + T(8) - T(9)$$

19 $:= -F(1) \times F(2) \times F(3) + F(8) \quad = T(1) - T(2) \times T(3) + T(8)$
$$:= -F(1) \times F(4) \times F(5) + F(9) \quad = -T(1) - T(4) - T(5) + T(9)$$
$$:= -F(1) - F(2) - F(7) + F(9) \quad = -T(1) + T(2) - T(7) + T(9)$$
$$:= -F(1) + F(3) - F(4) + F(8) \quad = -T(1) - T(3) - T(4) + T(8)$$
$$:= -F(1) + F(3) + F(5) + F(7) \quad = T(1) \times T(3) - T(5) + T(7)$$
$$:= -F(2) \times F(5) + F(4) + F(8) \quad = T(2) \times T(5) + T(4) - T(8)$$
$$:= (F(2) + F(4)) \times F(6) - F(7) \quad = -T(2) \times T(4) + T(6) + T(7)$$
$$:= (-F(2) + F(5)) \times F(6) - F(7) \quad = -T(2) + T(5) - T(6) + T(7)$$

19 $:= (F(3) + F(4)) \times F(6) - F(8) \quad = -T(3) + T(4) - T(6) + T(8)$
$$:= F(4) + F(6) - F(7) + F(8) \quad = -T(4) + T(6) - T(7) + T(8)$$
$$:= F(5) \times F(6) + F(7) - F(9) \quad = T(5) + T(6) + T(7) - T(9)$$
$$:= F(1) - F(3) \times F(6) + F(9) \quad = T(1) - T(3) - T(6) + T(9)$$
$$:= F(1) + F(4) \times F(7) - F(8) \quad = T(1) + T(4) - T(7) + T(8)$$
$$:= -F(2) \times F(5) + F(4) \times F(6) \quad = T(2) - T(5) + T(4) + T(6)$$
$$:= F(1) + F(3) \times (F(2) + F(6)) \quad = T(1) - T(3) + T(2) + T(6)$$
$$:= F(4) + (F(1) + F(2)) \times F(6) \quad = T(4) \times (T(1) + T(2)) - T(6)$$

20 $:= (F(1) \times F(2) + F(4)) \times F(5) \quad = (T(1) + T(2)) \times (-T(4) + T(5))$
$$:= -F(1) \times F(2) - F(7) + F(9) \quad = T(1) \times T(2) - T(7) + T(9)$$
$$:= -F(1) \times F(2) + F(6) + F(7) \quad = -T(1) + (T(2) \times (-T(6) + T(7)))$$
$$:= F(1) \times F(3) + F(5) + F(7) \quad = T(1) + T(3) - T(5) + T(7)$$
$$:= F(1) \times F(3) - F(4) + F(8) \quad = -T(1) \times T(3) - T(4) + T(8)$$
$$:= F(1) + F(5) + F(2) + F(7) \quad = (T(1) + T(5)) \times T(2) - T(7)$$
$$:= (-F(1) + F(3) + F(4)) \times F(5) \quad = T(1) - T(3) + T(4) + T(5)$$
$$:= (-F(2) - F(6) + F(7)) \times F(5) \quad = T(2) \times T(6) - T(7) - T(5)$$
$$:= F(2) - F(3) - F(7) + F(9) \quad = -T(2) + T(3) - T(7) + T(9)$$

20 $:= -F(2) + F(4) + F(5) + F(7) \quad = -T(2) + T(4) - T(5) + T(7)$
$$:= -F(3) \times F(4) - F(6) + F(9) \quad = T(3) - T(4) - T(6) + T(9)$$
$$:= F(4) \times F(7) + F(3) - F(8) \quad = T(4) \times (-T(7) - T(3) + T(8))$$
$$:= F(1) - F(4) \times F(5) + F(9) \quad = -T(1) \times T(4) - T(5) + T(9)$$
$$:= (F(1) + F(2)) \times (-F(4) + F(7)) \quad = -T(1) + T(2) - T(4) + T(7)$$
$$:= (F(2) \times F(3)) \times (-F(4) + F(7)) \quad = -T(2) \times T(3) + T(4) + T(7)$$
$$:= (F(2) + F(4)) \times (-F(6) + F(7)) \quad = T(2) + T(4) - T(6) + T(7)$$

$$:= F(2) + F(4) + F(3) \times F(6) \qquad = T(2) - T(4) + T(3) + T(6)$$
$$:= F(4) \times (F(5) + F(7)) - F(9) \qquad = T(4) \times (-T(5) - T(7) + T(9))$$
$$:= F(3) \times (-F(4) + F(5) + F(6)) \qquad = -T(3) - T(4) + T(5) + T(6)$$

$$\mathbf{21} := F(1) \times F(2) \times F(6) + F(7) \qquad = (T(1) \times T(2)) \times (-T(6) + T(7))$$
$$:= -F(1) \times F(2) \times F(7) + F(9) \qquad = T(1) + T(2) - T(7) + T(9)$$
$$:= (F(1) \times F(3) - F(2)) \times F(8) \qquad = (T(1) - T(3)) \times T(2) + T(8)$$
$$:= -F(2) \times F(5) - F(6) + F(9) \qquad = T(2) \times T(5) + T(6) - T(9)$$
$$:= (F(2) + F(1)) \times F(6) + F(5) \qquad = T(2) \times (T(1) + T(6) - T(5))$$
$$:= F(2) + F(3) + F(5) + F(7) \qquad = T(2) \times (-T(3) - T(5) + T(7))$$
$$:= (-F(2) - F(4) + F(5)) \times F(8) \qquad = -T(2) \times T(4) + T(5) + T(8)$$
$$:= (F(2) + F(7)) \times F(4) - F(8) \qquad = T(2) - T(7) + T(4) + T(8)$$
$$:= (-F(2) + F(3)) \times F(6) + F(7) \qquad = (T(2) - T(3)) \times (T(6) - T(7))$$

$$\mathbf{21} := (F(2) - F(3)) \times F(7) + F(9) \qquad = T(2) \times (-T(3) + T(7)) - T(9)$$
$$:= -F(3) - F(4) - F(6) + F(9) \qquad = T(3) \times (-T(4) + T(6)) - T(9)$$
$$:= (F(3) - F(4)) \times F(7) + F(9) \qquad = -T(3) + T(4) - T(7) + T(9)$$
$$:= -F(1) - F(3) + F(4) + F(8) \qquad = T(1) - T(3) - T(4) + T(8)$$
$$:= F(2) \times F(4) \times (F(3) + F(5)) \qquad = T(2) \times T(4) + T(3) - T(5)$$
$$:= -F(2) - F(3) + F(4) \times F(6) \qquad = (-T(2) - T(3) + T(4)) \times T(6)$$
$$:= -F(2) - F(3) + F(4) + F(8) \qquad = -T(2) + T(3) \times T(4) - T(8)$$
$$:= -F(3) + F(4) \times F(5) + F(6) \qquad = (T(3) + T(4) - T(5)) \times T(6)$$
$$:= -F(6) + F(4) \times F(8) - F(9) \qquad = T(6) \times (T(4) + T(8) - T(9))$$
$$:= F(1) + (F(2) + F(4)) \times F(5) \qquad = -T(1) - T(2) + T(4) + T(5)$$
$$:= F(2) - F(3) \times (F(4) - F(7)) \qquad = -T(2) + T(3) - T(4) + T(7)$$

$$\mathbf{22} := F(1) \times F(2) + F(6) + F(7) \qquad = T(1) - T(2) \times (T(6) - T(7))$$
$$:= -F(1) - F(2) + F(4) + F(8) \qquad = -T(1) - T(2) - T(4) + T(8)$$
$$:= (F(1) + F(3)) \times F(4) + F(7) \qquad = (-T(1) + T(3)) \times T(4) - T(7)$$
$$:= F(1) + F(4) + F(5) + F(7) \qquad = -T(1) + T(4) - T(5) + T(7)$$
$$:= (-F(1) + F(6)) \times F(5) - F(7) \qquad = -T(1) \times T(6) + T(5) + T(7)$$
$$:= -F(1) + F(3) - F(7) + F(9) \qquad = -T(1) + T(3) - T(7) + T(9)$$
$$:= F(3) \times F(4) \times F(5) - F(6) \qquad = T(3) + T(4) - T(5) + T(6)$$
$$:= (F(1) + F(2)) \times (F(4) + F(6)) \qquad = (T(1) - T(2)) \times (T(4) - T(6))$$
$$:= -F(2) + F(3) \times F(5) + F(7) \qquad = T(2) + T(3) - T(5) + T(7)$$
$$:= F(2) \times F(3) \times (F(4) + F(6)) \qquad = -T(2) - T(3) + T(4) + T(6)$$
$$:= F(2) + (F(3) + F(5)) \times F(4) \qquad = T(2) - T(3) + T(5) + T(4)$$

$$\mathbf{23} := -F(1) \times F(2) + F(4) + F(8) \qquad = -T(1) \times T(2) - T(4) + T(8)$$
$$:= F(1) \times F(3) - F(7) + F(9) \qquad = T(1) \times T(3) - T(7) + T(9)$$

Selfie Expressions With Factorial, Fibonacci and Triangular Values,
Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

$$:= F(1) - F(3) + F(4) + F(8) \qquad = -T(1) + T(3) \times T(4) - T(8)$$
$$:= (-F(1) + F(4)) \times F(5) + F(7) \qquad = T(1) \times T(4) - T(5) + T(7)$$
$$:= F(2) \times F(4) \times F(5) + F(6) \qquad = -T(2) - T(4) + T(5) + T(6)$$
$$:= F(2) \times F(5) \times F(3) + F(7) \qquad = T(2) \times T(5) + T(3) - T(7)$$
$$:= F(2) - F(3) + F(4) + F(8) \qquad = T(2) - T(3) - T(4) + T(8)$$

23 $:= -F(2) + F(4) + F(6) + F(7) \qquad = T(2) \times T(4) + T(6) - T(7)$
$$:= -F(4) - F(6) + F(7) + F(8) \qquad = T(4) + T(6) + T(7) - T(8)$$
$$:= F(5) \times F(7) - F(6) - F(9) \qquad = -T(5) - T(7) + T(6) + T(9)$$
$$:= -F(1) \times F(4) + F(3) \times F(7) \qquad = -T(1) - T(4) + T(3) + T(7)$$
$$:= -F(1) - F(3) \times F(5) + F(9) \qquad = -T(1) - T(3) - T(5) + T(9)$$
$$:= -F(3) \times (F(4) - F(6)) + F(7) \qquad = T(3) + T(4) - T(6) + T(7)$$
$$:= -F(1) + (F(2) + F(3)) \times F(6) \qquad = -T(1) - T(2) + T(3) + T(6)$$

24 $:= F(1) \times F(2) \times F(4) + F(8) \qquad = T(1) - T(2) - T(4) + T(8)$
$$:= (F(1) \times F(2) + F(3)) \times F(6) \qquad = -T(1) \times T(2) + T(3) + T(6)$$
$$:= F(1) \times F(2) + F(3) + F(8) \qquad = (T(1) - T(2)) \times T(3) + T(8)$$
$$:= -F(1) \times F(3) \times F(5) + F(9) \qquad = -T(1) \times T(3) - T(5) + T(9)$$
$$:= (-F(1) - F(2) + F(5)) \times F(6) \qquad = (T(1) + T(2)) \times (-T(5) + T(6))$$
$$:= -F(1) - F(2) + F(5) + F(8) \qquad = (T(1) + T(2)) \times T(5) - T(8)$$
$$:= (-F(1) + F(3)) \times F(4) \times F(6) \qquad = -T(1) - T(3) + T(4) + T(6)$$

24 $:= F(1) + F(3) - F(7) + F(9) \qquad = T(1) + T(3) - T(7) + T(9)$
$$:= (-F(1) + F(3)) \times F(4) + F(8) \qquad = T(1) \times T(3) \times T(4) - T(8)$$
$$:= (-F(2) \times F(3) + F(5)) \times F(6) \qquad = T(2) \times T(3) - T(5) + T(6)$$
$$:= -F(2) \times F(3) + F(5) + F(8) \qquad = -T(2) + T(3) - T(5) + T(8)$$
$$:= F(2) \times F(4) - F(7) + F(9) \qquad = -T(2) + T(4) - T(7) + T(9)$$
$$:= -F(2) \times F(6) - F(3) + F(9) \qquad = T(2) \times T(6) + T(3) - T(9)$$
$$:= (-F(2) + F(3)) \times F(4) + F(8) \qquad = T(2) \times (T(3) - T(4)) + T(8)$$
$$:= (F(2) - F(4) + F(5)) \times F(6) \qquad = T(2) \times T(4) + T(5) - T(6)$$

24 $:= (F(3) + F(1) + F(5)) \times F(4) \qquad = T(3) \times (-T(1) + T(5) - T(4))$
$$:= F(3) + F(2) + F(6) + F(7) \qquad = T(3) \times (-T(2) - T(6) + T(7))$$
$$:= (F(3) + F(7)) \times F(4) - F(8) \qquad = T(3) - T(7) + T(4) + T(8)$$
$$:= F(1) \times F(3) \times (-F(2) + F(7)) \qquad = -T(1) - T(3) + T(2) + T(7)$$
$$:= F(1) \times F(4) \times (-F(5) + F(7)) \qquad = T(1) + T(4) - T(5) + T(7)$$
$$:= -F(1) - F(2) + F(3) \times F(7) \qquad = -T(1) + T(2) - T(3) + T(7)$$
$$:= F(1) - F(4) + F(3) \times F(7) \qquad = -T(1) \times T(4) + T(3) + T(7)$$
$$:= (F(2) + F(3)) \times (-F(7) + F(8)) \qquad = (T(2) - T(3)) \times (T(7) - T(8))$$
$$:= F(3) \times (F(4) + F(5)) + F(6) \qquad = T(3) \times T(4) - T(5) - T(6)$$

Selfie Expressions With Factorial, Fibonacci and Triangular Values,
Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

$$
\begin{aligned}
\mathbf{24} &:= F(3)\times(F(6)+F(8))-F(9) && = -T(3)+T(6)-T(8)+T(9)\\
&:= F(3)\times(F(6)-F(7))+F(9) && = T(3)\times(T(6)+T(7)-T(9))\\
&:= -F(4)+F(5)\times F(6)-F(7) && = -T(4)-T(5)+T(6)+T(7)\\
&:= -F(2)+F(5)\times(-F(6)+F(7)) && = T(2)\times(T(5)+T(6)-T(7))\\
&:= F(3)\times(-F(2)-F(6)+F(8)) && = T(3)+T(2)-T(6)+T(8)\\
&:= -F(3)+(F(4)-F(2))\times F(7) && = -T(3)\times T(4)+T(2)\times T(7)\\
&:= F(4)\times(-F(5)-F(6)+F(8)) && = T(4)\times(-T(5)+T(6))-T(8)\\
&:= -F(6)+F(3)\times(-F(5)+F(8)) && = -T(6)-T(3)+T(5)+T(8)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{25} &:= -F(1)\times F(2)+F(5)+F(8) && = T(1)+T(2)-T(5)+T(8)\\
&:= (F(1)+F(2)+F(4))\times F(5) && = (T(1)+T(2))\times T(4)-T(5)\\
&:= -(F(1)+F(3))\times F(4)+F(9) && = (T(1)+T(3))\times T(4)-T(9)\\
&:= -F(1)-F(4)+F(6)+F(8) && = T(1)\times T(4)-T(6)+T(8)\\
&:= -F(1)+F(3)+F(4)+F(8) && = T(1)+T(3)\times T(4)-T(8)\\
&:= F(2)+F(6)+F(4)+F(7) && = T(2)\times T(6)-T(4)-T(7)\\
&:= (F(3)\times F(1)+F(4))\times F(5) && = (T(3)-T(1))\times(-T(4)+T(5))
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{25} &:= F(3)-F(4)+F(5)+F(8) && = -T(3)+T(4)-T(5)+T(8)\\
&:= F(1)-F(3)\times F(5)+F(9) && = T(1)-T(3)-T(5)+T(9)\\
&:= -F(1)\times F(2)+F(3)\times F(7) && = T(1)\times T(2)-T(3)+T(7)\\
&:= F(1)\times F(5)\times(-F(4)+F(6)) && = -T(1)+T(5)-T(4)+T(6)\\
&:= -F(1)+F(3)+F(4)\times F(6) && = -T(1)\times T(3)+T(4)+T(6)\\
&:= F(2)\times F(5)\times(-F(6)+F(7)) && = T(2)+T(5)-T(6)+T(7)\\
&:= F(3)\times(F(2)+F(5))+F(7) && = -T(3)\times T(2)+T(5)+T(7)\\
&:= F(1)+(F(2)+F(3))\times F(6) && = T(1)-T(2)+T(3)+T(6)\\
&:= -F(4)+F(3)\times(F(1)+F(7)) && = -T(4)+T(3)+T(1)+T(7)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{26} &:= F(1)\times F(2)\times F(3)\times F(7) && = T(1)+T(2)-T(3)+T(7)\\
&:= -F(1)\times F(2)\times F(6)+F(9) && = -T(1)+T(2)-T(6)+T(9)\\
&:= -F(1)\times F(4)+F(6)+F(8) && = T(1)+T(4)-T(6)+T(8)\\
&:= (F(1)+F(4)-F(3))\times F(7) && = (-T(1)+T(4))\times T(3)-T(7)\\
&:= (-F(1)+F(3))\times F(5)+F(8) && = -T(1)+T(3)-T(5)+T(8)\\
&:= (-F(2)\times F(4)+F(5))\times F(7) && = T(2)+T(4)-T(5)+T(7)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{26} &:= -F(2)\times F(6)+F(7)+F(8) && = -T(2)+T(6)-T(7)+T(8)\\
&:= -(F(2)+F(4))\times F(3)+F(9) && = -T(2)-T(4)-T(3)+T(9)\\
&:= F(1)\times F(3)+F(4)\times F(6) && = T(1)-T(3)+T(4)+T(6)\\
&:= (F(1)+F(2))\times(-F(6)+F(8)) && = -T(1)+T(2)\times T(6)-T(8)\\
&:= (F(1)+F(2))\times(-F(8)+F(9)) && = -T(1)+T(2)\times(-T(8)+T(9))
\end{aligned}
$$

$$:= (-F(1)+F(4)) \times (F(5)+F(6)) \quad = -T(1) \times T(4) + T(5) + T(6)$$
$$:= F(3) \times (F(5) - F(7) + F(8)) \quad = T(3) \times T(5) - T(7) - T(8)$$

$$\mathbf{27} := F(1) \times F(2) - F(6) + F(9) \quad = T(1) \times T(2) - T(6) + T(9)$$
$$:= -F(1) - F(2) - F(5) + F(9) \quad = -T(1) \times T(2) - T(5) + T(9)$$
$$:= -F(1) - F(2) + F(6) + F(8) \quad = T(1) \times T(2) \times T(6) - T(8)$$
$$:= (F(1)+F(4)) \times F(6) - F(5) \quad = T(1) - T(4) + T(6) + T(5)$$
$$:= -F(1) + F(3) + F(5) + F(8) \quad = T(1) \times T(3) - T(5) + T(8)$$
$$:= -F(2) \times F(3) - F(5) + F(9) \quad = T(2) - T(3) - T(5) + T(9)$$
$$:= -F(2) \times F(3) + F(6) + F(8) \quad = (-T(2) + T(3)) \times T(6) - T(8)$$
$$:= F(2) + F(3) + F(4) + F(8) \quad = T(2) + T(3) \times T(4) - T(8)$$

$$\mathbf{27} := (F(2)+F(5)) \times F(6) - F(8) \quad = -T(2) + T(5) - T(6) + T(8)$$
$$:= -F(2) + F(3) - F(6) + F(9) \quad = -T(2) + T(3) - T(6) + T(9)$$
$$:= -F(2) + F(3) + F(5) + F(8) \quad = T(2) \times (T(3) + T(5)) - T(8)$$
$$:= F(2) - F(4) + F(6) + F(8) \quad = -T(2) \times T(4) + T(6) + T(8)$$
$$:= F(5) \times F(6) + F(8) - F(9) \quad = T(5) + T(6) + T(8) - T(9)$$
$$:= F(1) \times F(4) \times (F(2)+F(6)) \quad = -T(1) + T(4) - T(2) + T(6)$$
$$:= -F(2) + F(5) \times F(4) + F(7) \quad = T(2) \times T(5) + T(4) - T(7)$$
$$:= (-F(2) + F(3) \times F(5)) \times F(4) \quad = -T(2) + T(3) \times (T(5) - T(4))$$

$$\mathbf{27} := F(2) + F(3) + F(4) \times F(6) \quad = T(2) \times (T(3) + T(4)) - T(6)$$
$$:= F(3) \times (-F(2) + F(6)) + F(7) \quad = T(3) - T(2) \times (T(6) - T(7))$$
$$:= F(3) \times (F(4) + F(7)) - F(5) \quad = -T(3) - T(4) + T(7) + T(5)$$
$$:= F(2) - F(3) \times (F(8) - F(9)) \quad = T(2) \times T(3) - T(8) + T(9)$$
$$:= F(2) + F(3) \times (F(5) + F(6)) \quad = -T(2) - T(3) + T(5) + T(6)$$
$$:= F(3) - (F(6) - F(7)) \times F(5) \quad = (T(3) \times (-T(6) + T(7))) - T(5)$$
$$:= F(4) - F(3) \times (F(2) - F(7)) \quad = -((T(4) - T(3)) - T(2)) + T(7)$$

$$\mathbf{28} := -F(1) \times F(2) - F(5) + F(9) \quad = T(1) - T(2) - T(5) + T(9)$$
$$:= -F(1) \times F(2) + F(6) + F(8) \quad = T(1) + T(2) \times T(6) - T(8)$$
$$:= F(1) \times F(3) + F(5) + F(8) \quad = T(1) + T(3) - T(5) + T(8)$$
$$:= F(1) + F(2) - F(6) + F(9) \quad = T(1) + T(2) - T(6) + T(9)$$
$$:= -F(1) - F(3) - F(4) + F(9) \quad = -T(1) - T(3) - T(4) + T(9)$$
$$:= -F(2) - F(6) + F(4) + F(9) \quad = T(2) \times T(6) + T(4) - T(9)$$
$$:= -F(2) + F(4) + F(5) + F(8) \quad = -T(2) + T(4) - T(5) + T(8)$$

$$\mathbf{28} := F(3) + F(5) + F(6) + F(7) \quad = -T(3) - T(5) + T(6) + T(7)$$
$$:= (F(4) + F(2)) \times F(5) + F(6) \quad = T(4) - T(2) \times (T(5) - T(6))$$
$$:= (F(1) + F(4)) \times (-F(2) + F(6)) \quad = T(1) \times T(4) - T(2) + T(6)$$

Selfie Expressions With Factorial, Fibonacci and Triangular Values,
Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

$$
\begin{aligned}
&:= F(2) + F(3) \times F(4) + F(8) && = -T(2) \times T(3) + T(4) + T(8)\\
&:= (F(2) + F(4)) \times (F(3) + F(5)) && = -T(2) + T(4) + T(3) + T(5)\\
&:= -F(2) + F(4) + F(3) \times F(7) && = (-T(2) + T(4) - T(3)) \times T(7)\\
&:= F(3) \times (-F(4) + F(7)) + F(6) && = (T(3) - T(4)) \times (-T(7) + T(6))\\
&:= F(3) - (F(4) - F(5)) \times F(7) && = (T(3) + T(4) - T(5)) \times T(7)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{29} &:= -F(1) \times F(3) - F(4) + F(9) && = -T(1) \times T(3) - T(4) + T(9)\\
&:= F(1) + F(3) - F(6) + F(9) && = -T(1) + T(3) - T(6) + T(9)\\
&:= (F(2) + F(4)) \times F(3) + F(8) && = -T(2) - T(4) + T(3) + T(8)\\
&:= F(3) \times F(2) \times F(6) + F(7) && = -T(3) + T(2) \times T(6) - T(7)\\
&:= F(4) + F(7) - F(8) + F(9) && = T(4) + T(7) + T(8) - T(9)\\
&:= F(2) \times F(4) + F(3) \times F(7) && = -T(2) + T(4) - T(3) + T(7)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{29} &:= F(2) \times F(5) + F(4) \times F(6) && = T(2) + T(5) - T(4) + T(6)\\
&:= F(2) + F(7) + F(5) \times F(4) && = T(2) \times (T(7) - T(5)) - T(4)\\
&:= F(3) \times (F(4) + F(5)) + F(7) && = T(3) + T(4) - T(5) + T(7)\\
&:= -F(1) + F(3) \times F(4) \times F(5) && = -T(1) + T(3) \times (-T(4) + T(5))\\
&:= -F(1) + F(5) \times (-F(3) + F(6)) && = -T(1) + T(5) - T(3) + T(6)\\
&:= -F(2) + (F(3) + F(6)) \times F(4) && = T(2) \times T(3) + T(6) - T(4)\\
&:= -F(2) + F(5) \times F(3) \times F(4) && = T(2) \times T(5) - T(3) - T(4)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{30} &:= F(1) \times F(2) + F(6) + F(8) && = (T(1) - T(2)) \times (T(6) - T(8))\\
&:= -F(1) - F(3) - F(2) + F(9) && = (T(1) - T(3)) \times T(2) + T(9)\\
&:= (F(1) + F(3) + F(4)) \times F(5) && = T(1) \times T(3) \times (-T(4) + T(5))\\
&:= F(1) + F(4) + F(5) + F(8) && = -T(1) + T(4) - T(5) + T(8)\\
&:= -F(1) + F(3) - F(5) + F(9) && = (-T(1) + T(3)) \times T(5) - T(9)\\
&:= F(1) - F(3) - F(4) + F(9) && = T(1) - T(3) - T(4) + T(9)\\
&:= F(2) \times F(3) \times F(5) \times F(4) && = (T(2) \times T(3) - T(5)) \times T(4)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{30} &:= (F(2) \times F(3) + F(6)) \times F(4) && = (-T(2) \times T(3) + T(6)) \times T(4)\\
&:= (F(2) + F(1) + F(6)) \times F(4) && = T(2) \times (-T(1) + T(6) - T(4))\\
&:= (F(3) + F(1)) \times F(4) + F(8) && = T(3) \times (T(1) + T(4)) - T(8)\\
&:= -F(3) + F(4) - F(5) + F(9) && = T(3) \times T(4) + T(5) - T(9)\\
&:= -F(3) + F(4) + F(6) + F(8) && = T(3) \times (-T(4) - T(6) + T(8))\\
&:= F(6) + F(2) - F(7) + F(9) && = -T(6) + T(2) \times (-T(7) + T(9))
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{30} &:= F(1) \times F(5) \times (-F(3) + F(6)) && = T(1) \times T(5) - T(3) + T(6)\\
&:= (F(1) + F(2)) \times (F(3) + F(7)) && = -T(1) - T(2) + T(3) + T(7)\\
&:= -F(2) + F(3) \times F(5) + F(8) && = T(2) + T(3) - T(5) + T(8)\\
&:= F(2) \times F(5) \times (-F(3) + F(6)) && = T(2) \times T(5) + T(3) - T(6)
\end{aligned}
$$

$$:= F(2) + F(5) + F(6) \times F(4) \qquad = (-T(2) - T(5) + T(6)) \times T(4)$$
$$:= F(2) - F(7) + F(3) \times F(8) \qquad = T(2) \times (T(7) - T(3)) - T(8)$$
$$:= F(5) \times (-F(3) - F(7) + F(8)) \qquad = T(5) \times (-T(3) - T(7) + T(8))$$

$$\mathbf{31} := -F(1) \times F(2) \times F(4) + F(9) \qquad = -T(1) - T(2) - T(4) + T(9)$$
$$:= F(1) \times F(5) \times F(7) - F(9) \qquad = -T(1) + T(5) - T(7) + T(9)$$
$$:= (-F(1) + F(4)) \times F(5) + F(8) \qquad = T(1) \times T(4) - T(5) + T(8)$$
$$:= F(2) \times F(3) \times F(7) + F(5) \qquad = T(2) \times T(3) + T(7) - T(5)$$
$$:= -F(2) \times F(6) + F(7) \times F(4) \qquad = T(2) \times (-T(6) + T(7)) + T(4)$$
$$:= F(3) \times (F(2) + F(6)) + F(7) \qquad = -T(3) \times T(2) + T(6) + T(7)$$
$$:= F(3) \times (-F(4) + F(6)) + F(8) \qquad = T(3) + T(4) - T(6) + T(8)$$
$$:= F(1) - F(5) \times (F(3) - F(6)) \qquad = T(1) + T(5) - T(3) + T(6)$$
$$:= -F(1) + F(3) \times (F(4) + F(7)) \qquad = -T(1) - T(3) + T(4) + T(7)$$

$$\mathbf{32} := (F(1) \times F(2) + F(4)) \times F(6) \qquad = -T(1) + T(2) \times (-T(4) + T(6))$$
$$:= (-F(1) \times F(2) + F(5)) \times F(6) \qquad = -T(1) - T(2) + T(5) + T(6)$$
$$:= F(1) \times F(2) - F(4) + F(9) \qquad = -T(1) \times T(2) - T(4) + T(9)$$
$$:= -F(1) - F(2) + F(7) + F(8) \qquad = (T(1) + T(2)) \times (-T(7) + T(8))$$
$$:= -F(2) + F(3) - F(4) + F(9) \qquad = T(2) - T(3) - T(4) + T(9)$$
$$:= (F(3) - F(4) + F(5)) \times F(6) \qquad = T(3) - T(4) + T(5) + T(6)$$
$$:= F(4) \times F(6) - F(5) + F(7) \qquad = T(4) - T(6) + T(5) + T(7)$$

$$\mathbf{32} := F(1) \times F(3) \times (F(4) + F(7)) \qquad = T(1) \times T(3) \times T(4) - T(7)$$
$$:= F(1) + F(5) \times F(7) - F(9) \qquad = T(1) \times T(5) - T(7) + T(9)$$
$$:= (F(1) + F(4)) \times (-F(5) + F(7)) \qquad = -T(1) - T(4) + T(5) + T(7)$$
$$:= (F(1) - F(4)) \times (F(5) - F(8)) \qquad = T(1) + T(4) - T(5) + T(8)$$
$$:= F(4) + F(3) \times F(6) + F(7) \qquad = -T(4) + T(3) \times (-T(6) + T(7))$$
$$:= F(4) + F(3) \times F(8) - F(7) \qquad = (T(4) - T(3)) \times (T(8) - T(7))$$
$$:= -F(5) - F(3) + F(4) \times F(7) \qquad = T(5) \times (-T(3) + T(4)) - T(7)$$

$$\mathbf{33} := F(1) \times F(2) - F(3) + F(9) \qquad = (T(1) - T(2)) \times T(3) + T(9)$$
$$:= F(1) + F(2) - F(4) + F(9) \qquad = T(1) - T(2) - T(4) + T(9)$$
$$:= (F(1) + F(4)) \times F(5) + F(7) \qquad = -T(1) \times T(4) + T(5) + T(7)$$
$$:= F(2) \times F(3) - F(4) + F(9) \qquad = T(2) \times (T(3) - T(4)) + T(9)$$
$$:= (-F(2) + F(5)) \times F(4) + F(8) \qquad = T(2) \times (-T(5) - T(4) + T(8))$$
$$:= -F(2) + F(5) + F(6) + F(8) \qquad = T(2) + T(5) - T(6) + T(8)$$
$$:= F(3) + F(5) - F(6) + F(9) \qquad = -T(3) + T(5) - T(6) + T(9)$$
$$:= (F(2) + F(3) \times F(5)) \times F(4) \qquad = T(2) \times (T(3) + T(5) - T(4))$$
$$:= (F(2) + F(3)) \times (F(4) + F(6)) \qquad = (T(2) - T(3)) \times (T(4) - T(6))$$
$$:= -F(2) - F(6) + F(3) \times F(8) \qquad = T(2) \times T(6) + T(3) - T(8)$$

Selfie Expressions With Factorial, Fibonacci and Triangular Values,
Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

$$
\begin{aligned}
\mathbf{33} &:= F(3)\times(F(2)+F(7))+F(5) && = -T(3)+T(2)\times(T(7)-T(5))\\
&:= F(3)+F(5)\times F(7)-F(9) && = T(3)\times(-T(5)+T(7))-T(9)\\
&:= (F(3)+F(1))\times(F(4)+F(6)) && = T(3)\times(-T(1)+T(4))-T(6)\\
&:= F(3)-F(6)+F(4)\times F(7) && = -T(3)+T(6)-T(4)+T(7)\\
&:= F(4)\times(F(5)+F(7))-F(8) && = T(4)+T(5)-T(7)+T(8)\\
&:= F(1)-(F(2)-F(5))\times F(6) && = -T(1)\times T(2)+T(5)+T(6)\\
&:= F(1)+(F(2)+F(4))\times F(6) && = T(1)\times T(2)\times(-T(4)+T(6))\\
&:= F(1)+F(3)\times(F(4)+F(7)) && = T(1)-T(3)+T(4)+T(7)\\
&:= F(2)-F(3)\times(F(5)-F(8)) && = -T(2)\times T(3)+T(5)+T(8)\\
&:= -F(3)+F(5)\times(-F(2)+F(6)) && = -T(3)+T(5)+T(2)+T(6)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{34} &:= F(3)-F(5)+F(4)+F(9) && = -T(3)-T(5)+T(4)+T(9)\\
&:= -F(1)\times F(5)+F(4)\times F(7) && = T(1)+T(5)-T(4)+T(7)\\
&:= F(5)+F(4)\times F(8)-F(9) && = T(5)+T(4)-T(8)+T(9)\\
&:= -F(1)+F(5)\times(-F(2)+F(6)) && = T(1)+T(5)-T(2)+T(6)\\
&:= F(3)\times(-F(1)-F(4)+F(8)) && = (T(3)+T(1))\times T(4)-T(8)\\
&:= F(3)\times(-F(2)+F(5)+F(7)) && = -T(3)-T(2)+T(5)+T(7)\\
&:= F(3)+(F(2)+F(4))\times F(6) && = T(3)-T(2)+T(4)+T(6)\\
&:= F(6)+(F(2)+F(1))\times F(7) && = T(6)\times T(2)-T(1)-T(7)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{35} &:= -F(1)\times F(2)+F(3)+F(9) && = -T(1)-T(2)-T(3)+T(9)\\
&:= (F(1)+F(5))\times F(6)-F(7) && = T(1)-T(5)+T(6)+T(7)\\
&:= (F(1)-F(3)+F(6))\times F(5) && = -T(1)+T(3)\times(T(6)-T(5))\\
&:= F(4)\times F(3)-F(5)+F(9) && = -T(4)+T(3)\times T(5)-T(9)\\
&:= (F(1)+F(3)\times F(4))\times F(5) && = (T(1)+T(3))\times(-T(4)+T(5))\\
&:= F(1)+F(3)\times F(7)+F(6) && = (T(1)-T(3))\times(-T(7)+T(6))
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{35} &:= (-F(2)+F(6))\times(F(3)+F(4)) && = T(2)\times(T(6)-T(3))-T(4)\\
&:= F(6)+F(2)+F(3)\times F(7) && = T(6)\times(-T(2)+T(3))-T(7)\\
&:= -F(1)+F(4)\times(-F(2)+F(7)) && = T(1)\times T(4)-T(2)+T(7)\\
&:= -F(2)+F(3)\times(-F(4)+F(8)) && = T(2)+T(3)-T(4)+T(8)\\
&:= -F(2)+F(3)\times(F(5)+F(7)) && = T(2)\times(T(3)+T(5))-T(7)\\
&:= F(4)-F(3)\times(F(5)-F(8)) && = -T(4)-T(3)+T(5)+T(8)\\
&:= F(5)\times(F(8)-F(2)-F(7)) && = (-T(5)+T(8))\times T(2)-T(7)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{36} &:= F(1)\times F(2)\times F(3)+F(9) && = -T(1)\times T(2)-T(3)+T(9)\\
&:= -F(1)-F(3)+F(5)+F(9) && = T(1)\times T(3)-T(5)+T(9)\\
&:= (F(1)+F(5))\times F(4)\times F(3) && = (T(1)+T(5)-T(4))\times T(3)\\
&:= -F(2)-F(5)+F(6)+F(9) && = -T(2)+T(5)-T(6)+T(9)
\end{aligned}
$$

$$:= -F(3) \times F(4) + F(6) + F(9) \qquad = T(3) \times T(4) + T(6) - T(9)$$
$$:= F(3) + F(5) + F(6) + F(8) \qquad = -T(3) - T(5) + T(6) + T(8)$$
$$:= F(1) \times F(3) \times (F(5) + F(7)) \qquad = -T(1) - T(3) + T(5) + T(7)$$

$$\mathbf{36} := F(1) \times F(4) \times (-F(2) + F(7)) \qquad = T(1) + T(4) - T(2) + T(7)$$
$$:= (F(1) + F(3)) \times (-F(2) + F(7)) \qquad = -T(1) + T(3) + T(2) + T(7)$$
$$:= (F(1) + F(5)) \times (F(6) - F(3)) \qquad = (-T(1) \times T(5) + T(6)) \times T(3)$$
$$:= -F(2) + F(4) \times F(6) + F(7) \qquad = -T(2) - T(4) + T(6) + T(7)$$
$$:= F(2) \times F(3) \times (-F(4) + F(8)) \qquad = (-T(2) - T(3) + T(4)) \times T(8)$$
$$:= (F(2) + F(1)) \times (F(5) + F(7)) \qquad = T(2) \times (-T(1) - T(5) + T(7))$$
$$:= -F(2) - F(3) + F(4) \times F(7) \qquad = T(2) \times T(3) - T(4) + T(7)$$
$$:= (F(2) + F(4)) \times (F(1) + F(6)) \qquad = T(2) \times (-T(4) + T(1) + T(6))$$

$$\mathbf{36} := (-F(2) + F(4)) \times (F(5) + F(7)) \qquad = T(2) - T(4) + T(5) + T(7)$$
$$:= -F(2) - F(4) + F(5) \times F(6) \qquad = T(2) \times T(4) - T(5) + T(6)$$
$$:= (F(2) + F(5)) \times (-F(3) + F(6)) \qquad = T(2) \times (-T(5) + T(3) + T(6))$$
$$:= -F(2) - F(5) + F(3) \times F(8) \qquad = (-T(2) + T(5)) \times T(3) - T(8)$$
$$:= (F(2) - F(7)) \times (-F(6) + F(5)) \qquad = T(2) \times (T(7) - T(6)) + T(5)$$
$$:= F(3) \times (F(1) + F(7)) + F(6) \qquad = T(3) \times (-T(1) + T(7) - T(6))$$
$$:= F(5) \times (F(2) + F(7)) - F(9) \qquad = -T(5) + T(2) \times (-T(7) + T(9))$$
$$:= F(3) \times (F(5) - F(8) + F(9)) \qquad = T(3) \times (T(5) + T(8) - T(9))$$

$$\mathbf{37} := F(1) \times F(2) + F(3) + F(9) \qquad = T(1) - T(2) - T(3) + T(9)$$
$$:= -F(1) \times F(3) + F(5) + F(9) \qquad = T(1) + T(3) - T(5) + T(9)$$
$$:= F(1) + F(4) - F(2) + F(9) \qquad = -T(1) - T(4) + T(2) + T(9)$$
$$:= F(2) \times F(4) \times F(6) + F(7) \qquad = T(2) \times T(4) - T(6) + T(7)$$
$$:= (-F(2) + F(3)) \times F(4) + F(9) \qquad = -T(2) \times T(3) + T(4) + T(9)$$
$$:= F(2) - F(4) + F(5) + F(9) \qquad = -T(2) + T(4) - T(5) + T(9)$$
$$:= F(3) \times F(8) + F(6) - F(7) \qquad = -T(3) + T(8) - T(6) + T(7)$$
$$:= (F(4) - F(2)) \times F(6) + F(8) \qquad = T(4) + T(2) \times T(6) - T(8)$$
$$:= -F(1) - F(3) + F(5) \times F(6) \qquad = T(1) - T(3) \times (T(5) - T(6))$$
$$:= F(3) \times (F(4) + F(5)) + F(8) \qquad = T(3) + T(4) - T(5) + T(8)$$
$$:= F(1) + F(3) \times (F(5) + F(7)) \qquad = -T(1) \times T(3) + T(5) + T(7)$$
$$:= F(2) - F(3) \times (F(4) - F(8)) \qquad = -T(2) - T(3) + T(4) + T(8)$$

$$\mathbf{38} := F(1) \times F(2) + F(4) + F(9) \qquad = T(1) \times T(2) - T(4) + T(9)$$
$$:= -F(1) - F(6) + F(7) + F(9) \qquad = T(1) \times T(6) - T(7) + T(9)$$
$$:= F(1) - F(5) + F(6) + F(9) \qquad = -T(1) + T(5) - T(6) + T(9)$$
$$:= F(2) + F(4) + F(7) + F(8) \qquad = T(2) \times T(4) - T(7) + T(8)$$
$$:= -F(2) + F(3) + F(4) + F(9) \qquad = -T(2) + T(3) - T(4) + T(9)$$

$$:= F(1) + F(4) \times F(6) + F(7) \qquad = -T(1) - T(4) + T(6) + T(7)$$

$$\begin{aligned}
\mathbf{38} &:= (F(1) + F(2)) \times (-F(3) + F(8)) && = -T(1) - T(2) + T(3) + T(8) \\
&:= -F(1) - F(2) + F(5) \times F(6) && = -T(1) + T(2) + T(5) + T(6) \\
&:= -F(1) + (F(2) + F(3)) \times F(7) && = T(1) + T(2) + T(3) + T(7) \\
&:= -F(1) + (-F(3) + F(5)) \times F(7) && = T(1) - T(3) + T(5) + T(7) \\
&:= -F(2) + (-F(5) + F(6)) \times F(7) && = T(2) \times T(5) + T(6) - T(7) \\
&:= F(3) - F(4) \times (F(1) - F(7)) && = T(3) \times (T(4) + T(1)) - T(7) \\
&:= F(4) - F(5) \times (F(2) - F(6)) && = -T(4) - T(5) + T(2) \times T(6)
\end{aligned}$$

$$\begin{aligned}
\mathbf{39} &:= -F(1) \times F(6) + F(7) + F(9) && = T(1) + T(6) - T(7) + T(9) \\
&:= F(1) + F(2) + F(4) + F(9) && = T(1) + T(2) - T(4) + T(9) \\
&:= (-F(1) - F(2) + F(5)) \times F(7) && = -T(1) - T(2) + T(5) + T(7) \\
&:= (-F(2) \times F(3) + F(5)) \times F(7) && = (T(2) - T(3)) \times (T(5) - T(7)) \\
&:= F(2) \times F(7) + F(8) + F(5) && = T(2) \times (-T(7) + T(8)) + T(5) \\
&:= (F(2) + F(5)) \times F(4) + F(8) && = T(2) \times (T(5) + T(4)) - T(8) \\
&:= (-F(2) + F(3)) \times F(5) + F(9) && = T(2) + T(3) - T(5) + T(9)
\end{aligned}$$

$$\begin{aligned}
\mathbf{39} &:= (F(3) - F(1)) \times F(5) + F(9) && = T(3) \times (-T(1) + T(5)) - T(9) \\
&:= -F(4) + F(6) + F(7) + F(8) && = T(4) + T(6) - T(7) + T(8) \\
&:= (F(5) + F(2) - F(4)) \times F(7) && = -T(5) + T(2) \times (-T(4) + T(7)) \\
&:= -F(1) \times F(2) + F(5) \times F(6) && = (T(1) + T(2)) \times T(5) - T(6) \\
&:= F(2) \times F(4) \times (-F(8) + F(9)) && = T(2) \times T(4) - T(8) + T(9) \\
&:= (F(2) + F(3)) \times (F(5) + F(6)) && = -T(2) + T(3) + T(5) + T(6) \\
&:= (F(2) + F(3)) \times (-F(6) + F(8)) && = -T(2) \times T(3) + T(6) + T(8) \\
&:= (F(3) - F(4)) + F(5) \times F(6) && = (-T(3) + T(4)) \times T(5) - T(6)
\end{aligned}$$

$$\begin{aligned}
\mathbf{39} &:= -F(4) \times F(1) + F(3) \times F(8) && = T(4) - T(1) - T(3) + T(8) \\
&:= (F(5) - F(3)) \times (-F(8) + F(9)) && = -T(5) + T(3) \times (-T(8) + T(9)) \\
&:= -F(1) + (F(3) + F(4)) \times F(6) && = T(1) \times T(3) \times T(4) - T(6) \\
&:= -F(1) + F(3) \times (-F(2) + F(8)) && = T(1) \times T(3) - T(2) + T(8) \\
&:= -F(2) + F(6) \times (F(4) + F(3)) && = T(2) \times (T(6) - T(4)) + T(3) \\
&:= F(4) \times (F(5) - F(7) + F(8)) && = -T(4) - T(5) + T(7) + T(8) \\
&:= F(4) + F(3) \times (F(5) + F(7)) && = -T(4) + T(3) + T(5) + T(7) \\
&:= -F(5) + F(3) \times (F(1) + F(8)) && = T(5) \times (T(3) - T(1)) - T(8) \\
&:= -F(5) + F(3) \times (F(2) + F(8)) && = -T(5) + T(3) \times T(2) + T(8)
\end{aligned}$$

$$\begin{aligned}
\mathbf{40} &:= (F(1) \times F(3) + F(4)) \times F(6) && = T(1) + T(3) \times T(4) - T(6) \\
&:= F(1) + F(3) + F(4) + F(9) && = -T(1) + T(3) - T(4) + T(9) \\
&:= (F(1) + F(6)) \times F(4) + F(7) && = T(1) + T(6) - T(4) + T(7)
\end{aligned}$$

$$:= (-F(3)+F(4)) \times F(5) \times F(6) \quad = -T(3)+T(4)+T(5)+T(6)$$
$$:= F(4) \times F(6) - F(5) + F(8) \quad = T(4) - T(6) + T(5) + T(8)$$
$$:= (F(4) \times F(7) - F(9)) \times F(6) \quad = T(4) \times (T(7) - T(9) + T(6))$$
$$:= F(1) \times F(2) + F(4) \times F(7) \quad = -T(1) + T(2) + T(4) + T(7)$$

$$\mathbf{40} := -F(1) - F(2) + F(3) \times F(8) \quad = T(1) - T(2) + T(3) + T(8)$$
$$:= F(1) - F(4) + F(3) \times F(8) \quad = T(1) \times T(4) - T(3) + T(8)$$
$$:= -F(2) + F(3) + F(4) \times F(7) \quad = T(2) \times (-T(3) + T(4)) + T(7)$$
$$:= F(4) \times (F(2) + F(6)) + F(7) \quad = T(4) \times (-T(2) - T(6) + T(7))$$
$$:= (F(4) - F(5)) \times (F(1) - F(8)) \quad = -T(4) + T(5) - T(1) + T(8)$$
$$:= F(1) + (F(2) + F(3)) \times F(7) \quad = (-T(1) + T(2)) \times T(3) + T(7)$$
$$:= F(2) - (F(3) - F(5)) \times F(7) \quad = T(2) - T(3) + T(5) + T(7)$$
$$:= F(3) \times (-F(2) + F(6) + F(7)) \quad = -T(3) - T(2) + T(6) + T(7)$$

$$\mathbf{41} := (F(1) + F(4)) \times F(5) + F(8) \quad = -T(1) \times T(4) + T(5) + T(8)$$
$$:= -F(1) + F(4) + F(5) + F(9) \quad = T(1) + T(4) - T(5) + T(9)$$
$$:= F(4) \times F(5) - F(6) + F(9) \quad = -T(4) - T(5) + T(6) + T(9)$$
$$:= F(1) + F(3) \times F(4) + F(9) \quad = T(1) \times T(3) - T(4) + T(9)$$
$$:= -F(1) + F(3) + F(5) \times F(6) \quad = -T(1) + T(3) + T(5) + T(6)$$
$$:= F(2) \times F(3) + F(4) \times F(7) \quad = -T(2) + T(3) + T(4) + T(7)$$
$$:= -F(1) + F(3) \times (F(6) + F(7)) \quad = -T(1) + T(3) \times (-T(6) + T(7))$$
$$:= -F(2) + (F(6) + F(7)) \times F(3) \quad = T(2) \times T(6) - T(7) + T(3)$$
$$:= F(3) - (F(5) - F(6)) \times F(7) \quad = T(3) \times T(5) - T(6) - T(7)$$
$$:= F(3) - F(4) \times (F(6) - F(8)) \quad = -T(3) - T(4) + T(6) + T(8)$$
$$:= -F(4) + F(3) \times (F(1) + F(8)) \quad = T(4) - T(3) + T(1) + T(8)$$

$$\mathbf{42} := (-F(1) \times F(2) + F(4)) \times F(8) \quad = -T(1) - T(2) + T(4) + T(8)$$
$$:= (-F(1) \times F(4) + F(5)) \times F(8) \quad = T(1) - T(4) + T(5) + T(8)$$
$$:= F(1) \times F(6) + F(7) + F(8) \quad = -T(1) - T(6) + T(7) + T(8)$$
$$:= (F(1) + F(4)) \times F(3) + F(9) \quad = T(1) - T(4) + T(3) + T(9)$$
$$:= (-F(1) - F(5) + F(6)) \times F(8) \quad = -T(1) \times T(5) + T(6) + T(8)$$
$$:= (-F(2) - F(3) + F(5)) \times F(8) \quad = -T(2) - T(3) + T(5) + T(8)$$
$$:= F(2) + F(3) + F(5) + F(9) \quad = -T(2) \times T(3) + T(5) + T(9)$$

$$\mathbf{42} := (F(2) + F(4) - F(3)) \times F(8) \quad = (T(2) + T(4)) \times T(3) - T(8)$$
$$:= (-F(2) + F(6) - F(5)) \times F(8) \quad = T(2) \times T(6) + T(5) - T(8)$$
$$:= (-F(2) + F(3)) \times F(6) + F(9) \quad = T(2) \times T(3) - T(6) + T(9)$$
$$:= F(3) \times F(7) - F(5) + F(8) \quad = T(3) \times (T(7) + T(5) - T(8))$$
$$:= -F(3) - F(4) + F(7) + F(9) \quad = T(3) \times (-T(4) - T(7) + T(9))$$
$$:= (-F(4) + F(5)) \times F(2) \times F(8) \quad = T(4) \times T(5) - T(2) \times T(8)$$

$$:= F(4)+F(7)-F(6)+F(9) \quad = -T(4)+T(7)-T(6)+T(9)$$
$$:= (-F(6)-F(4)+F(7))\times F(8) \quad = T(6)\times(T(4)+T(7)-T(8))$$
$$:= F(1)\times F(3)\times(F(6)+F(7)) \quad = -T(1)-T(3)+T(6)+T(7)$$

$$\mathbf{42} := F(1)\times F(3)+F(5)\times F(6) \quad = (T(1)+T(3))\times(-T(5)+T(6))$$
$$:= F(1)+F(3)+F(4)\times F(7) \quad = ((T(1)+T(3))\times T(4))-T(7)$$
$$:= F(2)\times F(3)+F(5)\times F(6) \quad = T(2)\times(T(3)+T(5))-T(6)$$
$$:= (F(2)+F(1))\times(-F(7)+F(9)) \quad = T(2)\times(T(1)+T(7))-T(9)$$
$$:= (-F(2)+F(4))\times(F(6)+F(7)) \quad = T(2)-T(4)+T(6)+T(7)$$
$$:= -F(2)+F(4)+F(5)\times F(6) \quad = (-T(2)-T(4)+T(5))\times T(6)$$
$$:= F(3)\times F(4)\times(-F(2)+F(6)) \quad = T(3)\times T(4)+T(2)-T(6)$$
$$:= (F(4)-F(5))\times(F(7)-F(9)) \quad = T(4)+T(5)-T(7)+T(9)$$
$$:= F(3)\times(F(6)\times F(2)+F(7)) \quad = T(3)\times T(6)-T(2)\times T(7)$$

$$\mathbf{43} := F(1)+F(6)+F(7)+F(8) \quad = -T(1)\times T(6)+T(7)+T(8)$$
$$:= F(2)+F(4)+F(5)+F(9) \quad = T(2)+T(4)-T(5)+T(9)$$
$$:= -F(2)-F(4)+F(7)+F(9) \quad = -T(2)\times T(4)+T(7)+T(9)$$
$$:= F(2)\times F(4)+F(5)\times F(6) \quad = -T(2)+T(4)+T(5)+T(6)$$
$$:= -F(2)+F(5)+F(4)\times F(7) \quad = T(2)\times(T(5)-T(4))+T(7)$$
$$:= F(1)-(F(2)-F(4))\times F(8) \quad = -T(1)\times T(2)+T(4)+T(8)$$
$$:= F(1)+F(3)\times(F(6)+F(7)) \quad = -T(1)\times T(3)+T(6)+T(7)$$
$$:= F(4)-F(3)\times(F(2)-F(8)) \quad = T(4)-T(3)+T(2)+T(8)$$

$$\mathbf{44} := F(1)\times F(3)\times F(5)+F(9) \quad = -T(1)+T(3)\times T(5)-T(9)$$
$$:= F(3)+F(4)+F(5)+F(9) \quad = -T(3)-T(4)+T(5)+T(9)$$
$$:= (-F(3)+F(6))\times F(7)-F(9) \quad = T(3)+T(6)-T(7)+T(9)$$
$$:= F(1)+F(2)+F(3)\times F(8) \quad = -T(1)+T(2)+T(3)+T(8)$$
$$:= (-F(1)+F(4))\times(F(2)+F(8)) \quad = T(1)+T(4)-T(2)+T(8)$$
$$:= (F(1)+F(4))\times(-F(3)+F(7)) \quad = T(1)\times T(4)+T(3)+T(7)$$
$$:= -F(2)+F(4)\times F(6)+F(8) \quad = -T(2)-T(4)+T(6)+T(8)$$

$$\mathbf{44} := (F(2)-F(5))\times(F(3)-F(7)) \quad = (-T(2)+T(5))\times T(3)-T(7)$$
$$:= -F(4)+F(3)\times F(9)-F(8) \quad = -T(4)+T(3)\times(T(9)-T(8))$$
$$:= (-F(4)+F(5))\times(F(2)+F(8)) \quad = -T(4)+T(5)+T(2)+T(8)$$
$$:= F(3)-(F(2)-F(4))\times F(8) \quad = T(3)\times T(2)-T(4)+T(8)$$
$$:= F(3)\times(F(1)+F(6)+F(7)) \quad = -T(3)+T(1)+T(6)+T(7)$$
$$:= F(3)+(F(5)-F(4))\times F(8) \quad = T(3)\times T(5)-T(4)-T(8)$$

$$\mathbf{45} := (F(1)+F(3))\times F(4)\times F(5) \quad = (-T(1)-T(3)+T(4))\times T(5)$$
$$:= (F(1)+F(6))\times F(2)\times F(5) \quad = (-T(1)+T(6))\times T(2)-T(5)$$

$$:= F(2) \times F(4) \times F(6) + F(8) \qquad = T(2) \times T(4) - T(6) + T(8)$$
$$:= (F(2) + F(3)) \times F(4) \times F(5) \qquad = (T(2) + T(3)) \times (-T(4) + T(5))$$
$$:= (F(2) + F(3)) \times F(6) + F(8) \qquad = (T(2) - T(3)) \times (T(6) - T(8))$$
$$:= (-F(2) + F(9)) \times F(3) - F(8) \qquad = T(2) \times (T(9) + T(3) - T(8))$$
$$:= (-F(2) + F(3) + F(6)) \times F(5) \qquad = T(2) + T(3) + T(6) + T(5)$$

$$\mathbf{45} := (-F(2) + F(8)) \times F(3) + F(5) \qquad = T(2) \times (T(8) - T(3) - T(5))$$
$$:= -F(3) \times F(2) + F(7) + F(9) \qquad = T(3) + T(2) \times T(7) - T(9)$$
$$:= F(3) \times F(4) + F(5) + F(9) \qquad = (T(3) + T(4) - T(5)) \times T(9)$$
$$:= F(3) \times F(5) + F(2) + F(9) \qquad = -T(3) \times T(5) + T(2) \times T(9)$$
$$:= F(3) \times F(6) - F(5) + F(9) \qquad = T(3) - T(6) + T(5) + T(9)$$
$$:= -F(3) - F(6) + F(8) + F(9) \qquad = T(3) \times T(6) - T(8) - T(9)$$
$$:= (F(4) + F(2)) \times F(6) + F(7) \qquad = T(4) + T(2) \times T(6) - T(7)$$
$$:= -F(5) \times F(3) + F(8) + F(9) \qquad = T(5) \times (-T(3) - T(8) + T(9))$$

$$\mathbf{45} := F(1) + F(3) \times F(5) + F(9) \qquad = T(1) \times T(3) \times T(5) - T(9)$$
$$:= F(3) \times (-F(1) + F(9)) - F(8) \qquad = (T(3) - T(1)) \times (T(9) - T(8))$$
$$:= (F(3) + F(4)) \times (F(1) + F(6)) \qquad = T(3) \times (T(4) + T(1)) - T(6)$$
$$:= (F(3) + F(4)) \times (F(2) + F(6)) \qquad = -T(3) + T(4) \times T(2) + T(6)$$
$$:= -F(3) + F(6) + F(4) \times F(7) \qquad = T(3) + T(6) - T(4) + T(7)$$
$$:= F(4) \times (F(3) - F(6) + F(8)) \qquad = T(4) \times T(3) + T(6) - T(8)$$
$$:= -F(4) + (F(1) + F(5)) \times F(6) \qquad = T(4) - T(1) + T(5) + T(6)$$
$$:= F(5) - F(3) \times (F(1) - F(8)) \qquad = (T(5) - T(3)) \times T(1) + T(8)$$

$$\mathbf{46} := (F(1) + F(5)) \times F(3) + F(9) \qquad = T(1) + T(5) \times T(3) - T(9)$$
$$:= F(1) + F(4) \times F(6) + F(8) \qquad = -T(1) - T(4) + T(6) + T(8)$$
$$:= -F(1) + F(5) + F(3) \times F(8) \qquad = T(1) + T(5) - T(3) + T(8)$$
$$:= -F(2) + F(3) \times F(7) + F(8) \qquad = -T(2) \times T(3) + T(7) + T(8)$$
$$:= F(4) \times F(3) + F(5) \times F(6) \qquad = T(4) - T(3) \times (T(5) - T(6))$$

$$\mathbf{47} := F(1) \times F(3) \times F(7) + F(8) \qquad = -T(1) + T(3) \times (-T(7) + T(8))$$
$$:= (F(1) + F(2)) \times F(7) + F(8) \qquad = -T(1) + T(2) \times T(7) - T(8)$$
$$:= -F(1) + (F(5) + F(2)) \times F(6) \qquad = -T(1) - T(5) + T(2) \times T(6)$$
$$:= -F(2) + F(6) \times F(3) \times F(4) \qquad = T(2) \times T(6) - T(3) - T(4)$$
$$:= F(5) + (F(1) + F(2)) \times F(8) \qquad = T(5) - T(1) - T(2) + T(8)$$
$$:= -F(5) + (F(4) + F(2)) \times F(7) \qquad = (T(5) + T(4)) \times T(2) - T(7)$$

$$\mathbf{48} := (F(1) + F(5)) \times F(2) \times F(6) \qquad = -T(1) \times T(5) + T(2) \times T(6)$$
$$:= (F(1) + F(6)) \times F(4) + F(8) \qquad = T(1) + T(6) - T(4) + T(8)$$
$$:= F(2) \times F(1) + F(7) + F(9) \qquad = T(2) \times (-T(1) - T(7) + T(9))$$

$$:= (F(2)+F(1))\times F(4)\times F(6) \quad = T(2)\times(-T(1)+T(4))+T(6)$$
$$:= F(2)+F(5)+F(6)+F(9) \quad = -T(2)-T(5)+T(6)+T(9)$$
$$:= (F(2)+F(6))\times F(5)+F(4) \quad = T(2)\times(T(6)-T(5)+T(4))$$
$$:= (-F(2)+F(3)+F(5))\times F(6) \quad = T(2)\times(-T(3)+T(5))+T(6)$$
$$:= (-F(2)+F(8))\times F(3)+F(6) \quad = -T(2)+T(8)-T(3)+T(6)$$

48 $:= F(3)\times F(9)+F(1)-F(8) \quad = T(3)\times(T(9)-T(1)-T(8))$
$$:= (F(3)+F(2)+F(4))\times F(6) \quad = T(3)\times(-T(2)-T(4)+T(6))$$
$$:= (-F(3)-F(5)+F(7))\times F(6) \quad = T(3)\times(T(5)-T(7)+T(6))$$
$$:= F(5)\times F(6)-F(7)+F(8) \quad = (T(5)-T(6))\times(T(7)-T(8))$$
$$:= -F(6)+F(2)+F(8)+F(9) \quad = T(6)-T(2)\times(T(8)-T(9))$$
$$:= F(1)+F(3)\times F(7)+F(8) \quad = T(1)\times T(3)\times(-T(7)+T(8))$$
$$:= (F(1)+F(2))\times(F(4)+F(8)) \quad = -T(1)+T(2)+T(4)+T(8)$$
$$:= (F(1)+F(5))\times(-F(7)+F(8)) \quad = -T(1)-T(5)+T(7)+T(8)$$
$$:= F(1)+F(5)+F(3)\times F(8) \quad = (-T(1)+T(5))\times T(3)-T(8)$$

48 $:= F(2)\times F(3)\times(F(4)+F(8)) \quad = T(2)\times(-T(3)+T(4))+T(8)$
$$:= F(2)+F(3)\times F(7)+F(8) \quad = (-T(2)+T(3))\times T(7)-T(8)$$
$$:= (F(2)+F(3))\times(-F(5)+F(8)) \quad = T(2)-T(3)+T(5)+T(8)$$
$$:= F(3)\times(-F(2)+F(6))+F(9) \quad = -T(3)\times T(2)+T(6)+T(9)$$
$$:= F(3)\times F(4)\times(-F(7)+F(8)) \quad = -T(3)-T(4)+T(7)+T(8)$$
$$:= (F(3)+F(2))\times(F(4)+F(7)) \quad = -T(3)+T(2)\times(-T(4)+T(7))$$
$$:= (F(4)+F(1))\times(-F(2)+F(7)) \quad = T(4)\times(-T(1)+T(2))+T(7)$$
$$:= F(5)\times(F(6)-F(2))+F(7) \quad = -T(5)-T(6)+T(2)\times T(7)$$
$$:= F(3)\times(-F(5)+F(6)+F(8)) \quad = T(3)-T(5)+T(6)+T(8)$$
$$:= F(4)\times(-F(5)-F(7)+F(9)) \quad = -T(4)-T(5)+T(7)+T(9)$$

49 $:= (F(1)\times F(4))\times F(5)+F(9) \quad = -T(1)-T(4)+T(5)+T(9)$
$$:= (F(1)+F(7))\times F(5)-F(8) \quad = T(1)\times T(7)-T(5)+T(8)$$
$$:= (-F(2)+F(5))\times F(7)-F(4) \quad = T(2)\times(-T(5)+T(7))+T(4)$$
$$:= -F(2)+F(7)+F(4)+F(9) \quad = T(2)\times T(7)+T(4)-T(9)$$
$$:= F(1)+F(3)\times F(4)\times F(6) \quad = (T(1)+T(3))\times T(4)-T(6)$$
$$:= F(1)+(F(5)+F(2))\times F(6) \quad = T(1)-T(5)+T(2)\times T(6)$$
$$:= F(2)+F(3)\times(F(4)+F(8)) \quad = -T(2)+T(3)+T(4)+T(8)$$

50 $:= (F(2)\times F(4))\times F(8)-F(7) \quad = T(2)\times(-T(4)+T(8))-T(7)$
$$:= (-F(2)+F(4))\times F(8)+F(6) \quad = (T(2)-T(4))+T(8)+T(6)$$
$$:= (F(4)-F(1)+F(6))\times F(5) \quad = T(4)\times(-T(1)+T(6)-T(5))$$
$$:= F(4)-F(6)+F(8)+F(9) \quad = -T(4)-T(6)+T(8)+T(9)$$
$$:= F(1)\times F(6)+F(3)\times F(8) \quad = -T(1)+T(6)-T(3)+T(8)$$

$$:= F(1) + F(4) \times F(5) + F(9) \qquad = -T(1) \times T(4) + T(5) + T(9)$$
$$:= F(2) \times F(5) \times (-F(4) + F(7)) \qquad = -T(2) + T(5) + T(4) + T(7)$$
$$:= -F(3) + (-F(1) + F(5)) \times F(7) \qquad = T(3) + T(1) + T(5) + T(7)$$
$$:= -F(3) + (F(2) + F(4)) \times F(7) \qquad = T(3) \times (T(2) + T(4)) - T(7)$$

51 $$:= -F(2) - F(4) + F(8) + F(9) \qquad = -T(2) \times T(4) + T(8) + T(9)$$
$$:= F(1) + F(6) + F(3) \times F(8) \qquad = T(1) \times T(6) - T(3) + T(8)$$
$$:= (F(2) + F(3) \times F(6)) \times F(4) \qquad = T(2) \times (T(3) + T(6) - T(4))$$
$$:= F(2) + F(6) + F(8) \times F(3) \qquad = T(2) \times (-T(6) + T(8)) + T(3)$$
$$:= F(2) - F(7) + F(4) \times F(8) \qquad = -T(2) + T(7) - T(4) + T(8)$$
$$:= -F(2) + (F(1) + F(4)) \times F(7) \qquad = T(2) \times (-T(1) - T(4) + T(7))$$
$$:= -F(2) + F(3) \times (F(5) + F(8)) \qquad = -T(2) + T(3) \times T(5) - T(8)$$
$$:= F(2) + F(5) \times (F(3) + F(6)) \qquad = ((-T(2) + T(5)) \times T(3)) - T(6)$$
$$:= F(4) \times (F(2) - F(5) + F(8)) \qquad = ((T(4) \times T(2)) - T(5)) + T(8)$$

52 $$:= (-F(1) \times F(2) + F(5)) \times F(7) \qquad = (T(1) + T(2)) \times (-T(5) + T(7))$$
$$:= (F(2) - F(3) + F(5)) \times F(7) \qquad = T(2) + T(3) + T(5) + T(7)$$
$$:= (-F(2) + F(4) + F(3)) \times F(7) \qquad = T(2) \times T(4) - T(3) + T(7)$$
$$:= (F(2) - F(5) + F(6)) \times F(7) \qquad = T(2) \times T(5) - T(6) + T(7)$$
$$:= (F(3) + F(5) - F(4)) \times F(7) \qquad = T(3) \times T(5) - T(4) - T(7)$$
$$:= F(5) \times F(7) + F(8) - F(9) \qquad = T(5) + T(7) - T(8) + T(9)$$
$$:= F(3) + F(4) \times F(8) - F(7) \qquad = T(3) \times T(4) - T(8) + T(7)$$
$$:= F(3) \times (F(5) - F(7) + F(9)) \qquad = -T(3) - T(5) + T(7) + T(9)$$
$$:= F(6) + F(3) \times (F(1) + F(8)) \qquad = T(6) - T(3) + T(1) + T(8)$$

53 $$:= -F(1) \times F(3) + F(8) + F(9) \qquad = -T(1) + T(3) \times (-T(8) + T(9))$$
$$:= F(2) + F(8) - F(4) + F(9) \qquad = T(2) \times T(8) - T(4) - T(9)$$
$$:= (F(3) + F(4)) \times F(6) + F(7) \qquad = T(3) \times T(4) + T(6) - T(7)$$
$$:= -F(3) + F(6) + F(7) + F(9) \qquad = T(3) \times T(6) - T(7) - T(9)$$
$$:= -F(3) - F(6) + F(4) \times F(8) \qquad = T(3) + T(6) - T(4) + T(8)$$
$$:= F(1) + (F(2) + F(4)) \times F(7) \qquad = -T(1) + T(2) \times (-T(4) + T(7))$$
$$:= F(1) + F(3) \times (F(5) + F(8)) \qquad = -T(1) + T(3) \times T(5) - T(8)$$
$$:= -F(1) + F(4) \times (F(5) + F(7)) \qquad = T(1) \times T(4) + T(5) + T(7)$$
$$:= -F(7) + F(4) \times (F(1) + F(8)) \qquad = T(7) - T(4) - T(1) + T(8)$$

54 $$:= -F(1) \times F(2) + F(9) + F(8) \qquad = (-T(1) + T(2)) \times T(9) - T(8)$$
$$:= F(1) - F(3) + F(8) + F(9) \qquad = T(1) \times T(3) \times (-T(8) + T(9))$$
$$:= (F(2) - F(6) + F(9)) \times F(3) \qquad = T(2) \times (-T(6) + T(9) - T(3))$$
$$:= F(3) \times F(8) - F(1) + F(7) \qquad = T(3) \times (T(8) + T(1) - T(7))$$
$$:= (F(2) + F(3)) \times (-F(4) + F(8)) \qquad = (T(2) + T(3)) \times T(4) - T(8)$$

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Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

$$:= -F(2) + F(7) + F(3) \times F(8) \qquad = T(2) \times T(7) + T(3) - T(8)$$
$$:= F(3) \times F(4) \times (F(2) + F(6)) \qquad = T(3) \times (T(4) \times T(2) - T(6))$$

54 $:= (F(3) - F(5)) \times (F(4) - F(8)) \qquad = (-T(3) + T(5)) \times T(4) - T(8)$
$:= -F(4) - F(6) + F(5) \times F(7) \qquad = -T(4) + T(6) + T(5) + T(7)$
$:= -F(1) + (F(4) + F(6)) \times F(5) \qquad = (T(1) - T(4)) \times (-T(6) + T(5))$
$:= -F(2) + F(5) \times (F(4) + F(6)) \qquad = T(2) \times (T(5) + T(4)) - T(6)$
$:= F(3) \times (F(1) + F(5) + F(8)) \qquad = T(3) \times T(1) \times T(5) - T(8)$
$:= F(3) \times (F(2) + F(5) + F(8)) \qquad = T(3) - T(2) + T(5) + T(8)$
$:= F(3) + (F(2) + F(4)) \times F(7) \qquad = (T(3) - T(2)) \times (-T(4) + T(7))$
$:= F(4) \times (F(3) \times F(5) + F(6)) \qquad = T(4) \times T(3) + T(5) - T(6)$

55 $:= (-F(1) + F(3)) \times F(8) + F(9) \qquad = T(1) - T(3) \times (T(8) - T(9))$
$:= (-F(1) + F(6)) \times F(4) + F(9) \qquad = -T(1) + T(6) - T(4) + T(9)$
$:= F(2) \times F(6) + F(7) + F(9) \qquad = T(2) - T(6) + T(7) + T(9)$
$:= (F(3) + F(5)) \times F(4) + F(9) \qquad = T(3) \times T(5) + T(4) - T(9)$
$:= F(4) \times F(2) \times F(8) - F(6) \qquad = T(4) + T(2) \times (T(8) - T(6))$
$:= F(2) \times F(5) \times (-F(3) + F(7)) \qquad = T(2) \times (T(5) - T(3)) + T(7)$
$:= F(2) \times F(7) + F(3) \times F(8) \qquad = -T(2) + T(7) - T(3) + T(8)$
$:= -F(7) \times F(2) + F(3) \times F(9) \qquad = T(7) - T(2) \times T(3) + T(9)$
$:= F(4) + F(3) \times (F(5) + F(8)) \qquad = T(4) - T(3) + T(5) + T(8)$
$:= F(5) \times (F(4) \times F(6) - F(7)) \qquad = -T(5) + T(4) \times (-T(6) + T(7))$
$:= F(7) - (F(1) - F(4)) \times F(8) \qquad = T(7) + T(1) - T(4) + T(8)$

56 $:= (-F(2) + F(5) + F(4)) \times F(6) \qquad = T(2) \times T(5) - T(4) + T(6)$
$:= (-F(4) + F(8)) \times F(5) - F(9) \qquad = -T(4) + T(8) - T(5) + T(9)$
$:= F(1) + F(3) \times F(8) + F(7) \qquad = (T(1) + T(3)) \times (T(8) - T(7))$
$:= F(1) - F(5) \times (F(3) - F(7)) \qquad = (-T(1) + T(5)) \times T(3) - T(7)$
$:= F(6) \times (-F(3) \times F(4) + F(7)) \qquad = T(6) \times (-T(3) + T(4)) - T(7)$

57 $:= F(2) \times F(3) + F(8) + F(9) \qquad = T(2) - T(3) \times (T(8) - T(9))$
$:= -F(2) + F(4) + F(8) + F(9) \qquad = T(2) \times (T(4) - T(8) + T(9))$
$:= (-F(2) + F(7)) \times F(4) + F(8) \qquad = T(2) + T(7) - T(4) + T(8)$
$:= F(3) \times F(7) - F(4) + F(9) \qquad = -T(3) + T(7) - T(4) + T(9)$
$:= -F(1) + F(4) \times F(6) + F(9) \qquad = T(1) - T(4) + T(6) + T(9)$
$:= -F(2) + F(3) \times (-F(5) + F(9)) \qquad = T(2) - T(3) + T(5) + T(9)$
$:= F(5) - F(3) \times (F(6) - F(9)) \qquad = -T(5) + T(3) + T(6) + T(9)$
$:= F(7) + F(3) \times (F(1) + F(8)) \qquad = T(7) - T(3) - T(1) + T(8)$
$:= -F(7) + F(3) \times (F(2) + F(9)) \qquad = (T(7) + T(3)) \times T(2) - T(9)$

$$
\begin{aligned}
\mathbf{58} &:= F(3)\times F(8)+F(7)+F(4) && = T(3)\times(T(8)-T(7))+T(4)\\
&:= (F(1)+F(2))\times(-F(5)+F(9)) && = T(1)-T(2)+T(5)+T(9)\\
&:= -F(2)\times F(5)+F(4)\times F(8) && = -T(2)+T(5)+T(4)+T(8)\\
&:= F(3)\times(F(6)-F(7)+F(9)) && = T(3)-T(6)+T(7)+T(9)\\
&:= F(4)-F(5)\times(F(3)-F(7)) && = (-T(4)+T(5))\times T(3)+T(7)\\
&:= -F(5)+(F(1)+F(3))\times F(8) && = T(5)+T(1)+T(3)+T(8)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{59} &:= (F(4)+F(7))\times F(5)-F(8) && = T(4)+T(7)-T(5)+T(8)\\
&:= -F(1)-F(6)+F(3)\times F(9) && = -T(1)+T(6)-T(3)+T(9)\\
&:= F(2)+F(4)\times F(6)+F(9) && = T(2)-T(4)+T(6)+T(9)\\
&:= -F(3)\times F(4)+F(5)\times F(7) && = T(3)+T(4)+T(5)+T(7)\\
&:= F(6)\times(-F(4)+F(7))-F(8) && = -T(6)+T(4)\times(-T(7)+T(8))\\
&:= F(4)+(F(3)+F(5))\times F(6) && = -T(4)+T(3)\times T(5)-T(6)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{60} &:= (F(1)+F(4)+F(6))\times F(5) && = T(1)\times T(4)\times(T(6)-T(5))\\
&:= (-F(2)+F(4))\times F(7)+F(9) && = -T(2)-T(4)+T(7)+T(9)\\
&:= (-F(2)+F(5))\times F(7)+F(6) && = T(2)\times(-T(5)+T(7))+T(6)\\
&:= F(4)\times F(6)+F(3)+F(9) && = -T(4)\times T(6)+T(3)\times T(9)\\
&:= F(5)+F(6)+F(7)+F(9) && = T(5)\times(T(6)+T(7)-T(9))\\
&:= -F(1)\times F(6)+F(3)\times F(9) && = T(1)\times T(6)-T(3)+T(9)\\
&:= -F(2)+F(5)\times F(6)+F(8) && = T(2)\times T(5)-T(6)+T(8)\\
&:= -F(2)+F(3)+F(4)\times F(8) && = T(2)\times(-T(3)-T(4)+T(8))\\
&:= (F(2)+F(4))\times(F(7)+F(3)) && = T(2)\times(-T(4)+T(7))+T(3)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{60} &:= (F(2)+F(5))\times(F(3)+F(6)) && = T(2)\times T(5)-T(3)+T(6)\\
&:= (-F(2)+F(5))\times(F(7)+F(3)) && = (-T(2)-T(5)+T(7))\times T(3)\\
&:= (F(3)+F(1))\times(-F(2)+F(8)) && = T(3)\times(T(1)+T(2))+T(8)\\
&:= (F(3)-F(5))\times(F(1)-F(8)) && = T(3)\times(T(5)+T(1))-T(8)\\
&:= (F(3)-F(5))\times(F(2)-F(8)) && = T(3)+T(5)+T(2)+T(8)\\
&:= F(7)\times(F(3)+F(2))+F(8) && = T(7)\times T(3)-T(2)\times T(8)\\
&:= F(3)\times(-F(1)-F(4)+F(9)) && = T(3)-T(1)+T(4)+T(9)\\
&:= F(3)\times(F(1)-F(5)+F(9)) && = (T(3)+T(1))\times T(5)-T(9)\\
&:= F(3)\times(F(2)+F(6)+F(8)) && = T(3)-T(2)+T(6)+T(8)\\
&:= -F(6)+(-F(4)+F(5))\times F(9) && = T(6)\times(-T(4)+T(5))-T(9)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{61} &:= (F(2)+F(5))\times F(6)+F(7) && = -T(2)+T(5)+T(6)+T(7)\\
&:= (F(3)+F(4))\times F(6)+F(8) && = -T(3)+T(4)+T(6)+T(8)\\
&:= F(1)-F(6)+F(3)\times F(9) && = T(1)+T(6)-T(3)+T(9)\\
&:= -F(1)+F(3)\times(-F(4)+F(9)) && = T(1)\times T(3)+T(4)+T(9)\\
&:= -F(5)+F(4)\times(F(1)+F(8)) && = T(5)+T(4)\times T(1)+T(8)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{62} &:= -F(1)\times F(2)+F(8)\times F(4) && = (-T(1)+T(2))\times T(8)-T(4)\\
&:= F(1)\times F(3)\times(-F(4)+F(9)) && = T(1)+T(3)+T(4)+T(9)\\
&:= -F(1)-F(3)+F(5)\times F(7) && = T(1)\times T(3)\times T(5)-T(7)\\
&:= -F(1)+F(4)\times(-F(7)+F(9)) && = -T(1)-T(4)+T(7)+T(9)\\
&:= -F(2)+F(4)\times(F(6)+F(7)) && = T(2)+T(4)+T(6)+T(7)\\
&:= -F(3)+F(6)\times(-F(7)+F(8)) && = T(3)\times T(6)-T(7)-T(8)\\
&:= -F(4)+F(5)\times(-F(6)+F(8)) && = -T(4)+T(5)+T(6)+T(8)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{63} &:= (-F(1)-F(2)+F(5))\times F(8) && = T(1)\times T(2)\times(-T(5)+T(8))\\
&:= (F(1)+F(4)-F(2))\times F(8) && = (-T(1)+T(4))\times T(2)+T(8)\\
&:= (-F(2)\times F(3)+F(5))\times F(8) && = (T(2)-T(3))\times(T(5)-T(8))\\
&:= F(2)\times F(6)+F(8)+F(9) && = T(2)-T(6)+T(8)+T(9)\\
&:= F(3)\times F(7)+F(4)+F(9) && = T(3)\times(T(7)-T(4))-T(9)\\
&:= (-F(5)\times F(3)+F(7))\times F(8) && = T(5)-T(3)\times(T(7)-T(8))\\
&:= (F(5)+F(2)-F(4))\times F(8) && = -T(5)+T(2)\times(-T(4)+T(8))\\
&:= (F(6)+F(9))\times F(3)-F(8) && = T(6)\times(T(9)-T(3)-T(8))\\
&:= F(1)\times F(4)\times(F(6)+F(7)) && = (T(1)-T(4))\times(T(6)-T(7))\\
&:= F(1)\times F(4)\times(-F(7)+F(9)) && = -T(1)\times T(4)+T(7)+T(9)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{63} &:= -F(2)\times F(5)+F(3)\times F(9) && = (T(2)+T(5))\times T(3)-T(9)\\
&:= (F(2)+F(3))\times(F(6)+F(7)) && = (T(2)+T(3))\times(-T(6)+T(7))\\
&:= (F(3)+F(5))\times(F(1)+F(6)) && = T(3)\times(T(5)-T(1))-T(6)\\
&:= (-F(3)+F(5))\times(F(6)+F(7)) && = (T(3)-T(5))\times(T(6)-T(7))\\
&:= -F(4)+F(2)+F(5)\times F(7) && = -T(4)+T(2)\times T(5)+T(7)\\
&:= (F(5)+F(3))\times(F(2)+F(6)) && = (-T(5)+T(3)\times T(2))\times T(6)\\
&:= -F(1)+F(6)\times(-F(5)+F(7)) && = -T(1)+T(6)+T(5)+T(7)\\
&:= -F(2)+(F(4)+F(5))\times F(6) && = T(2)-T(4)\times(T(5)-T(6))\\
&:= -F(3)+F(5)\times F(2)\times F(7) && = -T(3)-T(5)+T(2)\times T(7)\\
&:= -F(5)+(F(1)+F(2))\times F(9) && = T(5)\times T(1)+T(2)+T(9)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{64} &:= F(3)\times F(4)\times F(5)+F(9) && = -T(3)+T(4)+T(5)+T(9)\\
&:= (-F(3)-F(4)+F(7))\times F(6) && = -T(3)+T(4)\times(T(7)-T(6))\\
&:= F(1)\times F(6)\times(-F(5)+F(7)) && = T(1)\times T(6)+T(5)+T(7)\\
&:= (F(1)+F(2))\times(-F(3)+F(9)) && = T(1)+T(2)\times T(3)+T(9)\\
&:= (F(2)+F(4))\times(-F(5)+F(8)) && = T(2)+T(4)+T(5)+T(8)\\
&:= -F(2)-F(4)+F(3)\times F(9) && = T(2)+T(4)+T(3)+T(9)\\
&:= -F(2)+F(3)+F(4)\times F(8) && = T(2)\times T(3)+T(4)+T(8)\\
&:= F(4)\times(F(8)+F(3))-F(5) && = T(4)-T(8)+T(3)\times T(5)\\
&:= F(1)-F(4)\times(F(7)-F(9)) && = T(1)-T(4)+T(7)+T(9)
\end{aligned}
$$

$$:= -F(2) + (F(4) + F(3)) \times F(7) \qquad = T(2) \times T(4) + T(3) + T(7)$$

$$\begin{aligned}
\mathbf{65} &:= (-F(1) + F(3)) \times F(5) \times F(7) && = (T(1) - T(3)) \times (T(5) - T(7)) \\
&:= (-F(2) \times F(4) + F(6)) \times F(7) && = T(2) \times (T(4) + T(6)) - T(7) \\
&:= (-F(2) + F(3)) \times F(5) \times F(7) && = T(2) + T(3) \times T(5) - T(7) \\
&:= F(1) \times F(5) \times (-F(8) + F(9)) && = -T(1) - T(5) + T(8) + T(9) \\
&:= F(1) + F(2) + F(4) \times F(8) && = -T(1) + T(2) \times T(4) + T(8) \\
&:= (F(3) + F(4)) \times (-F(8) + F(9)) && = -T(3) - T(4) + T(8) + T(9) \\
&:= F(5) + F(4) \times F(7) + F(8) && = -T(5) + T(4) \times (-T(7) + T(8)) \\
&:= F(1) - F(6) \times (F(5) - F(7)) && = T(1) + T(6) + T(5) + T(7) \\
&:= -F(4) + (F(1) + F(2)) \times F(9) && = -T(4) \times (T(1) - T(2)) + T(9) \\
&:= -F(5) + F(3) \times (F(1) + F(9)) && = T(5) + T(3) - T(1) + T(9)
\end{aligned}$$

$$\begin{aligned}
\mathbf{66} &:= -F(3) + F(7) + F(9) + F(8) && = T(3) \times (-T(7) + T(9)) - T(8) \\
&:= F(1) \times F(3) \times (-F(2) + F(9)) && = (T(1) + T(3)) \times T(2) + T(9) \\
&:= F(2) + F(3) + F(4) \times F(8) && = (-T(2) + T(3)) \times T(4) + T(8) \\
&:= (F(3) + F(1)) \times (F(2) + F(8)) && = -T(3) + (-T(1) + T(2)) \times T(8) \\
&:= -F(3) + F(5) + F(4) \times F(8) && = T(3) \times (-T(5) - T(4) + T(8)) \\
&:= F(1) - F(5) \times (F(8) - F(9)) && = -T(1) \times T(5) + T(8) + T(9) \\
&:= F(1) + F(7) \times F(2) \times F(5) && = (-T(1) + T(7)) \times T(2) - T(5) \\
&:= F(3) \times (-F(2) + F(7) + F(8)) && = T(3) \times (T(2) - T(7) + T(8)) \\
&:= F(3) + (F(4) + F(5)) \times F(6) && = T(3) \times T(4) - T(5) + T(6) \\
&:= F(4) \times (F(2) - F(7) + F(9)) && = -T(4) + T(2) + T(7) + T(9) \\
&:= F(6) - F(3) \times (F(5) - F(9)) && = T(6) \times T(3) - T(5) - T(9)
\end{aligned}$$

$$\begin{aligned}
\mathbf{67} &:= F(3) \times F(2) + F(5) \times F(7) && = -T(3) + T(2) \times T(5) + T(7) \\
&:= F(4) \times (-F(3) + F(7)) + F(9) && = (T(4) - T(3)) \times T(7) - T(9) \\
&:= -F(2) + (-F(4) + F(5)) \times F(9) && = -T(2) + T(4) + T(5) + T(9) \\
&:= -F(2) + F(3) \times (F(7) + F(8)) && = -T(2) + T(3) + T(7) + T(8) \\
&:= F(3) - (F(4) - F(6)) \times F(7) && = T(3) \times T(4) - T(6) + T(7)
\end{aligned}$$

$$\begin{aligned}
\mathbf{68} &:= (F(4) \times F(5) - F(7)) \times F(9) && = T(4) - T(5) + T(7) + T(9) \\
&:= F(3) + F(1) + F(5) \times F(7) && = T(3) \times (T(1) + T(5)) - T(7) \\
&:= F(3) \times (-F(5) + F(7) \times F(4)) && = T(3) \times (-T(5) + T(7)) - T(4) \\
&:= F(6) - F(4) \times (F(1) - F(8)) && = T(6) + T(4) + T(1) + T(8)
\end{aligned}$$

$$\begin{aligned}
\mathbf{69} &:= (F(2) + F(5)) \times F(6) + F(8) && = -T(2) + T(5) + T(6) + T(8) \\
&:= F(2) + F(7) + F(8) + F(9) && = T(2) \times (-T(7) + T(8)) + T(9) \\
&:= (F(6) - F(2)) \times F(5) + F(9) && = -T(6) + T(2) \times T(5) + T(9) \\
&:= F(2) + F(4) + F(5) \times F(7) && = T(2) \times (T(4) - T(5) + T(7))
\end{aligned}$$

$:= F(3) \times (F(9) - F(2)) + F(4)$ $= -T(3) + T(9) + T(2) \times T(4)$
$:= -F(3) - F(9) + F(8) \times F(5)$ $= T(3) \times (T(9) - T(8)) + T(5)$
$:= F(5) + F(2) + F(4) \times F(8)$ $= T(5) \times (-T(2) + T(4)) - T(8)$
$:= F(1) - (F(4) - F(5)) \times F(9)$ $= -T(1) + T(4) + T(5) + T(9)$
$:= F(1) + F(3) \times (F(7) + F(8))$ $= -T(1) + T(3) + T(7) + T(8)$
$:= -F(1) + F(5) \times (F(2) + F(7))$ $= -T(1) \times T(5) + T(2) \times T(7)$
$:= F(4) \times (F(3) - F(7) + F(9))$ $= -T(4) + T(3) + T(7) + T(9)$
$:= F(5) - F(6) \times (F(7) - F(8))$ $= T(5) \times (-T(6) + T(7)) - T(8)$

70 $:= (-F(1) + F(6)) \times F(3) \times F(5)$ $= T(1) - T(6) + T(3) \times T(5)$
$:= F(1) \times F(5) \times (F(2) + F(7))$ $= (-T(1) + T(5)) \times T(2) + T(7)$
$:= -F(2) + F(6) + F(4) \times F(8)$ $= T(2) + T(6) + T(4) + T(8)$
$:= (F(3) + F(4)) \times (F(2) + F(7))$ $= T(3) \times (T(4) - T(2)) + T(7)$
$:= F(4) + F(3) + F(5) \times F(7)$ $= T(4) \times (-T(3) - T(5) + T(7))$
$:= (-F(4) + F(5)) \times (F(1) + F(9))$ $= T(4) + T(5) \times T(1) + T(9)$
$:= (-F(4) + F(6)) \times (F(1) + F(7))$ $= T(4) \times (-T(6) \times T(1) + T(7))$
$:= F(6) - F(3) \times (F(4) - F(9))$ $= T(6) - T(3) + T(4) + T(9)$

71 $:= (F(2) + F(4)) \times F(8) - F(7)$ $= -T(2) + T(4) + T(8) + T(7)$
$:= -F(4) + F(5) \times F(6) + F(9)$ $= -T(4) + T(5) + T(6) + T(9)$
$:= F(4) \times (F(8) + F(2)) + F(5)$ $= -T(4) + T(8) + T(2) \times T(5)$
$:= F(1) + (F(2) + F(7)) \times F(5)$ $= (-T(1) + T(2)) \times T(7) + T(5)$

72 $:= (-F(2) + F(7)) \times F(3) \times F(4)$ $= T(2) \times (T(7) + T(3) - T(4))$
$:= (F(3) + F(1)) \times F(4) \times F(6)$ $= T(3) \times (T(1) - T(4) + T(6))$
$:= (F(1) + F(5)) \times (-F(2) + F(7))$ $= -T(1) + T(5) \times T(2) + T(7)$
$:= (-F(2) + F(3) \times F(5)) \times F(6)$ $= T(2) + T(3) \times T(5) - T(6)$
$:= F(2) + F(5) \times F(8) - F(9)$ $= T(2) \times (T(5) - T(8) + T(9))$
$:= (F(2) + F(3)) \times (F(4) + F(8))$ $= T(2) \times (T(3) \times T(4) - T(8))$
$:= (F(2) - F(5)) \times (F(4) - F(8))$ $= (-T(2) + T(5) - T(4)) \times T(8)$
$:= -F(2) + F(5) + F(3) \times F(9)$ $= T(2) \times (-T(5) - T(3) + T(9))$
$:= F(4) \times (F(3) + F(2)) \times F(6)$ $= (T(4) - T(3)) \times (-T(2) + T(6))$
$:= F(3) + F(5) \times (F(1) + F(7))$ $= T(3) \times (-T(5) - T(1) + T(7))$
$:= -F(4) + F(5) \times (F(3) + F(7))$ $= T(4) + T(5) \times T(3) - T(7)$

73 $:= (F(1) + F(4)) \times F(7) + F(8)$ $= -T(1) + T(4) + T(7) + T(8)$
$:= (-F(3) + F(5)) \times F(7) + F(9)$ $= T(3) \times T(5) + T(7) - T(9)$
$:= -F(2) + F(3) \times (F(4) + F(9))$ $= T(2) \times T(3) + T(4) + T(9)$
$:= F(5) - (F(2) - F(4)) \times F(9)$ $= T(5) + T(2) + T(4) + T(9)$
$:= -F(5) + F(3) \times F(4) \times F(7)$ $= -T(5) + T(3) \times T(4) + T(7)$

$$:= F(5) + F(3) \times (F(7) + F(8)) \qquad = T(5) - T(3) + T(7) + T(8)$$

$$\mathbf{74} := (-F(1) + F(8)) \times F(3) + F(9) \qquad = -T(1) + T(8) - T(3) + T(9)$$
$$:= (F(1) + F(2)) \times (F(4) + F(9)) \qquad = -T(1) + T(2) \times T(4) + T(9)$$
$$:= F(3) \times (F(4) + F(7) + F(8)) \qquad = -T(3) + T(4) \times (-T(7) + T(8))$$

$$\mathbf{75} := (F(2) \times F(3) + F(7)) \times F(5) \qquad = -T(2) + T(3) \times (T(7) - T(5))$$
$$:= F(3) \times F(8) - F(1) + F(9) \qquad = -T(3) + T(8) \times T(1) + T(9)$$
$$:= -F(1) + F(6) + F(3) \times F(9) \qquad = (-T(1) + T(6)) \times T(3) - T(9)$$
$$:= -F(1) + F(7) + F(4) \times F(8) \qquad = T(1) + T(7) + T(4) + T(8)$$
$$:= -F(2) + F(6) + F(3) \times F(9) \qquad = T(2) + T(6) + T(3) + T(9)$$
$$:= F(2) + F(3) \times (F(4) + F(9)) \qquad = (-T(2) + T(3)) \times T(4) + T(9)$$
$$:= F(4) \times (-F(1) - F(6) + F(9)) \qquad = T(4) - T(1) + T(6) + T(9)$$
$$:= F(4) \times (-F(6) - F(2) + F(9)) \qquad = T(4) \times T(6) - T(2) \times T(9)$$
$$:= F(5) \times (F(3) - F(6) + F(8)) \qquad = T(5) \times T(3) + T(6) - T(8)$$
$$:= F(5) \times (-F(1) + F(3) \times F(6)) \qquad = (T(5) + T(1)) \times T(3) - T(6)$$

$$\mathbf{76} := F(1) \times F(3) \times F(8) + F(9) \qquad = T(1) - T(3) + T(8) + T(9)$$
$$:= (-F(1) + F(4)) \times F(9) + F(6) \qquad = T(1) \times T(4) + T(9) + T(6)$$
$$:= (-F(4) + F(5)) \times F(8) + F(9) \qquad = T(4) - T(5) + T(8) + T(9)$$

$$\mathbf{77} := (F(4) + F(5)) \times F(6) + F(7) \qquad = (-T(4) + T(5)) \times T(6) - T(7)$$
$$:= -F(1) + ((-F(3) + F(6)) \times F(7)) \qquad = (-T(1) + T(3)) \times T(6) - T(7)$$
$$:= -F(1) + F(4) \times (-F(6) + F(9)) \qquad = T(1) + T(4) + T(6) + T(9)$$

$$\mathbf{78} := (F(1) + F(3) + F(4)) \times F(7) \qquad = (-T(1) + T(3)) \times T(4) + T(7)$$
$$:= (-F(1) + F(3) + F(5)) \times F(7) \qquad = T(1) \times T(3) \times (-T(5) + T(7))$$
$$:= (F(2) + F(7)) \times F(5) + F(6) \qquad = T(2) \times T(7) + T(5) - T(6)$$
$$:= (F(2) + F(8)) \times F(3) + F(9) \qquad = T(2) + T(8) - T(3) + T(9)$$
$$:= F(2) \times F(4) \times (-F(6) + F(9)) \qquad = T(2) \times (-T(4) + T(6)) + T(9)$$
$$:= (F(2) + F(3)) \times (-F(6) + F(9)) \qquad = -T(2) + T(3) \times T(6) - T(9)$$
$$:= (F(5) + F(2)) \times (-F(8) + F(9)) \qquad = T(5) + T(2) \times T(8) - T(9)$$
$$:= F(3) \times (-F(2) + F(6) \times F(5)) \qquad = (T(3) - T(2)) \times T(6) + T(5)$$
$$:= F(4) \times (F(5) - F(7) + F(9)) \qquad = -T(4) + T(5) + T(7) + T(9)$$

$$\mathbf{79} := F(2) - F(4) \times (F(6) - F(9)) \qquad = T(2) + T(4) + T(6) + T(9)$$
$$:= -F(2) + (-F(4) + F(7)) \times F(6) \qquad = T(2) \times T(4) + T(7) + T(6)$$
$$:= -F(2) + (F(7) + F(4)) \times F(5) \qquad = T(2) \times T(7) + T(4) - T(5)$$
$$:= F(7) - F(3) \times (F(1) - F(9)) \qquad = T(7) + T(3) \times T(1) + T(9)$$

$$
\begin{aligned}
\mathbf{80} &:= F(4)\times F(9)-F(1)-F(8) && = T(4)\times(T(9)-T(1)-T(8))\\
&:= F(1)\times F(6)\times(F(7)-F(4)) && = (T(1)-T(6)+T(7))\times T(4)\\
&:= (F(1)-F(5))\times(F(2)-F(8)) && = -T(1)+T(5)\times T(2)+T(8)\\
&:= -F(1)+F(7)+F(3)\times F(9) && = T(1)+T(7)+T(3)+T(9)\\
&:= (F(2)+F(7)\times F(4))\times F(3) && = T(2)\times T(7)-T(4)+T(3)\\
&:= F(3)+(F(2)+F(5))\times F(7) && = T(3)\times(T(2)+T(5))-T(7)\\
&:= F(6)\times(-F(2)-F(3)+F(7)) && = (T(6)-T(2))\times T(3)-T(7)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{81} &:= F(1)\times F(4)\times F(9)-F(8) && = (T(1)-T(4))\times(-T(9)+T(8))\\
&:= (F(2)+F(3))\times F(9)-F(8) && = (T(2)+T(3))\times(T(9)-T(8))\\
&:= (-F(2)+F(4))\times F(9)+F(7) && = T(2)\times(T(4)+T(9)-T(7))\\
&:= (F(3)+F(8))\times F(5)-F(9) && = T(3)\times(T(8)-T(5))-T(9)\\
&:= F(5)+F(6)+F(3)\times F(9) && = (-T(5)+T(6))\times T(3)+T(9)\\
&:= F(2)-F(6)\times(F(4)-F(7)) && = T(2)\times T(6)-T(4)+T(7)\\
&:= F(2)+F(5)\times F(3)\times F(6) && = -T(2)\times T(5)+T(3)\times T(6)\\
&:= -F(8)+(F(6)-F(5))\times F(9) && = T(8)\times T(6)-T(5)\times T(9)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{82} &:= -F(2)+F(6)\times F(7)-F(8) && = -T(2)+T(6)+T(7)+T(8)\\
&:= F(3)\times(F(6)-F(1)+F(9)) && = T(3)\times T(6)+T(1)-T(9)\\
&:= -F(5)+F(4)\times(F(6)+F(8)) && = T(5)+T(4)+T(6)+T(8)\\
&:= -F(7)+F(5)\times(-F(3)+F(8)) && = T(7)+T(5)\times T(3)-T(8)
\end{aligned}
$$

$$
\mathbf{83} := (F(3)+F(5))\times F(7)-F(6) \qquad = T(3)\times T(5)-T(7)+T(6)
$$

$$
\begin{aligned}
\mathbf{84} &:= (-F(1)\times F(2)+F(5))\times F(8) && = (T(1)+T(2))\times(-T(5)+T(8))\\
&:= (F(1)+F(2)+F(3))\times F(8) && = (-T(1)+T(2))\times(T(3)+T(8))\\
&:= (-F(1)-F(6)+F(7))\times F(8) && = -T(1)+T(6)+T(7)+T(8)\\
&:= (F(2)+F(6)-F(5))\times F(8) && = T(2)\times T(6)-T(5)+T(8)\\
&:= (-F(2)+F(3)+F(4))\times F(8) && = T(2)\times(T(3)+T(4))+T(8)\\
&:= (F(3)-F(4)+F(5))\times F(8) && = (T(3)-T(4))\times(T(5)-T(8))\\
&:= (F(1)+F(4))\times(-F(7)+F(9)) && = T(1)+T(4)+T(7)+T(9)\\
&:= (-F(2)+F(4))\times(F(9)+F(6)) && = T(2)\times(-T(4)+T(9))-T(6)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{84} &:= (-F(2)+F(5))\times(F(6)+F(7)) && = (-T(2)-T(5)+T(6))\times T(7)\\
&:= (F(2)-F(5))\times(F(7)-F(9)) && = T(2)\times(T(5)+T(7))-T(9)\\
&:= F(3)\times F(4)\times(F(1)+F(7)) && = (-T(3)+T(4)-T(1))\times T(7)\\
&:= (F(3)+F(5))\times(-F(1)+F(7)) && = T(3)\times(-T(5)+T(1)+T(7))\\
&:= (-F(4)+F(5))\times(F(6)+F(9)) && = T(4)\times T(5)-T(6)-T(9)\\
&:= (F(5)+F(3))\times(-F(2)+F(7)) && = (-T(5)+T(3)\times T(2))\times T(7)\\
&:= (F(6)-F(3))\times(F(2)+F(7)) && = (T(6)-T(3)\times T(2))\times T(7)
\end{aligned}
$$

$$:= F(3) \times (F(8) + F(9) - F(7)) \quad = (-T(3) - T(8) + T(9)) \times T(7)$$
$$:= F(4) \times (F(3) - F(6) + F(9)) \quad = T(4) \times T(3) - T(6) + T(9)$$

$$\mathbf{86} := (F(3) + F(4)) \times F(7) + F(8) \quad = T(3) - T(4) \times (T(7) - T(8))$$
$$:= F(5) \times (F(4) + F(8)) - F(9) \quad = T(5) - T(4) + T(8) + T(9)$$
$$:= F(3) + (F(1) + F(4)) \times F(8) \quad = (T(3) - T(1)) \times T(4) + T(8)$$

$$\mathbf{87} := (-F(1) + F(9)) \times F(3) + F(8) \quad = T(1) \times T(9) + T(3) + T(8)$$
$$:= (F(2) + F(3)) \times (F(6) + F(8)) \quad = -T(2) + T(3) \times T(6) - T(8)$$
$$:= F(7) + F(6) \times F(5) + F(9) \quad = -T(7) \times T(6) + T(5) \times T(9)$$
$$:= -F(2) + (-F(3) + F(7)) \times F(6) \quad = T(2) \times (-T(3) + T(7)) + T(6)$$
$$:= F(4) \times (F(7) + F(3) \times F(6)) \quad = (-T(4) + T(7)) \times T(3) - T(6)$$

$$\mathbf{88} := -F(1) + F(8) + F(3) \times F(9) \quad = T(1) + T(8) + T(3) + T(9)$$
$$:= (F(4) + F(6)) \times (-F(5) + F(7)) \quad = T(4) \times (T(6) - T(5)) + T(7)$$
$$:= (F(4) + F(6)) \times (-F(7) + F(8)) \quad = (T(4) - T(6)) \times (T(7) - T(8))$$
$$:= -F(4) + (F(3) + F(5)) \times F(7) \quad = (T(4) - T(3)) \times T(5) + T(7)$$
$$:= F(6) \times (-F(1) - F(2) + F(7)) \quad = (T(6) - T(1)) \times T(2) + T(7)$$

$$\mathbf{89} := (-F(1) + F(4)) \times F(9) + F(8) \quad = -T(1) + T(4) \times (T(9) - T(8))$$
$$:= (F(4) - F(2)) \times F(9) + F(8) \quad = -T(4) + T(2) \times T(9) - T(8)$$
$$:= -F(7) + (F(2) + F(3)) \times F(9) \quad = -T(7) + T(2) \times (-T(3) + T(9))$$

$$\mathbf{90} := (F(2) + F(6)) \times F(3) \times F(5) \quad = T(2) \times (T(6) - T(3) + T(5))$$
$$:= F(2) \times F(5) \times (F(8) - F(4)) \quad = (T(2) \times T(5) - T(8)) \times T(4)$$
$$:= F(3) \times (F(1) + F(6)) \times F(5) \quad = (T(3) - T(1)) \times T(6) - T(5)$$
$$:= -F(7) + F(2) + F(4) \times F(9) \quad = (-T(7) + T(2) \times T(4)) \times T(9)$$
$$:= -F(1) + (-F(2) + F(6)) \times F(7) \quad = -T(1) + T(2) \times T(6) + T(7)$$
$$:= F(3) \times (F(8) + F(6) \times F(4)) \quad = (-T(3) + T(8) - T(6)) \times T(4)$$
$$:= F(4) \times (F(1) - F(5) + F(9)) \quad = (T(4) - T(1)) \times T(5) - T(9)$$
$$:= F(4) \times (F(2) - F(5) + F(9)) \quad = (-T(4) - T(2) + T(5)) \times T(9)$$

$$\mathbf{91} := (-F(1) \times F(2) + F(6)) \times F(7) \quad = ((T(1) \times T(2)) \times T(6)) + T(7)$$
$$:= (F(1) \times F(3) + F(5)) \times F(7) \quad = (T(1) + T(3)) \times (-T(5) + T(7))$$
$$:= (F(2) - F(3) + F(6)) \times F(7) \quad = (-T(2) + T(3)) \times T(6) + T(7)$$
$$:= (-F(2) + F(4) + F(5)) \times F(7) \quad = (T(2) - T(4)) \times (T(5) - T(7))$$
$$:= (F(6) + F(3) - F(4)) \times F(7) \quad = -T(6) + (-T(3) + T(4)) \times T(7)$$
$$:= -F(2) + F(5) \times F(8) - F(7) \quad = T(2) \times (-T(5) + T(8)) + T(7)$$
$$:= F(2) - F(5) \times (F(4) - F(8)) \quad = T(2) \times T(5) + T(4) + T(8)$$

$$
\begin{aligned}
\mathbf{92} &:= (F(3)+F(8))\times(F(2)+F(4)) && = -T(3)+T(8)\times T(2)-T(4)\\
&:= F(1)-(F(2)-F(6))\times F(7) && = T(1)+T(2)\times T(6)+T(7)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{93} &:= (F(2)+F(3))\times(-F(4)+F(9)) && = T(2)\times(T(3)+T(4))+T(9)\\
&:= F(2)-F(7)+F(5)\times F(8) && = T(2)\times(T(7)+T(5))-T(8)\\
&:= F(4)\times(F(7)\times F(3)+F(5)) && = (-T(4)+T(7))\times T(3)-T(5)\\
&:= -F(4)+(F(7)-F(2))\times F(6) && = (T(4)+T(7))\times T(2)-T(6)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{94} &:= F(4)\times(F(8)-F(2))+F(9) && = T(4)+T(8)+T(2)+T(9)\\
&:= F(3)\times(F(6)+F(4)\times F(7)) && = T(3)\times(T(6)-T(4))+T(7)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{95} &:= F(4)-F(7)+F(8)\times F(5) && = T(4)\times(-T(7)+T(8))+T(5)\\
&:= F(1)+F(3)\times(F(7)+F(9)) && = (-T(1)+T(3))\times T(7)-T(9)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{96} &:= (-F(2)+F(5))\times F(4)\times F(6) && = T(2)\times(T(5)+T(4))+T(6)\\
&:= F(3)\times(F(1)+F(5))\times F(6) && = (T(3)-T(1))\times T(5)+T(6)\\
&:= F(3)\times F(4)\times(-F(5)+F(8)) && = (-T(3)+T(4))\times T(5)+T(8)\\
&:= F(3)+F(4)\times F(9)-F(6) && = (T(3)-T(4))\times(-T(9)+T(6))\\
&:= (F(5)-F(6))\times(F(3)-F(9)) && = T(5)+T(6)\times T(3)-T(9)\\
&:= F(3)\times(F(1)+F(7)+F(9)) && = T(3)\times(-T(1)-T(7)+T(9))
\end{aligned}
$$

$$
\mathbf{97} := -F(3)-F(5)+F(6)\times F(7) \qquad = T(3)\times T(5)-T(6)+T(7)
$$

$$
\begin{aligned}
\mathbf{98} &:= -F(1)-F(5)+F(6)\times F(7) && = (T(1)-T(5))\times(T(6)-T(7))\\
&:= F(3)-F(6)\times(F(1)-F(7)) && = T(3)\times T(6)\times T(1)-T(7)
\end{aligned}
$$

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

$$
\begin{aligned}
\mathbf{100} &:= -F(1)-F(2)+F(9)\times F(4) && = (-T(1)+T(2))\times T(9)+T(4)\\
&:= (-F(2)+F(8))\times(F(3)+F(4)) && = T(2)\times(T(8)-T(3))+T(4)
\end{aligned}
$$

$$:= F(4) \times (F(1) + F(8)) + F(9) \qquad = T(4) \times (T(1) - T(8) + T(9))$$
$$:= F(4) \times (F(2) + F(9)) - F(5) \qquad = T(4) + T(2) \times (T(9) - T(5))$$
$$:= -F(4) - F(2) + F(6) \times F(7) \qquad = T(4) \times (T(2) - T(6) + T(7))$$
$$:= -F(5) + (-F(6) + F(7)) \times F(8) \qquad = T(5) + T(6) + T(7) + T(8)$$

101 $:= -F(2) - F(3) + F(6) \times F(7) \qquad = T(2) + T(3) \times T(6) - T(7)$
$$:= F(6) \times (-F(4) + F(7)) + F(8) \qquad = T(6) - T(4) \times (T(7) - T(8))$$
$$:= -F(4) + F(6) \times F(2) \times F(7) \qquad = T(4) + T(6) \times T(2) + T(7)$$

102 $:= (F(1) \times F(2) + F(3)) \times F(9) \qquad = (-T(1) + T(2)) \times (T(3) + T(9))$
$$:= F(2) \times F(1) \times F(4) \times F(9) \qquad = T(2) \times (-T(1) - T(4) + T(9))$$
$$:= (-F(2) + F(3)) \times F(4) \times F(9) \qquad = -T(2) + T(3) \times T(4) + T(9)$$
$$:= (F(2) + F(8)) \times F(5) - F(6) \qquad = T(2) \times T(8) + T(5) - T(6)$$
$$:= (F(2) - F(4) + F(5)) \times F(9) \qquad = -T(2) + T(4) \times T(5) - T(9)$$
$$:= (F(3) \times F(7) + F(6)) \times F(4) \qquad = T(3) \times (T(7) - T(6) + T(4))$$
$$:= (-F(3) + F(7) - F(6)) \times F(9) \qquad = T(3) \times T(7) - T(6) - T(9)$$
$$:= (F(5) \times F(2) - F(3)) \times F(9) \qquad = -T(5) + T(2) \times (-T(3) + T(9))$$
$$:= -F(2) - F(1) + F(7) \times F(6) \qquad = T(2) \times (-T(1) + T(7)) + T(6)$$
$$:= (F(2) + F(3)) \times (F(7) + F(8)) \qquad = T(2) \times (-T(3) + T(7)) + T(8)$$
$$:= F(4) \times (-F(6) + F(3) \times F(8)) \qquad = (-T(4) + T(6)) \times T(3) + T(8)$$

103 $:= -F(1) + F(6) \times (-F(8) + F(9)) \qquad = T(1) + T(6) + T(8) + T(9)$
$$:= -F(2) + (F(4) + F(5)) \times F(7) \qquad = T(2) \times (T(4) + T(5)) + T(7)$$
$$:= F(4) - F(5) \times (F(2) - F(8)) \qquad = T(4) - T(5) + T(2) \times T(8)$$

104 $:= (F(1) + F(6) - F(2)) \times F(7) \qquad = -T(1) + T(6) + T(2) \times T(7)$
$$:= (F(3) - F(1)) \times F(6) \times F(7) \qquad = T(3) \times (T(1) + T(6)) - T(7)$$
$$:= F(1) \times F(3) + F(4) \times F(9) \qquad = -T(1) + T(3) \times T(4) + T(9)$$
$$:= F(1) + F(2) + F(4) \times F(9) \qquad = -T(1) + T(2) \times (-T(4) + T(9))$$
$$:= (F(4) + F(1)) \times (F(5) + F(8)) \qquad = T(4) \times (-T(1) + T(5)) - T(8)$$
$$:= (F(4) + F(2)) \times (F(9) - F(6)) \qquad = -T(4) + T(2) \times T(9) - T(6)$$
$$:= -F(1) + F(5) \times (F(6) + F(7)) \qquad = -T(1) + T(5) \times (-T(6) + T(7))$$
$$:= -F(2) + F(8) \times (F(3) + F(4)) \qquad = T(2) \times T(8) + T(3) - T(4)$$
$$:= F(5) - F(4) \times (F(1) - F(9)) \qquad = T(5) \times T(4) - T(1) - T(9)$$

105 $:= (-F(1) + F(3)) \times F(5) \times F(8) \qquad = (T(1) - T(3)) \times (T(5) - T(8))$
$$:= (-F(1) - F(3) + F(6)) \times F(8) \qquad = (T(1) + T(3)) \times (-T(6) + T(8))$$
$$:= (-F(1) + F(6)) \times F(4) \times F(5) \qquad = T(1) \times T(6) \times (-T(4) + T(5))$$
$$:= (-F(2) \times F(4) + F(6)) \times F(8) \qquad = (T(2) - T(4)) \times (T(6) - T(8))$$
$$:= (-F(2) + F(6) - F(3)) \times F(8) \qquad = T(2) \times T(6) + T(3) + T(8)$$

Selfie Expressions With Factorial, Fibonacci and Triangular Values,
Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

$$:= (F(3) - F(5) + F(6)) \times F(8) \qquad = T(3) \times T(5) - T(6) + T(8)$$
$$:= F(4) \times F(8) + F(6) + F(9) \qquad = T(4) \times (T(8) - T(6)) - T(9)$$
$$:= F(1) \times F(5) \times (F(6) + F(7)) \qquad = T(1) \times T(5) \times (-T(6) + T(7))$$

$$\mathbf{105} := F(2) \times F(4) \times (F(1) + F(9)) \qquad = T(2) \times (-T(4) \times T(1) + T(9))$$
$$:= F(2) \times F(8) \times (F(7) - F(6)) \qquad = (-T(2) + T(8) - T(7)) \times T(6)$$
$$:= F(2) + F(3) + F(4) \times F(9) \qquad = (T(2) - T(3)) \times (T(4) - T(9))$$
$$:= -F(2) + F(3) + F(7) \times F(6) \qquad = (-T(2) + T(3)) \times T(7) + T(6)$$
$$:= -F(3) + F(5) + F(4) \times F(9) \qquad = T(3) \times (T(5) + T(4)) - T(9)$$
$$:= F(5) \times (-F(2) + F(3)) \times F(8) \qquad = T(5) - T(2) \times (T(3) - T(8))$$
$$:= F(2) + F(6) \times (-F(8) + F(9)) \qquad = T(2) + T(6) + T(8) + T(9)$$
$$:= F(4) - (F(5) - F(6)) \times F(9) \qquad = T(4) \times (-T(5) + T(6)) + T(9)$$

$$\mathbf{106} := -F(1) + F(5) + F(4) \times F(9) \qquad = T(1) + T(5) \times T(4) - T(9)$$
$$:= F(1) + (F(2) + F(9)) \times F(4) \qquad = T(1) + T(2) \times (T(9) - T(4))$$
$$:= F(1) + F(5) \times (F(6) + F(7)) \qquad = T(1) - T(5) \times (T(6) - T(7))$$

$$\mathbf{107} := -F(2) + (F(3) + F(9)) \times F(4) \qquad = T(2) \times (-T(3) + T(9)) - T(4)$$
$$:= F(3) - F(5) \times (F(7) - F(9)) \qquad = T(3) \times T(5) - T(7) + T(9)$$

$$\mathbf{108} := (F(2) + F(1) + F(9)) \times F(4) \qquad = T(2) \times (T(1) + T(9) - T(4))$$
$$:= (F(3) + F(7) + F(8)) \times F(4) \qquad = T(3) \times (-T(7) + T(8) + T(4))$$
$$:= (-F(1) + F(7)) \times (F(2) + F(6)) \qquad = (T(1) + T(7)) \times T(2) + T(6)$$
$$:= F(2) + F(3) + F(5) \times F(8) \qquad = (T(2) \times T(3) - T(5)) \times T(8)$$
$$:= F(2) + F(5) + F(4) \times F(9) \qquad = T(2) + T(5) \times T(4) - T(9)$$
$$:= -F(2) + F(5) + F(6) \times F(7) \qquad = T(2) - T(5) \times (T(6) - T(7))$$
$$:= F(4) \times F(3) \times (F(5) + F(7)) \qquad = -T(4) + T(3) \times T(5) + T(7)$$
$$:= F(4) - (F(6) - F(7)) \times F(8) \qquad = (T(4) + T(6) - T(7)) \times T(8)$$
$$:= F(4) + (F(7) + F(6)) \times F(5) \qquad = (T(4) - T(7)) \times (-T(6) + T(5))$$
$$:= F(6) - F(5) \times (F(2) - F(8)) \qquad = (T(6) - T(5) - T(2)) \times T(8)$$

$$\mathbf{110} := F(5) + F(4) \times (F(2) + F(9)) \qquad = -T(5) - T(4) + T(2) \times T(9)$$

$$\mathbf{111} := (F(3) + F(2)) \times (F(4) + F(9)) \qquad = T(3) - T(2) \times (T(4) - T(9))$$
$$:= (-F(3) + F(5)) \times (F(4) + F(9)) \qquad = T(3) + T(5) \times T(4) - T(9)$$
$$:= F(3) + F(5) + F(6) \times F(7) \qquad = T(3) - T(5) \times (T(6) - T(7))$$

$$\mathbf{112} := (-F(3) + F(4) + F(7)) \times F(6) \qquad = (T(3) + T(4)) \times (T(7) - T(6))$$
$$:= F(4) \times F(3) \times F(7) + F(9) \qquad = T(4) - T(3) \times (T(7) - T(9))$$
$$:= F(7) \times F(6) + F(5) + F(4) \qquad = T(7) \times (-T(6) + T(5) + T(4))$$

$$:= (F(4)+F(5))\times(F(1)+F(7)) \quad = (-T(4)+T(5)-T(1))\times T(7)$$
$$:= -F(5)+(F(1)+F(6))\times F(7) \quad = (T(5)+T(1))\times(-T(6)+T(7))$$

$$\mathbf{113} := -F(3)+F(7)+F(4)\times F(9) \quad = T(3)\times T(7)-T(4)-T(9)$$
$$:= F(4)+F(5)\times(F(1)+F(8)) \quad = T(4)\times T(5)-T(1)-T(8)$$
$$:= F(4)+F(5)\times(F(2)+F(8)) \quad = -T(4)+T(5)+T(2)\times T(8)$$

$$\mathbf{114} := F(3)\times F(5)\times F(6)+F(9) \quad = T(3)\times T(5)-T(6)+T(9)$$
$$\mathbf{115} := F(5)\times(F(4)-F(1)+F(8)) \quad = T(5)\times T(4)+T(1)-T(8)$$
$$\mathbf{116} := F(3)\times(-F(5)+F(4)\times F(8)) \quad = T(3)\times T(5)-T(4)+T(8)$$

$$\mathbf{117} := (F(1)+F(4)+F(5))\times F(7) \quad = (T(1)-T(4))\times(T(5)-T(7))$$
$$:= (-F(1)+F(3)\times F(5))\times F(7) \quad = -T(1)+T(3)\times T(5)+T(7)$$
$$:= -F(2)+F(5)\times F(8)+F(7) \quad = -T(2)+T(5)\times(T(8)-T(7))$$
$$:= (-F(2)+F(3)\times F(5))\times F(7) \quad = (T(2)+T(3))\times(-T(5)+T(7))$$
$$:= (F(3)+F(2))\times(F(5)+F(9)) \quad = T(3)\times(-T(2)+T(5))+T(9)$$

$$\mathbf{119} := F(1)+F(5)\times F(8)+F(7) \quad = -T(1)+T(5)\times(T(8)-T(7))$$
$$:= F(4)\times F(5)+F(7)\times F(6) \quad = (-T(4)+T(5))\times T(7)-T(6)$$
$$:= -F(1)+F(5)\times F(4)\times F(6) \quad = (-T(1)+T(5))\times T(4)-T(6)$$
$$:= F(3)+(F(1)+F(6))\times F(7) \quad = (T(3)+T(1))\times T(6)-T(7)$$

$$\mathbf{120} := (F(1)+F(3))\times F(6)\times F(5) \quad = (-T(1)+T(3))\times T(6)+T(5)$$
$$:= (F(2)\times F(4))\times F(6)\times F(5) \quad = (-T(2)-T(4)+T(6))\times T(5)$$
$$:= (-F(2)+F(8))\times F(3)\times F(4) \quad = T(2)\times(T(8)-T(3)+T(4))$$
$$:= F(4)\times(F(9)-F(2))+F(8) \quad = T(4)\times(T(9)+T(2)-T(8))$$
$$:= (F(5)+F(2))\times(-F(1)+F(8)) \quad = T(5)-T(2)\times(T(1)-T(8))$$
$$:= F(4)\times(F(1)+F(5)+F(9)) \quad = (T(4)+T(1))\times T(5)-T(9)$$
$$:= F(5)\times(F(1)+F(3)+F(8)) \quad = (T(5)-T(1))\times T(3)+T(8)$$
$$:= F(6)\times(-F(3)\times F(4)+F(8)) \quad = T(6)\times(-T(3)+T(4))+T(8)$$

$$\mathbf{122} := -F(4)+F(8)+F(6)\times F(7) \quad = T(4)\times(T(8)-T(6))-T(7)$$

$$\mathbf{123} := (F(2)+F(5))\times F(8)-F(4) \quad = T(2)\times(T(5)+T(8)-T(4))$$
$$:= F(2)\times F(8)+F(4)\times F(9) \quad = T(2)\times(T(8)-T(4))+T(9)$$

$$\mathbf{124} := (-F(2)+F(8)\times F(4))\times F(3) \quad = T(2)\times T(8)+T(4)+T(3)$$
$$:= F(3)\times(-F(4)+F(5)\times F(7)) \quad = -T(3)+T(4)\times(-T(5)+T(7))$$

$$\mathbf{125} := (-F(1)+F(3)\times F(7))\times F(5) \quad = (-T(1)+T(3))\times T(7)-T(5)$$

Selfie Expressions With Factorial, Fibonacci and Triangular Values,
Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

$$
\begin{aligned}
\mathbf{126} &:= (-F(1)+F(3)+F(5))\times F(8) && = T(1)\times T(3)\times T(5)+T(8)\\
&:= (-F(2)+F(8))\times F(6)-F(9) && = T(2)\times (T(8)+T(6))-T(9)\\
&:= (-F(3)-F(5)+F(7))\times F(8) && = T(3)-T(5)\times (T(7)-T(8))\\
&:= (F(6)\times F(5)-F(9))\times F(8) && = T(6)\times (T(5)-T(9)+T(8))\\
&:= (F(6)+F(2)-F(4))\times F(8) && = T(6)\times (-T(2)\times T(4)+T(8))\\
&:= (F(6)-F(2)-F(1))\times F(8) && = T(6)-T(2)\times (T(1)-T(8))\\
&:= F(2)\times F(4)\times (F(9)+F(6)) && = T(2)\times (-T(4)+T(9))+T(6)\\
&:= (F(2)+F(5))\times (F(6)+F(7)) && = (T(2)+T(5))\times (-T(6)+T(7))\\
&:= (F(3)+F(5))\times (-F(4)+F(8)) && = (-T(3)+T(5))\times T(4)+T(8)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{127} &:= -F(4)+F(3)\times F(7)\times F(5) && = (T(4)-T(3))\times T(7)+T(5)\\
\mathbf{128} &:= (F(1)+F(4)\times F(5))\times F(6) && = -T(1)+T(4)\times T(5)-T(6)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{129} &:= F(4)\times F(6)+F(5)\times F(8) && = (-T(4)+T(6))\times T(5)-T(8)\\
&:= -F(2)+F(3)\times F(5)\times F(7) && = (-T(2)+T(3))\times (T(5)+T(7))\\
&:= -F(2)+(F(3)+F(6))\times F(7) && = T(2)\times (-T(3)+T(6)+T(7))\\
&:= -F(2)+(F(9)-F(6))\times F(5) && = T(2)\times T(9)-T(6)+T(5)\\
&:= F(4)+(F(1)+F(5))\times F(8) && = (T(4)+T(1))\times T(5)-T(8)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{130} &:= (-F(1)+F(4))\times F(5)\times F(7) && = T(1)\times T(4)\times (-T(5)+T(7))\\
&:= (-F(4)+F(6))\times F(3)\times F(7) && = T(4)\times (-T(6)+T(3)+T(7))\\
&:= (F(4)-F(7))\times (F(6)-F(8)) && = T(4)\times (T(7)+T(6)-T(8))
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{132} &:= F(3)\times F(4)\times (F(2)+F(8)) && = (T(3)-T(4))\times (T(2)-T(8))\\
&:= -F(7)+F(5)\times (F(6)+F(8)) && = T(7)\times (-T(5)+T(6))-T(8)
\end{aligned}
$$

$$
\mathbf{133} := F(4)\times F(5)\times F(6)+F(7) \qquad = (-T(4)+T(5))\times T(6)+T(7)
$$

$$
\begin{aligned}
\mathbf{135} &:= (F(2)+F(7)\times F(3))\times F(5) && = (-T(2)+T(7))\times T(3)-T(5)\\
&:= -F(4)+F(6)\times F(7)+F(9) && = (T(4)+T(6)-T(7))\times T(9)\\
&:= F(4)\times (F(2)+F(6))\times F(5) && = (T(4)\times T(2)-T(6))\times T(5)\\
&:= F(5)\times (F(2)-F(6)+F(9)) && = (-T(5)-T(2)+T(6))\times T(9)\\
&:= F(5)\times (-F(3)+F(6)+F(8)) && = (T(5)-T(3))\times (-T(6)+T(8))
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{136} &:= (F(1)+F(2)+F(3))\times F(9) && = T(1)-(T(2)-T(3))\times T(9)\\
&:= (F(1)-F(3)+F(5))\times F(9) && = T(1)+T(3)\times T(5)+T(9)\\
&:= (-F(2)-F(6)+F(7))\times F(9) && = T(2)\times T(6)+T(7)+T(9)\\
&:= F(3)\times (F(4)+F(5)\times F(7)) && = T(3)-T(4)\times (T(5)-T(7))\\
&:= F(6)\times (F(5)-F(2)+F(7)) && = (T(6)+T(5))\times T(2)+T(7)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{138} &:= -F(2) + F(5) \times F(8) + F(9) && = T(2) - T(5) \times (T(8) - T(9)) \\
&:= F(3) + (F(5) - F(2)) \times F(9) && = T(3) \times T(5) + T(2) + T(9)
\end{aligned}
$$

$$
\mathbf{140} := -F(2) + (F(7) + F(9)) \times F(4) \qquad = (-T(2) - T(7) + T(9)) \times T(4)
$$

$$
\begin{aligned}
\mathbf{141} &:= F(4) \times F(5) \times F(6) + F(8) && = (-T(4) + T(5)) \times T(6) + T(8) \\
&:= F(3) + F(5) \times F(8) + F(9) && = T(3) - T(5) \times (T(8) - T(9)) \\
&:= (F(3) + F(2)) \times (F(7) + F(9)) && = T(3) \times (T(2) + T(7)) - T(9) \\
&:= F(4) \times (F(3) \times F(9) - F(8)) && = T(4) \times T(3) + T(9) + T(8) \\
&:= F(4) \times (F(8) \times F(3) + F(5)) && = (-T(4) + T(8)) \times T(3) - T(5) \\
&:= F(7) - F(6) \times (F(5) - F(8)) && = (T(7) - T(6)) \times T(5) + T(8)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{143} &:= (F(5) + F(4) \times F(3)) \times F(7) && = -T(5) - T(4) + T(3) \times T(7) \\
&:= (F(7) - F(3)) \times (-F(8) + F(9)) && = -T(7) + T(3) \times T(8) - T(9)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{144} &:= (-F(2) + F(9)) \times F(5) - F(8) && = T(2) \times (T(9) + T(5)) - T(8) \\
&:= (F(4) + F(7) + F(3)) \times F(6) && = -T(4) + T(7) + T(3) \times T(6) \\
&:= (F(1) + F(5)) \times (F(4) + F(8)) && = (-T(1) + T(5) - T(4)) \times T(8) \\
&:= F(2) \times F(6) \times (-F(4) + F(8)) && = (-T(2) + T(6)) \times T(4) - T(8) \\
&:= (F(2) + F(5)) \times (F(4) + F(8)) && = (T(2) + T(5)) \times T(4) - T(8) \\
&:= (-F(3) + F(6)) \times (F(8) + F(4)) && = -T(3) + (-T(6) + T(8)) \times T(4) \\
&:= (F(3) + F(9)) \times (-F(2) + F(5)) && = -(T(3) - (T(9) \times T(2))) + T(5)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{144} &:= F(4) \times (F(1) + F(5)) \times F(6) && = ((T(4) + T(1)) \times T(5)) - T(6) \\
&:= F(5) \times (F(1) + F(8)) + F(9) && = (T(5) + T(1)) \times (-T(8) + T(9)) \\
&:= F(8) \times F(3) + F(4) \times F(9) && = -T(8) + ((-T(3) + T(4)) \times T(9)) \\
&:= -F(2) + F(5) \times (F(6) + F(8)) && = (T(2) \times (T(5) + T(6))) + T(8) \\
&:= F(6) \times (-F(2) - F(3) + F(8)) && = ((T(6) - T(2)) \times T(3)) + T(8) \\
&:= F(6) + (F(1) + F(4)) \times F(9) && = (T(6) \times (-T(1) + T(4))) - T(9) \\
&:= F(6) + (F(2) + F(4)) \times F(9) && = -T(6) + (T(2) \times (T(4) + T(9)))
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{145} &:= (F(4) \times F(8) - F(9)) \times F(5) && = T(4) - (T(8) - T(9)) \times T(5) \\
&:= (F(4) + F(3)) \times (-F(5) + F(9)) && = T(4) + T(3) \times T(5) + T(9)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{147} &:= (F(1) \times F(3) + F(5)) \times F(8) && = (T(1) + T(3)) \times (-T(5) + T(8)) \\
&:= (-F(2) - F(5) + F(7)) \times F(8) && = T(2) \times (-T(5) + T(7) + T(8)) \\
&:= (-F(2) + F(4) + F(5)) \times F(8) && = (T(2) - T(4)) \times (T(5) - T(8)) \\
&:= (F(3) \times F(2) + F(5)) \times F(8) && = -T(3) + T(2) \times (T(5) + T(8)) \\
&:= (F(6) + F(2) - F(3)) \times F(8) && = T(6) + T(2) \times (T(3) + T(8))
\end{aligned}
$$

$$
\begin{aligned}
&:= (F(2)+F(3)\times F(4))\times F(8) && = T(2)-(T(3)-T(4))\times T(8)\\
&:= (F(3)+F(5))\times(F(6)+F(7)) && = (T(3)+T(5))\times(-T(6)+T(7))\\
&:= F(6)\times(-F(1)+F(8))-F(7) && = T(6)\times(-T(1)+T(8)-T(7))\\
&\\
\mathbf{149} &:= F(6)+F(4)\times(F(7)+F(9)) && = -T(6)+T(4)\times(-T(7)+T(9))\\
&\\
\mathbf{150} &:= (F(3)+F(8))\times F(6)-F(9) && = T(3)\times T(8)-T(6)-T(9)\\
&:= F(1)-F(8)+F(9)\times F(5) && = (T(1)-T(8)+T(9))\times T(5)\\
&:= F(4)-(F(1)-F(6))\times F(8) && = T(4)\times T(1)\times(-T(6)+T(8))\\
&:= F(4)\times(F(6)+F(3)\times F(8)) && = (T(4)+T(6))\times T(3)-T(8)\\
&:= F(4)+(F(3)+F(5))\times F(8) && = T(4)\times(-T(3)-T(5)+T(8))\\
&:= F(5)\times(-F(2)-F(4)+F(9)) && = T(5)\times(T(2)+T(4))-T(9)\\
&\\
\mathbf{152} &:= (-F(2)+F(9))\times F(5)-F(7) && = T(2)\times(T(9)+T(5))-T(7)\\
&\\
\mathbf{153} &:= -F(3)-F(7)+F(6)\times F(8) && = T(3)\times T(7)+T(6)-T(8)\\
&:= F(2)-F(6)\times(F(3)-F(8)) && = -T(2)\times T(6)+T(3)\times T(8)\\
&\\
\mathbf{156} &:= (F(2)+F(5))\times F(3)\times F(7) && = T(2)-T(5)+T(3)\times T(7)\\
\mathbf{157} &:= -F(7)+(F(3)+F(4))\times F(9) && = T(7)\times(-T(3)+T(4))+T(9)\\
\mathbf{158} &:= F(4)+F(6)\times F(8)-F(7) && = -T(4)+T(6)\times(T(8)-T(7))\\
&\\
\mathbf{160} &:= (-F(1)+F(6))\times F(8)+F(7) && = (T(1)-T(6))\times(-T(8)+T(7))\\
&:= F(5)\times(-F(4)+F(2)+F(9)) && = T(5)+T(4)+T(2)\times T(9)\\
&\\
\mathbf{161} &:= (-F(1)+F(6))\times(F(3)+F(8)) && = -T(1)+T(6)\times T(3)+T(8)\\
&:= -F(6)+(-F(8)+F(9))\times F(7) && = T(6)\times(-T(8)+T(9))-T(7)\\
&\\
\mathbf{162} &:= F(4)\times(F(7)+F(9))+F(8) && = (T(4)-T(7))\times(-T(9)+T(8))\\
&:= F(3)-F(6)\times(F(1)-F(8)) && = T(3)\times T(6)\times T(1)+T(8)\\
&:= F(3)-F(6)\times(F(2)-F(8)) && = T(3)\times(T(6)\times T(2)-T(8))\\
&\\
\mathbf{164} &:= -F(4)-F(1)+F(6)\times F(8) && = T(4)\times(-T(1)+T(6))-T(8)\\
&\\
\mathbf{165} &:= -F(1)\times F(4)+F(6)\times F(8) && = (T(1)+T(4))\times(-T(6)+T(8))\\
&:= -F(2)-F(3)+F(6)\times F(8) && = T(2)+T(3)\times T(6)+T(8)\\
&:= (F(3)+F(1))\times(F(8)+F(9)) && = T(3)\times(-T(1)+T(8))-T(9)\\
&:= (F(3)+F(2))\times(F(9)+F(8)) && = -T(3)+T(2)\times T(9)+T(8)\\
&:= -F(4)-F(3)+F(5)\times F(9) && = T(4)\times(T(3)+T(5))-T(9)\\
&:= (F(4)-F(6))\times(F(1)-F(9)) && = T(4)\times T(6)\times T(1)-T(9)
\end{aligned}
$$

$$:= F(5) \times F(1) \times (-F(2) + F(9)) \quad = -T(5) + (T(1) + T(2)) \times T(9)$$
$$:= F(5) \times (F(7) - F(2) + F(8)) \quad = (T(5) + T(7)) \times T(2) + T(8)$$

$$\mathbf{167} := F(7) \times F(5) + F(4) \times F(9) \quad = -T(7) + T(5) \times T(4) + T(9)$$
$$:= -F(3) + (F(8) - F(6)) \times F(7) \quad = T(3) \times T(8) - T(6) - T(7)$$

$$\mathbf{168} := F(2) \times F(1) \times F(6) \times F(8) \quad = T(2) \times (-T(1) + T(6) + T(8))$$
$$:= (-F(3) + F(4)) \times F(6) \times F(8) \quad = -T(3) + T(4) \times T(6) - T(8)$$
$$:= (F(3) - F(1)) \times F(6) \times F(8) \quad = T(3) \times (T(1) + T(6)) + T(8)$$
$$:= -F(2) \times F(3) + F(9) \times F(5) \quad = T(2) \times (T(3) + T(9)) + T(5)$$
$$:= (F(2) + F(4)) \times (F(6) + F(9)) \quad = (T(2) - T(4)) \times (T(6) - T(9))$$
$$:= -F(1) + (F(5) + F(6)) \times F(7) \quad = (-T(1) \times T(5) + T(6)) \times T(7)$$
$$:= -F(1) + (-F(6) + F(8)) \times F(7) \quad = (T(1) \times T(6)) \times (T(8) - T(7))$$
$$:= -F(2) + (-F(8) + F(9)) \times F(7) \quad = (-T(2) - T(8) + T(9)) \times T(7)$$
$$:= -F(3) + F(5) \times (F(7) + F(8)) \quad = (T(3) + T(5)) \times (-T(7) + T(8))$$

$$\mathbf{169} := (F(1) \times F(5) + F(6)) \times F(7) \quad = T(1) - (T(5) - T(6)) \times T(7)$$
$$:= (-F(1) \times F(6) + F(8)) \times F(7) \quad = T(1) + T(6) \times (T(8) - T(7))$$

$$\mathbf{170} := (-F(1) - F(3) + F(6)) \times F(9) \quad = -T(1) + T(3) \times T(6) + T(9)$$
$$:= (F(4) + F(1) + F(2)) \times F(9) \quad = -T(4) + (T(1) + T(2)) \times T(9)$$
$$:= (F(4) - F(3)) \times F(5) \times F(9) \quad = -T(4) + T(3) \times (-T(5) + T(9))$$
$$:= (F(7) \times F(2) - F(6)) \times F(9) \quad = -T(7) + T(2) \times (T(6) + T(9))$$
$$:= F(1) + F(2) + F(6) \times F(8) \quad = -T(1) + T(2) \times (T(6) + T(8))$$

$$\mathbf{171} := F(2) \times F(4) + F(6) \times F(8) \quad = -T(2) + T(4) \times T(6) - T(8)$$
$$:= F(2) + F(3) + F(6) \times F(8) \quad = (-T(2) + T(3)) \times (T(6) + T(8))$$

$$\mathbf{172} := F(3) \times F(9) + F(6) \times F(7) \quad = T(3) \times (T(9) - T(6)) + T(7)$$
$$\mathbf{173} := -F(4) + F(6) \times (F(1) + F(8)) \quad = T(4) \times T(6) - T(1) - T(8)$$

$$\mathbf{175} := (-F(4) + F(6)) \times (F(1) + F(9)) \quad = T(4) \times (T(6) + T(1)) - T(9)$$

$$\mathbf{176} := (F(1) + F(6)) \times F(8) - F(7) \quad = (T(1) + T(6)) \times (T(8) - T(7))$$
$$:= (F(4) + F(5)) \times (F(1) + F(8)) \quad = T(4) \times (T(5) - T(1)) + T(8)$$

$$\mathbf{177} := (F(2) + F(9)) \times F(5) + F(3) \quad = -T(2) + (T(9) - T(5)) \times T(3)$$

$$\mathbf{178} := -F(4) + F(6) \times F(8) + F(7) \quad = T(4) \times (-T(6) + T(8)) + T(7)$$
$$:= F(7) - F(5) \times (F(2) - F(9)) \quad = T(7) + T(5) + T(2) \times T(9)$$

Selfie Expressions With Factorial, Fibonacci and Triangular Values,
Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

$$\begin{aligned}
\mathbf{179} &:= -F(1) + (F(3) + F(9)) \times F(5) && = -T(1) + T(3) \times (T(9) - T(5)) \\
\\
\mathbf{180} &:= (F(1) \times F(3) + F(9)) \times F(5) && = T(1) \times T(3) \times (T(9) - T(5)) \\
&:= (F(3) \times F(5)) \times (-F(4) + F(8)) && = -T(3) + T(5) \times T(4) + T(8) \\
&:= (F(3) + F(6)) \times (-F(4) + F(8)) && = (-T(3) + T(6) - T(4)) \times T(8) \\
&:= F(3) + F(6) + F(5) \times F(9) && = (-T(3) + T(6)) \times T(5) - T(9) \\
&:= (-F(4) + F(6)) \times (F(3) + F(9)) && = T(4) \times (-T(6) - T(3) + T(9)) \\
&:= F(5) \times (-F(1) + F(4) + F(9)) && = (T(5) - T(1) - T(4)) \times T(9) \\
&:= F(5) \times (-F(2) + F(4) + F(9)) && = T(5) + T(2) \times (T(4) + T(9)) \\
\\
\mathbf{181} &:= F(1) + (F(3) + F(9)) \times F(5) && = T(1) + T(3) \times (T(9) - T(5)) \\
\\
\mathbf{183} &:= (-F(3) + F(6)) \times F(9) - F(8) && = -T(3) + T(6) \times (T(9) - T(8)) \\
&:= F(3) + F(7) + F(6) \times F(8) && = T(3) \times T(7) - T(6) + T(8) \\
&:= F(5) \times (F(2) + F(9)) + F(6) && = -T(5) + T(2) \times (T(9) + T(6)) \\
&:= F(7) + (F(4) + F(3)) \times F(9) && = (T(7) + T(4)) \times T(3) - T(9) \\
\\
\mathbf{184} &:= F(6) \times (-F(1) + F(4) + F(8)) && = (T(6) + T(1)) \times T(4) - T(8) \\
\mathbf{185} &:= F(1) \times F(5) \times (F(4) + F(9)) && = (-T(1) + T(5)) \times T(4) + T(9) \\
\mathbf{186} &:= (-F(2) + F(9)) \times F(5) + F(8) && = T(2) \times T(9) + T(5) + T(8) \\
\\
\mathbf{189} &:= (F(1) + F(4) + F(5)) \times F(8) && = (T(1) - T(4)) \times (T(5) - T(8)) \\
&:= (-F(2) + F(3) + F(6)) \times F(8) && = T(2) \times (T(3) + T(6) + T(8)) \\
&:= (F(6) + F(3) - F(1)) \times F(8) && = -T(6) + T(3) \times (-T(1) + T(8)) \\
&:= (-F(2) + F(3) \times F(5)) \times F(8) && = (T(2) + T(3)) \times (-T(5) + T(8)) \\
&:= -F(3) + F(5) \times F(9) + F(8) && = (T(3) + T(5)) \times (T(9) - T(8)) \\
&:= F(4) \times (F(6) - F(5)) \times F(8) && = T(4) \times T(6) + T(5) - T(8) \\
&:= F(6) \times (F(1) + F(8)) + F(7) && = T(6) \times (T(1) + T(8) - T(7)) \\
&:= F(4) \times (-F(5) + F(3) \times F(9)) && = T(4) \times T(5) - T(3) + T(9) \\
&:= F(5) + F(6) \times (F(3) + F(8)) && = T(5) \times (T(6) - T(3)) - T(8) \\
\\
\mathbf{192} &:= (F(2) + F(3) + F(8)) \times F(6) && = -T(2) + T(3) \times T(8) - T(6) \\
&:= (-F(2) + F(7)) \times F(3) \times F(6) && = T(2) + T(7) \times T(3) + T(6) \\
\\
\mathbf{193} &:= -F(3) + F(7) \times F(4) \times F(5) && = T(3) \times T(7) + T(4) + T(5) \\
\\
\mathbf{195} &:= (F(3) + F(6) + F(5)) \times F(7) && = (T(3) - T(6)) \times (T(5) - T(7)) \\
&:= (F(5) + F(8)) \times F(6) - F(7) && = T(5) \times (-T(8) + T(6) + T(7)) \\
&:= (F(6) \times F(3) - F(1)) \times F(7) && = T(6) + T(3) \times (T(1) + T(7))
\end{aligned}$$

$$:= (F(3)+F(4))\times(F(5)+F(9)) \quad = (T(3)+T(4))\times T(5)-T(9)$$

$$\mathbf{198} := (F(4)-F(8))\times(F(3)-F(7)) \quad = T(4)+T(8)\times T(3)-T(7)$$
$$:= F(3)\times(F(7)\times F(5)+F(9)) \quad = T(3)\times T(7)-T(5)+T(9)$$

$$\mathbf{199} := -F(4)+F(6)\times F(8)+F(9) \quad = T(4)-T(6)\times(T(8)-T(9))$$
$$\mathbf{200} := (-F(1)+F(8))\times F(3)\times F(5) \quad = -T(1)+T(8)\times T(3)-T(5)$$
$$\mathbf{202} := -F(6)+(-F(4)+F(7))\times F(8) \quad = T(6)\times T(4)+T(7)-T(8)$$

$$\mathbf{204} := (-F(3)\times F(2)+F(6))\times F(9) \quad = T(3)+T(2)\times(T(6)+T(9))$$
$$:= (F(3)+F(1)+F(4))\times F(9) \quad = T(3)\times(-T(1)-T(4)+T(9))$$
$$:= (F(6)\times F(1)-F(3))\times F(9) \quad = -T(6)+(-T(1)+T(3))\times T(9)$$
$$:= (F(6)+F(4)-F(5))\times F(9) \quad = -T(6)+(-T(4)+T(5))\times T(9)$$
$$:= F(3)\times(-F(4)+F(5)\times F(8)) \quad = (T(3)+T(4))\times T(5)-T(8)$$

$$\mathbf{205} := (F(3)+F(7)\times F(4))\times F(5) \quad = (-T(3)+T(7))\times T(4)-T(5)$$

$$\mathbf{207} := (F(2)+F(3)\times F(9))\times F(4) \quad = -T(2)+T(3)\times(T(9)-T(4))$$
$$:= -F(2)+F(7)\times F(3)\times F(6) \quad = (T(2)+T(7))\times T(3)+T(6)$$
$$:= -F(2)+(F(8)+F(5))\times F(6) \quad = -T(2)\times T(8)+T(5)\times T(6)$$

$$\mathbf{208} := (F(4)-F(2))\times F(6)\times F(7) \quad = T(4)\times(-T(2)+T(6))+T(7)$$
$$:= F(3)\times(F(4)+F(5))\times F(7) \quad = (T(3)+T(4))\times(-T(5)+T(7))$$

$$\mathbf{210} := (-F(1)+F(4))\times F(5)\times F(8) \quad = T(1)\times T(4)\times(-T(5)+T(8))$$
$$:= (-F(1)+F(7)-F(3))\times F(8) \quad = (T(1)+T(7))\times T(3)+T(8)$$
$$:= (-F(2)-F(3)+F(7))\times F(8) \quad = T(2)\times(T(3)+T(7)+T(8))$$
$$:= (F(4)+F(5)+F(3))\times F(8) \quad = (-T(4)+T(5))\times(T(3)+T(8))$$
$$:= (-F(4)+F(6))\times F(3)\times F(8) \quad = T(4)\times(-T(6)+T(3)+T(8))$$
$$:= F(3)\times F(4)\times(F(1)+F(9)) \quad = T(3)\times(-T(4)\times T(1)+T(9))$$
$$:= F(3)\times F(8)\times(-F(6)+F(7)) \quad = (T(3)-T(8))\times(T(6)-T(7))$$
$$:= F(6)\times(F(1)+F(8))+F(9) \quad = T(6)\times(T(1)-T(8)+T(9))$$
$$:= F(3)\times(F(2)+F(6)\times F(7)) \quad = T(3)\times(T(2)\times T(6)-T(7))$$
$$:= F(3)+F(6)\times(F(5)+F(8)) \quad = -T(3)+(T(6)-T(5))\times T(8)$$
$$:= F(3)+F(7)\times(F(8)-F(5)) \quad = (T(3)-T(7)+T(8))\times T(5)$$

$$\mathbf{216} := (F(1)+F(8)+F(5))\times F(6) \quad = T(1)\times T(8)\times(-T(5)+T(6))$$
$$:= (-F(3)-F(5)+F(9))\times F(6) \quad = (T(3)-T(5))\times(-T(9)+T(6))$$
$$:= (F(2)+F(6))\times(F(4)+F(8)) \quad = (-T(2)+T(6))\times T(4)+T(8)$$
$$:= (F(7)-F(1))\times(-F(4)+F(8)) \quad = T(7)\times(-T(1)+T(4))-T(8)$$

$$:= F(3) \times (F(4) + F(5) \times F(8)) \qquad = T(3) - T(4) \times (T(5) - T(8))$$

$$\mathbf{218} := (F(4) + F(6)) \times F(8) - F(7) \qquad = T(4) \times T(6) + T(8) - T(7)$$
$$\mathbf{219} := (F(3) \times F(9) + F(5)) \times F(4) \qquad = -T(3) + T(9) \times (T(5) - T(4))$$
$$\mathbf{220} := F(5) \times (-F(4) + F(7) + F(9)) \qquad = -T(5) + T(4) \times T(7) - T(9)$$
$$\mathbf{222} := (F(2) + F(5)) \times (F(4) + F(9)) \qquad = -T(2) + (T(5) - T(4)) \times T(9)$$
$$\mathbf{223} := -F(6) + (F(7) - F(3)) \times F(8) \qquad = -T(6) + T(7) + T(3) \times T(8)$$
$$\mathbf{225} := F(5) \times (F(4) + F(6) + F(9)) \qquad = -T(5) + T(4) \times (-T(6) + T(9))$$
$$\mathbf{229} := -F(5) + F(7) \times (-F(4) + F(8)) \qquad = -T(5) + T(7) \times T(4) - T(8)$$
$$\mathbf{230} := F(3) \times (F(7) + F(9) \times F(4)) \qquad = (T(3) - T(7) + T(9)) \times T(4)$$

$$\mathbf{231} := (-F(3) + F(5) + F(6)) \times F(8) \qquad = T(3) - T(5) \times (T(6) - T(8))$$
$$:= (F(6) \times F(2) + F(4)) \times F(8) \qquad = -T(6) + (-T(2) + T(4)) \times T(8)$$
$$:= (F(6) + F(1) + F(3)) \times F(8) \qquad = -T(6) + (T(1) + T(3)) \times T(8)$$
$$:= -F(6) + F(7) \times F(8) - F(9) \qquad = -T(6) + T(7) \times (-T(8) + T(9))$$

$$\mathbf{232} := (F(3) \times F(7) + F(4)) \times F(6) \qquad = -T(3) + T(7) + T(4) \times T(6)$$
$$:= F(1) - (F(3) - F(7)) \times F(8) \qquad = (T(1) + T(3)) \times T(7) + T(8)$$

$$\mathbf{234} := (-F(3) + F(6)) \times F(4) \times F(7) \qquad = T(3) \times (T(6) - T(4) + T(7))$$
$$:= (F(1) \times F(7)) \times (-F(4) + F(8)) \qquad = (-T(1) + T(7)) \times T(4) - T(8)$$
$$:= (F(2) + F(6)) \times (F(5) + F(8)) \qquad = (-T(2) + T(6)) \times T(5) - T(8)$$
$$:= (-F(3) + F(6)) \times (F(5) + F(9)) \qquad = T(3) \times (-T(6) + T(5) + T(9))$$
$$:= -F(2) + (F(7) + F(9)) \times F(5) \qquad = T(2) \times (T(7) + T(9)) + T(5)$$
$$:= F(4) + (F(7) - F(3)) \times F(8) \qquad = -T(4) + T(7) + T(3) \times T(8)$$
$$:= F(7) \times (-F(3) \times F(6) + F(9)) \qquad = T(7) \times T(3) + T(6) + T(9)$$

$$\mathbf{237} := -F(2) + F(9) \times (F(3) + F(5)) \qquad = (-T(2) + T(9)) \times T(3) - T(5)$$

$$\mathbf{238} := (-F(1) - F(5) + F(7)) \times F(9) \qquad = (T(1) - T(5)) \times (T(7) - T(9))$$
$$:= (F(7) - F(3) \times F(4)) \times F(9) \qquad = T(7) - T(3) \times (T(4) - T(9))$$

$$\mathbf{240} := (-F(1) - F(4) + F(9)) \times F(6) \qquad = (T(1) \times T(4)) \times (T(9) - T(6))$$
$$:= (F(3) + F(6)) \times (F(4) + F(8)) \qquad = -T(3) + T(6) \times T(4) + T(8)$$
$$:= F(5) \times (F(1) + F(7) + F(9)) \qquad = T(5) \times (-T(1) - T(7) + T(9))$$

$$\mathbf{241} := (-F(1) + F(6)) \times F(9) + F(4) \qquad = T(1) - (T(6) - T(9)) \times T(4)$$

$$\mathbf{242} := (-F(4) + F(8)) \times F(7) + F(6) \qquad = -T(4) + T(8) \times (T(7) - T(6))$$
$$:= F(4) + F(7) \times F(8) - F(9) \qquad = -T(4) + T(7) \times (-T(8) + T(9))$$

Selfie Expressions With Factorial, Fibonacci and Triangular Values,
Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

$$\begin{aligned}
\mathbf{243} &:= (-F(2)+F(6))\times F(9)+F(5) && = T(2)\times(T(6)+T(9)+T(5))\\
\\
\mathbf{246} &:= F(3)\times(F(4)\times F(9)+F(8)) && = -T(3)\times(T(4)-T(9))+T(8)\\
&:= -F(3)+(-F(4)+F(9))\times F(6) && = T(3)+T(4)\times(T(9)-T(6))\\
\\
\mathbf{247} &:= (F(2)+F(8)-F(4))\times F(7) && = T(2)-T(8)+T(4)\times T(7)\\
&:= F(2)\times F(7)\times(-F(3)+F(8)) && = T(2)+T(7)+T(3)\times T(8)\\
\\
\mathbf{248} &:= (-F(1)-F(3)+F(9))\times F(6) && = -T(1)+T(3)\times T(9)-T(6)\\
&:= F(6)\times(-F(4)+F(7)+F(8)) && = (T(6)+T(4))\times(-T(7)+T(8))\\
\\
\mathbf{250} &:= -F(3)+F(8)\times(-F(1)+F(7)) && = T(3)\times(T(8)+T(1))+T(7)\\
&:= F(4)-F(7)\times(F(3)-F(8)) && = T(4)\times T(7)+T(3)-T(8)\\
&:= F(5)\times(F(4)+F(7)+F(9)) && = T(5)+T(4)\times T(7)-T(9)\\
\\
\mathbf{252} &:= (-F(1)+F(5)+F(6))\times F(8) && = (T(1)-T(5)+T(6))\times T(8)\\
&:= (-F(2)+F(6))\times(F(3)+F(9)) && = T(2)-T(6)+T(3)\times T(9)\\
&:= F(2)-F(8)+F(9)\times F(6) && = (T(2)-T(8)+T(9))\times T(6)\\
&:= F(7)\times(F(1)+F(8))-F(9) && = T(7)\times T(1)\times(-T(8)+T(9))\\
&:= F(5)-F(7)\times(F(3)-F(8)) && = (-T(5)+T(7)-T(3))\times T(8)\\
&:= -F(6)+F(7)\times(-F(1)+F(8)) && = (-T(6)+T(7))\times T(1)\times T(8)\\
\\
\mathbf{255} &:= -F(1)+(F(9)-F(3))\times F(6) && = (T(1)+T(9))\times T(3)-T(6)\\
\\
\mathbf{256} &:= -F(4)-F(7)+F(6)\times F(9) && = T(4)\times T(7)+T(6)-T(9)\\
&:= F(6)\times(-F(4)+F(1)+F(9)) && = T(6)\times T(4)+T(1)+T(9)\\
\\
\mathbf{259} &:= F(4)-F(6)\times(F(3)-F(9)) && = T(4)-T(6)+T(3)\times T(9)\\
\mathbf{260} &:= (-F(4)+F(7))\times(F(5)+F(8)) && = -T(4)\times T(7)+T(5)\times T(8)\\
\mathbf{261} &:= F(5)-F(6)\times(F(3)-F(9)) && = (T(5)+T(6))\times T(3)+T(9)\\
\\
\mathbf{262} &:= -F(4)-F(6)+F(7)\times F(8) && = T(4)-(T(6)-T(7))\times T(8)\\
&:= F(3)-(F(2)-F(8))\times F(7) && = T(3)\times(T(2)+T(8))+T(7)\\
\\
\mathbf{264} &:= (-F(1)\times F(2)+F(9))\times F(6) && = (T(1)+T(2))\times(T(9)+T(6))\\
&:= (F(3)-F(4)+F(9))\times F(6) && = (-T(3)+T(4))\times(T(9)+T(6))\\
&:= (F(2)-F(9))\times(F(5)-F(7)) && = T(2)\times(T(9)+T(5)+T(7))\\
&:= (-F(3)+F(7))\times(F(4)+F(8)) && = T(3)\times(T(7)+T(4))+T(8)
\end{aligned}$$

Selfie Expressions With Factorial, Fibonacci and Triangular Values,
Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

$$
\begin{aligned}
\mathbf{267} &:= -F(2)\times F(5)+F(6)\times F(9) && = -T(2)+T(5)\times T(6)-T(9)\\
&:= -F(5)+(-F(7)+F(8))\times F(9) && = T(5)-T(7)\times(T(8)-T(9))\\
&:= -F(5)+F(6)\times(F(7)+F(8)) && = T(5)-(T(6)-T(7))\times T(8)
\end{aligned}
$$

$$
\mathbf{269} := F(5)-F(6)\times(F(1)-F(9)) \qquad = T(5)\times T(6)-T(1)-T(9)
$$

$$
\begin{aligned}
\mathbf{270} &:= -F(4)+F(2)+F(6)\times F(9) && = T(4)\times(T(2)-T(6)+T(9))\\
&:= -F(5)+F(4)+F(6)\times F(9) && = T(5)+T(4)\times T(6)+T(9)
\end{aligned}
$$

$$
\mathbf{271} := -F(2)+F(9)\times(F(8)-F(7)) \qquad = T(2)\times(T(9)+T(8))+T(7)
$$

$$
\begin{aligned}
\mathbf{272} &:= (-F(1)\times F(5)+F(7))\times F(9) && = (T(1)+T(5))\times(-T(7)+T(9))\\
&:= (-F(3)-F(4)+F(7))\times F(9) && = (T(3)+T(4))\times(-T(7)+T(9))\\
&:= -F(4)+F(3)+F(8)\times F(7) && = T(4)\times(-T(3)+T(8))-T(7)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{273} &:= (F(6)\times F(3)+F(5))\times F(7) && = T(6)-(T(3)-T(5))\times T(7)\\
&:= (F(6)-F(1))\times F(4)\times F(7) && = T(6)-(T(1)-T(4))\times T(7)\\
&:= (-F(2)+F(6))\times(F(5)+F(9)) && = T(2)+T(6)\times T(5)-T(9)\\
&:= F(3)-F(2)+F(9)\times F(6) && = T(3)\times(-T(2)+T(9))+T(6)\\
&:= (F(6)+F(7))\times(-F(8)+F(9)) && = T(6)-T(7)\times(T(8)-T(9))
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{276} &:= F(2)\times F(7)\times F(8)+F(4) && = -T(2)\times T(7)+T(8)\times T(4)\\
&:= -F(1)+F(9)\times F(6)+F(5) && = (T(1)+T(9))\times(T(6)-T(5))\\
&:= F(4)+F(8)\times(F(5)+F(6)) && = (T(4)+T(8))\times(-T(5)+T(6))
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{280} &:= (F(1)+F(9))\times(F(8)-F(7)) && = (T(1)+T(9)-T(8))\times T(7)\\
&:= F(4)+F(5)+F(6)\times F(9) && = T(4)+T(5)\times T(6)-T(9)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{282} &:= F(3)\times(F(7)+F(9))\times F(4) && = -T(3)\times T(7)+T(9)\times T(4)\\
\mathbf{283} &:= -F(7)+F(6)\times(F(4)+F(9)) && = T(7)+T(6)\times T(4)+T(9)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{285} &:= F(5)\times F(4)\times(-F(3)+F(8)) && = -T(5)+T(4)\times(-T(3)+T(8))\\
&:= F(5)+F(6)\times(F(1)+F(9)) && = T(5)\times(T(6)+T(1))-T(9)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{288} &:= (F(2)+F(6))\times(-F(3)+F(9)) && = -T(2)+T(6)+T(3)\times T(9)\\
&:= (F(7)-F(1))\times(F(4)+F(8)) && = T(7)\times(-T(1)+T(4))+T(8)\\
&:= F(3)+F(7)\times(F(2)+F(8)) && = T(3)\times(T(7)\times T(2)-T(8))
\end{aligned}
$$

$$
\mathbf{290} := (-F(4)+F(7))\times(F(6)+F(8)) \qquad = T(4)\times(-T(7)+T(6)+T(8))
$$

Selfie Expressions With Factorial, Fibonacci and Triangular Values,
Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

$$
\begin{aligned}
\mathbf{294} &:= (F(1)+F(6)+F(5))\times F(8) && = ((T(1)+T(6))\times T(5))-T(8)\\
&:= -F(5)+F(7)\times(F(3)+F(8)) && = (T(5)+T(7))\times T(3)+T(8)\\
\\
\mathbf{297} &:= F(4)\times(-F(5)+F(6)\times F(7)) && = T(4)+T(5)\times T(6)-T(7)\\
\\
\mathbf{304} &:= (-F(2)+F(4)\times F(7))\times F(6) && = T(2)+T(4)\times T(7)+T(6)\\
&:= (F(4)+F(7))\times(-F(3)+F(8)) && = T(4)\times(T(7)+T(3))-T(8)\\
\\
\mathbf{306} &:= (F(2)-F(5)+F(7))\times F(9) && = (T(2)+T(5))\times(-T(7)+T(9))\\
&:= (-F(3)+F(5))\times F(9)\times F(4) && = T(3)-(T(5)-T(9))\times T(4)\\
\\
\mathbf{309} &:= (-F(1)+F(7)\times F(6))\times F(4) && = T(1)+T(7)\times(T(6)-T(4))\\
\\
\mathbf{310} &:= -F(3)+F(7)\times(F(4)+F(8)) && = -T(3)+T(7)\times T(4)+T(8)\\
\\
\mathbf{311} &:= -F(1)+(F(7)\times F(4))\times F(6) && = (T(1)+T(7))\times T(4)+T(6)\\
&:= -F(2)+F(4)\times F(6)\times F(7) && = T(2)-(T(4)-T(6))\times T(7)\\
\\
\mathbf{312} &:= (-F(3)-F(6)+F(9))\times F(7) && = T(3)\times(-T(6)+T(9)+T(7))\\
&:= (-F(2)+F(5)\times F(8))\times F(4) && = (T(2)-T(5))\times(-T(8)+T(4))\\
&:= (F(2)-F(7))\times(F(6)-F(9)) && = -T(2)+(T(7)-T(6))\times T(9)\\
\\
\mathbf{313} &:= F(2)+(F(7)\times(F(4)+F(8))) && = -T(2)+T(7)\times T(4)+T(8)\\
\\
\mathbf{314} &:= F(3)+F(4)\times F(6)\times F(7) && = T(3)+(-T(4)+T(6))\times T(7)\\
\\
\mathbf{315} &:= (-F(1)+F(4)+F(7))\times F(8) && = -T(1)+T(4)\times T(7)+T(8)\\
&:= F(2)\times F(5)\times F(4)\times F(8) && = -T(2)\times T(5)+T(4)\times T(8)\\
&:= (F(3)+F(5)+F(6))\times F(8) && = (T(3)+T(5))\times(-T(6)+T(8))\\
&:= F(5)\times(F(3)+F(1))\times F(8) && = (T(5)-T(3))\times(-T(1)+T(8))\\
&:= F(5)\times F(4)\times(-F(7)+F(9)) && = T(5)\times(-T(4)+T(7))+T(9)\\
&:= F(4)\times(F(2)+F(7)\times F(6)) && = (-T(4)-T(2)+T(7))\times T(6)\\
&:= F(4)+F(6)\times(F(5)+F(9)) && = T(4)\times(T(6)+T(5))-T(9)\\
\\
\mathbf{317} &:= F(5)+F(7)\times(F(4)+F(8)) && = -T(5)-T(7)+T(4)\times T(8)\\
\mathbf{325} &:= F(5)\times(F(4)+F(3))\times F(7) && = -T(5)+T(4)\times(T(3)+T(7))\\
\\
\mathbf{330} &:= F(3)\times(-F(1)+F(9))\times F(5) && = (T(3)+T(1))\times T(9)+T(5)\\
&:= F(3)\times(F(8)\times F(6)-F(4)) && = (T(3)-T(8))\times(-T(6)+T(4))
\end{aligned}
$$

$$\begin{aligned}
\mathbf{331} &:= -F(5) + (F(4) + F(7)) \times F(8) && = T(5) + T(4) \times T(7) + T(8)\\
\mathbf{333} &:= -F(4) + (F(8) \times F(3)) \times F(6) && = T(4) \times T(8) - T(3) - T(6)\\
\mathbf{335} &:= -F(2) + (F(7) + F(4)) \times F(8) && = T(2) - T(7) + T(4) \times T(8)
\end{aligned}$$

$$\begin{aligned}
\mathbf{336} &:= (-F(2) + F(4)) \times F(8) \times F(6) && = -T(2) + T(4) \times T(8) - T(6)\\
&:= (F(3) \times F(1)) \times F(6) \times F(8) && = T(3) \times (-T(1) + T(6) + T(8))\\
&:= (-F(5) + F(7) + F(6)) \times F(8) && = -T(5) \times T(7) + T(6) \times T(8)\\
&:= F(3) \times (F(4) + F(5)) \times F(8) && = (T(3) + T(4)) \times (-T(5) + T(8))\\
&:= F(4) \times F(6) \times (F(1) + F(7)) && = (-T(4) + T(6) + T(1)) \times T(7)\\
&:= (-F(7) + F(8)) \times (F(6) + F(9)) && = T(7) \times (T(8) + T(6) - T(9))
\end{aligned}$$

$$\begin{aligned}
\mathbf{338} &:= F(3) + (F(7) + F(4)) \times F(8) && = T(3) - T(7) + T(4) \times T(8)\\
\mathbf{339} &:= F(2) + F(7) \times (F(5) + F(8)) && = (-T(2) + T(7)) \times T(5) - T(8)\\
\mathbf{342} &:= F(3) \times (F(2) + F(5) \times F(9)) && = T(3) \times (-T(2) + T(5) + T(9))\\
\mathbf{344} &:= F(6) + (F(4) + F(7)) \times F(8) && = (T(6) - T(4)) \times T(7) + T(8)\\
\mathbf{352} &:= (F(7) + F(4)) \times (F(1) + F(8)) && = T(7) + (T(4) - T(1)) \times T(8)\\
\mathbf{360} &:= (-F(2) + F(8)) \times (F(7) + F(5)) && = T(2) \times (T(8) - T(7)) \times T(5)\\
\mathbf{361} &:= (-F(4) + F(7)) \times F(9) + F(8) && = T(4) \times T(7) + T(9) + T(8)\\
\mathbf{365} &:= F(5) \times (F(4) \times F(7) + F(9)) && = (T(5) - T(4)) \times (T(7) + T(9))\\
\mathbf{369} &:= -F(5) + (F(7) - F(3)) \times F(9) && = T(5) \times T(7) - T(3) - T(9)\\
\mathbf{370} &:= (F(4) + F(7)) \times F(8) + F(9) && = T(4) \times (T(7) - T(8) + T(9))\\
\mathbf{375} &:= -F(3) + F(7) \times (-F(5) + F(9)) && = (-T(3) + T(7)) \times T(5) + T(9)\\
\mathbf{376} &:= -F(1) + F(7) \times (-F(5) + F(9)) && = T(1) + T(7) \times T(5) - T(9)\\
\mathbf{377} &:= F(7) \times (F(4) \times F(8) - F(9)) && = -T(7) + T(4) \times T(8) + T(9)
\end{aligned}$$

$$\begin{aligned}
\mathbf{378} &:= (F(6) + F(2)) \times F(3) \times F(8) && = T(6) \times (-T(2) \times T(3) + T(8))\\
&:= (F(6) + F(7) - F(4)) \times F(8) && = T(6) \times (-T(7) + T(4) + T(8))\\
&:= F(2) + F(7) \times (-F(5) + F(9)) && = T(2) + T(7) \times T(5) - T(9)
\end{aligned}$$

$$\begin{aligned}
\mathbf{390} &:= (-F(4) + F(9) - F(2)) \times F(7) && = T(4) \times (-T(9) + T(2) \times T(7))\\
&:= (F(3) + F(7)) \times (F(5) + F(8)) && = T(3) + T(7) \times T(5) - T(8)\\
&:= F(4) \times F(5) \times (-F(6) + F(9)) && = T(4) \times (T(5) - T(6) + T(9))\\
&:= F(7) \times (F(1) - F(5) + F(9)) && = (T(7) + T(1)) \times T(5) - T(9)
\end{aligned}$$

$$\begin{aligned}
\mathbf{399} &:= (F(1) + F(7) + F(5)) \times F(8) && = (T(1) + T(7)) \times T(5) - T(8)\\
&:= (-F(5) \times F(4) + F(9)) \times F(8) && = -T(5) + T(4) \times T(9) - T(8)
\end{aligned}$$

$$\begin{aligned}
\mathbf{403} &:= -F(5) + (-F(1) + F(7)) \times F(9) && = (T(5) + T(1)) \times T(7) - T(9)\\
\mathbf{405} &:= F(5) \times (F(4) \times F(9) - F(8)) && = (T(5) - T(4)) \times (T(9) + T(8))\\
\mathbf{408} &:= (F(2) + F(5)) \times F(3) \times F(9) && = T(2) + (T(5) - T(3)) \times T(9)
\end{aligned}$$

Selfie Expressions With Factorial, Fibonacci and Triangular Values,
Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

$$
\begin{aligned}
\mathbf{420} &:= (-F(1)+F(7)+F(6))\times F(8) && = T(1)\times T(7)\times(-T(6)+T(8))\\
&:= (F(7)+F(3)+F(5))\times F(8) && = T(7)\times(-T(3)-T(5)+T(8))\\
\\
\mathbf{424} &:= F(6)+(F(9)-F(3))\times F(7) && = (T(6)+T(9))\times T(3)+T(7)\\
\\
\mathbf{432} &:= (F(3)+F(9))\times(-F(1)+F(7)) && = T(3)\times(T(9)-T(1)+T(7))\\
&:= F(4)-(F(1)-F(9))\times F(7) && = T(4)\times(T(1)+T(9))-T(7)\\
\\
\mathbf{437} &:= -F(1)\times F(5)+F(7)\times F(9) && = (-T(1)+T(5))\times T(7)+T(9)\\
\mathbf{439} &:= -F(1)-F(3)+F(7)\times F(9) && = T(1)+T(3)\times(T(7)+T(9))\\
\mathbf{441} &:= F(2)-F(3)+F(7)\times F(9) && = T(2)+T(3)\times(T(7)+T(9))\\
\\
\mathbf{450} &:= F(2)\times F(6)+F(7)\times F(9) && = (T(2)-T(6)+T(7))\times T(9)\\
&:= -F(5)+F(7)\times(F(1)+F(9)) && = T(5)\times(T(7)-T(1))+T(9)\\
&:= -F(5)+F(7)\times(F(2)+F(9)) && = (-T(5)+T(7)-T(2))\times T(9)\\
\\
\mathbf{452} &:= -F(4)+(F(2)+F(9))\times F(7) && = T(4)\times(T(2)+T(9))-T(7)\\
\mathbf{462} &:= (F(4)+F(6))\times F(3)\times F(8) && = (-T(4)+T(6))\times(T(3)+T(8))\\
\\
\mathbf{468} &:= (-F(1)+F(9)+F(4))\times F(7) && = -(T(1)-T(9))\times T(4)+T(7)\\
&:= (-F(2)+F(7))\times(F(5)+F(9)) && = T(2)+T(7)\times T(5)+T(9)\\
\\
\mathbf{480} &:= F(4)\times(-F(3)+F(9))\times F(5) && = (T(4)+T(3))\times(T(9)-T(5))\\
\mathbf{483} &:= (F(6)\times F(4)-F(2))\times F(8) && = T(6)\times(-T(4)-T(2)+T(8))\\
\mathbf{485} &:= F(5)\times(F(8)\times F(4)+F(9)) && = T(5)\times T(8)-T(4)-T(9)\\
\\
\mathbf{486} &:= F(5)\times F(7)\times F(6)-F(9) && = T(5)\times T(7)+T(6)+T(9)\\
&:= F(4)\times(F(9)\times F(5)-F(6)) && = T(4)\times T(9)+T(5)+T(6)\\
\\
\mathbf{489} &:= F(4)\times F(9)\times F(5)-F(8) && = (-T(4)+T(9))\times T(5)-T(8)\\
&:= F(4)\times(-F(5)+F(6)\times F(8)) && = (T(4)+T(5))\times T(6)-T(8)\\
\\
\mathbf{495} &:= F(4)\times F(5)\times(-F(2)+F(9)) && = T(4)\times T(5)\times T(2)+T(9)\\
\mathbf{497} &:= -F(7)+F(5)\times F(4)\times F(9) && = -T(7)+(T(5)\times(-T(4)+T(9)))\\
\\
\mathbf{504} &:= (F(1)+F(3))\times F(6)\times F(8) && = (-T(1)-T(3)+T(6))\times T(8)\\
&:= F(2)\times F(4)\times F(6)\times F(8) && = (T(2)-T(4)+T(6))\times T(8)\\
&:= (F(7)-F(2))\times F(3)\times F(8) && = T(7)\times(-T(2)\times T(3)+T(8))\\
&:= (F(7)-F(2))\times(F(6)+F(9)) && = T(7)\times(T(2)\times T(6)-T(9))
\end{aligned}
$$

$$:= F(6) \times (-F(5) + F(3) \times F(9)) \quad = T(6) \times (-T(5) - T(3) + T(9))$$

$$\mathbf{505} := (-F(4) + F(6) \times F(7)) \times F(5) \quad = T(4) \times (T(6) + T(7)) + T(5)$$
$$\mathbf{509} := F(4) \times F(6) \times F(8) + F(5) \quad = -T(4) - T(6) + T(8) \times T(5)$$

$$\mathbf{510} := (-F(1) + F(8) - F(5)) \times F(9) \quad = (T(1) + T(8)) \times T(5) - T(9)$$
$$:= (-F(2) + F(4) + F(7)) \times F(9) \quad = (T(2) \times T(4)) \times (-T(7) + T(9))$$
$$:= F(4) \times (F(3) + F(6) \times F(8)) \quad = T(4) \times (-T(3) + T(6) + T(8))$$

$$\mathbf{519} := -F(2) + F(6) \times F(7) \times F(5) \quad = (-T(2) + T(6)) \times T(7) + T(5)$$

$$\mathbf{525} := (F(6) \times F(4) + F(1)) \times F(8) \quad = T(6) \times (-T(4) - T(1) + T(8))$$
$$:= (F(2) + F(6) \times F(7)) \times F(5) \quad = (T(2) \times T(6) - T(7)) \times T(5)$$
$$:= F(5) \times F(4) \times (F(1) + F(9)) \quad = T(5) \times (-T(4) \times T(1) + T(9))$$

$$\mathbf{540} := F(4) \times F(5) \times (F(3) + F(9)) \quad = T(4) \times (T(5) - T(3) + T(9))$$
$$:= F(3) \times (F(8) \times F(7) - F(4)) \quad = (T(3) - T(8)) \times (-T(7) + T(4))$$

$$\mathbf{546} := F(2) \times F(7) \times (F(6) + F(9)) \quad = T(2) + T(7) \times T(6) - T(9)$$
$$\mathbf{552} := (F(3) + F(8)) \times F(4) \times F(6) \quad = T(3) + (T(8) - T(4)) \times T(6)$$
$$\mathbf{557} := F(7) - (F(5) - F(8)) \times F(9) \quad = -T(7) + T(5) \times T(8) + T(9)$$

$$\mathbf{567} := (F(2) + F(6)) \times F(8) \times F(4) \quad = -T(2) + (T(6) + T(8)) \times T(4)$$
$$:= (F(2) - F(6) + F(9)) \times F(8) \quad = T(2) \times T(6) \times (T(9) - T(8))$$
$$:= (F(5) \times F(6) - F(7)) \times F(8) \quad = T(5) + T(6) \times T(7) - T(8)$$
$$:= (F(6) + F(1)) \times F(4) \times F(8) \quad = T(6) \times (T(1) - T(4) + T(8))$$
$$:= F(7) \times (F(6) + F(9)) + F(8) \quad = (T(7) - T(6)) \times (T(9) + T(8))$$

$$\mathbf{575} := (F(4) \times F(9) + F(7)) \times F(5) \quad = -T(4) + T(9) \times (T(7) - T(5))$$
$$\mathbf{576} := (F(3) + F(9)) \times (-F(5) + F(8)) \quad = T(3) \times (T(9) + T(5) + T(8))$$

$$\mathbf{588} := (-F(2) + F(9) - F(5)) \times F(8) \quad = T(2) + T(9) + T(5) \times T(8)$$
$$:= (F(7) + F(2)) \times (F(6) + F(9)) \quad = T(7) \times (-T(2) - T(6) + T(9))$$

$$\mathbf{624} := F(3) \times F(6) \times (F(5) + F(9)) \quad = -T(3) + T(6) \times (-T(5) + T(9))$$
$$:= (F(4) + F(8)) \times (-F(6) + F(9)) \quad = (T(4) - T(8)) \times (T(6) - T(9))$$

$$\mathbf{630} := (-F(4) + F(8)) \times (F(2) + F(9)) \quad = T(4) \times (T(8) \times T(2) - T(9))$$
$$:= (F(5) + F(7)) \times (F(1) + F(9)) \quad = (-T(5) + T(7) + T(1)) \times T(9)$$
$$:= F(8) \times (F(2) - F(5) + F(9)) \quad = (T(8) + T(2)) \times T(5) + T(9)$$

Selfie Expressions With Factorial, Fibonacci and Triangular Values,
Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

$$
\begin{aligned}
\mathbf{633} &:= F(8) + (F(5) + F(7)) \times F(9) && = (T(8) - T(5)) \times T(7) + T(9) \\
\mathbf{637} &:= F(7) \times (F(4) \times F(5) + F(9)) && = -T(7) - T(4) + T(5) \times T(9) \\
\mathbf{638} &:= (F(1) + F(8)) \times (-F(5) + F(9)) && = -T(1) - T(8) + T(5) \times T(9) \\
\mathbf{646} &:= (F(1) + F(7) + F(5)) \times F(9) && = -T(1) - T(7) + T(5) \times T(9) \\
\mathbf{672} &:= (F(7) + F(4)) \times F(3) \times F(8) && = T(7) \times (T(4) \times T(3) - T(8)) \\
\mathbf{675} &:= -F(5) + (F(8) - F(2)) \times F(9) && = T(5) \times T(8) + T(2) \times T(9) \\
\mathbf{680} &:= (F(4) + F(1)) \times F(9) \times F(5) && = -T(4) + (T(1) + T(9)) \times T(5) \\
\mathbf{690} &:= F(5) \times (F(6) \times F(7) + F(9)) && = T(5) \times (T(6) + T(7)) - T(9) \\
\mathbf{693} &:= F(8) \times (F(2) - F(3) + F(9)) && = T(8) \times T(2) \times T(3) + T(9) \\
\mathbf{708} &:= -F(2) - F(5) + F(9) \times F(8) && = -T(2) + T(5) \times T(9) + T(8) \\
\mathbf{710} &:= F(1) - F(5) + F(9) \times F(8) && = -T(1) + T(5) \times T(9) + T(8) \\
\mathbf{711} &:= F(3) - F(5) + F(8) \times F(9) && = (T(3) + T(5)) \times T(8) - T(9) \\
\mathbf{714} &:= (F(6) - F(1)) \times F(4) \times F(9) && = T(6) \times (-T(1) - T(4) + T(9)) \\
\mathbf{717} &:= -F(3) + F(5) + F(9) \times F(8) && = T(3) + T(5) \times T(9) + T(8)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{720} &:= (-F(4) + F(8)) \times F(5) \times F(6) && = T(4) \times (T(8) + T(5) + T(6)) \\
&:= -F(3) + F(8) \times F(9) + F(6) && = (T(3) - T(8)) \times (-T(9) + T(6)) \\
&:= F(5) + (F(8) + F(9)) \times F(7) && = -T(5) \times T(8) + T(9) \times T(7)
\end{aligned}
$$

$$
\mathbf{735} := F(5) \times (-F(1) + F(6)) \times F(8) \qquad = T(5) - (T(1) - T(6)) \times T(8)
$$

$$
\begin{aligned}
\mathbf{756} &:= (-F(2) + F(7)) \times F(4) \times F(8) && = (T(2) + T(7) - T(4)) \times T(8) \\
&:= (F(7) - F(1)) \times F(4) \times F(8) && = T(7) \times (T(1) - T(4) + T(8)) \\
&:= F(3) \times F(8) \times (F(5) + F(7)) && = (T(3) + T(8) - T(5)) \times T(7) \\
&:= F(6) + F(9) \times (F(2) + F(8)) && = (-T(6) + T(9) - T(2)) \times T(8)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{795} &:= F(7) + (F(3) + F(8)) \times F(9) && = T(7) \times (-T(3) + T(8)) - T(9) \\
\mathbf{803} &:= F(4) \times F(6) \times F(9) - F(7) && = (-T(4) + T(6)) \times (T(9) + T(7)) \\
\mathbf{810} &:= F(4) \times (-F(3) + F(6) \times F(9)) && = T(4) \times (T(3) \times T(6) - T(9))
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{816} &:= (F(3) + F(2)) \times F(6) \times F(9) && = T(3) - (T(2) - T(6)) \times T(9) \\
&:= (-F(5) + F(6) + F(8)) \times F(9) && = T(5) + T(6) \times T(8) + T(9)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{819} &:= (F(6) + F(7)) \times (F(5) + F(9)) && = -T(6) + T(7) \times (-T(5) + T(9)) \\
\mathbf{827} &:= F(5) \times F(6) \times F(8) - F(7) && = T(5) \times (T(6) + T(8)) - T(7)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{840} &:= F(5) \times F(1) \times F(6) \times F(8) && = T(5) \times (-T(1) + T(6) + T(8)) \\
&:= (-F(1) + F(8)) \times (F(6) + F(9)) && = (T(1) - T(8)) \times (T(6) - T(9)) \\
&:= F(4) \times (F(9) + F(2)) \times F(6) && = (-T(4) + T(9)) \times (T(2) + T(6))
\end{aligned}
$$

$$:= F(6) \times (F(3) + F(4)) \times F(8) \qquad = T(6) \times (-T(3) + T(4) + T(8))$$

$$\mathbf{846} := (F(8) - F(4)) \times (F(7) + F(9)) \qquad = T(8) - (T(4) - T(7)) \times T(9)$$
$$\mathbf{861} := (-F(2) + F(6) + F(9)) \times F(8) \qquad = -T(2) + (-T(6) + T(9)) \times T(8)$$
$$\mathbf{882} := F(3) \times (F(6) + F(7)) \times F(8) \qquad = -T(3) \times T(6) + T(7) \times T(8)$$
$$\mathbf{899} := (-F(4) + F(9)) \times (F(6) + F(8)) \qquad = -T(4) + T(9) \times T(6) - T(8)$$
$$\mathbf{962} := (F(5) \times F(6) + F(9)) \times F(7) \qquad = T(5) \times (T(6) + T(9)) - T(7)$$
$$\mathbf{966} := (-F(2) + F(9) - F(7)) \times F(8) \qquad = T(2) - T(9) + T(7) \times T(8)$$
$$\mathbf{986} := (F(3) \times F(7) + F(4)) \times F(9) \qquad = T(3) - T(7) \times (T(4) - T(9))$$
$$\mathbf{1008} := (F(2) + F(5)) \times F(8) \times F(6) \qquad = (-T(2) + T(5) + T(8)) \times T(6)$$

$$\mathbf{1320} := F(5) \times (F(9) - F(1)) \times F(6) \qquad = (T(5) + T(9)) \times (T(1) + T(6))$$
$$:= F(4) \times (-F(3) + F(7) \times F(9)) \qquad = T(4) \times T(3) + T(7) \times T(9)$$

$$\mathbf{1323} := F(8) \times F(4) \times (-F(7) + F(9)) \qquad = T(8) \times (T(4) + T(7)) - T(9)$$
$$\mathbf{1326} := (-F(4) + F(8) \times F(3)) \times F(9) \qquad = (-T(4) + T(8)) \times (T(3) + T(9))$$
$$\mathbf{1344} := (F(7) \times F(5) - F(2)) \times F(8) \qquad = T(7) \times (T(5) - T(2) + T(8))$$
$$\mathbf{1350} := F(5) \times (-F(3) + F(6) \times F(9)) \qquad = (T(5) - T(3) + T(6)) \times T(9)$$
$$\mathbf{1407} := (-F(2) + F(3) \times F(9)) \times F(8) \qquad = T(2) - (T(3) - T(9)) \times T(8)$$
$$\mathbf{1598} := (F(3) \times F(7) + F(8)) \times F(9) \qquad = T(3) - T(7) + T(8) \times T(9)$$
$$\mathbf{1680} := F(6) \times (-F(4) + F(7)) \times F(8) \qquad = T(6) \times T(4) \times (-T(7) + T(8))$$
$$\mathbf{1911} := F(7) \times (F(6) - F(2)) \times F(8) \qquad = (T(7) + T(6)) \times (T(2) + T(8))$$
$$\mathbf{2184} := F(2) \times F(7) \times F(6) \times F(8) \qquad = T(2) \times (-T(7) + T(6) \times T(8))$$
$$\mathbf{2205} := F(5) \times F(8) \times (-F(7) + F(9)) \qquad = (-T(5) + T(8) - T(7)) \times T(9)$$
$$\mathbf{2520} := (F(3) + F(7)) \times F(6) \times F(8) \qquad = T(3) \times T(7) \times (-T(6) + T(8))$$
$$\mathbf{4368} := F(3) \times F(7) \times F(6) \times F(8) \qquad = T(3) \times (-T(7) + T(6) \times T(8))$$
$$\mathbf{6552} := F(4) \times F(6) \times F(7) \times F(8) \qquad = (T(4) \times T(6) - T(7)) \times T(8)$$

$$\mathbf{10920} := F(5) \times F(7) \times F(6) \times F(8) \qquad = T(5) \times (-T(7) + T(6) \times T(8))$$

7.3 Five-Terms Expressions

Due to high quantity of numbers, this shall be completed later on.

8 Interesting Results

In this section, we present some interesting results obtained from all values given in section 4.1.

8.1 Fibonacci Values: Multiplication

Here we have **selfie expressions** where only multiplication operation is used with Fibonacci sequence values.

$$\mathbf{42} := F(3) \times F(8) = T(3) + T(8)$$

$$\begin{aligned}
\mathbf{2} &:= F(1) \times F(2) \times F(3) = -T(1) - T(2) + T(3) \\
\mathbf{10} &:= F(1) \times F(3) \times F(5) = T(1) - T(3) + T(5) \\
\mathbf{15} &:= F(2) \times F(4) \times F(5) = T(2) \times T(4) - T(5) \\
\mathbf{16} &:= F(1) \times F(3) \times F(6) = T(1) - T(3) + T(6) \\
\mathbf{30} &:= F(3) \times F(4) \times F(5) = T(3) \times (-T(4) + T(5)) \\
\mathbf{39} &:= F(1) \times F(4) \times F(7) = T(1) + T(4) + T(7)
\end{aligned}$$

$$\begin{aligned}
\mathbf{15} &:= F(1) \times F(2) \times F(4) \times F(5) = T(1) \times T(2) \times T(4) - T(5) \\
\mathbf{26} &:= F(1) \times F(2) \times F(3) \times F(7) = T(1) + T(2) - T(3) + T(7) \\
\mathbf{30} &:= F(2) \times F(3) \times F(5) \times F(4) = (T(2) \times T(3) - T(5)) \times T(4) \\
\mathbf{40} &:= F(1) \times F(2) \times F(5) \times F(6) = T(1) + T(2) + T(5) + T(6) \\
\mathbf{102} &:= F(2) \times F(1) \times F(4) \times F(9) = T(2) \times (-T(1) - T(4) + T(9)) \\
\mathbf{120} &:= F(2) \times F(4) \times F(6) \times F(5) = (-T(2) - T(4) + T(6)) \times T(5) \\
\mathbf{168} &:= F(2) \times F(1) \times F(6) \times F(8) = T(2) \times (-T(1) + T(6) + T(8)) \\
\mathbf{315} &:= F(2) \times F(5) \times F(4) \times F(8) = -T(2) \times T(5) + T(4) \times T(8) \\
\mathbf{336} &:= F(3) \times F(1) \times F(6) \times F(8) = T(3) \times (-T(1) + T(6) + T(8)) \\
\mathbf{504} &:= F(2) \times F(4) \times F(6) \times F(8) = (T(2) - T(4) + T(6)) \times T(8) \\
\mathbf{510} &:= F(5) \times F(1) \times F(4) \times F(9) = T(5) + (T(1) + T(4)) \times T(9) \\
\mathbf{840} &:= F(5) \times F(1) \times F(6) \times F(8) = T(5) \times (-T(1) + T(6) + T(8))
\end{aligned}$$

$$\begin{aligned}
\mathbf{2184} &:= F(2) \times F(7) \times F(6) \times F(8) = T(2) \times (-T(7) + T(6) \times T(8)) \\
\mathbf{4368} &:= F(3) \times F(7) \times F(6) \times F(8) = T(3) \times (-T(7) + T(6) \times T(8)) \\
\mathbf{6552} &:= F(4) \times F(6) \times F(7) \times F(8) = (T(4) \times T(6) - T(7)) \times T(8)
\end{aligned}$$

$$\mathbf{10920} := F(5) \times F(7) \times F(6) \times F(8) = T(5) \times (-T(7) + T(6) \times T(8))$$

8.2 Fibonacci Values: Addition

Here we have **selfie expressions** where only the operation of addition is used with Fibonacci sequence values.

$$\begin{aligned}
\mathbf{3} &:= F(2) + F(3) = -T(2) + T(3) \\
\mathbf{11} &:= F(4) + F(6) = -T(4) + T(6)
\end{aligned}$$

$$\begin{aligned}
\mathbf{8} &:= F(1) + F(3) + F(5) = -T(1) - T(3) + T(5) \\
\mathbf{12} &:= F(1) + F(4) + F(6) = T(1) - T(4) + T(6) \\
\mathbf{16} &:= F(4) + F(5) + F(6) = T(4) - T(5) + T(6) \\
\mathbf{17} &:= F(1) + F(4) + F(7) = -T(1) - T(4) + T(7) \\
\mathbf{25} &:= F(1) + F(4) + F(8) = -T(1) - T(4) + T(8) \\
\mathbf{38} &:= F(2) + F(4) + F(9) = T(2) - T(4) + T(9)
\end{aligned}$$

Selfie Expressions With Factorial, Fibonacci and Triangular Values,
Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

$$\begin{aligned}
\mathbf{7} &:= F(1)+F(2)+F(3)+F(4) = T(1)\times T(2)-T(3)+T(4)\\
\mathbf{9} &:= F(1)+F(2)+F(3)+F(5) = (T(1)+T(2))\times T(3)-T(5)\\
\mathbf{11} &:= F(1)+F(3)+F(4)+F(5) = T(1)\times T(3)-T(4)+T(5)\\
\mathbf{12} &:= F(1)+F(2)+F(3)+F(6) = -T(1)\times T(2)-T(3)+T(6)\\
\mathbf{13} &:= F(1)+F(2)+F(4)+F(6) = -T(1)+T(2)-T(4)+T(6)\\
\mathbf{14} &:= F(2)+F(3)+F(4)+F(6) = -T(2)+T(3)-T(4)+T(6)\\
\mathbf{17} &:= F(1)+F(4)+F(5)+F(6) = T(1)+T(4)-T(5)+T(6)\\
\mathbf{20} &:= F(1)+F(5)+F(2)+F(7) = (T(1)+T(5))\times T(2)-T(7)\\
\mathbf{22} &:= F(1)+F(4)+F(5)+F(7) = -T(1)+T(4)-T(5)+T(7)\\
\mathbf{25} &:= F(2)+F(6)+F(4)+F(7) = T(2)\times T(6)-T(4)-T(7)\\
\mathbf{27} &:= F(2)+F(3)+F(4)+F(8) = T(2)+T(3)\times T(4)-T(8)\\
\mathbf{28} &:= F(3)+F(5)+F(6)+F(7) = -T(3)-T(5)+T(6)+T(7)\\
\mathbf{30} &:= F(1)+F(4)+F(5)+F(8) = -T(1)+T(4)-T(5)+T(8)\\
\mathbf{36} &:= F(3)+F(5)+F(6)+F(8) = -T(3)-T(5)+T(6)+T(8)\\
\mathbf{38} &:= F(2)+F(4)+F(7)+F(8) = T(2)\times T(4)-T(7)+T(8)\\
\mathbf{39} &:= F(1)+F(2)+F(4)+F(9) = T(1)+T(2)-T(4)+T(9)\\
\mathbf{40} &:= F(1)+F(3)+F(4)+F(9) = -T(1)+T(3)-T(4)+T(9)\\
\mathbf{42} &:= F(2)+F(3)+F(5)+F(9) = -T(2)\times T(3)+T(5)+T(9)\\
\mathbf{43} &:= F(1)+F(6)+F(7)+F(8) = -T(1)\times T(6)+T(7)+T(8)\\
\mathbf{43} &:= F(2)+F(4)+F(5)+F(9) = T(2)+T(4)-T(5)+T(9)\\
\mathbf{44} &:= F(3)+F(4)+F(5)+F(9) = -T(3)-T(4)+T(5)+T(9)\\
\mathbf{48} &:= F(2)+F(5)+F(6)+F(9) = -T(2)-T(5)+T(6)+T(9)
\end{aligned}$$

8.3 Fibonacci Values: Addition and Subtraction

Here we have **selfie expressions** where only the operations of addition and subtraction are used Fibonacci sequence values.

$$\mathbf{8} := -F(7)+F(8) = -T(7)+T(8)$$

$$\begin{aligned}
\mathbf{4} &:= -F(1)+F(3)+F(4) = -T(1)\times T(3)+T(4)\\
&:= -F(2)-F(6)+F(7) = -T(2)-T(6)+T(7)
\end{aligned}$$

$$\begin{aligned}
\mathbf{6} &:= F(1)-F(6)+F(7) \quad = -T(1)-T(6)+T(7)\\
&:= -F(2)+F(3)+F(5) = -T(2)-T(3)+T(5)
\end{aligned}$$

$$\begin{aligned}
\mathbf{7} &:= -F(1)-F(7)+F(8) = -T(1)-T(7)+T(8)\\
\mathbf{9} &:= F(1)-F(7)+F(8) \quad = T(1)-T(7)+T(8)
\end{aligned}$$

$$\begin{aligned}
\mathbf{10} &:= -F(1)+F(4)+F(6) = -T(1)-T(4)+T(6)\\
&:= -F(2)-F(3)+F(7) = -T(2)\times T(3)+T(7)
\end{aligned}$$

Selfie Expressions With Factorial, Fibonacci and Triangular Values,
Zenodo, Feb. 20, 2019, pp. 1-180, http://doi.org/10.5281/zenodo.2574151

$$
\begin{aligned}
\mathbf{12} &:= -F(2) - F(6) + F(8) = -T(2) - T(6) + T(8)\\
&:= -F(2) - F(8) + F(9) = T(2) - T(8) + T(9)\\
&:= F(3) - F(4) + F(7) \quad = -T(3) - T(4) + T(7)
\end{aligned}
$$

$$
\mathbf{14} := F(1) - F(6) + F(8) \quad = -T(1) - T(6) + T(8)
$$

$$
\begin{aligned}
\mathbf{15} &:= -F(2) + F(4) + F(7) = -T(2) - T(4) + T(7)\\
&:= F(3) - F(8) + F(9) \quad = T(3) - T(8) + T(9)
\end{aligned}
$$

$$
\mathbf{17} := -F(2) + F(5) + F(7) = T(2) \times T(5) - T(7)
$$

$$
\begin{aligned}
\mathbf{18} &:= -F(2) - F(3) + F(8) = -T(2) \times T(3) + T(8)\\
&:= -F(3) - F(2) + F(8) = -T(3) \times T(2) + T(8)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{20} &:= -F(2) - F(7) + F(9) = T(2) - T(7) + T(9)\\
&:= F(3) - F(4) + F(8) \quad = -T(3) - T(4) + T(8)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{23} &:= -F(2) + F(4) + F(8) = -T(2) - T(4) + T(8)\\
&:= F(3) - F(7) + F(9) \quad = T(3) - T(7) + T(9)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{25} &:= -F(1) - F(6) + F(9) = T(1) - T(6) + T(9)\\
\mathbf{27} &:= F(2) - F(6) + F(9) \quad = T(2) - T(6) + T(9)\\
\mathbf{29} &:= -F(3) - F(4) + F(9) = -T(3) - T(4) + T(9)\\
\mathbf{30} &:= F(1) - F(5) + F(9) \quad = -T(1) \times T(5) + T(9)\\
\mathbf{32} &:= F(2) - F(4) + F(9) \quad = -T(2) - T(4) + T(9)\\
\mathbf{36} &:= -F(1) + F(4) + F(9) = T(1) - T(4) + T(9)
\end{aligned}
$$

$$
\mathbf{0} := F(5) + F(6) + F(8) - F(9) \quad = (T(5) + T(6) - T(8)) \times T(9)
$$

$$
\begin{aligned}
\mathbf{1} &:= F(1) + F(2) + F(3) - F(4) \quad = -T(1) \times T(2) - T(3) + T(4)\\
&:= F(1) + F(3) + F(4) - F(5) \quad = T(1) \times T(3) + T(4) - T(5)\\
&:= F(2) + F(4) + F(5) - F(6) \quad = -T(2) + T(4) + T(5) - T(6)\\
&:= F(2) + F(6) + F(7) - F(8) \quad = -T(2) \times T(6) + T(7) + T(8)\\
&:= -F(3) - F(5) - F(7) + F(8) = -T(3) + T(5) + T(7) - T(8)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{2} &:= -F(1) - F(3) - F(6) + F(7) = T(1) - T(3) - T(6) + T(7)\\
&:= -F(2) - F(3) - F(4) + F(6) = -T(2) - T(3) - T(4) + T(6)\\
&:= -F(2) - F(3) - F(6) + F(7) = T(2) + T(3) + T(6) - T(7)\\
&:= F(3) + F(4) + F(5) - F(6) \quad = T(3) - T(4) - T(5) + T(6)\\
&:= F(3) + F(5) + F(6) - F(7) \quad = -T(3) + T(5) + T(6) - T(7)\\
&:= -F(4) - F(6) - F(8) + F(9) = -T(4) + T(6) + T(8) - T(9)
\end{aligned}
$$

$$\begin{aligned}
\mathbf{3} &:= -F(1) - F(2) - F(6) + F(7) = -T(1) - T(2) - T(6) + T(7)\\
&:= F(1) - F(4) - F(6) + F(7) \quad = T(1) \times T(4) + T(6) - T(7)\\
&:= -F(3) - F(4) - F(5) + F(7) = T(3) + T(4) + T(5) - T(7)\\
&:= F(4) + F(6) + F(7) - F(8) \quad = -T(4) + T(6) + T(7) - T(8)
\end{aligned}$$

$$\begin{aligned}
\mathbf{4} &:= -F(1) - F(2) - F(3) + F(6) = T(1) - T(2) \times T(3) + T(6)\\
&:= F(1) - F(3) - F(4) + F(6) \quad = -T(1) - T(3) - T(4) + T(6)\\
&:= -F(1) - F(4) - F(5) + F(7) = T(1) - T(4) - T(5) + T(7)\\
&:= F(2) - F(3) - F(6) + F(7) \quad = T(2) - T(3) - T(6) + T(7)\\
&:= F(2) - F(5) - F(7) + F(8) \quad = -T(2) + T(5) + T(7) - T(8)
\end{aligned}$$

$$\begin{aligned}
\mathbf{5} &:= F(1) + F(3) - F(2) + F(4) \quad = (-T(1) + T(3)) \times T(2) - T(4)\\
&:= -F(1) + F(4) - F(5) + F(6) = T(1) + T(4) + T(5) - T(6)\\
&:= -F(1) - F(2) + F(3) + F(5) = -T(1) - T(2) - T(3) + T(5)\\
&:= -F(2) - F(3) - F(5) + F(7) = T(2) \times T(3) + T(5) - T(7)\\
&:= -F(2) - F(3) - F(7) + F(8) = T(2) - T(3) - T(7) + T(8)
\end{aligned}$$

$$\begin{aligned}
\mathbf{6} &:= -F(1) + F(3) - F(4) + F(6) = T(1) - T(3) - T(4) + T(6)\\
&:= -F(1) - F(2) - F(7) + F(8) = T(1) - T(2) - T(7) + T(8)\\
&:= -F(1) - F(3) + F(2) + F(6) = (T(1) - T(3)) \times T(2) + T(6)\\
&:= F(2) - F(4) - F(5) + F(7) \quad = T(2) - T(4) - T(5) + T(7)\\
&:= -F(3) - F(5) - F(6) + F(8) = T(3) + T(5) + T(6) - T(8)
\end{aligned}$$

$$\begin{aligned}
\mathbf{7} &:= F(1) + F(2) - F(4) + F(6) \quad = -T(1) - T(2) - T(4) + T(6)\\
&:= F(1) + F(3) - F(2) + F(5) \quad = T(1) - T(3) - T(2) + T(5)\\
&:= F(1) - F(3) - F(5) + F(7) \quad = -T(1) \times T(3) - T(5) + T(7)\\
&:= -F(1) - F(5) - F(8) + F(9) = T(1) + T(5) + T(8) - T(9)\\
&:= F(2) + F(4) - F(5) + F(6) \quad = T(2) + T(4) + T(5) - T(6)\\
&:= F(2) - F(3) + F(4) + F(5) \quad = -T(2) \times T(3) + T(4) + T(5)
\end{aligned}$$

$$\mathbf{8} := -F(1) - F(2) - F(4) + F(7) = (T(1) - T(2)) \times T(4) + T(7)$$

$$\begin{aligned}
\mathbf{9} &:= -F(1) + F(5) - F(6) + F(7) = T(1) + T(5) + T(6) - T(7)\\
&:= -F(1) - F(2) + F(4) + F(6) = T(1) \times T(2) \times T(4) - T(6)\\
&:= -F(1) - F(2) - F(3) + F(7) = -T(1) - T(2) \times T(3) + T(7)\\
&:= F(2) - F(3) - F(4) + F(7) \quad = -T(2) - T(3) - T(4) + T(7)\\
&:= F(2) - F(5) - F(8) + F(9) \quad = T(2) + T(5) + T(8) - T(9)\\
&:= -F(3) - F(5) + F(4) + F(7) = T(3) - T(5) - T(4) + T(7)
\end{aligned}$$

$$
\begin{aligned}
\mathbf{10} &:= F(1)+F(2)-F(5)+F(7) &&= -T(1)\times T(2)-T(5)+T(7)\\
&:= F(1)+F(2)-F(7)+F(8) &&= -T(1)+T(2)-T(7)+T(8)\\
&:= -F(1)-F(3)-F(6)+F(8) &&= T(1)-T(3)-T(6)+T(8)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{11} &:= -F(1)+F(3)-F(4)+F(7) &&= -T(1)-T(3)-T(4)+T(7)\\
&:= -F(1)-F(2)-F(6)+F(8) &&= -T(1)-T(2)-T(6)+T(8)\\
&:= -F(1)-F(2)-F(8)+F(9) &&= -T(1)+T(2)-T(8)+T(9)\\
&:= F(2)+F(3)-F(7)+F(8) &&= -T(2)+T(3)-T(7)+T(8)\\
&:= F(2)+F(5)-F(6)+F(7) &&= T(2)+T(5)+T(6)-T(7)\\
&:= F(2)-F(5)+F(3)+F(7) &&= T(2)\times T(5)-T(3)-T(7)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{12} &:= F(1)+F(2)-F(4)+F(7) &&= (T(1)+T(2))\times T(4)-T(7)\\
&:= F(1)-F(3)+F(5)+F(6) &&= T(1)\times T(3)-T(5)+T(6)\\
&:= -F(1)-F(4)-F(5)+F(8) &&= T(1)-T(4)-T(5)+T(8)\\
&:= F(2)-F(3)+F(5)+F(6) &&= T(2)\times T(3)+T(5)-T(6)\\
&:= F(2)-F(3)-F(6)+F(8) &&= T(2)-T(3)-T(6)+T(8)\\
&:= F(2)-F(3)-F(8)+F(9) &&= -T(2)+T(3)-T(8)+T(9)
\end{aligned}
$$

$$
\mathbf{13} := -F(1)-F(3)+F(4)+F(7) = T(1)-T(3)-T(4)+T(7)
$$

$$
\begin{aligned}
\mathbf{14} &:= -F(1)+F(3)-F(8)+F(9) &&= -T(1)+T(3)-T(8)+T(9)\\
&:= -F(1)-F(2)+F(4)+F(7) &&= -T(1)-T(2)-T(4)+T(7)\\
&:= F(2)-F(4)-F(5)+F(8) &&= T(2)-T(4)-T(5)+T(8)\\
&:= -F(3)-F(5)+F(6)+F(7) &&= T(3)+T(5)+T(6)-T(7)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{15} &:= -F(1)+F(4)+F(5)+F(6) &&= -T(1)+T(4)-T(5)+T(6)\\
&:= F(1)-F(3)-F(5)+F(8) &&= -T(1)\times T(3)-T(5)+T(8)\\
&:= -F(2)+F(4)-F(6)+F(8) &&= T(2)\times T(4)+T(6)-T(8)\\
&:= F(2)-F(3)+F(4)+F(7) &&= T(2)-T(3)-T(4)+T(7)\\
&:= F(2)-F(5)-F(3)+F(8) &&= T(2)\times T(5)+T(3)-T(8)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{16} &:= F(1)+F(3)-F(8)+F(9) &&= T(1)+T(3)-T(8)+T(9)\\
&:= -F(1)-F(2)+F(5)+F(7) &&= T(1)\times T(2)-T(5)+T(7)\\
&:= -F(1)-F(2)-F(4)+F(8) &&= (T(1)-T(2))\times T(4)+T(8)
\end{aligned}
$$

$$
\begin{aligned}
\mathbf{17} &:= -F(1)-F(2)-F(3)+F(8) &&= -T(1)-T(2)\times T(3)+T(8)\\
&:= -F(1)-F(4)+F(6)+F(7) &&= T(1)\times T(4)-T(6)+T(7)\\
&:= F(2)-F(3)+F(5)+F(7) &&= (-T(2)+T(3))\times T(5)-T(7)\\
&:= F(2)-F(3)-F(4)+F(8) &&= -T(2)-T(3)-T(4)+T(8)\\
&:= F(2)-F(6)+F(4)+F(8) &&= T(2)\times T(6)-T(4)-T(8)
\end{aligned}
$$

$$:= -F(3) + F(4) - F(5) + F(8) = T(3) - T(4) - T(5) + T(8)$$

$$\mathbf{18} := F(1) + F(2) - F(5) + F(8) \quad = -T(1) \times T(2) - T(5) + T(8)$$

$$\mathbf{19} := -F(1) + F(3) + F(5) + F(7) = T(1) \times T(3) - T(5) + T(7)$$
$$:= -F(1) + F(3) - F(4) + F(8) = -T(1) - T(3) - T(4) + T(8)$$
$$:= -F(1) - F(2) - F(7) + F(9) = -T(1) + T(2) - T(7) + T(9)$$
$$:= F(4) + F(6) - F(7) + F(8) \quad = -T(4) + T(6) - T(7) + T(8)$$

$$\mathbf{20} := -F(2) + F(4) + F(5) + F(7) = -T(2) + T(4) - T(5) + T(7)$$
$$:= F(2) - F(3) - F(7) + F(9) \quad = -T(2) + T(3) - T(7) + T(9)$$

$$\mathbf{21} := -F(1) - F(3) + F(4) + F(8) = T(1) - T(3) - T(4) + T(8)$$
$$:= -F(2) - F(3) + F(4) + F(8) = -T(2) + T(3) \times T(4) - T(8)$$

$$\mathbf{22} := -F(1) + F(3) - F(7) + F(9) = -T(1) + T(3) - T(7) + T(9)$$
$$:= -F(1) - F(2) + F(4) + F(8) = -T(1) - T(2) - T(4) + T(8)$$

$$\mathbf{23} := F(1) - F(3) + F(4) + F(8) \quad = -T(1) + T(3) \times T(4) - T(8)$$
$$:= -F(2) + F(4) + F(6) + F(7) = T(2) \times T(4) + T(6) - T(7)$$
$$:= F(2) - F(3) + F(4) + F(8) \quad = T(2) - T(3) - T(4) + T(8)$$
$$:= -F(4) - F(6) + F(7) + F(8) = T(4) + T(6) + T(7) - T(8)$$

$$\mathbf{24} := F(1) + F(3) - F(7) + F(9) \quad = T(1) + T(3) - T(7) + T(9)$$
$$:= -F(1) - F(2) + F(5) + F(8) = (T(1) + T(2)) \times T(5) - T(8)$$

$$\mathbf{25} := -F(1) + F(3) + F(4) + F(8) = T(1) + T(3) \times T(4) - T(8)$$
$$:= -F(1) - F(4) + F(6) + F(8) = T(1) \times T(4) - T(6) + T(8)$$
$$:= F(3) - F(4) + F(5) + F(8) \quad = -T(3) + T(4) - T(5) + T(8)$$

$$\mathbf{27} := -F(1) + F(3) + F(5) + F(8) = T(1) \times T(3) - T(5) + T(8)$$
$$:= -F(1) - F(2) + F(6) + F(8) = T(1) \times T(2) \times T(6) - T(8)$$
$$:= -F(1) - F(2) - F(5) + F(9) = -T(1) \times T(2) - T(5) + T(9)$$
$$:= -F(2) + F(3) - F(6) + F(9) = -T(2) + T(3) - T(6) + T(9)$$
$$:= F(2) - F(4) + F(6) + F(8) \quad = -T(2) \times T(4) + T(6) + T(8)$$

$$\mathbf{28} := F(1) + F(2) - F(6) + F(9) \quad = T(1) + T(2) - T(6) + T(9)$$
$$:= -F(1) - F(3) - F(4) + F(9) = -T(1) - T(3) - T(4) + T(9)$$
$$:= -F(2) + F(4) + F(5) + F(8) = -T(2) + T(4) - T(5) + T(8)$$
$$:= -F(2) - F(6) + F(4) + F(9) = T(2) \times T(6) + T(4) - T(9)$$

$$\begin{aligned}
\mathbf{29} &:= F(1)+F(3)-F(6)+F(9) &&= -T(1)+T(3)-T(6)+T(9)\\
&:= F(4)+F(7)-F(8)+F(9) &&= T(4)+T(7)+T(8)-T(9)\\
\\
\mathbf{30} &:= -F(1)+F(3)-F(5)+F(9) &&= (-T(1)+T(3))\times T(5)-T(9)\\
&:= -F(1)-F(3)-F(2)+F(9) &&= (T(1)-T(3))\times T(2)+T(9)\\
&:= F(1)-F(3)-F(4)+F(9) &&= T(1)-T(3)-T(4)+T(9)\\
&:= -F(3)+F(4)-F(5)+F(9) &&= T(3)\times T(4)+T(5)-T(9)\\
\\
\mathbf{32} &:= -F(2)+F(3)-F(4)+F(9) &&= T(2)-T(3)-T(4)+T(9)\\
\\
\mathbf{33} &:= F(1)+F(2)-F(4)+F(9) &&= T(1)-T(2)-T(4)+T(9)\\
&:= -F(2)+F(5)+F(6)+F(8) &&= T(2)+T(5)-T(6)+T(8)\\
&:= F(3)+F(5)-F(6)+F(9) &&= -T(3)+T(5)-T(6)+T(9)\\
\\
\mathbf{34} &:= F(3)-F(5)+F(4)+F(9) &&= -T(3)-T(5)+T(4)+T(9)\\
\\
\mathbf{36} &:= -F(1)-F(3)+F(5)+F(9) &&= T(1)\times T(3)-T(5)+T(9)\\
&:= -F(2)-F(5)+F(6)+F(9) &&= -T(2)+T(5)-T(6)+T(9)\\
\\
\mathbf{37} &:= F(1)+F(4)-F(2)+F(9) &&= -T(1)-T(4)+T(2)+T(9)\\
&:= F(2)-F(4)+F(5)+F(9) &&= -T(2)+T(4)-T(5)+T(9)\\
\\
\mathbf{38} &:= F(1)-F(5)+F(6)+F(9) &&= -T(1)+T(5)-T(6)+T(9)\\
&:= -F(1)-F(6)+F(7)+F(9) &&= T(1)\times T(6)-T(7)+T(9)\\
&:= -F(2)+F(3)+F(4)+F(9) &&= -T(2)+T(3)-T(4)+T(9)\\
\\
\mathbf{39} &:= -F(4)+F(6)+F(7)+F(8) &&= T(4)+T(6)-T(7)+T(8)\\
\mathbf{41} &:= -F(1)+F(4)+F(5)+F(9) &&= T(1)+T(4)-T(5)+T(9)\\
\mathbf{42} &:= F(4)+F(7)-F(6)+F(9) &&= -T(4)+T(7)-T(6)+T(9)\\
\mathbf{43} &:= -F(2)-F(4)+F(7)+F(9) &&= -T(2)\times T(4)+T(7)+T(9)\\
\mathbf{45} &:= -F(3)-F(6)+F(8)+F(9) &&= T(3)\times T(6)-T(8)-T(9)\\
\mathbf{49} &:= -F(2)+F(7)+F(4)+F(9) &&= T(2)\times T(7)+T(4)-T(9)\\
\mathbf{50} &:= F(4)-F(6)+F(8)+F(9) &&= -T(4)-T(6)+T(8)+T(9)\\
\mathbf{51} &:= -F(2)-F(4)+F(8)+F(9) &&= -T(2)\times T(4)+T(8)+T(9)\\
\\
\mathbf{53} &:= F(2)+F(8)-F(4)+F(9) &&= T(2)\times T(8)-T(4)-T(9)\\
&:= -F(3)+F(6)+F(7)+F(9) &&= T(3)\times T(6)-T(7)-T(9)
\end{aligned}$$

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