

Fibonacci-Triangular-Type Selfie Expressions - II

Received 10/08/17

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Abstract

*This paper is an extension of author's previous work [15, 16] on **selfie expressions**. It brings numbers in such a way that both sides of the expressions are with same digits. This work brings expressions where one side with Fibonacci sequence values, and other side with triangular numbers having same digit's order. The operations used are addition, subtraction and multiplication along with composite relation. The results up to four terms expressions with positive and negative signs are studied in previous work [20]. This work brings results for five terms expressions.*

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1 Selfie Expressions

Selfie expressions are very much similar to **selfie numbers** [9]. 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:

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● **Multiplicative Equalities**

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

● **Power and Addition**

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

● **Factorial and Power**

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

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

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.

$$(a!, b!, c!, \dots) = (a^a, b^b, c^c, \dots)$$

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

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:

- | | |
|----------------------------------|--------------------------------------|
| ◇ 37468 × 86473 = 47386 × 68374. | ◇ 120024 × 420021 = 210042 × 240012. |
| ◇ 37596 × 69573 = 39756 × 65793. | ◇ 102204 × 402201 = 201402 × 204102. |
| ◇ 39648 × 84693 = 48396 × 69384. | ◇ 130026 × 620031 = 260013 × 310062. |
| ◇ 45495 × 59454 = 49545 × 54594. | ◇ 120036 × 630021 = 210063 × 360012. |
| ◇ 46069 × 96064 = 64096 × 69046. | ◇ 102306 × 603201 = 201603 × 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,

$$\begin{array}{ll}
\diamond 2017 \times 3404 = 1702 \times 4034 & \diamond 1729 \times 4358 = 2179 \times 3458. \\
\diamond 2017 \times 6808 = 1702 \times 8068. & \diamond 1729 \times 4732 = 2197 \times 3724. \\
\diamond 1729 \times 3584 = 1792 \times 3458. & \diamond 1729 \times 5438 = 2719 \times 3458. \\
\diamond 1729 \times 3854 = 1927 \times 3458. & \diamond 1729 \times 5781 = 1927 \times 5187.
\end{array}$$

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,

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

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

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**.

1.2 Power and Addition

Following the idea of expression (2) the author wrote the numbers 2017 [10] and 1729 [11] as:

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

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

Below are more examples,

$$\begin{array}{ll}
81 := 2^3 + 2^6 + 3^2 & = 23 + 26 + 32. & 246 := 5^2 + 5^2 + 14^2 & = 52 + 52 + 142. \\
99 := 2^3 + 3^3 + 4^3 & = 23 + 33 + 43. & 266 := 4^2 + 9^2 + 13^2 & = 42 + 92 + 132. \\
121 := 2^3 + 2^6 + 7^2 & = 23 + 26 + 72. & 286 := 6^2 + 9^2 + 13^2 & = 62 + 92 + 132. \\
170 := 2^6 + 5^2 + 9^2 & = 26 + 52 + 92. & 306 := 8^2 + 11^2 + 11^2 & = 82 + 112 + 112. \\
246 := 2^2 + 11^2 + 11^2 & = 22 + 112 + 112. & & := 9^2 + 9^2 + 12^2 & = 92 + 92 + 122.
\end{array}$$

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 [14, 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 [15, 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

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

1.3.2 Repetition of Digits

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

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

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:

$$\begin{aligned}
3648 &:= 1! \times 6! + (2! + 5!) \times 4! = (1^5 + 6^2) \times 2^6 + 5^1 \times 4^4. \\
&:= 1! \times 6! + (5! + 2!) \times 4! = (1^4 \times 6^2 + 5^1) \times 2^6 + 4^5. \\
3649 &:= 1! + 4! \times (2! + 5!) + 6! = 1^4 + 4^5 + 2^6 \times (5^1 + 6^2). \\
3690 &:= (1! + 2! + 5!) \times (3! + 4!) = (1^2 + 2^1) \times (5^3 + 3^4 + 4^5). \\
3744 &:= (1! \times 3! + 5!) \times 4! + 6! = (1^6 \times 3^5 + 5^3 + 4^4) \times 6^1. \\
3745 &:= 1! + (3! + 5!) \times 4! + 6! = 1^6 + (3^5 + 5^3 + 4^4) \times 6^1. \\
3840 &:= (1! \times 4! + 2! + 3!) \times 5! = (1^4 + 4^3) \times (2^1 + 3^2) + 5^5. \\
&= 1^4 \times 4^3 \times (2^5 + 3^1 + 5^2). \\
&:= 1! \times 5! \times (4! + 2!) + 6! = (1^5 + 5^1) \times 4^4 + 2^6 \times 6^2. \\
4320 &:= (2! - 1!) \times 3! \times 6! = (-2^3 - 1^2 + 3^6) \times 6^1. \\
&= 2^1 \times (1^6 + 3^2) \times 6^3. \\
&:= (2! - 1!) \times 7! - 6! = (2^7 - 1^6 - 7^1) \times 6^2. \\
4326 &:= 3! \times (2! - 1! + 6!) = (3^6 - 2^3) \times 1^2 \times 6^1. \\
4332 &:= 1! \times 3! \times (2! + 6!) = (1^2 + 3^6 - 2^3) \times 6^1. \\
5050 &:= 2! \times (3! - 1!) + 7! = (2^7 - 3^3) \times (1^1 + 7^2). \\
5058 &:= (2! + 1!) \times 3! + 7! = 2^1 \times (-1^2 + 3^7 + 7^3).
\end{aligned}$$

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

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

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

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

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

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 [6, 7, 8].

2.2 Selfie Numbers with Triangle Numbers

The general formula to write these numbers is given by

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

Initial values of triangular sequence are given by

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

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

$$\begin{array}{ll}
 1069 := T(10) - T(6) + T(T(9)). & 874 := T(T(T(4))) - T(T(7) + 8). \\
 1081 := T(1 + T(08 + 1)). & 0105 := 50 + T(10). \\
 2887 := T(T(T(T(2)))) + T(T(8) + T(8)) + T(7). & 1155 := -T(T(5)) + T(51 - 1). \\
 4965 := T(-4 + 9) + T(-T(6) + T(T(5))). & 1224 := T(T(T(4)) - T(T(2))) - 2 + 1. \\
 4999 := 49 + T(99). & 2418 := T(81) - T(42).
 \end{array}$$

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 [17].

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

$$F(1) + F(2) = F(3).$$

$$F(2) + F(3) = F(4).$$

$$F(3) + F(4) = F(5).$$

$$F(4) + F(5) = F(6).$$

$$F(5) + F(6) = F(7).$$

$$F(6) + F(7) = F(8).$$

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

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

$$T(1) + T(2) + T(3) = T(4).$$

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

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

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

$$F(1) + F(3) + F(5) = F(6).$$

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

$$F(5) + F(6) + F(8) = F(9).$$

$$T(1) + T(5) = T(3) + T(4).$$

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

2.3 Numbers with Fibonacci and Triangular Numbers

In [18] author studied numbers represented by Fibonacci sequence values and Triangular numbers together. See below examples in digit's order and reverse order of digits:

$$1446 := (-1 + F(4)) \times (F(4) + 6!) = (1 + 4! \times T(4)) \times 6.$$

$$1448 := -1 + F(4!)/(4 \times 8) = -1 + T(T(T(4))) - T(T(4)) - T(8).$$

$$1456 := F(1 + F(4!)) \times (5! - F(6)) = (1 + T(T(4))) \times (5 + T(6)).$$

$$7874 := (F(F(7)) + F(8)) \times (7 + 4!) = 7! - T(T(8)) + 7! - T(T(T(4))).$$

$$7920 := F(F(7)) \times F(9) - 2 + 0 = -7! + (9!/T(T(T(2)) + 0!)).$$

$$7942 := (T(T(7)) - T(9)) \times (4! - 2) = F(F(7)) \times F(9) + F(F(F(4)!)) - F(2).$$

$$8085 := F(8) + 08!/5 = (T(8) - 0!) \times T(T(8) - T(5)).$$

$$8317 := 8!/3! + F(17) = T(8) \times T(T(T(3))) + 1^7.$$

$$8856 := (F(8 + 8) + 5!) \times F(6) = T(8) \times (T(8) + 5) \times 6.$$

$$8972 := F(F(8)) - F(9 + 7) \times 2 = 8 \times T(T(9)) - T(7) + (T(T(2)))!.$$

$$9243 := -9 \times 2 + F(F(F(4)!))^3 = 9 \times (2^{T(4)} + 3).$$

$$9244 := F(9)^2 \times F(F(4!)) - 4 = (9 - T(2)) \times T(T(T(4))) + 4.$$

$$0169 := F(9) \times (6 - 1) - 0! = (T(T(9)) - T(6))/T(T(1 + 0!)).$$

$$0176 := F(6) \times (F(7 + 1) + 0!) = -T(T(6)) + T(T(7)) \times 1 + 0!.$$

$$0234 := F(4 + 3^2) + 0! = 4 \times T(3) + T(20).$$

$$0244 := F(4)^{F(4)+2} + 0! = 4! + T(4) + T(20).$$

$$3024 := (F(4)^2)!/(-0! + 3!) = 4! \times T(T(2)) \times T(T(03)).$$

$$3045 := (5! + 4! + 0!) \times F(F(3!)) = T(5 + 4!) \times (0! + T(3)).$$

$$\begin{aligned}
3165 &:= -5 \times 6! + F(-1 + F(F(3!))) = T(5) \times T(T(6)) - T((1 + 3)!). \\
3276 &:= F(F(6)) \times (F(7) \times 2) \times 3! = T(6 + 7) \times T(2^3). \\
3297 &:= -7 + F(9 \times 2) + 3!! = (T(7 + 9) + T(T(T(2)))) \times T(T(3)). \\
3303 &:= 3!! - 0! + F(3 \times 3!) = T((3 + 0)!) + T(T(T(T(3))))/3. \\
3304 &:= F(4! - 03!) + 3!! = T(4!) + 0! + T(T(T(T(3))))/3. \\
3325 &:= 5 \times (-F(2 + F(3!)) + 3!!) = 5 \times (-T(T(-2 + T(3))) + T(3)!).
\end{aligned}$$

2.4 Factorial-Type Selfie Expressions With Fibonacci and Triangular Values

In [19], we studied an extension of the work [14, 15] given in section 1.3. This extension is done by connecting Fibonacci and triangular sequence values factorial-type expressions. The values on both sides of the expressions are with same digits and same order with very few operations. This is done using only the values of $F(1), \dots, F(9)$ and $T(1), \dots, T(9)$. The different situations studied in [19] are summarized in following subsections.

2.4.1 Factorial With Fibonacci and Triangular Values

$$\begin{aligned}
25 &:= 1! + 3! \times 4! - 5! = (F(1) \times F(3) + F(4)) \times F(5) = (T(1) - T(3)) \times (T(4) - T(5)). \\
30 &:= (1! + 4!) \times 3! - 5! = (F(1) + F(4) + F(3)) \times F(5) = -T(1) + T(4) + T(3) + T(5). \\
600 &:= -5! - 3! \times 6! \times 1! + 7! = F(5) \times (F(3) + F(6)) \times (-F(1) + F(7)) = -T(5) + T(3) + T(6) \times (T(1) + T(7)). \\
&:= -5! + 6! \times (2! + 3!) - 7! = F(5) \times F(6) \times F(2) \times (F(3) + F(7)) = T(5) \times (T(6) - T(2) - T(3) + T(7)). \\
624 &:= -3! \times 6! + 4! - 5! + 7! = (-F(3) + F(6)) \times (F(4) + F(5)) \times F(7) = -T(3) + T(6) \times T(4) + T(5) \times T(7). \\
720 &:= -5! \times 4! + 7! - 2! \times 6! = F(5) \times (F(4) + F(7)) \times (F(2) + F(6)) = -T(5) + (T(4) + T(7) - T(2)) \times T(6). \\
864 &:= 4! + 5! + 7! - 3! \times 6! = F(4) \times (F(5) + F(7)) \times F(3) \times F(6) = T(4) \times T(5) + (T(7) + T(3)) \times T(6). \\
960 &:= -3! \times 6! + 5! \times 2! + 7! = F(3) \times F(6) \times F(5) \times (-F(2) + F(7)) = -T(3) + T(6) \times (T(5) + T(2) + T(7)).
\end{aligned}$$

2.4.2 Factorial With Fibonacci Sequence Values

$$\begin{aligned}
10 &:= -(1! + 3!) \times 2! + 4! = F(1) + (F(3) + F(2)) \times F(4). \\
&:= 4! - 2! \times (1! + 3!) = (F(4) + F(2) + F(1)) \times F(3). \\
24 &:= (-3! + 2!) \times 4! + 5! = (F(3) + F(2)) \times (F(4) + F(5)). \\
26 &:= 2! + 3! \times 4! - 5! = F(2) + (F(3) + F(4)) \times F(5). \\
36 &:= -5! + (2! + 4!) \times 3! = (F(5) + F(2)) \times F(4) \times F(3). \\
1560 &:= (1! - 4!) \times 5! - 6! + 7! = F(1) \times F(4) \times F(5) \times F(6) \times F(7). \\
&:= (7! - 6! \times 3!) \times 2! + 5! = F(7) \times F(6) \times (F(3) + F(2)) \times F(5). \\
&:= 7! + (1! - 3!) \times 6! + 5! = F(7) \times (F(1) + F(3)) \times F(6) \times F(5). \\
1680 &:= -5! \times (4! - 2!) + 7! - 6! = F(5) \times F(4) \times (F(2) + F(7)) \times F(6). \\
9240 &:= 8! - 5! - 6! - 7! \times 3! = F(8) \times F(5) \times F(6) \times (F(7) - F(3)).
\end{aligned}$$

2.4.3 Factorial With Triangular Values

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

$$\begin{aligned}
 174 &:= 3! \times 1! + 2! \times 4! + 5! &= T(3) \times (T(1) + T(2)) + T(4) \times T(5). \\
 198 &:= (2! + 1!) \times 4! + 3! + 5! &= T(2) \times (T(1) + T(4) \times T(3)) + T(5). \\
 270 &:= 1! \times 3! + 4! + 2! \times 5! &= T(1) \times T(3) \times (T(4) \times T(2) + T(5)). \\
 271 &:= 1! + 3! + 4! + 2! \times 5! &= T(1) + T(3) \times (T(4) \times T(2) + T(5)).
 \end{aligned}$$

2.4.4 Factorial, Power and Triangular Values

We have only three values, where **factorial**, **power** and **triangular numbers** are equal with same digit's order.

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

We observe from above subsections 2.4.1, 2.4.2 and 2.4.3 that factorial terms expressions are connected with each kind of functions. We don't have results with Fibonacci and Triangular sequence values together except the given in 2.4.1. The aim of this work is to bring **selfie-type expressions with Fibonacci and Triangular values**. This we have done using only the values of $F(1), \dots, F(9)$ and $T(1), \dots, T(9)$. Since there are lot of values, we have divided the work in two parts. The first part [20] brings the results with positive and negative signs up to four terms expressions. This part brings the result for five terms expressions only for positive sign.

3 Fibonacci-Triangular Equality Expressions: Positive Sign

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. Since there are lot of values to put with positive and negative signs, so we have given below only with positive sign. Having positive and negative signs values can be seen in previous work up to 4-terms expressions.

$$\begin{aligned}
 34 &:= F(1) + (F(2) + F(5) \times F(3)) \times F(4) &= T(1) \times T(2) + T(5) + T(3) + T(4). \\
 35 &:= (F(1) + F(2) + F(3) + F(4)) \times F(5) &= T(1) + T(2) + T(3) + T(4) + T(5). \\
 40 &:= (F(1) \times F(2) \times F(3) + F(4)) \times F(6) &= T(1) \times T(2) + T(3) + T(4) + T(6). \\
 41 &:= F(1) \times F(2) + (F(3) + F(4)) \times F(6) &= T(1) + T(2) + T(3) + T(4) + T(6). \\
 44 &:= (F(1) + F(4)) \times (F(2) + F(3) \times F(5)) &= T(1) + T(4) + T(2) \times T(3) + T(5). \\
 46 &:= F(1) + (F(3) + F(2)) \times F(4) \times F(5) &= (T(1) + T(3)) \times T(2) + T(4) + T(5). \\
 47 &:= F(1) + F(2) + F(4) \times (F(3) + F(7)) &= T(1) \times T(2) + T(4) + T(3) + T(7). \\
 48 &:= (F(1) \times F(2) + F(3)) \times (F(4) + F(7)) &= T(1) + T(2) + T(3) + T(4) + T(7). \\
 49 &:= F(1) \times F(2) + F(3) \times F(4) \times F(6) &= (T(1) \times T(2)) \times T(3) + T(4) + T(6). \\
 &:= F(1) + F(4) + F(5) \times (F(2) + F(6)) &= T(1) \times T(4) + T(5) + T(2) + T(6).
 \end{aligned}$$

$$\begin{aligned}
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). \\
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). \\
53 &:= (F(1) + F(3)) \times F(4) \times F(5) + F(6) = T(1) + T(3) + T(4) + T(5) + T(6). \\
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). \\
56 &:= (F(1) + F(2)) \times (F(4) \times F(5) + F(7)) = T(1) \times T(2) + T(4) + T(5) + T(7). \\
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). \\
58 &:= (F(1) + F(2)) \times (F(3) \times F(6) + F(7)) = T(1) \times T(2) + T(3) + T(6) + T(7). \\
59 &:= F(3) + F(5) + (F(1) + F(4)) \times F(7) = T(3) + T(5) \times T(1) + T(4) + T(7). \\
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). \\
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). \\
63 &:= F(1) \times F(4) \times (F(6) \times F(2) + F(7)) = T(1) + T(4) + T(6) + T(2) + T(7). \\
64 &:= (F(1) + F(3) + F(2)) \times (F(4) + F(7)) = T(1) \times T(3) + T(2) \times T(4) + T(7). \\
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). \\
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). \\
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}
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). \\
69 &:= F(1) + F(5) + (F(2) + F(3)) \times F(8) = T(1) \times T(5) + T(2) \times T(3) + T(8). \\
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). \\
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). \\
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). \\
&:= (F(2) + F(4)) \times (F(5) \times F(3) + F(6)) = T(2) \times T(4) + T(5) + T(3) + T(6). \\
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). \\
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). \\
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). \\
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). \\
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}
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). \\
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). \\
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). \\
&:= F(1) \times F(3) + (F(2) + F(5)) \times F(7) = T(1) + T(3) + T(2) \times T(5) + T(7). \\
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). \\
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). \\
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). \\
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). \\
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}$$

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

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

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

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

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

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

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

$$93 := F(2) \times F(4) \times (F(6) + F(3) + F(8)) = T(2) \times T(4) + T(6) + T(3) + T(8).$$

$$\begin{aligned}
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). \\
95 &:= (F(1) + F(2)) \times (F(4) + F(9)) + F(8) = T(1) + T(2) + T(4) + T(9) + T(8). \\
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). \\
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). \\
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). \\
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). \\
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)). \\
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). \\
103 &:= F(2) + F(6) + F(3) \times (F(7) + F(9)) = T(2) + T(6) + T(3) + T(7) + T(9). \\
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}
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). \\
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). \\
& := F(5) \times (F(7) + F(2)) + F(3) + F(9) = T(5) + T(7) + T(2) \times T(3) + T(9). \\
107 & := F(2) + (F(6) + F(7)) \times F(5) + F(1) = T(2) \times T(6) + T(7) + T(5) + T(1). \\
108 & := F(1) \times F(2) \times F(4) \times (F(3) + F(9)) = T(1) \times T(2) + T(4) \times T(3) + T(9). \\
& := F(1) + F(5) + (F(3) + F(2)) \times F(9) = (T(1) \times T(5) + T(3)) \times T(2) + T(9). \\
& := F(3) \times ((F(4) + F(2)) \times F(5) + F(9)) = (T(3) + T(4)) \times T(2) + T(5) + T(9). \\
109 & := F(7) \times F(4) + (F(2) + F(9)) \times F(3) = ((T(7) + (T(4) \times T(2))) + T(9)) + T(3). \\
& := F(1) \times F(2) \times F(5) + F(6) \times F(7) = (T(1) + T(2)) \times T(5) + T(6) + T(7). \\
& := F(1) \times F(2) + F(4) \times (F(3) + F(9)) = (T(1) + T(2)) \times (T(4) + T(3)) + T(9). \\
& := F(1) \times F(3) + F(4) + F(6) \times F(7) = T(1) \times T(3) \times T(4) + T(6) + T(7). \\
& := F(1) + F(4) \times F(3) \times (F(5) + F(7)) = (T(1) + T(4)) \times T(3) + T(5) + T(7). \\
& := F(3) \times F(7) \times (F(2) + F(4)) + F(5) = T(3) + T(7) + T(2) \times (T(4) + T(5)). \\
110 & := F(1) + F(3) + F(4) + F(6) \times F(7) = T(1) + T(3) \times T(4) + T(6) + T(7). \\
& := F(4) \times F(6) + F(5) \times F(7) + F(8) = T(4) + T(6) + T(5) + T(7) + T(8). \\
111 & := (F(1) + F(2)) \times F(4) + F(5) \times F(8) = T(1) \times T(2) \times (T(4) + T(5)) + T(8). \\
& := F(8) \times F(5) + F(4) \times (F(2) + F(1)) = (T(8) + ((T(5) + T(4)) \times T(2))) \times T(1). \\
112 & := (F(1) + F(5) + F(2)) \times F(7) + F(8) = (T(1) + T(5)) \times T(2) + T(7) + T(8). \\
& := (F(1) + F(7)) \times F(2) \times (F(4) + F(5)) = (T(1) + T(7)) \times T(2) + T(4) + T(5). \\
& := (F(2) + F(1) + F(5)) \times F(7) + F(8) = T(2) \times (T(1) + T(5)) + T(7) + T(8). \\
& := (F(2) + F(3) \times F(4)) \times F(7) + F(8) = T(2) \times (T(3) + T(4)) + T(7) + T(8). \\
& := (F(2) + F(4)) \times F(3) + F(6) \times F(7) = T(2) + T(4) \times T(3) + T(6) + T(7). \\
& := (F(2) + F(7)) \times F(5) + F(6) + F(9) = T(2) + T(7) + T(5) + T(6) + T(9). \\
112 & := (F(3) + F(5) + F(1)) \times (F(2) + F(7)) = (T(3) + T(5)) \times (T(1) + T(2)) + T(7). \\
& := (F(4) + F(2)) \times (F(5) + F(8)) + F(6) = T(4) + T(2) \times T(5) + T(8) + T(6). \\
& := (F(4) + F(2)) \times F(3) \times (F(1) + F(7)) = T(4) + T(2) \times (T(3) \times T(1) + T(7)). \\
& := F(1) + F(3) \times F(4) + F(5) \times F(8) = T(1) + T(3) \times T(4) + T(5) + T(8). \\
& := F(2) + F(3) + F(5) + F(6) \times F(7) = T(2) \times (T(3) + T(5)) + T(6) + T(7). \\
& := F(3) \times (F(2) + F(7) + F(6) + F(9)) = T(3) \times T(2) + T(7) + T(6) + T(9).
\end{aligned}$$

$$\begin{aligned}
114 & := (F(2) + F(1)) \times F(5) \times F(6) + F(9) = T(2) \times (T(1) + T(5)) + T(6) + T(9). \\
& := (F(2) + F(3)) \times (F(4) + F(1) + F(9)) = T(2) + T(3) \times (T(4) + T(1)) + T(9). \\
& := (F(2) + F(3)) \times F(4) + F(5) \times F(8) = T(2) + T(3) \times T(4) + T(5) + T(8). \\
& := (F(2) + F(5)) \times (F(4) + F(3) \times F(6)) = T(2) \times (T(5) + T(4) + T(3)) + T(6). \\
& := F(1) \times F(2) + F(6) + F(5) \times F(8) = T(1) \times T(2) \times T(6) + T(5) + T(8). \\
& := F(1) + F(4) + F(5) \times (F(2) + F(8)) = (T(1) + T(4) + T(5)) \times T(2) + T(8). \\
& := F(3) + F(6) \times F(2) \times (F(1) + F(7)) = T(3) + T(6) + T(2) \times (T(1) + T(7)). \\
\\
115 & := (F(1) + F(2) + F(4)) \times (F(3) + F(8)) = T(1) + (T(2) + T(4)) \times T(3) + T(8). \\
& := F(1) \times F(4) + F(6) \times (F(2) + F(7)) = T(1) \times T(4) + T(6) + T(2) \times T(7). \\
& := F(1) \times F(8) + F(3) \times (F(7) + F(9)) = T(1) \times T(8) + T(3) + T(7) + T(9). \\
& := F(1) + F(2) + F(6) + F(5) \times F(8) = T(1) + T(2) \times T(6) + T(5) + T(8). \\
& := F(3) \times F(6) + F(7) \times F(5) + F(9) = T(3) + T(6) + T(7) + T(5) + T(9). \\
\\
116 & := F(1) + F(4) + F(6) \times (F(2) + F(7)) = T(1) + T(4) + T(6) + T(2) \times T(7). \\
& := F(1) + F(8) + F(3) \times (F(7) + F(9)) = T(1) + T(8) + T(3) + T(7) + T(9). \\
\\
117 & := (F(1) + F(5) + F(2) + F(3)) \times F(7) = T(1) \times T(5) + T(2) \times (T(3) + T(7)). \\
& := F(2) + (F(4) + F(8) + F(9)) \times F(3) = T(2) \times T(4) + T(8) + T(9) + T(3). \\
\\
118 & := (F(1) + F(2)) \times F(6) + F(4) \times F(9) = T(1) \times T(2) \times T(6) + T(4) + T(9). \\
& := (F(1) + F(5)) \times (F(2) + F(7)) + F(9) = T(1) \times T(5) \times T(2) + T(7) + T(9). \\
& := (F(1) + F(8)) \times (F(3) + F(4)) + F(6) = T(1) + T(8) + T(3) \times T(4) + T(6). \\
118 & := F(1) + (F(2) + F(3)) \times F(4) \times F(7) = (T(1) \times T(2) + T(3)) \times T(4) + T(7). \\
\\
120 & := ((F(8) + F(2)) \times F(1) + F(3)) \times F(5) = T(8) + ((T(2) + T(1)) \times (T(3) + T(5))). \\
& := (F(9) + F(8) + F(2)) \times F(3) + F(6) = ((T(9) + T(8)) + (T(2) \times T(3))) + T(6). \\
& := (F(1) + F(3)) \times (F(2) + F(4) \times F(7)) = 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) = (T(1) + T(5)) \times T(3) + T(2) + T(6). \\
& := F(1) + F(3) + F(4) \times (F(5) + F(9)) = T(1) \times T(3) \times T(4) + T(5) + T(9). \\
& := F(4) \times ((F(5) + F(1)) \times F(2) + F(9)) = (T(4) + T(5)) \times T(1) \times T(2) + T(9). \\
\\
121 & := (F(1) + F(5) \times F(3)) \times (F(6) + F(4)) = T(1) \times T(5) \times T(3) + T(6) + T(4). \\
& := (F(2) \times F(4)) \times (F(3) + F(9)) + F(7) = T(2) \times (T(4) + T(3)) + T(9) + T(7). \\
& := F(1) \times F(2) + F(4) \times F(5) \times F(6) = (T(1) + T(2)) \times (T(4) + T(5)) + T(6). \\
& := F(1) + F(4) \times (F(5) + F(2) + F(9)) = T(1) + (T(4) + T(5)) \times T(2) + T(9). \\
& := F(1) + F(4) + (F(6) + F(2)) \times F(7) = (T(1) \times T(4) + T(6)) \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). \\
\\
122 & := F(1) \times F(3) + F(5) \times F(6) \times F(4) = T(1) + T(3) \times T(5) + T(6) + T(4).
\end{aligned}$$

$$\begin{aligned}
123 &:= F(1) + F(7) \times (F(2) + F(6)) + F(5) = (T(1) + T(7)) \times T(2) + T(6) + T(5). \\
&:= F(2) \times F(4) \times (F(3) + F(5) + F(9)) = T(2) + T(4) \times T(3) + T(5) + T(9). \\
&:= F(3) \times (F(8) + F(9)) + F(5) + F(6) = T(3) + T(8) + T(9) + T(5) + T(6). \\
&:= F(4) \times (F(1) + F(5) + F(2) + F(9)) = (T(4) + T(1) + T(5)) \times T(2) + T(9). \\
\\
124 &:= (F(2) + F(4)) \times F(5) + F(6) \times F(7) = T(2) \times (T(4) + T(5)) + T(6) + T(7). \\
&:= (F(2) + F(5)) \times (F(3) + F(7)) + F(9) = T(2) \times T(5) + T(3) + T(7) + T(9). \\
&:= F(2) + F(4) \times F(9) + F(6) + F(7) = T(2) \times T(4) + T(9) + T(6) + T(7). \\
&:= F(3) \times (F(4) \times (F(5) + F(7)) + F(6)) = T(3) \times T(4) + T(5) + T(7) + T(6). \\
&:= F(3) + (F(6) + F(2)) \times F(7) + F(5) = (T(3) + T(6)) \times T(2) + T(7) + T(5). \\
&:= F(5) \times F(6) + (F(2) + F(4)) \times F(8) = T(5) + T(6) \times T(2) + T(4) + T(8). \\
\\
125 &:= (F(1) + F(4)) \times F(3) \times F(7) + F(8) = T(1) + T(4) \times T(3) + T(7) + T(8). \\
&:= (F(1) + F(7)) \times F(5) + F(8) + F(9) = T(1) + T(7) + T(5) + T(8) + T(9). \\
\\
126 &:= (F(1) \times F(2) + F(3)) \times (F(6) + F(9)) = T(1) \times T(2) \times (T(3) + T(6)) + T(9). \\
&:= (F(1) \times F(2) + F(3) + F(4)) \times F(8) = (T(1) \times T(2) + T(3)) \times T(4) + T(8). \\
&:= (F(3) + F(1)) \times (F(4) + F(5) + F(9)) = T(3) \times (T(1) + T(4)) + T(5) + T(9). \\
&:= (F(3) + F(2)) \times (F(4) + F(5) + F(9)) = T(3) + T(2) \times (T(4) + T(5)) + T(9). \\
&:= F(2) \times F(4) \times (F(3) + F(6) \times F(5)) = T(2) \times (T(4) + T(3) + T(6)) + T(5). \\
&:= F(2) + (F(7) + F(3)) \times F(6) + F(5) = T(2) \times T(7) + T(3) + T(6) + T(5). \\
&:= F(6) \times (F(1) + F(3)) + F(4) \times F(9) = 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) = T(1) + (T(2) + T(3)) \times T(4) + T(8). \\
&:= F(1) + (F(2) + F(3)) \times (F(6) + F(9)) = T(1) + T(2) \times (T(3) + T(6)) + T(9). \\
&:= F(1) + F(2) + F(6) \times F(7) + F(8) = T(1) \times T(2) \times T(6) + T(7) + T(8). \\
&:= F(1) + F(7) \times F(6) + F(2) + F(8) = T(1) \times T(7) + T(6) \times T(2) + T(8). \\
&:= F(2) + F(4) \times F(3) \times (F(7) + F(6)) = (T(2) + T(4)) \times T(3) + T(7) + T(6). \\
&:= F(3) + F(5) \times (F(1) + F(4) \times F(6)) = T(3) \times (T(5) + T(1)) + T(4) + T(6). \\
&:= F(3) + F(5) \times (F(1) + F(6) \times F(4)) = T(3) \times (T(5) + T(1)) + T(6) + T(4). \\
\\
128 &:= (F(1) + F(3) + F(5)) \times (F(4) + F(7)) = T(1) \times T(3) \times T(5) + T(4) + T(7). \\
\\
129 &:= (F(1) + F(3)) \times (F(6) + F(2) + F(9)) = (T(1) + T(3) + T(6)) \times T(2) + T(9). \\
&:= F(2) \times F(4) \times (F(3) + F(9)) + F(8) = T(2) \times (T(4) + T(3)) + T(9) + T(8). \\
&:= F(2) + F(3) + (F(1) + F(5)) \times F(8) = T(2) + T(3) \times T(1) \times T(5) + T(8). \\
&:= F(2) + F(3) + F(4) \times (F(6) + F(9)) = T(2) + T(3) \times T(4) + T(6) + T(9). \\
\\
130 &:= (F(1) + F(5) + F(2) + F(4)) \times F(7) = T(1) + T(5) + T(2) \times (T(4) + T(7)). \\
&:= (F(3) + F(7)) \times F(5) + F(8) + F(9) = T(3) + T(7) + T(5) + T(8) + T(9). \\
&:= F(2) \times F(5) + F(6) \times F(7) + F(8) = T(2) \times T(5) + T(6) + T(7) + T(8).
\end{aligned}$$

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

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

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

$$134 := F(1) + F(5) \times F(3) \times F(7) + F(4) = (T(1) + T(5)) \times T(3) + T(7) + T(4).$$

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

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

$$137 := F(1) + F(3) \times (F(5) + F(4) \times F(8)) = T(1) + T(3) \times T(5) + T(4) + T(8).$$

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

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

$$140 := (F(1) + F(6)) \times (F(7) + F(3)) + F(5) = T(1) + T(6) + T(7) + T(3) \times T(5).$$

$$\begin{aligned}
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). \\
& := (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).
\end{aligned}$$

- 148** := $F(1) + F(3) + F(5) \times (F(6) + F(8)) = T(1) + T(3) \times T(5) + T(6) + T(8).$
 := $F(5) + F(3) + F(4) \times (F(7) + F(9)) = T(5) + T(3) \times T(4) + T(7) + T(9).$
- 149** := $(F(3) + F(5) \times F(4)) \times F(6) + F(7) = T(3) \times T(5) + T(4) + T(6) + T(7).$
150 := $(F(2) + F(7) + F(1)) \times F(5) \times F(3) = T(2) \times (T(7) + T(1) + T(5) + T(3)).$
- 151** := $(F(1) + F(6)) \times F(2) \times F(7) + F(9) = T(1) + T(6) + T(2) \times T(7) + T(9).$
 := $F(1) + F(4) \times F(5) \times (F(3) + F(6)) = T(1) \times T(4) + T(5) + T(3) \times T(6).$
 := $F(4) \times (F(2) + F(3)) \times F(7) + F(9) = (T(4) + T(2)) \times T(3) + T(7) + T(9).$
 := $F(4) + F(1) + (F(3) + F(5)) \times F(8) = T(4) + (T(1) + T(3)) \times T(5) + T(8).$
 := $F(4) + F(2) + F(8) \times (F(3) + F(5)) = T(4) + T(2) \times (T(8) + T(3)) + T(5).$
 := $F(5) \times F(7) \times (F(1) + F(2)) + F(8) = T(5) + T(7) \times T(1) + T(2) \times T(8).$
 := $F(5) + (F(7) + F(2)) \times F(6) + F(9) = T(5) + T(7) + T(2) \times T(6) + T(9).$
- 152** := $(F(7) + (F(1) + F(2)) \times F(4)) \times F(6) = T(7) + ((T(1) + T(2)) \times (T(4) + T(6))).$
 := $F(3) \times (F(7) + F(4) \times F(2) \times F(8)) = T(3) + T(7) + T(4) + T(2) \times T(8).$
- 153** := $F(2) + (F(1) + F(5) + F(7)) \times F(6) = T(2) \times (T(1) + T(5) + T(7)) + T(6).$
 := $F(2) + (F(4) \times F(3) + F(7)) \times F(6) = T(2) \times (T(4) + T(3) + T(7)) + T(6).$
- 154** := $(F(1) + F(3) \times F(5)) \times (F(2) + F(7)) = (T(1) + T(3)) \times (T(5) + T(2)) + T(7).$
 := $(F(1) + F(7)) \times (F(6) + F(2) + F(3)) = T(1) + (T(7) + T(6)) \times T(2) + T(3).$
 := $(F(3) + F(5)) \times (F(6) + F(2) + F(7)) = (T(3) + T(5) + T(6)) \times T(2) + T(7).$
 := $F(2) \times F(6) \times (F(3) + F(7)) + F(9) = T(2) \times (T(6) + T(3)) + T(7) + T(9).$
 := $F(3) \times (F(2) + F(4) \times F(8) + F(7)) = (T(3) + T(2)) \times T(4) + T(8) + T(7).$
 := $F(3) \times (F(4) \times F(7) + F(9)) + F(6) = T(3) \times T(4) + T(7) + T(9) + T(6).$
 := $F(5) + F(7) + (F(2) + F(4)) \times F(9) = T(5) + T(7) \times T(2) + T(4) + T(9).$
- 156** := $(F(1) + F(3) + F(2)) \times (F(9) + F(5)) = T(1) \times T(3) + T(2) \times T(9) + T(5).$
 := $(F(2) + F(1)) \times F(4) \times (F(8) + F(5)) = T(2) \times (T(1) + T(4) + T(8)) + T(5).$
 := $(F(2) + F(4) + F(3)) \times (F(5) + F(8)) = T(2) \times T(4) + T(3) \times T(5) + T(8).$
 := $(F(2) + F(5)) \times (F(3) + F(4) \times F(6)) = T(2) \times (T(5) + T(3) + T(4) + T(6)).$
 := $(F(3) + F(2) + F(1) + F(6)) \times F(7) = T(3) + T(2) \times (T(1) + T(6) + T(7)).$
 := $F(3) \times (F(5) \times (F(7) + F(2)) + F(6)) = T(3) + (T(5) + T(7)) \times T(2) + T(6).$
 := $F(3) + (F(4) + F(8)) \times F(5) + F(9) = T(3) \times T(4) + T(8) + T(5) + T(9).$
- 157** := $(F(3) + F(5) \times F(4)) \times F(6) + F(8) = T(3) \times T(5) + T(4) + T(6) + T(8).$
 := $F(1) + (F(4) + F(2) + F(6)) \times F(7) = T(1) \times T(4) + T(2) \times (T(6) + T(7)).$
 := $F(8) + (F(7) + F(2) + F(4)) \times F(6) = (T(8) + T(7)) + (T(2) \times (T(4) + T(6))).$

$$\begin{aligned}
159 & := (F(6) + F(2)) \times F(7) + F(3) \times F(8) = T(6) + T(2) \times (T(7) + T(3)) + T(8). \\
& := F(3) + (F(2) + F(4)) \times F(9) + F(8) = T(3) \times (T(2) + T(4)) + T(9) + T(8). \\
& := F(4) + F(3) \times (F(5) + F(2)) \times F(7) = T(4) \times T(3) + T(5) + T(2) \times T(7). \\
\\
160 & := (F(1) \times F(5) + F(3)) \times F(8) + F(7) = (T(1) + T(5)) \times T(3) + T(8) + T(7). \\
& := (F(1) + F(2)) \times F(5) \times (F(4) + F(7)) = T(1) + T(2) \times (T(5) + T(4) + T(7)). \\
& := (F(1) + F(2)) \times F(6) \times F(3) \times F(5) = T(1) + (T(2) + T(6)) \times T(3) + T(5). \\
& := (F(1) + F(4)) \times (F(5) + F(2) + F(9)) = T(1) \times T(4) + T(5) + T(2) \times T(9). \\
& := (F(2) + F(1) + F(6)) \times (F(7) + F(4)) = T(2) \times (T(1) + T(6) + T(7)) + T(4). \\
& := F(4) \times (F(6) \times F(5) + F(7)) + F(2) = T(4) + T(6) + (T(5) + T(7)) \times T(2). \\
\\
162 & := (F(8) + F(1)) \times (F(3) + F(5)) + F(6) = (T(8) + ((T(1) + T(3)) \times T(5))) + T(6). \\
& := (F(1) \times F(2) + F(6)) \times (F(7) + F(5)) = T(1) \times T(2) \times (T(6) + T(7)) + T(5). \\
& := F(6) + (F(5) + F(3)) \times (F(8) + F(2)) = (T(6) + T(5)) + ((T(3) + T(8)) \times T(2)). \\
\\
163 & := F(1) + (F(2) + F(6)) \times (F(7) + F(5)) = T(1) + T(2) \times (T(6) + T(7)) + T(5). \\
\\
164 & := (F(4) \times F(3) + F(5)) \times F(7) + F(8) = T(4) + T(3) \times T(5) + T(7) + T(8). \\
& := F(1) \times F(3) \times F(5) \times F(7) + F(9) = T(1) + T(3) \times T(5) + T(7) + T(9). \\
\\
165 & := (F(1) \times F(4) + F(6)) \times (F(3) + F(7)) = T(1) + T(4) + T(6) \times T(3) + T(7). \\
& := (F(2) \times F(7) + F(3)) \times (F(4) + F(6)) = T(2) \times T(7) + T(3) \times T(4) + T(6). \\
& := F(4) \times F(7) + (F(2) + F(5)) \times F(8) = (T(4) + T(7)) \times T(2) + T(5) + T(8). \\
\\
166 & := F(1) + (F(8) \times F(2) + F(9)) \times F(4) = (T(1) + T(8)) \times T(2) + T(9) + T(4). \\
& := F(3) \times (F(5) \times F(7) + F(2)) + F(9) = T(3) \times T(5) + T(7) + T(2) + T(9). \\
\\
167 & := F(2) \times F(8) \times F(4) + F(6) \times F(7) = T(2) \times T(8) + T(4) + T(6) + T(7). \\
\\
168 & := (F(1) + F(4)) \times F(3) \times F(2) \times F(8) = T(1) \times T(4) \times T(3) + T(2) \times T(8). \\
& := (F(2) + F(3) + F(7) + F(5)) \times F(6) = T(2) \times (T(3) + T(7) + T(5)) + T(6). \\
& := F(2) \times F(6) \times (F(5) + F(3)) \times F(4) = T(2) \times (T(6) + T(5)) + T(3) \times T(4). \\
\\
169 & := F(1) \times F(2) + F(8) \times (F(4) + F(5)) = (T(1) + T(2)) \times T(8) + T(4) + T(5). \\
& := F(1) + F(3) \times (F(4) + F(2)) \times F(8) = T(1) + T(3) \times T(4) + T(2) \times T(8). \\
& := F(2) + F(6) \times (F(3) + F(5)) \times F(4) = (T(2) + T(6)) \times T(3) + T(5) + T(4). \\
& := F(5) \times (F(1) + F(3) \times F(7)) + F(9) = (T(5) + T(1)) \times T(3) + T(7) + T(9). \\
\\
170 & := (F(1) \times F(7) \times F(3) + F(6)) \times F(5) = T(1) + T(7) + T(3) \times T(6) + T(5). \\
& := F(1) + (F(6) + F(3) + F(4)) \times F(7) = (T(1) + T(6)) \times T(3) + T(4) + T(7).
\end{aligned}$$

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

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

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

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

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

$$177 := (F(2) + F(3)) \times F(4) + F(8) \times F(6) = T(2) \times (T(3) + T(4) + T(8)) + T(6).$$

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

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

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

$$182 := (F(2) + F(6) + F(3) + F(4)) \times F(7) = (T(2) + T(6)) \times T(3) + T(4) + T(7).$$

$$\begin{aligned} 183 &:= (F(3) + F(1)) \times (F(6) \times F(5) + F(8)) = T(3) \times (T(1) + T(6)) + T(5) + T(8). \\ &:= F(1) + F(2) + F(7) + F(6) \times F(8) = T(1) \times T(2) \times (T(7) + T(6)) + T(8). \\ &:= F(2) + F(7) \times (F(6) + F(4) \times F(3)) = T(2) \times (T(7) + T(6) + T(4)) + T(3). \\ &:= F(4) + (F(1) + F(9) + F(2)) \times F(5) = (T(4) + T(1) + T(9)) \times T(2) + T(5). \end{aligned}$$

$$\begin{aligned} 184 &:= (F(2) + F(8)) \times (F(5) + F(4)) + F(6) = T(2) \times (T(8) + T(5)) + T(4) + T(6). \\ &:= (F(4) + F(5)) \times (F(8) + F(2) + F(1)) = (T(4) + T(5) + T(8)) \times T(2) + T(1). \\ &:= F(3) + (F(2) + F(5) + F(6)) \times F(7) = (T(3) + T(2)) \times T(5) + T(6) + T(7). \end{aligned}$$

$$\begin{aligned} 186 &:= F(1) \times F(3) \times F(6) + F(5) \times F(9) = (T(1) \times T(3)) \times T(6) + T(5) + T(9). \\ &:= F(1) + (F(3) + F(2) + F(9)) \times F(5) = T(1) \times T(3) + T(2) \times (T(9) + T(5)). \\ &:= F(1) + F(2) + F(6) \times (F(3) + F(8)) = (T(1) + T(2) + T(6)) \times T(3) + T(8). \\ &:= F(2) \times F(5) + F(7) + F(6) \times F(8) = T(2) \times (T(5) + T(7)) + T(6) + T(8). \end{aligned}$$

$$\begin{aligned} 187 &:= F(1) + F(3) \times F(6) + F(5) \times F(9) = T(1) + T(3) \times T(6) + T(5) + T(9). \\ &:= F(4) + (F(3) \times F(2) + F(8)) \times F(6) = T(4) + T(3) + T(2) \times (T(8) + T(6)). \end{aligned}$$

$$\begin{aligned} 189 &:= (F(1) \times F(2) + F(4) + F(5)) \times F(8) = T(1) \times T(2) + T(4) \times T(5) + T(8). \\ &:= (F(2) + F(1) + F(8)) \times F(6) + F(5) = T(2) \times (T(1) + T(8) + T(6)) + T(5). \\ &:= F(2) \times F(6) \times (F(8) + F(3)) + F(5) = T(2) \times T(6) + T(8) + T(3) \times T(5). \\ &:= F(2) + (F(3) + F(9)) \times F(5) + F(6) = T(2) \times (T(3) + T(9)) + T(5) + T(6). \\ &:= F(4) \times (F(5) + F(3)) \times (F(2) + F(6)) = T(4) \times T(5) + T(3) \times T(2) + T(6). \end{aligned}$$

$$\begin{aligned} 190 &:= ((F(1) + F(4)) \times F(2) + F(9)) \times F(5) = T(1) \times T(4) + T(2) \times (T(9) + T(5)). \\ &:= (F(6) + F(3)) \times (F(1) + F(5) + F(7)) = T(6) \times (T(3) + T(1)) + T(5) + T(7). \\ &:= F(1) + (F(2) + F(4) + F(5)) \times F(8) = T(1) + T(2) + T(4) \times T(5) + T(8). \end{aligned}$$

$$\begin{aligned} 191 &:= (F(1) + F(8)) \times F(6) + F(3) + F(7) = ((T(1) + T(8)) + (T(6) \times T(3))) + T(7). \\ &:= F(1) + (F(4) + F(2) + F(9)) \times F(5) = (T(1) + T(4)) + (T(2) \times (T(9) + T(5))). \end{aligned}$$

$$\begin{aligned} 192 &:= (F(1) + F(3) + F(5)) \times (F(4) + F(8)) = ((T(1) \times T(3)) + (T(5) \times T(4))) + T(8). \\ &:= (F(3) + F(1)) \times (F(4) + F(5)) \times F(6) = (T(3) + ((T(1) + T(4)) \times T(5))) + T(6). \\ &:= F(2) + F(3) + (F(1) + F(6)) \times F(8) = T(2) \times (((T(3) + T(1)) + T(6)) + T(8)). \end{aligned}$$

$$\begin{aligned} 195 &:= (F(2) + F(1) + F(5) + F(6)) \times F(7) = T(2) \times (((T(1) + T(5)) + T(6)) + T(7)). \\ &:= (F(2) + F(4) \times F(3) + F(6)) \times F(7) = T(2) \times (((T(4) + T(3)) + T(6)) + T(7)). \\ &:= (F(3) + F(5) + F(6)) \times F(2) \times F(7) = ((T(3) \times T(5)) + T(6)) + (T(2) \times T(7)). \\ &:= F(1) \times F(5) \times (F(4) + F(3) + F(9)) = (((T(1) \times T(5)) + T(4)) \times T(3)) + T(9). \\ &:= F(5) \times ((F(2) + F(6)) \times F(3) + F(8)) = (T(5) + ((T(2) + T(6)) \times T(3))) + T(8). \end{aligned}$$

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

$$198 := (F(5) + F(7)) \times (F(6) + F(2) + F(3)) = (((T(5) + T(7)) + T(6)) \times T(2)) + T(3).$$

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

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

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

$$202 := (F(1) + F(6)) \times F(8) \times F(2) + F(7) = (((T(1) + T(6)) + T(8)) \times T(2)) + T(7).$$

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

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

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

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

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

$$\begin{aligned} 219 &:= F(3) \times F(5) \times F(8) + F(2) + F(6) = T(3) \times T(5) + T(8) \times T(2) + T(6). \\ &:= F(4) + (F(2) + F(3) \times F(7)) \times F(6) = T(4) \times T(2) + T(3) \times T(7) + T(6). \end{aligned}$$

$$\begin{aligned} 220 &:= (F(4) + F(1)) \times (F(7) + F(3) \times F(8)) = T(4) + (T(1) + T(7)) \times T(3) + T(8). \\ &:= (F(4) + F(2)) \times (F(3) \times F(8) + F(7)) = T(4) + T(2) \times (T(3) + T(8) + T(7)). \end{aligned}$$

$$221 := (F(4) \times F(5) \times F(1) + F(3)) \times F(7) = T(4) + T(5) + (T(1) + T(3)) \times T(7).$$

$$\begin{aligned} 222 &:= (F(2) + F(5)) \times (F(4) \times F(6) + F(7)) = T(2) \times (T(5) + T(4) + T(6) + T(7)). \\ &:= (F(2) + F(5)) \times (F(8) + F(6) \times F(3)) = T(2) \times (T(5) + T(8) + T(6)) + T(3). \\ &:= F(3) \times (F(5) + F(4) \times F(9)) + F(6) = T(3) + T(5) \times T(4) + T(9) + T(6). \end{aligned}$$

$$\begin{aligned} 223 &:= (F(1) + F(9)) \times F(4) \times F(3) + F(7) = T(1) \times T(9) + T(4) + T(3) \times T(7). \\ &:= (F(2) + F(9)) \times F(3) \times F(4) + F(7) = T(2) \times T(9) + T(3) \times T(4) + T(7). \\ &:= (F(5) + F(1)) \times (F(2) + F(9)) + F(7) = T(5) + (T(1) + T(2)) \times T(9) + T(7). \\ &:= F(2) + (F(9) + F(6) \times F(5)) \times F(4) = T(2) \times (T(9) + T(6)) + T(5) + T(4). \\ &:= F(4) + (F(6) + F(3)) \times (F(1) + F(8)) = (T(4) + T(6)) \times T(3) + T(1) + T(8). \end{aligned}$$

$$224 := (F(2) + F(4) \times F(5)) \times (F(1) + F(7)) = (T(2) + T(4)) \times T(5) + T(1) + T(7).$$

$$225 := F(3) + (F(6) + F(2)) \times F(8) + F(9) = T(3) \times (T(6) + T(2)) + T(8) + T(9).$$

$$\begin{aligned} 226 &:= (F(2) + F(6)) \times F(8) + F(4) + F(9) = T(2) \times (T(6) + T(8) + T(4)) + T(9). \\ &:= F(1) + F(5) \times (F(4) + F(6) + F(9)) = (T(1) + T(5)) \times T(4) + T(6) + T(9). \\ &:= F(3) \times (F(2) + F(6) \times (F(1) + F(7))) = (T(3) + T(2)) \times (T(6) + T(1)) + T(7). \\ &:= F(3) \times (F(6) + (F(9) + F(2)) \times F(4)) = (T(3) + T(6) + T(9)) \times T(2) + T(4). \end{aligned}$$

$$\begin{aligned} 227 &:= F(4) + F(6) \times F(3) \times (F(1) + F(7)) = T(4) + T(6) + (T(3) + T(1)) \times T(7). \\ &:= F(4) + F(6) \times F(3) \times (F(2) + F(7)) = T(4) + T(6) \times (T(3) + T(2)) + T(7). \end{aligned}$$

$$\begin{aligned} 228 &:= ((F(1) + F(2)) \times F(9) + F(6)) \times F(4) = T(1) \times T(2) \times (T(9) + T(6) + T(4)). \\ &:= (F(3) + F(2)) \times (F(8) \times F(4) + F(7)) = T(3) + T(2) \times (T(8) + T(4) + T(7)). \\ &:= F(4) + F(8) + (F(5) + F(2)) \times F(9) = (T(4) + T(8) + T(5)) \times T(2) + T(9). \end{aligned}$$

$$\begin{aligned} 229 &:= (F(1) + F(3)) \times F(7) \times F(5) + F(9) = T(1) + T(3) \times T(7) + T(5) + T(9). \\ &:= (F(1) + F(4) \times F(5)) \times F(7) + F(8) = (T(1) + T(4)) \times T(5) + T(7) + T(8). \\ &:= (F(2) + F(6)) \times (F(4) + F(8)) + F(7) = T(2) \times (T(6) + T(4) + T(8)) + T(7). \\ &:= F(3) \times F(7) \times (F(4) + F(5)) + F(8) = T(3) \times T(7) + T(4) + T(5) + T(8). \end{aligned}$$

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

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

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

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

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

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

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

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

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

$$242 := (F(1) + F(8)) \times (F(3) \times F(4) + F(5)) = T(1) + T(8) \times T(3) + T(4) + T(5).$$

$$243 := (F(2) + F(3) \times F(5) \times F(6)) \times F(4) = T(2) \times T(3) + T(5) + T(6) \times T(4).$$

$$244 := F(4) \times F(5) \times (F(2) + F(7)) + F(9) = T(4) + T(5) + T(2) \times (T(7) + T(9)).$$

$$:= F(3) \times (F(5) + (F(1) + F(6)) \times F(7)) = T(3) \times (T(5) \times T(1) + T(6)) + T(7).$$

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

$$246 := (F(2) + F(1) + F(5)) \times F(9) + F(6) = T(2) \times (T(1) + T(5) + T(9) + T(6)).$$

$$:= F(2) \times F(9) \times (F(3) + F(5)) + F(6) = T(2) \times T(9) + T(3) \times T(5) + T(6).$$

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

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

$$:= F(1) + (F(2) + F(9)) \times (F(5) + F(3)) = (T(1) + T(2)) \times (T(9) + T(5)) + T(3).$$

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

$$:= F(4) \times ((F(2) + F(5)) \times F(6) + F(9)) = T(4) \times (T(2) + T(5)) + T(6) + T(9).$$

$$:= F(6) + (F(3) \times F(4) + F(2)) \times F(9) = T(6) + T(3) \times T(4) \times T(2) + T(9).$$

$$247 := (F(2) \times F(3) \times F(6) + F(4)) \times F(7) = T(2) + T(3) + T(6) \times T(4) + T(7).$$

$$:= (F(2) + F(3) \times F(5) + F(6)) \times F(7) = T(2) + T(3) \times (T(5) + T(6)) + T(7).$$

$$249 := F(2) + (F(8) + F(5) \times F(3)) \times F(6) = T(2) \times T(8) + T(5) + T(3) \times T(6).$$

$$250 := (F(2) + F(4) + F(8)) \times (F(3) + F(6)) = T(2) + T(4) + T(8) \times T(3) + T(6).$$

$$251 := F(9) \times (F(4) \times F(3) + F(1)) + F(7) = T(9) + T(4) + (T(3) + T(1)) \times T(7).$$

$$252 := (F(1) + F(2) + F(3) + F(6)) \times F(8) = (T(1) + T(2)) \times (T(3) + T(6) + T(8)).$$

$$:= (F(2) + F(4)) \times F(8) \times (F(1) + F(3)) = T(2) \times T(4) + (T(8) + T(1)) \times T(3).$$

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

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

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

$$253 := (F(1) \times F(4) + F(6)) \times (F(3) + F(8)) = T(1) + T(4) \times T(6) + T(3) + T(8).$$

$$255 := (F(3) \times F(6) + F(2)) \times F(7) + F(9) = T(3) \times T(6) + T(2) \times T(7) + T(9).$$

$$:= F(5) \times (F(2) + F(6) + F(3) \times F(8)) = T(5) + T(2) + T(6) + T(3) \times T(8).$$

$$256 := F(2) \times F(3) \times F(6) \times (F(4) + F(7)) = T(2) \times T(3) + T(6) \times T(4) + T(7).$$

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

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

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

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

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

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

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

$$270 := (F(1) + F(5)) \times (F(4) + F(6) + F(9)) = T(1) \times T(5) + T(4) \times T(6) + T(9).$$

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

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

$$275 := F(1) \times F(4) + F(6) \times (F(7) + F(8)) = T(1) + T(4) \times T(6) + T(7) + T(8).$$

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

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

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

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

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

$$283 := F(3) \times F(2) + F(8) \times F(7) + F(6) = T(3) \times (T(2) + T(8)) + T(7) + T(6).$$

$$284 := F(1) \times F(6) + F(4) + F(7) \times F(8) = (T(1) + T(6)) \times T(4) + T(7) + T(8).$$

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

$$286 := (F(4) \times (F(3) + F(5)) + F(2)) \times F(7) = T(4) + T(3) \times (T(5) + T(2) + T(7)).$$

$$287 := F(1) + F(3) \times F(7) \times (F(4) + F(6)) = (T(1) + T(3)) \times (T(7) + T(4)) + T(6).$$

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

$$289 := F(4) + F(6) + F(5) + F(7) \times F(8) = T(4) \times T(6) + T(5) + T(7) + T(8).$$

$$:= F(2) + F(3) + F(7) \times (F(1) + F(8)) = (T(2) + T(3)) \times T(7) + T(1) + T(8).$$

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

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

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

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

$$\begin{aligned}
301 & := F(1) + F(2) + F(7) \times (F(3) + F(8)) = T(1) + T(2) \times T(7) + T(3) \times T(8). \\
302 & := F(4) + F(7) \times F(1) \times (F(3) + F(8)) = (T(4) + T(7)) \times (T(1) + T(3)) + T(8).
\end{aligned}$$

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

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

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

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

$$\begin{aligned}
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). \\
313 & := F(1) + (F(3) + F(2)) \times F(6) \times F(7) = T(1) + T(3) \times (T(2) + T(6) + T(7)). \\
314 & := F(2) + F(1) + F(7) \times F(4) \times F(6) = T(2) + (T(1) + T(7)) \times T(4) + T(6). \\
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). \\
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). \\
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). \\
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). \\
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). \\
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). \\
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). \\
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}$$

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

$$327 := (F(3) + F(2)) \times (F(6) \times F(7) + F(5)) = T(3) \times (T(2) + T(6) + T(7)) + T(5).$$

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

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

$$331 := (F(1) + F(8) \times F(5)) \times F(4) + F(7) = T(1) \times T(8) + T(5) + T(4) \times T(7).$$

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

$$334 := F(1) + F(7) \times (F(8) + F(3)) + F(9) = T(1) \times T(7) + T(8) + T(3) \times T(9).$$

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

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

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

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

$$341 := F(4) \times F(1) + F(7) \times (F(5) + F(8)) = T(4) \times (T(1) + T(7)) + T(5) + T(8).$$

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

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

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

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

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

$$347 := F(1) + F(4) \times F(7) \times F(6) + F(9) = T(1) + T(4) \times T(7) + T(6) + T(9).$$

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

$$349 := F(4) \times (F(7) \times F(6) + F(2)) + F(9) = T(4) \times T(7) + T(6) + T(2) + T(9).$$

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

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

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

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

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

$$356 := F(5) + (F(6) + F(2)) \times F(4) \times F(7) = T(5) \times T(6) + T(2) + T(4) + T(7).$$

$$357 := (F(1) + F(8)) \times F(3) \times F(6) + F(5) = T(1) \times T(8) + T(3) + T(6) \times T(5).$$

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

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

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

$$363 := F(2) + (F(7) + F(6) \times F(8)) \times F(3) = T(2) \times (T(7) + T(6)) + T(8) \times T(3).$$

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

$$365 := (F(1) + F(4) + F(7)) \times F(8) + F(6) = (T(1) + T(4)) \times T(7) + T(8) + T(6).$$

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

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

$$\begin{aligned}
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). \\
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). \\
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). \\
375 &:= F(2) + (F(5) + F(3) \times F(4)) \times F(9) = T(2) \times T(5) + T(3) \times (T(4) + T(9)). \\
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). \\
377 &:= (F(8) + (F(1) + F(4)) \times F(3)) \times F(7) = T(8) + T(1) + T(4) \times (T(3) + T(7)). \\
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). \\
378 &:= (F(2) \times F(3) + F(4) + F(7)) \times F(8) = (T(2) + T(3)) \times (T(4) + T(7)) + T(8). \\
378 &:= (F(3) \times F(1) \times F(5) + F(6)) \times F(8) = T(3) + (T(1) + T(5)) \times T(6) + T(8). \\
378 &:= (F(1) + F(3)) \times (F(2) + F(5)) \times F(8) = (T(1) + T(3)) \times (T(2) + T(5) + T(8)). \\
378 &:= (F(9) + F(6)) \times F(4) \times (F(3) + F(2)) = (T(9) + T(6) + T(4) \times T(3)) \times T(2). \\
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). \\
&:= F(3) + (F(4) \times F(6) + F(5)) \times F(7) = (T(3) + T(4)) \times T(6) + T(5) + T(7). \\
381 &:= F(1) + F(5) \times (F(9) \times F(3) + F(6)) = (T(1) \times T(5) + T(9)) \times T(3) + T(6). \\
382 &:= F(2) \times F(5) + (F(6) + F(8)) \times F(7) = T(2) + T(5) \times T(6) + T(8) + T(7). \\
&:= F(6) + (F(1) + F(3) \times F(5)) \times F(9) = T(6) + T(1) + T(3) \times (T(5) + T(9)). \\
384 &:= (F(1) + F(7) + F(3)) \times F(4) \times F(6) = (T(1) + T(7)) \times T(3) + T(4) \times T(6). \\
&:= (F(2) + F(1)) \times F(6) \times (F(4) + F(8)) = T(2) \times T(1) + T(6) + T(4) \times T(8). \\
&:= (F(3) + F(7) + F(2)) \times (F(4) + F(8)) = T(3) \times (T(7) + T(2) \times T(4)) + T(8). \\
&:= (F(3) + (F(2) + F(5)) \times F(8)) \times F(4) = T(3) + T(2) + T(5) + T(8) \times T(4). \\
&:= F(3) \times (F(2) + F(8) + F(5) \times F(9)) = (T(3) + T(2)) \times T(8) + T(5) + T(9).
\end{aligned}$$

$$\begin{aligned}
389 &:= F(4) + F(6) + (F(5) + F(7)) \times F(8) = T(4) + T(6) \times T(5) + T(7) + T(8). \\
&:= F(5) + F(6) \times (F(1) + F(7) + F(9)) = T(5) \times T(6) + T(1) + T(7) + T(9). \\
390 &:= (F(2) \times F(7) + F(3)) \times (F(5) + F(8)) = T(2) \times T(7) + T(3) \times (T(5) + T(8)). \\
&:= (F(9) + F(2)) \times (F(4) + F(6)) + F(5) = T(9) + T(2) \times T(4) + T(6) \times T(5). \\
391 &:= (F(2) + F(7) + F(4)) \times F(8) + F(9) = (T(2) + T(7)) \times T(4) + T(8) + T(9). \\
&:= F(2) + (F(4) \times F(7)) \times (F(3) + F(6)) = (T(2) + T(4)) \times T(7) + T(3) + T(6). \\
396 &:= (F(2) \times F(4) + F(6)) \times (F(3) + F(9)) = (T(2) + T(4)) \times (T(6) + T(3)) + T(9). \\
397 &:= F(3) + F(8) + (F(6) + F(4)) \times F(9) = T(3) \times (T(8) + T(6)) + T(4) + T(9). \\
&:= F(1) + (F(6) + F(4)) \times (F(3) + F(9)) = (T(1) + T(6)) \times (T(4) + T(3)) + T(9). \\
&:= F(7) + F(3) \times (F(4) + F(8)) \times F(6) = (T(7) + T(3)) \times T(4) + T(8) + T(6). \\
399 &:= (F(2) \times F(3) \times F(6) + F(4)) \times F(8) = T(2) \times T(3) + T(6) + T(4) \times T(8). \\
&:= (F(6) + F(2) + F(5) \times F(3)) \times F(8) = T(6) + T(2) \times (T(5) \times T(3) + T(8)). \\
400 &:= (F(2) + F(7) \times F(4)) \times F(3) \times F(5) = (T(2) + T(7)) \times T(4) + T(3) \times T(5). \\
&:= F(1) + F(8) \times (F(7) + F(3) \times F(4)) = (T(1) + T(8) + T(7)) \times T(3) + T(4). \\
403 &:= (F(3) + F(4) \times F(6) + F(5)) \times F(7) = T(3) \times T(4) + T(6) \times T(5) + T(7). \\
405 &:= (F(2) + F(6)) \times (F(4) + F(8) \times F(3)) = T(2) + (T(6) + T(4) + T(8)) \times T(3). \\
&:= (F(3) + F(7)) \times (F(1) + F(8) + F(5)) = T(3) \times (T(7) + T(1) + T(8)) + T(5). \\
406 &:= (F(2) + F(7)) \times (F(5) + F(4) + F(8)) = T(2) + T(7) + T(5) + T(4) \times T(8). \\
&:= (F(3) + F(5)) \times (F(9) + F(4) + F(8)) = T(3) \times (T(5) + T(9)) + T(4) + T(8). \\
&:= F(2) + F(5) \times (F(9) \times F(3) + F(7)) = (T(2) + T(5) + T(9)) \times T(3) + T(7). \\
&:= F(4) + F(7) \times (F(3) \times F(5) + F(8)) = T(4) \times T(7) + T(3) \times T(5) + T(8). \\
407 &:= (F(1) + F(3) + F(6)) \times (F(9) + F(4)) = T(1) + T(3) \times (T(6) + T(9)) + T(4). \\
408 &:= (F(2) + F(5)) \times F(3) \times F(1) \times F(9) = T(2) \times (T(5) \times T(3) + T(1) + T(9)). \\
&:= (F(3) \times F(6) + F(1)) \times (F(4) + F(8)) = T(3) \times (T(6) + T(1) + T(4) + T(8)). \\
409 &:= (F(9) + F(3)) \times (F(4) + F(6)) + F(7) = T(9) + (T(3) + T(4)) \times T(6) + T(7). \\
&:= F(4) + (F(7) + F(2)) \times (F(8) + F(6)) = T(4) \times T(7) + T(2) \times T(8) + T(6). \\
&:= F(4) + (F(8) + F(6)) \times (F(1) + F(7)) = T(4) \times T(8) + T(6) \times T(1) + T(7).
\end{aligned}$$

$$411 := F(8) \times F(5) + (F(1) + F(6)) \times F(9) = T(8) + T(5) \times (T(1) + T(6)) + T(9).$$

$$414 := F(3) \times (F(7) \times F(4) + F(6) \times F(8)) = T(3) \times T(7) + T(4) \times T(6) + T(8).$$

$$416 := (F(4) \times (F(6) + F(2)) + F(5)) \times F(7) = T(4) + T(6) \times (T(2) + T(5)) + T(7).$$

$$417 := (F(9) + F(3)) \times (F(4) + F(6)) + F(8) = T(9) + (T(3) + T(4)) \times T(6) + T(8).$$

$$420 := (F(1) + F(2) + F(6)) \times F(3) \times F(8) = (T(1) + T(2) \times T(6)) \times T(3) + T(8).$$

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

$$:= (F(3) \times (F(2) + F(5)) + F(6)) \times F(8) = T(3) + (T(2) + T(5)) \times T(6) + T(8).$$

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

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

$$:= (F(5) + F(2)) \times F(3) \times (F(1) + F(9)) = T(5) + (((T(2) + T(3)) \times T(1)) \times T(9)).$$

$$:= F(3) \times F(5) \times (F(6) + F(7) + F(8)) = (T(3) \times ((T(5) + T(6)) + T(7))) + T(8).$$

$$:= F(4) \times (F(3) + F(6)) \times (F(2) + F(7)) = ((T(4) + T(3)) \times T(6)) + (T(2) \times T(7)).$$

$$:= F(5) \times (F(1) + F(2)) \times (F(6) + F(9)) = (T(5) \times ((T(1) + T(2)) + T(6))) + T(9).$$

$$:= F(4) \times (F(8) \times F(5) + F(1) + F(9)) = (((T(4) \times T(8)) + T(5)) \times T(1)) + T(9).$$

$$423 := (F(3) \times F(7) + F(8)) \times (F(2) + F(6)) = T(3) \times (T(7) + T(8) + T(2)) + T(6).$$

$$424 := (F(5) + F(8)) \times (F(4) + F(7)) + F(6) = T(5) + T(8) \times T(4) + T(7) + T(6).$$

$$426 := (F(3) \times F(9) + F(4)) \times (F(1) + F(5)) = T(3) \times (T(9) + T(4) + T(1) + T(5)).$$

$$:= (F(2) + F(5)) \times (F(6) + F(4) \times F(8)) = (T(2) + T(5) + T(6)) \times T(4) + T(8).$$

$$429 := ((F(2) + F(5)) \times F(3) + F(8)) \times F(7) = T(2) \times T(5) + T(3) \times (T(8) + T(7)).$$

$$:= (F(3) + F(6) + F(2)) \times (F(5) + F(9)) = T(3) + T(6) \times (T(2) + T(5)) + T(9).$$

$$:= F(9) \times (F(2) + F(6) + F(4)) + F(8) = T(9) + T(2) + T(6) + T(4) \times T(8).$$

$$430 := F(5) \times (F(7) \times (F(4) + F(2)) + F(9)) = T(5) + T(7) \times T(4) + T(2) \times T(9).$$

$$432 := F(3) \times (F(1) + F(5) + F(8)) \times F(6) = T(3) \times T(1) \times (T(5) + T(8) + T(6)).$$

$$433 := F(2) + (F(5) + F(7)) \times (F(4) + F(8)) = T(2) \times T(5) + T(7) + T(4) \times T(8).$$

$$435 := (F(2) + F(3)) \times F(5) \times (F(8) + F(6)) = T(2) + T(3) \times (T(5) + T(8) + T(6)).$$

$$441 := (F(1) \times F(3) \times F(6) + F(5)) \times F(8) = (T(1) \times T(3) + T(6)) \times T(5) + T(8).$$

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

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

$$:= (F(2) \times F(5) + F(3) \times F(6)) \times F(8) = T(2) \times (T(5) \times T(3) + T(6) + T(8)).$$

$$:= (F(4) + F(6) + F(5) \times F(3)) \times F(8) = T(4) \times T(6) + T(5) + T(3) \times T(8).$$

$$:= F(4) \times (F(6) + F(5) \times F(8) + F(9)) = T(4) \times (T(6) + T(5)) + T(8) + T(9).$$

$$442 := (F(2) \times F(5) + F(6)) \times (F(7) + F(8)) = (T(2) + T(5)) \times T(6) + T(7) + T(8).$$

$$:= (F(3) + F(6) + F(4)) \times (F(7) + F(8)) = T(3) \times T(6) + T(4) \times T(7) + T(8).$$

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

- 444 := $F(1) + F(2) + (F(5) + F(6)) \times F(9) = (T(1) + T(2) + T(5)) \times T(6) + T(9)$.
- 445 := $F(1) + F(4) + F(8) \times (F(6) + F(7)) = (T(1) + T(4)) \times T(8) + T(6) + T(7)$.
- 447 := $F(5) + F(3) + F(6) \times (F(9) + F(8)) = (T(5) + (T(3) \times (T(6) + T(9)))) + T(8)$.
- 448 := $F(1) + F(4) + F(3) + F(7) \times F(9) = T(1) \times T(4) + T(3) \times (T(7) + T(9))$.
:= $F(3) \times F(6) \times (F(5) \times F(4) + F(7)) = (T(3) + T(6) + T(5)) \times T(4) + T(7)$.
- 449 := $F(1) + F(4) \times F(3) + F(7) \times F(9) = T(1) + T(4) + T(3) \times (T(7) + T(9))$.
- 450 := $F(3) + F(6) \times (F(2) + F(9) + F(8)) = T(3) \times (T(6) + T(2) + T(9)) + T(8)$.
- 451 := $F(4) \times (F(2) + F(3)) + F(7) \times F(9) = T(4) + T(2) + T(3) \times (T(7) + T(9))$.
- 453 := $F(1) + F(5) \times F(3) + F(7) \times F(9) = T(1) \times T(5) + T(3) \times (T(7) + T(9))$.
- 454 := $(F(1) + F(5)) \times F(3) + F(7) \times F(9) = T(1) + T(5) + T(3) \times (T(7) + T(9))$.
- 456 := $(F(3) \times F(8) + F(4) \times F(5)) \times F(6) = (T(3) + T(8)) \times T(4) + T(5) + T(6)$.
:= $(F(4) + F(5)) \times (F(8) + F(3) + F(9)) = T(4) \times T(5) + T(8) + T(3) \times T(9)$.
- 457 := $F(1) \times F(3) + F(7) \times (F(2) + F(9)) = T(1) + T(3) \times (T(7) + T(2) + T(9))$.
- 459 := $F(1) + F(7) \times F(9) + F(3) \times F(6) = (T(1) \times T(7) + T(9)) \times T(3) + T(6)$.
- 460 := $(F(1) + F(6)) \times F(3) + F(7) \times F(9) = T(1) + T(6) + T(3) \times (T(7) + T(9))$.
:= $F(5) \times (F(3) + F(8)) \times (F(1) + F(4)) = T(5) \times T(3) + (T(8) + T(1)) \times T(4)$.
- 462 := $((F(3) + F(2)) \times F(4) + F(7)) \times F(8) = T(3) \times (T(2) + T(4) + T(7) + T(8))$.
:= $(F(4) + F(6)) \times F(1) \times F(3) \times F(8) = T(4) \times T(6) + (T(1) + T(3)) \times T(8)$.
- 463 := $F(4) \times (F(5) + F(3)) + F(7) \times F(9) = T(4) + T(5) + T(3) \times (T(7) + T(9))$.
- 465 := $(F(1) + F(9)) \times F(7) + F(3) + F(6) = (T(1) + T(9) + T(7)) \times T(3) + T(6)$.
:= $F(2) + (F(7) + F(4)) \times (F(8) + F(6)) = T(2) \times T(7) + T(4) \times T(8) + T(6)$.
- 468 := $F(3) \times F(4) \times (F(2) + F(5)) \times F(7) = (T(3) + T(4)) \times T(2) + T(5) \times T(7)$.
:= $(F(4) \times F(6) + F(3)) \times (F(5) + F(7)) = T(4) \times T(6) + T(3) \times (T(5) + T(7))$.
:= $(F(5) + F(6)) \times F(2) \times (F(3) + F(9)) = T(5) \times T(6) + T(2) \times (T(3) + T(9))$.
- 469 := $F(2) + F(7) \times (F(5) \times F(4) + F(8)) = T(2) + (T(7) + T(5)) \times T(4) + T(8)$.
- 471 := $F(1) + F(3) \times F(5) \times (F(7) + F(9)) = T(1) \times T(3) + T(5) \times T(7) + T(9)$.
:= $F(2) + (F(7) + F(9)) \times F(3) \times F(5) = (T(2) + T(7) + T(9)) \times T(3) + T(5)$.

$$472 := F(3) \times (F(1) + F(5) \times (F(7) + F(9))) = T(3) + T(1) + T(5) \times T(7) + T(9).$$

$$474 := F(2) + F(5) + F(7) \times (F(3) + F(9)) = T(2) + T(5) \times T(7) + T(3) + T(9).$$

$$477 := F(2) + F(7) \times (F(9) + F(3)) + F(6) = (T(2) + T(7) + T(9)) \times T(3) + T(6).$$

$$477 := F(1) + (F(6) + F(3) \times F(4)) \times F(9) = T(1) \times T(6) + T(3) + T(4) \times T(9).$$

$$478 := F(6) + F(3) \times F(5) \times (F(7) + F(9)) = (T(6) + T(3)) \times T(5) + T(7) + T(9).$$

$$480 := (F(3) + F(6)) \times (F(9) + F(2) + F(7)) = T(3) \times (T(6) + T(9)) + T(2) \times T(7).$$

$$481 := (F(1) \times F(2)) \times F(7) \times (F(4) + F(9)) = T(1) \times T(2) + T(7) + T(4) \times T(9).$$

$$:= (F(8) + F(4) \times F(5) + F(1)) \times F(7) = T(8) + T(4) + T(5) \times (T(1) + T(7)).$$

$$:= F(7) \times (F(5) + (F(2) + F(4)) \times F(6)) = (T(7) + T(5) + T(2)) \times T(4) + T(6).$$

$$482 := F(1) \times F(2) + F(7) \times (F(4) + F(9)) = T(1) + T(2) + T(7) + T(4) \times T(9).$$

$$483 := F(3) + F(5) + (F(2) + F(7)) \times F(9) = T(3) \times (T(5) \times T(2) + T(7)) + T(9).$$

$$484 := F(1) + F(3) + F(7) \times (F(4) + F(9)) = T(1) \times T(3) + T(7) + T(4) \times T(9).$$

$$486 := F(3) \times F(5) + (F(1) + F(7)) \times F(9) = T(3) + T(5) \times (T(1) + T(7)) + T(9).$$

$$487 := (F(1) + F(6)) \times F(5) + F(7) \times F(9) = T(1) + T(6) + T(5) \times T(7) + T(9).$$

$$489 := F(5) + (F(7) + F(2)) \times F(9) + F(6) = T(5) \times T(7) + T(2) + T(9) + T(6).$$

$$:= F(5) + F(8) \times F(3) + F(7) \times F(9) = T(5) + T(8) + T(3) \times (T(7) + T(9)).$$

$$492 := (F(3) + F(6)) \times F(5) + F(7) \times F(9) = T(3) + T(6) + T(5) \times T(7) + T(9).$$

$$495 := F(4) \times (F(2) + F(3)) \times (F(8) + F(9)) = T(4) \times (T(2) + T(3) + T(8)) + T(9).$$

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

$$496 := (F(4) \times F(5) + F(7) + F(9)) \times F(6) = T(4) \times (T(5) + T(7)) + T(9) + T(6).$$

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

$$500 := (F(1) + F(7)) \times F(9) + F(4) \times F(6) = T(1) + T(7) + T(9) \times T(4) + T(6).$$

$$502 := (F(2) + F(4) + F(9)) \times F(7) + F(6) = T(2) + T(4) \times T(9) + T(7) + T(6).$$

$$:= F(5) + (F(7) + F(1)) \times F(9) + F(8) = T(5) \times T(7) + T(1) + T(9) + T(8).$$

$$504 := F(2) \times F(6) \times (F(1) + F(3)) \times F(8) = T(2) \times ((T(6) + T(1)) \times T(3) + T(8)).$$

$$504 := (F(2) + F(6) + F(4) \times F(5)) \times F(8) = T(2) + (T(6) + T(4)) \times T(5) + T(8).$$

$$:= (F(4) + F(5)) \times (F(3) + F(2)) \times F(8) = (T(4) \times T(5) + T(3)) \times T(2) + T(8).$$

$$:= F(3) \times (F(2) + F(5)) \times (F(6) + F(9)) = T(3) \times (T(2) + T(5) + T(6) + T(9)).$$

$$\begin{aligned} 507 &:= F(1) + F(3) + F(6) \times F(4) \times F(8) = (T(1) + T(3)) \times T(6) + T(4) \times T(8). \\ &:= F(7) \times (F(5) + F(6)) \times (F(3) + F(2)) = (T(7) + T(5) + T(6) \times T(3)) \times T(2). \end{aligned}$$

$$\begin{aligned} 508 &:= F(7) \times (F(5) + F(6)) \times F(4) + F(1) = T(7) + T(5) \times (T(6) + T(4) + T(1)). \\ &:= F(2) + (F(4) \times F(7)) \times (F(6) + F(5)) = T(2) + T(4) \times (T(7) + T(6)) + T(5). \end{aligned}$$

$$\begin{aligned} 510 &:= (F(1) \times F(2)) \times F(4) \times F(5) \times F(9) = (T(1) + T(2) \times T(4)) \times T(5) + T(9). \\ &:= ((F(5) + F(2)) \times F(3) + F(4)) \times F(9) = T(5) + (T(2) + T(3)) \times (T(4) + T(9)). \\ &:= (F(2) + F(6) + F(4) \times F(3)) \times F(9) = (T(2) + T(6)) \times T(4) + T(3) \times T(9). \end{aligned}$$

$$511 := F(2) + F(4) \times (F(8) + F(7)) \times F(5) = (T(2) + T(4)) \times T(8) + T(7) + T(5).$$

$$\begin{aligned} 513 &:= (F(3) + F(8) + F(9)) \times (F(1) + F(6)) = T(3) \times (T(8) + T(9) + T(1)) + T(6). \\ &:= F(2) \times F(4) \times (F(1) + F(9) \times F(5)) = T(2) + (T(4) + T(1)) \times T(9) + T(5). \\ &:= F(2) + F(3) + F(4) \times F(5) \times F(9) = T(2) \times (T(3) + T(4) \times T(5)) + T(9). \\ &:= F(3) \times F(4) + F(7) \times (F(9) + F(5)) = T(3) \times (T(4) + T(7) + T(9)) + T(5). \end{aligned}$$

$$514 := F(4) + F(2) + F(9) \times (F(3) + F(7)) = T(4) \times (T(2) + T(9)) + T(3) + T(7).$$

$$515 := (F(1) + F(4) + F(9)) \times F(7) + F(8) = T(1) + T(4) \times T(9) + T(7) + T(8).$$

$$\begin{aligned} 516 &:= (F(3) + F(5) \times F(9)) \times F(1) \times F(4) = T(3) + T(5) + T(9) \times (T(1) + T(4)). \\ &:= F(3) \times F(4) \times (F(5) \times F(7) + F(8)) = T(3) \times T(4) + T(5) \times T(7) + T(8). \\ &:= F(5) + F(2) + (F(7) + F(3)) \times F(9) = T(5) \times (T(2) + T(7)) + T(3) + T(9). \end{aligned}$$

$$\begin{aligned} 517 &:= (F(2) \times F(4)) \times F(8) \times F(6) + F(7) = (T(2) + T(4)) \times T(8) + T(6) + T(7). \\ &:= (F(8) + F(3) \times F(7)) \times (F(4) + F(6)) = T(8) \times T(3) + T(7) \times T(4) + T(6). \end{aligned}$$

$$518 := (F(4) \times F(1) + F(9)) \times (F(2) + F(7)) = T(4) \times (T(1) + T(9) + T(2)) + T(7).$$

$$519 := F(3) + (F(7) + F(9)) \times (F(4) + F(6)) = T(3) \times (T(7) + T(9) + T(4)) + T(6).$$

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

$$522 := (F(2) \times F(7) + F(5)) \times (F(6) + F(8)) = (T(2) + T(7)) \times T(5) + T(6) + T(8).$$

$$523 := F(2) \times F(4) \times F(5) \times F(9) + F(7) = T(2) \times T(4) \times T(5) + T(9) + T(7).$$

$$\begin{aligned}
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). \\
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). \\
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). \\
528 &:= F(6) + (F(2) + F(9) + F(5)) \times F(7) = T(6) \times T(2) + T(9) + T(5) \times T(7). \\
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). \\
532 &:= F(2) + F(8) + F(9) \times (F(3) + F(7)) = (T(2) + T(8) + T(9)) \times T(3) + T(7). \\
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). \\
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)). \\
538 &:= F(7) + F(5) \times (F(9) + F(1)) \times F(4) = T(7) + T(5) + T(9) \times (T(1) + T(4)). \\
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). \\
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). \\
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). \\
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). \\
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). \\
546 &:= (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)).
\end{aligned}$$

$$547 := F(1) + (F(3) + F(6) \times F(5)) \times F(7) = T(1) + T(3) \times T(6) + T(5) \times T(7).$$

$$\begin{aligned} 549 &:= F(2) \times F(5) + F(3) \times F(6) \times F(9) = (T(2) + T(5) + T(3)) \times T(6) + T(9). \\ &:= F(5) \times F(2) + (F(7) + F(4)) \times F(9) = T(5) + T(2) \times T(7) + T(4) \times T(9). \\ &:= F(4) \times (F(8) \times F(6) + F(3) + F(7)) = T(4) \times T(8) + T(6) + T(3) \times T(7). \\ &:= F(8) + (F(2) + F(5) \times F(7)) \times F(6) = T(8) \times T(2) + T(5) \times T(7) + T(6). \end{aligned}$$

$$550 := F(4) + F(2) + F(7) \times F(3) \times F(8) = T(4) + T(2) \times T(7) \times T(3) + T(8).$$

$$\begin{aligned} 553 &:= (F(3) + F(9)) \times F(4) \times F(5) + F(7) = (T(3) + T(9)) \times T(4) + T(5) + T(7). \\ &:= F(3) \times (F(1) + F(7) \times F(8)) + F(5) = (T(3) + T(1)) \times (T(7) + T(8) + T(5)). \end{aligned}$$

$$\begin{aligned} 555 &:= (F(1) + F(3)) \times F(5) \times (F(4) + F(9)) = (T(1) + T(3)) \times T(5) + T(4) \times T(9). \\ &:= ((F(3) + F(2)) \times F(5)) \times (F(4) + F(9)) = (T(3) + T(2) \times T(5)) \times T(4) + T(9). \\ &:= F(5) \times (F(2) + F(6) + F(4) \times F(9)) = T(5) \times (T(2) + T(6) + T(4)) + T(9). \end{aligned}$$

$$556 := (F(1) + F(4)) \times (F(5) \times F(8) + F(9)) = T(1) + T(4) \times (T(5) + T(8)) + T(9).$$

$$\begin{aligned} 559 &:= (F(4) + F(9) + F(2) + F(5)) \times F(7) = T(4) + T(9) + (T(2) + T(5)) \times T(7). \\ &:= F(5) + F(6) + F(7) \times F(3) \times F(8) = T(5) \times T(6) + T(7) + T(3) \times T(8). \\ &:= (F(9) + F(4) \times (F(2) + F(3))) \times F(7) = T(9) + T(4) + T(2) \times T(3) \times T(7). \end{aligned}$$

$$\begin{aligned} 560 &:= (F(4) + F(3)) \times F(6) \times (F(1) + F(7)) = T(4) \times (T(3) + T(6) + T(1) + T(7)). \\ &:= (F(1) + F(7)) \times (F(4) \times F(3) + F(9)) = (T(1) + T(7)) \times T(4) + T(3) \times T(9). \end{aligned}$$

$$561 := (F(3) + F(9)) \times F(4) \times F(5) + F(8) = (T(3) + T(9)) \times T(4) + T(5) + T(8).$$

$$564 := (F(5) + F(2)) \times F(3) \times (F(7) + F(9)) = T(5) + (T(2) \times T(3)) \times T(7) + T(9).$$

$$\begin{aligned} 565 &:= (F(1) + F(3) \times F(9)) \times F(6) + F(7) = T(1) + T(3) \times (T(9) + T(6) + T(7)). \\ &:= F(9) \times (F(4) \times F(5) + F(1)) + F(8) = T(9) + T(4) \times (T(5) + T(1) + T(8)). \\ &:= F(5) + (F(7) + F(4)) \times (F(2) + F(9)) = (T(5) + T(7)) \times T(4) + T(2) \times T(9). \end{aligned}$$

$$\begin{aligned} 567 &:= (F(1) + F(3) \times (F(6) + F(5))) \times F(8) = T(1) \times T(3) + T(6) + T(5) \times T(8). \\ &:= (F(5) + (F(4) + F(6)) \times F(3)) \times F(8) = (T(5) + T(4)) \times T(6) + T(3) + T(8). \\ &:= F(5) + F(3) \times (F(7) \times F(8) + F(6)) = T(5) \times (T(3) + T(7)) + T(8) + T(6). \\ &:= F(8) \times (F(3) + F(2) + F(4) \times F(6)) = (T(8) + T(3)) \times (T(2) + T(4)) + T(6). \end{aligned}$$

$$568 := F(1) + (F(2) + F(3) \times F(7)) \times F(8) = (T(1) + T(2) \times T(3)) \times T(7) + T(8).$$

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

$$572 := (F(1) + F(6)) \times F(4) \times F(8) + F(5) = T(1) + T(6) + T(4) + T(8) \times T(5).$$

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

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

$$577 := F(5) + (F(8) + F(2)) \times F(3) \times F(7) = T(5) \times T(8) + T(2) + T(3) + T(7).$$

$$579 := F(2) + (F(7) + F(1) + F(4)) \times F(9) = T(2) \times T(7) + (T(1) + T(4)) \times T(9).$$

$$580 := F(3) + F(9) \times (F(4) + F(2) + F(7)) = T(3) \times T(9) + T(4) \times (T(2) + T(7)).$$

$$582 := F(4) \times (F(5) + (F(1) + F(6)) \times F(8)) = (T(4) + T(5) + T(1)) \times T(6) + T(8).$$

$$584 := (F(9) + (F(4) \times F(1)) \times F(7)) \times F(6) = T(9) + (T(4) + T(1)) \times (T(7) + T(6)).$$

$$585 := (F(6) + F(2)) \times F(7) \times (F(4) + F(3)) = T(6) + (T(2) \times T(7) + T(4)) \times T(3).$$

$$:= (F(2) + F(3) \times (F(1) + F(8))) \times F(7) = (T(2) + T(3)) \times (T(1) + T(8) + T(7)).$$

$$:= F(1) + (F(3) \times F(9) + F(5)) \times F(6) = T(1) \times T(3) \times T(9) + T(5) \times T(6).$$

$$586 := (F(4) + F(7) \times F(8)) \times F(3) + F(9) = T(4) \times T(7) + T(8) + T(3) \times T(9).$$

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

$$588 := (F(6) \times F(9) + F(8) + F(1)) \times F(3) = T(6) + (T(9) + T(8)) \times (T(1) + T(3)).$$

$$:= (F(2) + F(4)) \times (F(3) + F(5)) \times F(8) = T(2) \times (T(4) + T(3)) + T(5) \times T(8).$$

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

$$594 := F(3) \times (F(7) \times F(8) + F(4) \times F(6)) = T(3) \times (T(7) + T(8)) + T(4) \times T(6).$$

$$:= F(3) \times (F(2) + F(6) \times (F(4) + F(9))) = T(3) \times (T(2) + T(6)) + T(4) \times T(9).$$

$$\begin{aligned}
695 &:= (F(1) + F(9)) \times (F(6) \times F(3) + F(2)) = T(1) + (T(9) + T(6)) \times (T(3) + T(2)). \\
698 &:= ((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)). \\
600 &:= (F(3) + F(7)) \times (F(2) + F(5) + F(9)) = (T(3) + T(7) + T(2)) \times T(5) + T(9). \\
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). \\
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). \\
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). \\
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). \\
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). \\
&:= F(4) + (F(6) + F(2)) \times F(3) \times F(9) = 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)) = T(5) \times T(8) + T(2) \times T(4) + T(9). \\
616 &:= F(1) + F(4) + (F(7) + F(5)) \times F(9) = T(1) + (T(4) + T(7)) \times T(5) + T(9). \\
&:= (F(4) + F(6)) \times (F(8) + F(1) + F(9)) = T(4) \times (T(6) + T(8)) + T(1) + T(9). \\
618 &:= (F(3) + (F(2) + F(5)) \times F(9)) \times F(4) = T(3) \times T(2) + (T(5) + T(9)) \times T(4). \\
619 &:= F(3) \times (F(9) + F(7) \times F(8)) + F(5) = T(3) + T(9) + T(7) + T(8) \times T(5). \\
624 &:= (F(2) + F(4) + F(3)) \times F(6) \times F(7) = T(2) \times T(4) + T(3) + T(6) \times T(7). \\
&:= (F(3) \times F(4) + F(6) + F(9)) \times F(7) = T(3) \times (T(4) + T(6) + T(9) + T(7)). \\
&:= (F(1) + F(8) \times F(3) + F(5)) \times F(7) = 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)) = T(6) \times (T(2) + T(4) + T(5)) + T(8). \\
625 &:= F(1) \times F(5) \times (F(8) + F(6) \times F(7)) = (T(1) + T(5)) \times T(8) + T(6) + T(7). \\
&:= (F(3) + F(4)) \times (F(8) + F(6) \times F(7)) = (T(3) + T(4)) \times T(8) + T(6) + T(7). \\
&:= F(1) + F(7) \times F(6) \times F(3) \times F(4) = (T(1) + T(7)) \times T(6) + T(3) + T(4). \\
627 &:= F(4) + (F(5) + F(9)) \times F(3) \times F(6) = T(4) \times (T(5) + T(9)) + T(3) + T(6).
\end{aligned}$$

$$\begin{aligned}
630 & := (F(2) \times F(3)) \times F(5) \times F(4) \times F(8) = T(2) \times T(3) \times T(5) + T(4) \times T(8). \\
630 & := (F(2) + F(1) + F(7)) \times F(3) \times F(8) = 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) = T(1) \times T(4) \times (T(3) + T(6) + T(8)). \\
& := (F(1) + F(3) \times F(6) + F(7)) \times F(8) = T(1) \times T(3) + T(6) \times T(7) + T(8). \\
& := (F(1) + F(3)) \times (F(9) + F(6)) \times F(5) = (T(1) + T(3)) \times T(9) + T(6) \times T(5). \\
& := F(4) \times (F(1) + F(5)) \times (F(2) + F(9)) = T(4) \times T(1) \times (T(5) + T(2) + T(9)). \\
& := F(5) \times (F(3) + F(2)) \times (F(6) + F(9)) = T(5) \times (T(3) \times T(2) + T(6)) + T(9). \\
& := F(3) \times ((F(9) + F(5)) \times F(6) + F(4)) = T(3) \times T(9) + (T(5) + T(6)) \times T(4). \\
631 & := F(1) + F(4) \times (F(3) + F(6)) \times F(8) = T(1) + T(4) \times (T(3) + T(6) + T(8)). \\
632 & := (F(3) \times F(4) \times F(7) + F(1)) \times F(6) = T(3) + T(4) + T(7) \times (T(1) + T(6)). \\
633 & := ((F(3) + F(6)) \times F(8) + F(1)) \times F(4) = T(3) + (T(6) + T(8)) \times (T(1) + T(4)). \\
& := (F(2) + (F(3) + F(6)) \times F(8)) \times F(4) = T(2) + (T(3) + T(6) + T(8)) \times T(4). \\
& := F(4) \times (F(2) + F(5) \times (F(6) + F(9))) = (T(4) + T(2) + T(5)) \times T(6) + T(9). \\
634 & := F(3) \times (F(5) + F(7) \times (F(4) + F(8))) = (T(3) + T(5)) \times T(7) + T(4) + T(8). \\
636 & := F(3) \times F(4) \times (F(1) + F(5) \times F(8)) = T(3) \times T(4) + (T(1) + T(5)) \times T(8). \\
& := (F(3) + F(7) \times F(6)) \times (F(2) + F(5)) = 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)) = (T(4) + T(3)) \times T(8) + T(5) + T(9). \\
637 & := ((F(1) + F(8)) \times F(3) + F(5)) \times F(7) = T(1) + T(8) \times T(3) + T(5) \times T(7). \\
638 & := F(1) + (F(9) + F(5) \times F(4)) \times F(7) = (T(1) + T(9) + T(5)) \times T(4) + T(7). \\
639 & := (F(4) + F(9) \times F(3)) \times (F(2) + F(6)) = T(4) \times T(9) + (T(3) + T(2)) \times T(6). \\
640 & := F(1) \times F(6) \times (F(4) + F(7)) \times F(5) = (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) = 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)) = (T(2) + T(6)) \times T(5) + T(4) \times T(7). \\
& := (F(4) \times F(8) + F(1)) \times (F(3) + F(6)) = T(4) \times (T(8) + T(1) + T(3) + T(6)). \\
& := F(3) \times F(6) \times (F(2) + F(7) \times F(4)) = T(3) \times (T(6) + T(2) \times T(7)) + T(4). \\
& := F(3) \times (F(6) + F(7) \times (F(4) + F(8))) = T(3) + T(6) \times T(7) + T(4) + T(8). \\
641 & := F(1) + (F(4) + F(7)) \times F(5) \times F(6) = T(1) + T(4) \times (T(7) + T(5) + T(6)). \\
645 & := F(4) \times (F(3) \times F(8) + F(2)) \times F(5) = T(4) \times T(3) + (T(8) + T(2)) \times T(5). \\
& := F(4) \times F(5) \times (F(2) + F(6) + F(9)) = (T(4) + T(5)) \times (T(2) + T(6)) + T(9). \\
& := F(4) \times ((F(3) + F(6)) \times F(8) + F(5)) = T(4) \times (T(3) + T(6) + T(8)) + T(5). \\
& := F(5) \times (F(1) + (F(7) + F(4)) \times F(6)) = T(5) \times (T(1) + T(7)) + T(4) \times T(6). \\
& := F(5) \times (F(8) + F(4) \times (F(3) + F(9))) = T(5) \times T(8) + T(4) \times T(3) + T(9).
\end{aligned}$$

$$\begin{aligned}
646 &:= (F(1) + F(3) + F(7) + F(4)) \times F(9) = (T(1) + T(3)) \times T(7) + T(4) \times T(9). \\
648 &:= F(4) \times (F(1) + F(3) \times F(7)) \times F(6) = T(4) \times T(1) \times T(3) + T(7) \times T(6). \\
651 &:= ((F(5) + F(2)) \times F(4) + F(7)) \times F(8) = T(5) \times (T(2) + T(4) + T(7)) + T(8). \\
&:= ((F(5) \times F(1)) + (F(7) \times F(3))) \times F(8) = T(5) \times (T(1) + T(7)) + T(3) \times T(8). \\
&:= F(1) + F(7) \times (F(6) + F(3) \times F(8)) = (T(1) + T(7)) \times T(6) + T(3) + T(8). \\
&:= F(2) + (F(6) + F(3)) \times F(5) \times F(7) = T(2) \times T(6) + (T(3) + T(5)) \times T(7). \\
652 &:= F(1) + (F(5) + F(3) \times F(7)) \times F(8) = (T(1) + T(5) + T(3)) \times T(7) + T(8). \\
658 &:= (F(4) + F(8)) \times F(7) \times F(3) + F(9) = T(4) \times T(8) + T(7) + T(3) \times T(9). \\
&:= (F(1) + F(7)) \times (F(5) + F(3) \times F(8)) = T(1) \times T(7) + T(5) \times (T(3) + T(8)). \\
660 &:= F(4) \times (F(2) + F(8)) \times F(3) \times F(5) = T(4) \times T(2) + (T(8) + T(3)) \times T(5). \\
&:= F(4) \times (F(3) + F(6)) \times (F(2) + F(8)) = T(4) \times (T(3) + T(6) + T(2) + T(8)). \\
663 &:= (F(4) + (F(5) + F(2)) \times F(6)) \times F(7) = (T(4) + T(5)) \times T(2) + T(6) \times T(7). \\
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). \\
669 &:= (F(9) + F(3)) \times (F(5) + F(7)) + F(8) = T(9) + (T(3) + T(5)) \times T(7) + T(8). \\
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). \\
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). \\
682 &:= (F(3) \times F(7) + F(5)) \times (F(2) + F(8)) = T(3) + T(7) + (T(5) + T(2)) \times T(8). \\
684 &:= (F(2) + F(5) + F(7)) \times (F(3) + F(9)) = T(2) \times (T(5) + T(7) \times T(3) + T(9)). \\
684 &:= (F(2) + F(6)) \times (F(9) + F(3) \times F(8)) = (T(2) \times T(6) + T(9)) \times T(3) + T(8). \\
688 &:= (F(1) + F(6) + F(9)) \times (F(4) + F(7)) = (T(1) \times T(6) + T(9)) \times T(4) + T(7). \\
690 &:= F(5) \times (F(3) + F(9) \times (F(2) + F(4))) = (T(5) + T(3) + T(9) + T(2)) \times T(4). \\
693 &:= F(4) \times (F(1) + F(3) + F(6)) \times F(8) = (T(4) + T(1)) \times (T(3) + T(6) + T(8)). \\
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). \\
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). \\
706 &:= F(9) + F(6) \times (F(1) + F(4)) \times F(8) = (T(9) + T(6) + T(1)) \times T(4) + T(8). \\
712 &:= ((F(1) + F(4)) \times F(8) + F(5)) \times F(6) = T(1) + (T(4) + T(8)) \times T(5) + T(6).
\end{aligned}$$

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

$$718 := F(4) + F(2) + F(9) \times (F(6) + F(7)) = T(4) \times (T(2) + T(9) + T(6)) + T(7).$$

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

$$721 := F(2) + F(5) + (F(8) + F(9)) \times F(7) = (T(2) + T(5)) \times T(8) + T(9) + T(7).$$

$$722 := F(1) \times F(4) + F(5) + F(9) \times F(8) = T(1) + T(4) + T(5) \times T(9) + T(8).$$

$$726 := F(4) + F(2) + F(6) + F(9) \times F(8) = T(4) \times (T(2) + T(6) + T(9)) + T(8).$$

$$727 := F(4) + F(3) \times F(5) + F(9) \times F(8) = T(4) + T(3) + T(5) \times T(9) + T(8).$$

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

$$735 := F(4) \times (F(3) + F(5)) \times (F(1) + F(9)) = T(4) \times T(3) + T(5) \times T(1) \times T(9).$$

$$738 := F(2) + F(3) + F(8) \times (F(1) + F(9)) = (T(2) + T(3)) \times (T(8) + T(1) + T(9)).$$

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

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

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

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

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

$$751 := F(4) + F(9) \times (F(1) + F(7) + F(6)) = T(4) \times (T(9) \times T(1) + T(7)) + T(6).$$

$$753 := F(3) + F(4) + (F(2) + F(8)) \times F(9) = T(3) \times (T(4) + T(2) \times T(8)) + T(9).$$

$$754 := (F(1) \times F(4) \times F(6) + F(9)) \times F(7) = (T(1) + T(4)) \times (T(6) + T(9)) + T(7).$$

$$:= (F(2) \times F(6) \times F(4) + F(9)) \times F(7) = T(2) + T(6) + T(4) \times (T(9) + T(7)).$$

$$756 := ((F(2) + F(5)) \times F(3) \times F(4)) \times F(8) = T(2) \times T(5) \times (T(3) + T(4)) + T(8).$$

$$759 := F(2) \times F(4) + (F(3) + F(9)) \times F(8) = T(2) + (T(4) + T(3)) \times T(9) + T(8).$$

$$760 := (F(1) + (F(9) + F(7)) \times F(3)) \times F(6) = T(1) + T(9) + (T(7) + T(3)) \times T(6).$$

$$:= (F(6) + F(3)) \times (F(7) + F(4) \times F(8)) = T(6) \times (T(3) + T(7)) + T(4) + T(8).$$

$$762 := F(1) + F(5) + (F(9) + F(3)) \times F(8) = (T(1) + T(5)) \times T(9) + T(3) + T(8).$$

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

$$763 := F(3) + (F(1) + F(8)) \times F(9) + F(7) = (T(3) + T(1)) \times (T(8) + T(9) + T(7)).$$

$$766 := (F(1) + F(4)) \times F(7) + F(9) \times F(8) = (T(1) \times T(4)) \times (T(7) + T(9)) + T(8).$$

$$767 := (F(1) + F(8) + F(4) + F(9)) \times F(7) = T(1) + T(8) + T(4) \times (T(9) + T(7)).$$

$$768 := (F(2) + F(5)) \times (F(4) + F(7)) \times F(6) = (T(2) + T(5)) \times T(4) + T(7) \times T(6).$$

$$771 := F(5) \times F(4) + (F(3) + F(9)) \times F(8) = T(5) + (T(4) + T(3)) \times T(9) + T(8).$$

$$772 := F(4) + F(7) + (F(9) + F(3)) \times F(8) = T(4) \times (T(7) + T(9)) + T(3) + T(8).$$

$$774 := (F(2) + F(6)) \times (F(7) \times F(5) + F(8)) = T(2) + (T(6) + T(7)) \times T(5) + T(8).$$

$$777 := (F(2) + (F(5) + F(7)) \times F(3)) \times F(8) = T(2) \times (T(5) + T(7) + T(3) \times T(8)).$$

$$780 := F(4) \times (F(3) + F(6)) \times (F(5) + F(8)) = T(4) \times (T(3) + T(6) + T(5) + T(8)).$$

$$783 := F(1) \times F(2) + (F(3) + F(8)) \times F(9) = T(1) \times T(2) \times (T(3) \times T(8) + T(9)).$$

$$784 := F(1) + F(2) + (F(3) + F(8)) \times F(9) = T(1) + T(2) \times (T(3) \times T(8) + T(9)).$$

$$:= F(8) \times F(9) + F(5) \times (F(1) + F(7)) = T(8) + T(9) \times (T(5) + T(1)) + T(7).$$

$$793 := ((F(2) + F(6)) \times F(4) + F(9)) \times F(7) = T(2) \times T(6) + T(4) \times (T(9) + T(7)).$$

$$798 := F(4) + (F(8) + F(3)) \times F(9) + F(7) = T(4) \times T(8) + T(3) \times (T(9) + T(7)).$$

$$800 := (F(3) \times F(8) + F(6)) \times (F(4) + F(7)) = T(3) + T(8) \times T(6) + T(4) + T(7).$$

$$805 := (F(4) \times F(9) + F(7)) \times (F(3) + F(5)) = T(4) \times (T(9) + T(7) + T(3)) + T(5).$$

$$810 := F(5) + (F(8) + F(3)) \times (F(1) + F(9)) = T(5) \times T(8) + T(3) \times T(1) \times T(9).$$

$$814 := (F(1) \times F(2) + F(8)) \times (F(9) + F(4)) = T(1) + T(2) + (T(8) + T(9)) \times T(4).$$

$$816 := (F(3) + F(2) + F(6) + F(7)) \times F(9) = T(3) \times (T(2) \times T(6) + T(7) + T(9)).$$

$$:= F(3) + (F(4) + F(9)) \times (F(1) + F(8)) = T(3) + T(4) \times (T(9) \times T(1) + T(8)).$$

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

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

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

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

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

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

$$829 := F(9) \times (F(1) + F(3)) \times F(6) + F(7) = T(9) + (T(1) + T(3) + T(6)) \times T(7).$$

$$830 := F(4) \times (F(7) \times F(8) + F(1)) + F(6) = T(4) + T(7) + T(8) \times (T(1) + T(6)).$$

$$831 := (F(3) + F(5) \times (F(8) + F(9))) \times F(4) = T(3) + T(5) + (T(8) + T(9)) \times T(4).$$

$$832 := (F(2) \times F(4) + F(5)) \times F(6) \times F(7) = (T(2) + T(4)) \times (T(5) + T(6) + T(7)).$$

$$:= (F(2) + F(6) + F(8) + F(9)) \times F(7) = T(2) + T(6) \times T(8) + T(9) + T(7).$$

$$:= (F(1) \times F(2) + F(4) \times F(8)) \times F(7) = (T(1) \times T(2) + T(4)) \times (T(8) + T(7)).$$

$$:= F(3) \times (F(4) + F(2)) \times F(6) \times F(7) = (T(3) + T(4)) \times (T(2) + T(6) + T(7)).$$

$$833 := F(1) + (F(2) + F(4) \times F(8)) \times F(7) = T(1) + (T(2) + T(4)) \times (T(8) + T(7)).$$

$$835 := F(4) + F(7) + F(8) \times (F(5) + F(9)) = T(4) \times (T(7) + T(8) + T(5)) + T(9).$$

$$840 := ((F(1) + F(3)) \times F(7) + F(2)) \times F(8) = (T(1) + T(3)) \times (T(7) \times T(2) + T(8)).$$

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

$$:= (F(3) \times (F(4) + F(7)) + F(6)) \times F(8) = T(3) + (T(4) + T(7)) \times T(6) + T(8).$$

$$:= (F(4) + F(2)) \times (F(9) + F(6)) \times F(5) = T(4) \times (T(2) + T(9) + T(6) + T(5)).$$

$$:= (F(4) + (F(2) + F(3)) \times F(9)) \times F(6) = T(4) \times (T(2) \times T(3) + T(9) + T(6)).$$

$$\begin{aligned}
841 &:= F(1) + (F(4) + F(8)) \times (F(2) + F(9)) = T(1) + T(4) \times (T(8) + T(2) + T(9)). \\
844 &:= F(2) + F(8) \times F(6) \times F(5) + F(4) = (T(2) + T(8)) \times T(6) + T(5) + T(4). \\
845 &:= (F(2) + F(4) \times F(8) + F(1)) \times F(7) = (T(2) + T(4)) \times (T(8) + T(1) + T(7)). \\
846 &:= F(3) \times (F(2) + F(6)) \times (F(7) + F(9)) = (T(3) + T(2)) \times (T(6) + T(7) + T(9)). \\
\\
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). \\
\\
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)). \\
&:= (F(1) + F(4) \times F(6)) \times (F(7) + F(8)) = (T(1) \times T(4)) \times (T(6) + T(7) + T(8)). \\
\\
855 &:= (F(3) + F(4)) \times (F(2) + F(5) \times F(9)) = (T(3) \times T(4)) \times T(2) + T(5) \times T(9). \\
&:= F(5) + (F(2) + F(8) + F(4)) \times F(9) = (T(5) \times T(2) + T(8)) \times T(4) + T(9). \\
\\
856 &:= (F(4) \times F(7) + F(9) \times F(3)) \times F(6) = T(4) \times (T(7) + T(9)) + T(3) \times T(6). \\
858 &:= F(4) \times (F(6) + F(5)) \times (F(2) + F(8)) = T(4) \times T(6) + (T(5) + T(2)) \times T(8). \\
\\
861 &:= (F(2) \times F(3) + F(9) + F(5)) \times F(8) = T(2) \times T(3) \times T(9) + T(5) + T(8). \\
&:= (F(1) + F(8)) \times (F(5) + F(9)) + F(4) = T(1) \times T(8) + T(5) \times (T(9) + T(4)). \\
&:= F(8) + (F(2) + F(9)) \times F(4) \times F(6) = (T(8) + T(2) + T(9)) \times T(4) + T(6). \\
\\
864 &:= F(2) \times F(4) \times F(6) \times (F(9) + F(3)) = (T(2) + T(4)) \times (T(6) + T(9)) + T(3). \\
&:= (F(2) + F(3) + F(5) \times F(8)) \times F(6) = T(2) + T(3) + T(5) \times (T(8) + T(6)). \\
&:= (F(3) + F(7) \times (F(2) + F(8))) \times F(4) = 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) = (T(4) + T(8)) \times T(3) + T(7) \times T(6). \\
\\
865 &:= F(1) + (F(4) + F(5) \times F(8)) \times F(6) = T(1) \times T(4) + T(5) \times (T(8) + T(6)). \\
873 &:= (F(2) + F(6)) \times (F(4) \times F(8) + F(9)) = T(2) \times T(6) + T(4) \times (T(8) + T(9)). \\
879 &:= (F(2) + F(8) \times F(6)) \times F(5) + F(9) = (T(2) + T(8)) \times T(6) + T(5) + T(9). \\
\\
880 &:= F(1) \times F(5) \times F(6) \times (F(2) + F(8)) = T(1) + T(5) + (T(6) + T(2)) \times T(8). \\
&:= (F(3) + F(4)) \times (F(8) + F(2)) \times F(6) = T(3) + T(4) + T(8) \times (T(2) + T(6)). \\
&:= (F(4) \times F(3) + F(9)) \times (F(1) + F(8)) = T(4) \times (T(3) + T(9) + T(1) + T(8)). \\
\\
882 &:= (F(2) + F(4) \times F(7) + F(3)) \times F(8) = 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) = T(3) \times T(5) + (T(1) + T(6)) \times T(8).
\end{aligned}$$

$$\begin{aligned}
886 &:= F(3) + F(7) \times (F(5) + F(4) \times F(8)) = (T(3) + T(7)) \times (T(5) + T(4)) + T(8). \\
891 &:= F(2) + (F(4) + F(7) \times F(9)) \times F(3) = T(2) \times T(4) \times T(7) + T(9) + T(3). \\
897 &:= (F(1) \times F(8) + F(3)) \times (F(5) + F(9)) = (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)) = T(2) \times (T(7) + T(1) + T(3) \times T(9)). \\
900 &:= (F(4) + F(2) + F(8)) \times (F(3) + F(9)) = T(4) \times (T(2) + T(8) + T(3) + T(9)). \\
&:= (F(2) + F(4) \times F(6)) \times (F(3) + F(9)) = 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)) = T(3) \times (T(6) + T(2) \times T(7) + T(9)). \\
903 &:= F(2) \times F(8) \times (F(1) + F(6) + F(9)) = (T(2) + T(8)) \times (T(1) + T(6)) + T(9). \\
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)). \\
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)). \\
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). \\
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). \\
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)). \\
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). \\
937 &:= (F(9) + F(6)) \times (F(2) + F(8)) + F(7) = T(9) + (T(6) + T(2)) \times T(8) + T(7). \\
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). \\
946 &:= (F(1) + F(8)) \times (F(4) + F(5) \times F(6)) = (T(1) + T(8)) \times (T(4) + T(5)) + T(6). \\
955 &:= F(3) \times F(9) \times (F(7) + F(2)) + F(4) = T(3) + (T(9) + T(7)) \times (T(2) + T(4)). \\
957 &:= F(4) \times (F(7) + (F(2) + F(6)) \times F(9)) = (T(4) + T(7)) \times (T(2) + T(6)) + T(9). \\
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).
\end{aligned}$$

$$963 := F(2) + (F(4) + F(9)) \times (F(5) + F(8)) = T(2) + T(4) \times (T(9) + T(5) + T(8)).$$

$$\begin{aligned} 966 &:= (F(2) + F(7)) \times F(4) \times (F(3) + F(8)) = T(2) \times (T(7) \times T(4) + T(3) + T(8)). \\ &:= (F(4) \times F(3) + F(5) \times F(6)) \times F(8) = T(4) \times (T(3) + T(5)) + T(6) \times T(8). \\ &:= (F(2) + (F(3) + F(7)) \times F(4)) \times F(8) = T(2) \times (T(3) + T(7) \times T(4) + T(8)). \\ &:= (F(3) + F(8)) \times ((F(5) + F(9)) + F(4)) = T(3) + (T(8) + T(5) + T(9)) \times T(4). \end{aligned}$$

$$973 := F(9) \times (F(7) + F(4) \times F(5)) + F(8) = T(9) + T(7) + (T(4) + T(5)) \times T(8).$$

$$984 := (F(2) + F(5) \times F(6)) \times (F(4) + F(8)) = T(2) + T(5) + T(6) \times (T(4) + T(8)).$$

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

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

$$989 := F(4) + (F(7) + F(3) \times F(6)) \times F(9) = T(4) + T(7) + T(3) + T(6) \times T(9).$$

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

$$992 := (F(1) + F(8) + F(4) \times F(9)) \times F(6) = T(1) + T(8) + T(4) + T(9) \times T(6).$$

$$994 := (F(1) + F(7)) \times (F(6) + F(4) \times F(8)) = T(1) \times T(7) + T(6) \times (T(4) + T(8)).$$

$$1000 := (F(4) + F(5)) \times (F(6) \times F(7) + F(8)) = T(4) \times (T(5) + T(6) + T(7) + T(8)).$$

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

$$1009 := F(1) + F(8) \times F(3) \times F(6) \times F(4) = (T(1) + T(8)) \times (T(3) + T(6)) + T(4).$$

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

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

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

$$\begin{aligned} 1020 &:= (F(1) + F(2) + F(6)) \times F(4) \times F(9) = (T(1) + T(2)) \times (T(6) \times T(4) + T(9)). \\ &:= (F(1) + F(3) + F(4)) \times F(5) \times F(9) = (T(1) + T(3) + T(4)) \times (T(5) + T(9)). \\ &:= (F(2) + F(8) + F(4) + F(5)) \times F(9) = (T(2) + T(8)) \times (T(4) + T(5)) + T(9). \\ &:= (F(2) + F(5) + F(4) \times F(6)) \times F(9) = T(2) \times (T(5) + T(4)) + T(6) \times T(9). \\ &:= F(3) \times F(4) \times F(5) \times (F(7) + F(8)) = T(3) \times T(4) + T(5) \times (T(7) + T(8)). \\ &:= F(4) \times (F(6) + F(3)) \times F(2) \times F(9) = T(4) \times T(6) + T(3) \times T(2) \times T(9). \end{aligned}$$

$$\begin{aligned} 1023 &:= (F(2) + F(6) + F(8)) \times F(9) + F(4) = T(2) + (T(6) + T(8) + T(9)) \times T(4). \\ &:= F(4) \times (F(2) + (F(3) + F(6)) \times F(9)) = (T(4) + T(2)) \times T(3) + T(6) \times T(9). \end{aligned}$$

$$1027 := (F(2) + F(4) \times (F(5) + F(8))) \times F(7) = (T(2) + T(4)) \times (T(5) + T(8) + T(7)).$$

$$1032 := (F(4) + F(8)) \times (F(1) + F(6) + F(9)) = (T(4) + T(8) + T(1)) \times T(6) + T(9).$$

$$1033 := F(4) \times (F(3) + F(6)) \times F(9) + F(7) = T(4) \times T(3) + T(6) \times T(9) + T(7).$$

$$\begin{aligned} 1035 &:= (F(2) + F(3) \times F(9)) \times F(4) \times F(5) = T(2) \times (T(3) \times (T(9) + T(4)) + T(5)). \\ &:= (F(5) \times F(4)) \times (F(1) + F(3) \times F(9)) = T(5) \times (T(4) + T(1)) \times T(3) + T(9). \end{aligned}$$

$$\begin{aligned} 1041 &:= F(3) \times F(5) \times F(9) \times F(4) + F(8) = T(3) + T(5) \times T(9) + T(4) \times T(8). \\ &:= F(4) \times (F(3) + F(6)) \times F(9) + F(8) = T(4) \times T(3) + T(6) \times T(9) + T(8). \end{aligned}$$

$$1042 := F(3) \times (F(1) + (F(5) \times F(6)) \times F(7)) = T(3) + (T(1) + T(5) + T(6)) \times T(7).$$

$$\begin{aligned} 1044 &:= (F(1) \times F(8) + F(6)) \times (F(3) + F(9)) = (T(1) + T(8)) \times (T(6) + T(3)) + T(9). \\ &:= (F(1) + F(2) + F(9)) \times (F(6) + F(8)) = (T(1) \times T(2) + T(9)) \times T(6) + T(8). \\ &:= (F(2) \times F(9) + F(3)) \times (F(6) + F(8)) = (T(2) + T(9)) \times T(3) + T(6) \times T(8). \end{aligned}$$

$$1050 := (F(4) \times F(6) + F(2)) \times F(3) \times F(8) = T(4) \times (T(6) \times T(2) + T(3) + T(8)).$$

$$\begin{aligned} 1050 &:= (F(1) + F(9) + F(5) \times F(4)) \times F(8) = (T(1) + T(9)) \times T(5) + T(4) \times T(8). \\ &:= (F(2) \times F(9) + F(6) \times F(3)) \times F(8) = (T(2) + T(9)) \times T(6) + T(3) + T(8). \\ &:= (F(3) + F(4)) \times F(5) \times (F(6) + F(9)) = T(3) \times T(4) + T(5) \times (T(6) + T(9)). \\ &:= (F(4) + F(2) + F(8)) \times (F(6) + F(9)) = T(4) \times (T(2) + T(8) + T(6) + T(9)). \\ &:= (F(3) \times F(5)) \times (F(1) + F(6) \times F(7)) = (T(3) + T(5)) \times (T(1) + T(6) + T(7)). \\ &:= F(4) \times (F(3) + F(6)) \times (F(1) + F(9)) = T(4) \times T(3) + (T(6) + T(1)) \times T(9). \\ &:= (F(9) + F(3) \times (F(4) + F(5))) \times F(8) = (T(9) + T(3)) \times T(4) + T(5) \times T(8). \end{aligned}$$

$$\begin{aligned}
1053 &:= F(4) \times (F(2) + F(5) + F(8)) \times F(7) = T(4) \times T(2) + T(5) + T(8) \times T(7). \\
&:= F(4) \times (F(2) + F(6)) \times (F(5) + F(9)) = (T(4) + T(2)) \times (T(6) + T(5) + T(9)).
\end{aligned}$$

$$1054 := (F(1) + F(2) + F(8) + F(6)) \times F(9) = T(1) + T(2) \times T(8) + T(6) \times T(9).$$

$$\begin{aligned}
1056 &:= (F(2) + F(8)) \times F(6) \times F(3) \times F(4) = T(2) \times ((T(8) + T(6)) \times T(3) + T(4)). \\
&:= (F(1) + F(9) + F(7)) \times (F(8) + F(2)) = T(1) \times T(9) + T(7) \times T(8) + T(2). \\
&:= (F(2) + F(5)) \times F(6) \times (F(1) + F(8)) = T(2) \times (T(5) \times T(6) + T(1) + T(8)). \\
&:= (F(1) + F(8)) \times (F(7) + F(2) + F(9)) = T(1) \times T(8) \times T(7) + T(2) + T(9).
\end{aligned}$$

$$\begin{aligned}
1071 &:= (F(9) + F(1) + F(3) \times F(6)) \times F(8) = T(9) \times (T(1) + T(3)) + T(6) \times T(8). \\
&:= (F(9) + F(2) + F(3) \times F(6)) \times F(8) = T(9) + T(2) \times T(3) \times (T(6) + T(8)). \\
&:= (F(2) + (F(3) + F(6)) \times F(5)) \times F(8) = T(2) \times (T(3) + T(6) \times T(5) + T(8)).
\end{aligned}$$

$$\begin{aligned}
1074 &:= F(3) \times F(5) \times F(6) \times F(7) + F(9) = (T(3) + T(5)) \times (T(6) + T(7)) + T(9). \\
&:= F(2) + (F(4) + F(9)) \times (F(8) + F(6)) = (T(2) + T(4)) \times (T(9) + T(8)) + T(6).
\end{aligned}$$

$$1086 := (F(5) + F(2)) \times (F(6) \times F(8) + F(7)) = T(5) + (T(2) \times T(6)) + T(8) \times T(7).$$

$$1090 := F(3) \times (F(2) + F(9) \times (F(4) + F(7))) = T(3) \times T(2) \times T(9) + T(4) \times T(7).$$

$$\begin{aligned}
1092 &:= (F(9) + F(6)) \times F(1) \times (F(5) + F(8)) = (T(9) + T(6)) \times (T(1) + T(5)) + T(8). \\
&:= (F(9) + F(6)) \times (F(3) + F(4) + F(8)) = (T(9) + T(6)) \times (T(3) + T(4)) + T(8).
\end{aligned}$$

$$1096 := (F(3) + (F(9) \times F(6))) \times (F(2) + F(4)) = T(3) + T(9) \times (T(6) + T(2)) + T(4).$$

$$1100 := ((F(4) + F(7)) + F(9)) \times (F(1) + F(8)) = T(4) \times (T(7) + T(9) + T(1) + T(8)).$$

$$1104 := (F(3) + (F(4) + F(2)) \times F(9)) \times F(6) = (T(3) + T(4)) \times (T(2) + T(9) + T(6)).$$

$$1108 := F(3) \times (F(9) + (F(6) \times F(5)) \times F(7)) = (T(3) + T(9) + T(6)) \times T(5) + T(7).$$

$$1113 := (F(3) \times F(4) + F(9) + F(7)) \times F(8) = T(3) \times T(4) + T(9) + T(7) \times T(8).$$

$$\begin{aligned}
1122 &:= (F(1) + F(4) + F(6) + F(8)) \times F(9) = (T(1) + T(4)) \times (T(6) + T(8) + T(9)). \\
&:= (F(1) + F(3)) \times (F(4) + F(6)) \times F(9) = (T(1) + T(3) + T(4)) \times (T(6) + T(9)).
\end{aligned}$$

$$1125 := F(5) \times ((F(3) \times F(9)) \times F(4) + F(8)) = T(5) \times (T(3) + T(9)) + T(4) \times T(8).$$

$$\begin{aligned}
1131 &:= (F(8) \times F(2) + F(6)) \times (F(9) + F(5)) = T(8) + (T(2) + T(6)) \times T(9) + T(5). \\
&:= F(4) \times (F(5) \times F(8) + F(6) \times F(9)) = T(4) \times T(5) + T(8) + T(6) \times T(9).
\end{aligned}$$

$$1132 := F(2) + (F(6) + F(8)) \times F(4) \times F(7) = (T(2) + T(6)) \times (T(8) + T(4)) + T(7).$$

$$\begin{aligned}
1134 &:= (F(1) + F(6)) \times (F(2) + F(5)) \times F(8) = 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) = T(3) \times T(2) + (T(6) + T(4)) \times T(8). \\
1134 &:= (F(3) \times F(7) + F(1)) \times (F(9) + F(6)) = T(3) \times T(7) + (T(1) + T(9)) \times T(6). \\
\\
1144 &:= (F(1) + F(4)) \times (F(2) + F(8)) \times F(7) = (T(1) + T(4) \times T(2)) \times T(8) + T(7). \\
&:= (F(9) + F(5)) \times (F(8) + F(6)) + F(7) = T(9) + (T(5) + T(8)) \times T(6) + T(7). \\
&:= (F(1) + (F(8) + F(6)) \times F(4)) \times F(7) = T(1) \times T(8) \times (T(6) + T(4)) + T(7). \\
&:= (F(2) + (F(6) + F(8)) \times F(4)) \times F(7) = (T(2) + T(6)) \times T(8) + T(4) \times T(7). \\
\\
1150 &:= (F(4) + F(7) + F(9)) \times (F(3) + F(8)) = T(4) \times (T(7) + T(9) + T(3) + T(8)). \\
\\
1155 &:= ((F(5) + F(7)) \times F(4) + F(2)) \times F(8) = T(5) \times (T(7) + T(4) + T(2) + T(8)). \\
&:= (F(5) + F(7) + F(4)) \times (F(8) + F(9)) = T(5) \times (T(7) + T(4) + T(8)) + T(9). \\
\\
1164 &:= F(2) \times F(9) \times (F(7) + F(8)) + F(6) = (T(2) \times T(9) + T(7) \times T(8)) + T(6). \\
1170 &:= (F(4) + F(6) + F(9)) \times (F(5) + F(8)) = T(4) \times (T(6) + T(9) + T(5) + T(8)). \\
\\
1176 &:= (F(3) + F(8) + F(5)) \times (F(6) + F(9)) = T(3) \times T(8) + T(5) + T(6) \times T(9). \\
&:= F(3) \times (F(7) + F(2)) \times (F(9) + F(6)) = T(3) \times T(7) + (T(2) + T(9)) \times T(6). \\
\\
1197 &:= (F(1) + (F(3) + F(5)) \times F(6)) \times F(8) = (T(1) \times T(3) + T(5)) \times (T(6) + T(8)). \\
1212 &:= F(3) \times F(4) \times (F(9) + F(6) \times F(8)) = T(3) + T(4) \times T(9) + T(6) \times T(8). \\
1218 &:= (F(7) + F(1)) \times (F(8) + F(6)) \times F(4) = T(7) \times T(1) \times T(8) + T(6) \times T(4). \\
\\
1224 &:= (F(2) \times F(3) + F(8) + F(7)) \times F(9) = T(2) + (T(3) + T(8)) \times T(7) + T(9). \\
&:= ((F(2) + F(3)) \times F(5) + F(8)) \times F(9) = T(2) + T(3) + T(5) \times (T(8) + T(9)). \\
\\
1225 &:= F(1) + (F(4) \times F(5) + F(8)) \times F(9) = T(1) \times T(4) + T(5) \times (T(8) + T(9)). \\
1251 &:= (F(5) \times F(8) + F(9)) \times (F(1) + F(6)) = T(5) \times (T(8) + T(9) + T(1)) + T(6). \\
\\
1260 &:= (F(2) + F(5)) \times F(8) \times (F(3) + F(6)) = (T(2) + T(5) + T(8) + T(3)) \times T(6). \\
&:= F(5) \times F(4) \times F(3) \times (F(6) + F(9)) = T(5) \times (T(4) \times T(3) + T(6)) + T(9). \\
&:= (F(2) + F(9)) \times (F(5) \times F(4) + F(8)) = T(2) \times (T(9) + T(5) + T(4) \times T(8)). \\
&:= F(8) \times (F(3) + F(7)) \times (F(2) + F(4)) = (T(8) + T(3) + T(7) \times T(2)) \times T(4). \\
\\
1261 &:= F(4) + (F(8) + F(3) \times F(6)) \times F(9) = T(4) + T(8) + (T(3) + T(6)) \times T(9). \\
1281 &:= (F(2) + F(9) + F(3) \times F(7)) \times F(8) = T(2) + T(9) \times T(3) + T(7) \times T(8). \\
1292 &:= (F(1) + F(4) \times F(6) + F(7)) \times F(9) = T(1) + T(4) + T(6) + T(7) \times T(9).
\end{aligned}$$

$$\begin{aligned}
1302 & := (F(3) \times (F(1) + F(7)) + F(9)) \times F(8) = T(3) \times T(1) + T(7) \times T(9) + T(8). \\
& := (F(6) + F(9)) \times (F(5) \times F(3) + F(8)) = T(6) \times (T(9) + T(5) + T(3)) + T(8). \\
& := (F(6) + F(9)) \times (F(7) \times F(3) + F(5)) = T(6) + T(9) \times T(7) + T(3) + T(5).
\end{aligned}$$

$$\begin{aligned}
1323 & := (F(3) \times F(6) + F(7) + F(9)) \times F(8) = T(3) + T(6) + T(7) \times T(9) + T(8). \\
& := (F(2) + F(6)) \times (F(3) + F(5)) \times F(8) = T(2) \times ((T(6) + T(3)) \times T(5) + T(8)). \\
& := F(8) \times (F(3) + F(2)) \times (F(7) + F(6)) = (T(8) + T(3)) \times (T(2) + T(7)) + T(6).
\end{aligned}$$

$$\begin{aligned}
1326 & := (F(3) + F(1)) \times (F(6) + F(5)) \times F(9) = T(3) + (T(1) + T(6)) \times (T(5) + T(9)). \\
& := F(4) \times F(7) \times (F(5) + F(6) + F(8)) = (T(4) + T(7)) \times T(5) + T(6) \times T(8).
\end{aligned}$$

$$\begin{aligned}
1333 & := F(4) \times (F(8) + F(9)) \times F(6) + F(7) = T(4) \times T(8) + T(9) \times T(6) + T(7). \\
1338 & := F(4) \times ((F(7) + F(6)) \times F(8) + F(5)) = (T(4) + T(7)) \times T(6) + T(8) \times T(5). \\
1339 & := (F(9) + (F(3) + F(8)) \times F(4)) \times F(7) = T(9) + T(3) + (T(8) + T(4)) \times T(7).
\end{aligned}$$

$$\begin{aligned}
1344 & := (F(1) + F(4)) \times F(6) \times F(3) \times F(8) = (T(1) + T(4) + T(6)) \times (T(3) + T(8)). \\
& := (F(2) \times F(4) + F(5)) \times F(8) \times F(6) = (T(2) + T(4) + T(5) + T(8)) \times T(6). \\
& := (F(4) + F(2)) \times F(3) \times F(8) \times F(6) = (T(4) + T(2) \times T(3) + T(8)) \times T(6).
\end{aligned}$$

$$\begin{aligned}
1347 & := (F(3) + F(1)) \times F(7) \times F(9) + F(8) = T(3) + (T(1) + T(7)) \times T(9) + T(8). \\
& := F(9) \times F(7) \times (F(2) + F(3)) + F(8) = T(9) + (T(7) + T(2)) \times (T(3) + T(8)).
\end{aligned}$$

$$1353 := F(4) \times (F(6) + F(2) + F(7) \times F(9)) = (T(4) + T(6)) \times T(2) + T(7) \times T(9).$$

$$\begin{aligned}
1360 & := (F(4) + F(1)) \times F(3) \times F(5) \times F(9) = T(4) \times (T(1) + T(3) \times T(5) + T(9)). \\
& := F(1) \times F(5) \times F(6) \times (F(7) + F(8)) = (T(1) + T(5)) \times (T(6) + T(7) + T(8)). \\
& := (F(3) + F(4)) \times F(6) \times (F(7) + F(8)) = (T(3) + T(4)) \times (T(6) + T(7) + T(8)). \\
& := (F(4) \times (F(2) + F(6)) + F(7)) \times F(9) = T(4) \times (T(2) \times T(6) + T(7) + T(9)). \\
& := (F(4) + F(2)) \times (F(3) + F(6)) \times F(9) = T(4) + (T(2) + T(3) + T(6)) \times T(9). \\
& := F(9) \times F(5) \times F(3) \times (F(1) + F(4)) = (T(9) + T(5) \times T(3) + T(1)) \times T(4).
\end{aligned}$$

$$\begin{aligned}
1365 & := (F(3) + F(4) \times F(9) + F(1)) \times F(7) = T(3) \times T(4) + T(9) \times (T(1) + T(7)). \\
& := (F(3) + F(4)) \times (F(1) + F(6) \times F(9)) = T(3) \times T(4) \times (T(1) + T(6)) + T(9). \\
& := F(5) + (F(4) + F(3)) \times F(6) \times F(9) = T(5) \times T(4) + (T(3) + T(6)) \times T(9).
\end{aligned}$$

$$1366 := F(2) + F(8) \times F(7) \times (F(4) + F(3)) = (T(2) \times T(8) + T(7)) \times T(4) + T(3).$$

$$\begin{aligned}
1368 & := F(4) + (F(6) \times F(9) + F(2)) \times F(5) = (T(4) + T(6) + T(9)) \times (T(2) + T(5)). \\
& := F(5) + (F(6) + F(8)) \times (F(7) + F(9)) = T(5) \times T(6) + T(8) \times T(7) + T(9). \\
& := F(6) \times (F(2) + (F(3) + F(4)) \times F(9)) = T(6) \times (T(2) + T(3) \times T(4)) + T(9). \\
& := F(6) \times (F(2) + F(5) \times (F(7) + F(8))) = (T(6) + T(2)) \times T(5) + T(7) \times T(8).
\end{aligned}$$

$$1371 := F(2) + (F(1) + F(8) \times F(7)) \times F(5) = T(2) \times (T(1) + T(8) + T(7) \times T(5)).$$

$$1378 := ((F(3) + F(4)) \times F(8) + F(2)) \times F(7) = T(3) + (T(4) + T(8) + T(2)) \times T(7).$$

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

$$1378 := F(4) + (F(8) \times F(7) + F(3)) \times F(5) = (T(4) + T(8)) \times T(7) + T(3) \times T(5).$$

$$1380 := (F(2) \times F(4) + F(7) \times F(8)) \times F(5) = T(2) \times T(4) \times T(7) + T(8) \times T(5).$$

$$1386 := (F(2) + (F(3) + F(4)) \times F(7)) \times F(8) = T(2) \times T(3) + (T(4) + T(7)) \times T(8).$$

$$:= (F(3) + (F(5) + F(4)) \times F(6)) \times F(8) = T(3) \times (T(5) + T(4) \times T(6)) + T(8).$$

$$:= F(6) + (F(2) + F(5) \times F(8)) \times F(7) = T(6) \times (T(2) + T(5)) + T(8) \times T(7).$$

$$1390 := F(2) + (F(9) \times F(7) + F(8)) \times F(4) = (T(2) + T(9)) \times T(7) + T(8) + T(4).$$

$$1392 := (F(2) + F(9) + F(7)) \times (F(8) + F(6)) = T(2) + T(9) + (T(7) + T(8)) \times T(6).$$

$$1404 := F(4) \times (F(3) + F(9)) \times F(2) \times F(7) = T(4) \times T(3) + (T(9) + T(2)) \times T(7).$$

$$1407 := (F(3) + F(5) \times F(7)) \times F(2) \times F(8) = (T(3) + T(5)) \times (T(7) + T(2) + T(8)).$$

$$1408 := F(1) + (F(3) + F(5) \times F(7)) \times F(8) = (T(1) + T(3) + T(5)) \times (T(7) + T(8)).$$

$$:= F(4) + (F(6) + F(7) \times F(8)) \times F(5) = (T(4) + T(6)) \times T(7) + T(8) \times T(5).$$

$$1410 := F(3) \times F(4) \times F(5) \times (F(7) + F(9)) = T(3) \times (T(4) + T(5)) + T(7) \times T(9).$$

$$:= (F(6) + F(1) + F(8)) \times (F(7) + F(9)) = T(6) \times (T(1) + T(8) + T(7)) + T(9).$$

$$1425 := F(5) \times F(1) \times (F(7) + F(6) \times F(9)) = T(5) \times (T(1) + T(7) + T(6) + T(9)).$$

$$1428 := (F(4) + F(7) + F(8) + F(5)) \times F(9) = (T(4) + T(7)) \times T(8) + T(5) + T(9).$$

$$:= (F(5) + F(2) + F(6)) \times F(4) \times F(9) = T(5) + T(2) \times (T(6) + T(4) \times T(9)).$$

$$1431 := F(2) + F(7) \times F(5) \times (F(1) + F(8)) = T(2) + T(7) \times (T(5) \times T(1) + T(8)).$$

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

$$1440 := (F(1) + F(2) + F(9)) \times F(5) \times F(6) = (T(1) + T(2)) \times (T(9) + T(5) \times T(6)).$$

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

$$1446 := F(5) \times (F(6) \times F(9) + F(7)) + F(8) = T(5) \times (T(6) + T(9) + T(7)) + T(8).$$

$$1449 := ((F(3) + F(5)) \times F(6) + F(7)) \times F(8) = (T(3) + T(5)) \times T(6) + T(7) \times T(8).$$

$$:= F(9) \times (F(1) + F(7)) \times F(4) + F(8) = T(9) + (T(1) + T(7) + T(4)) \times T(8).$$

$$:= (F(1) + F(3) \times F(9)) \times (F(7) + F(6)) = (T(1) \times T(3) + T(9)) \times T(7) + T(6).$$

$$\begin{aligned}
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)). \\
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)). \\
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). \\
1518 &:= (F(3) + F(8)) \times (F(2) + F(5) \times F(7)) = T(3) + (T(8) + T(2) + T(5)) \times T(7). \\
\\
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). \\
&:= (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)). \\
\\
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). \\
\\
1536 &:= F(4) + (F(3) \times F(9) + F(5)) \times F(8) = (T(4) + T(3)) \times (T(9) + T(5) + T(8)). \\
1540 &:= (F(1) + F(8)) \times F(5) \times (F(2) + F(7)) = (T(1) + T(8) + T(5) + T(2)) \times T(7). \\
1545 &:= F(5) \times (F(4) + (F(2) + F(6)) \times F(9)) = T(5) + (T(4) + T(2) + T(6)) \times T(9). \\
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)). \\
\\
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). \\
\\
1564 &:= (F(3) + F(8)) \times (F(5) \times F(7) + F(4)) = T(3) + T(8) \times (T(5) + T(7)) + T(4). \\
\\
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). \\
\\
1590 &:= (F(3) + F(7)) \times (F(1) + F(5) \times F(8)) = T(3) + (T(7) + T(1) + T(5)) \times T(8). \\
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)). \\
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)). \\
1625 &:= F(5) \times (F(4) + F(1) + F(8)) \times F(7) = (T(5) + T(4)) \times (T(1) + T(8) + T(7)). \\
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)). \\
\\
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}$$

$$1645 := (F(2) + F(9)) \times (F(4) \times F(7) + F(6)) = (T(2) + T(9) + T(4)) \times T(7) + T(6).$$

$$1650 := (F(1) + F(5)) \times (F(4) + F(6) \times F(9)) = (T(1) \times T(5) + T(4)) \times (T(6) + T(9)).$$

$$1651 := ((F(1) + F(5)) \times F(8) + F(2)) \times F(7) = (T(1) + T(5) \times T(8)) \times T(2) + T(7).$$

$$1656 := (F(3) \times F(9) + F(1)) \times F(4) \times F(6) = T(3) \times (T(9) + (T(1) + T(4)) \times T(6)).$$

$$1659 := ((F(2) + F(6)) \times F(5) + F(9)) \times F(8) = T(2) + T(6) + T(5) + T(9) \times T(8).$$

$$1665 := F(5) \times (F(6) + F(2)) \times (F(4) + F(9)) = T(5) \times T(6) + T(2) \times T(4) \times T(9).$$

$$1666 := (F(3) \times (F(2) + F(7)) + F(8)) \times F(9) = T(3) \times T(2) + T(7) + T(8) \times T(9).$$

$$:= (F(3) + F(6) + F(7) \times F(4)) \times F(9) = T(3) \times T(6) + T(7) \times (T(4) + T(9)).$$

$$:= (F(1) + F(3) \times F(4) \times F(6)) \times F(9) = T(1) + (T(3) + T(4) + T(6)) \times T(9).$$

$$1677 := (F(3) \times F(8) + F(1)) \times (F(9) + F(5)) = T(3) + T(8) \times (T(1) + T(9)) + T(5).$$

$$1680 := F(3) \times (F(4) + F(8)) \times (F(1) + F(9)) = T(3) \times T(4) + T(8) \times T(1) \times T(9).$$

$$:= F(5) \times F(8) \times (F(2) + F(3) + F(7)) = (T(5) + T(8) + T(2) + T(3)) \times T(7).$$

$$1690 := (F(4) \times F(6) + F(3)) \times F(5) \times F(7) = T(4) \times (T(6) \times T(3) + T(5) + T(7)).$$

$$1701 := (F(2) \times F(7) + F(3) \times F(9)) \times F(8) = (T(2) + T(7) + T(3)) \times T(9) + T(8).$$

$$:= (F(5) + F(3) \times F(9) + F(6)) \times F(8) = (T(5) + T(3)) \times T(9) + T(6) \times T(8).$$

$$:= F(9) \times (F(8) \times F(3) + F(6)) + F(2) = T(9) \times T(8) + (T(3) + T(6)) \times T(2).$$

$$:= F(2) + F(5) \times F(9) \times (F(3) + F(6)) = (T(2) + T(5) + T(9)) \times (T(3) + T(6)).$$

$$:= F(2) + ((F(6) + (F(3) \times F(8))) \times F(9)) = T(2) \times (T(6) + T(3)) + T(8) \times T(9).$$

$$1710 := (F(3) + F(6)) \times (F(2) + F(9) \times F(5)) = (T(3) + T(6) \times T(2) + T(9)) \times T(5).$$

$$1716 := (F(1) + F(5)) \times F(7) \times (F(2) + F(8)) = (T(1) + T(5) + T(7)) \times (T(2) + T(8)).$$

$$:= F(3) \times F(4) \times F(7) \times (F(1) + F(8)) = T(3) \times T(4) \times T(7) \times T(1) + T(8).$$

$$:= F(3) \times F(4) \times F(7) \times (F(2) + F(8)) = (T(3) + T(4) + T(7)) \times (T(2) + T(8)).$$

$$1719 := (F(2) + F(6)) \times (F(8) + F(9) \times F(5)) = T(2) + T(6) \times (T(8) + T(9)) + T(5).$$

$$1722 := (F(2) + F(7) + F(3) \times F(9)) \times F(8) = T(2) \times (T(7) + T(3)) + T(9) \times T(8).$$

$$1734 := ((F(3) + F(6)) \times F(5) + F(2)) \times F(9) = T(3) + (T(6) + T(5)) \times (T(2) + T(9)).$$

$$:= F(4) \times (F(2) + F(6) \times F(3)) \times F(9) = (T(4) + T(2) + T(6)) \times (T(3) + T(9)).$$

$$1764 := (F(1) + F(7)) \times F(4) \times (F(9) + F(6)) = (T(1) + T(7) + T(4) + T(9)) \times T(6).$$

$$:= F(3) \times F(2) \times (F(6) + F(9)) \times F(8) = T(3) \times (T(2) + T(6)) + T(9) \times T(8).$$

$$:= F(8) \times (F(1) + F(2)) \times (F(9) + F(6)) = (T(8) \times T(1) + T(2) + T(9)) \times T(6).$$

$$\begin{aligned}
1776 &:= (F(1) + F(4)) \times F(7) \times F(9) + F(6) = (T(1) + T(4) + T(7)) \times T(9) + T(6). \\
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). \\
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). \\
1809 &:= F(3) + F(7) \times (F(5) \times F(8) + F(9)) = (T(3) + T(7) + T(5)) \times T(8) + T(9). \\
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). \\
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). \\
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). \\
1848 &:= (F(1) + F(8)) \times F(3) \times (F(9) + F(6)) = (T(1) + T(8) + T(3) + T(9)) \times T(6). \\
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). \\
1881 &:= F(2) + (F(7) + F(9)) \times F(5) \times F(6) = (T(2) + T(7)) \times (T(9) + T(5)) + T(6). \\
\\
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). \\
\\
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)). \\
1932 &:= (F(2) + F(7) \times (F(5) + F(3))) \times F(8) = (T(2) + T(7) + T(5)) \times (T(3) + T(8)). \\
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). \\
\\
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)). \\
\\
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). \\
\\
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)). \\
\\
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). \\
2100 &:= (F(2) + F(9) + F(5) \times F(7)) \times F(8) = (T(2) + T(9)) \times (T(5) + T(7)) + T(8). \\
\\
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)). \\
\\
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)). \\
\\
2146 &:= F(1) + (F(8) \times F(9) + F(2)) \times F(4) = (T(1) + T(8)) \times (T(9) + T(2) + T(4)). \\
2151 &:= (F(3) + F(2) + F(8) \times F(9)) \times F(4) = T(3) + (T(2) + T(8)) \times (T(9) + T(4)). \\
\\
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).
\end{aligned}$$

$$\begin{aligned} 2163 &:= F(4) \times F(9) \times (F(6) + F(7)) + F(8) = (T(4) + T(9)) \times T(6) + T(7) \times T(8). \\ &:= (F(2) + F(4) \times F(9)) \times (F(7) + F(6)) = (T(2) \times T(4) + T(9) + T(7)) \times T(6). \end{aligned}$$

$$2166 := F(4) \times (F(9) \times F(2) \times F(8) + F(6)) = (T(4) + T(9)) \times (T(2) + T(8)) + T(6).$$

$$2169 := F(4) \times (F(6) + F(7) \times (F(8) + F(9))) = (T(4) + T(6) + T(7)) \times T(8) + T(9).$$

$$2184 := (F(1) + F(4) \times F(9) + F(2)) \times F(8) = (T(1) + T(4) + T(9)) \times (T(2) + T(8)).$$

$$:= F(6) + (F(2) + F(4) \times F(8)) \times F(9) = (T(6) + T(2)) \times (T(4) + T(8) + T(9)).$$

$$2196 := (F(3) + F(9)) \times (F(5) \times F(6) + F(8)) = T(3) \times (T(9) + T(5) \times T(6)) + T(8).$$

$$2202 := F(3) + F(6) \times (F(8) + F(9)) \times F(5) = (T(3) + T(6)) \times (T(8) + T(9)) + T(5).$$

$$2205 := F(1) \times F(4) \times F(8) \times (F(2) + F(9)) = (T(1) \times T(4) + T(8) + T(2)) \times T(9).$$

$$:= (F(1) + F(9) \times F(4) + F(3)) \times F(8) = T(1) \times T(9) + (T(4) \times T(3)) \times T(8).$$

$$2206 := F(1) + F(4) \times F(8) \times (F(2) + F(9)) = T(1) + (T(4) + T(8) + T(2)) \times T(9).$$

$$2208 := F(4) \times (F(1) + F(8) \times (F(2) + F(9))) = (T(4) \times T(1) + T(8)) \times (T(2) + T(9)).$$

$$2211 := (F(3) + (F(9) + F(2)) \times F(8)) \times F(4) = T(3) + T(9) \times (T(2) + T(8) + T(4)).$$

$$:= F(1) + (F(4) \times F(8) + F(3)) \times F(9) = (T(1) + T(4) \times T(8)) \times T(3) + T(9).$$

$$2215 := F(4) + F(3) + (F(5) \times F(7)) \times F(9) = T(4) + (T(3) + T(5) + T(7)) \times T(9).$$

$$2220 := (F(2) \times F(3) + F(7) \times F(9)) \times F(5) = (T(2) + T(3) + T(7)) \times (T(9) + T(5)).$$

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

$$2223 := F(1) \times F(7) \times (F(4) + F(6) \times F(8)) = (T(1) + T(7) + T(4)) \times (T(6) + T(8)).$$

$$:= F(5) \times (F(2) + F(9) \times F(7)) + F(6) = T(5) + T(2) + T(9) \times (T(7) + T(6)).$$

$$:= (F(5) + F(6) \times F(7)) \times F(8) + F(9) = T(5) + T(6) \times T(7) + T(8) \times T(9).$$

$$2226 := ((F(4) + F(5)) \times F(7) + F(3)) \times F(8) = (T(4) + T(5) + T(7)) \times (T(3) + T(8)).$$

$$:= F(6) \times F(3) + F(5) \times F(7) \times F(9) = T(6) + (T(3) + T(5) + T(7)) \times T(9).$$

$$2229 := F(4) \times (F(8) \times (F(2) + F(9)) + F(6)) = (T(4) + T(8)) \times (T(2) + T(9)) + T(6).$$

$$2232 := (F(2) + F(7) \times F(8) + F(5)) \times F(6) = (T(2) + T(7)) \times (T(8) + T(5) + T(6)).$$

$$2236 := (F(1) \times F(3) + F(9) \times F(5)) \times F(7) = (T(1) + T(3) + T(9)) \times (T(5) + T(7)).$$

$$2241 := F(5) \times (F(3) + F(7) \times F(9)) + F(8) = (T(5) + T(3) + T(7)) \times T(9) + T(8).$$

$$2244 := (F(2) \times F(7) \times F(5) + F(1)) \times F(9) = T(2) \times (T(7) + (T(5) + T(1)) \times T(9)).$$

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

$$:= F(8) + (F(9) \times F(5) + F(2)) \times F(7) = T(8) \times (T(9) + T(5)) + T(2) \times T(7).$$

$$2250 := F(2) \times F(5) \times (F(6) + F(7) \times F(9)) = T(2) \times T(5) \times (T(6) + T(7)) + T(9).$$

$$2268 := F(2) \times F(8) \times F(4) \times (F(3) + F(9)) = T(2) \times (T(8) + (T(4) + T(3)) \times T(9)).$$

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

$$2271 := F(5) \times (F(9) \times F(7) + F(6)) + F(8) = T(5) \times T(9) + T(7) \times (T(6) + T(8)).$$

$$2289 := (F(5) \times (F(3) + F(7)) + F(9)) \times F(8) = (T(5) + T(3)) \times (T(7) + T(9) + T(8)).$$

$$:= F(8) \times (F(5) \times F(2) + F(7) \times F(6)) = (T(8) + T(5) \times T(2) + T(7)) \times T(6).$$

$$2296 := (F(1) + F(7) \times (F(2) + F(8))) \times F(6) = T(1) \times T(7) + T(2) \times T(8) \times T(6).$$

$$:= F(8) + F(5) \times (F(9) + F(2)) \times F(7) = T(8) \times (T(5) + T(9) + T(2)) + T(7).$$

$$2304 := (F(5) \times (F(8) + F(9)) + F(7)) \times F(6) = T(5) + (T(8) + T(9) + T(7)) \times T(6).$$

$$:= (F(3) + F(9)) \times (F(2) + F(4) \times F(8)) = (T(3) + T(9) + T(2) + T(4)) \times T(8).$$

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

$$2314 := ((F(2) + F(8)) \times F(6) + F(3)) \times F(7) = T(2) \times (T(8) \times T(6) + T(3)) + T(7).$$

$$2331 := (F(6) + F(2) + F(4) \times F(9)) \times F(8) = (T(6) + T(2) \times T(4)) \times T(9) + T(8).$$

$$2340 := F(2) \times F(5) \times F(7) \times (F(3) + F(9)) = (T(2) + T(5) + T(7) + T(3)) \times T(9).$$

$$2346 := F(1) \times F(4) \times (F(8) + F(3)) \times F(9) = (T(1) \times T(4) + T(8)) \times (T(3) + T(9)).$$

$$2347 := F(1) + F(4) \times (F(8) + F(3)) \times F(9) = T(1) + (T(4) + T(8)) \times (T(3) + T(9)).$$

$$2349 := (F(2) + F(9) \times (F(3) + F(8))) \times F(4) = T(2) + (T(9) + T(3)) \times (T(8) + T(4)).$$

$$2352 := (F(1) \times F(2) + F(7)) \times F(6) \times F(8) = (T(1) \times T(2)) \times (T(7) + T(6) \times T(8)).$$

$$2353 := F(1) + (F(2) + F(7)) \times F(6) \times F(8) = T(1) + (T(2) \times (T(7) + T(6) \times T(8))).$$

$$2355 := (F(4) + F(7) \times (F(3) + F(9))) \times F(5) = T(4) \times T(7) \times T(3) + T(9) \times T(5).$$

$$2355 := F(5) \times (F(6) + F(7) \times F(9) + F(8)) = T(5) \times (T(6) + T(7)) + T(9) \times T(8).$$

$$2361 := F(4) \times ((F(8) + F(3)) \times F(9) + F(5)) = (T(4) + T(8)) \times (T(3) + T(9)) + T(5).$$

$$2380 := (F(3) + F(7) \times F(5) + F(4)) \times F(9) = (T(3) + T(7)) \times (T(5) + T(4) + T(9)).$$

$$2436 := F(3) \times (F(4) \times F(6) + F(9)) \times F(8) = T(3) \times T(4) + (T(6) + T(9)) \times T(8).$$

$$2448 := (F(2) + F(3)) \times (F(4) + F(8)) \times F(9) = T(2) \times (T(3) + T(4) \times (T(8) + T(9))).$$

$$2457 := ((F(3) + F(8)) \times F(6) + F(5)) \times F(7) = T(3) + (T(8) + T(6)) \times (T(5) + T(7)).$$

$$2458 := F(2) + (F(9) + F(5)) \times F(8) \times F(4) = (T(2) + T(9)) \times (T(5) + T(8)) + T(4).$$

$$2496 := F(6) \times (F(2) + F(3) + F(8)) \times F(7) = (T(6) + T(2) \times T(3)) \times (T(8) + T(7)).$$

$$2502 := (F(2) + F(6)) \times (F(7) \times F(8) + F(5)) = T(2) + (T(6) + T(7)) \times (T(8) + T(5)).$$

$$2520 := (F(1) + F(2) + F(7)) \times F(8) \times F(6) = ((T(1) \times T(2)) \times T(7) + T(8)) \times T(6).$$

$$:= (F(1) + F(5) + F(9)) \times F(4) \times F(8) = (T(1) \times T(5) + T(9) + T(4)) \times T(8).$$

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

$$\begin{aligned}
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)). \\
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). \\
2646 &:= (F(2) + F(5)) \times F(8) \times (F(6) + F(7)) = (T(2) + T(5) + T(8)) \times (T(6) + T(7)). \\
2652 &:= (F(5) + F(8)) \times (F(1) + F(3)) \times F(9) = (T(5) + T(8) + T(1)) \times (T(3) + T(9)). \\
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). \\
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)). \\
\\
2728 &:= F(9) \times F(5) \times (F(7) + F(4)) + F(6) = (T(9) + T(5) + T(7)) \times (T(4) + T(6)). \\
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))). \\
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)). \\
2751 &:= F(5) + F(4) \times (F(6) + F(9)) \times F(8) = T(5) + (T(4) + T(6) + T(9)) \times T(8). \\
2772 &:= F(4) \times (F(6) + F(9)) \times (F(1) + F(8)) = (T(4) + T(6) + T(9) + T(1)) \times T(8). \\
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). \\
\\
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)). \\
2848 &:= (F(4) + F(7)) \times (F(5) \times F(9) + F(6)) = T(4) + (T(7) + T(5)) \times (T(9) + T(6)). \\
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). \\
2871 &:= (F(5) \times F(7) + F(9)) \times (F(6) + F(8)) = T(5) + T(7) \times (T(9) + T(6) + T(8)). \\
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). \\
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). \\
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). \\
\\
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). \\
\\
2958 &:= F(9) \times (F(3) + F(1)) \times (F(8) + F(6)) = (T(9) + T(3)) \times (T(1) + T(8) + T(6)). \\
3024 &:= (F(1) + (F(7) + F(9)) \times F(4)) \times F(8) = (T(1) + T(7) + T(9) + T(4)) \times T(8). \\
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). \\
\\
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)). \\
\\
3150 &:= (F(3) + F(7)) \times F(5) \times (F(6) + F(9)) = (T(3) + T(7) + T(5) + T(6)) \times T(9). \\
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). \\
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). \\
3264 &:= ((F(3) + F(7)) \times F(5) + F(8)) \times F(9) = (T(3) + T(7)) \times (T(5) + T(8) + T(9)). \\
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). \\
3276 &:= F(4) \times (F(6) + F(9)) \times (F(5) + F(8)) = (T(4) + T(6) + T(9) + T(5)) \times T(8). \\
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). \\
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). \\
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). \\
3744 &:= (F(5) + F(8) + F(7) \times F(9)) \times F(6) = (T(5) + T(8)) \times (T(7) + T(9)) + T(6).
\end{aligned}$$

$$\begin{aligned}
3780 &:= (F(3) + F(9)) \times F(5) \times F(2) \times F(8) = T(3) \times (T(9) + T(5) \times (T(2) + T(8))). \\
&:= (F(5) \times F(9) + F(3) + F(6)) \times F(8) = (T(5) + T(9)) \times (T(3) + T(6) + T(8)). \\
&:= F(8) \times (F(9) + F(1) + F(2)) \times F(5) = T(8) \times (T(9) + (T(1) + T(2)) \times T(5)).
\end{aligned}$$

$$\begin{aligned}
3795 &:= F(5) \times (F(4) + F(3) + F(9)) \times F(8) = T(5) + (T(4) \times T(3) + T(9)) \times T(8). \\
3808 &:= F(9) \times F(6) \times F(2) \times (F(1) + F(7)) = T(9) \times T(6) \times (T(2) + T(1)) + T(7). \\
3811 &:= F(4) + F(6) \times (F(2) + F(7)) \times F(9) = T(4) + T(6) + (T(2) \times T(7)) \times T(9). \\
3843 &:= F(2) \times F(8) \times (F(7) + F(5) \times F(9)) = T(2) + (T(8) + T(7)) \times (T(5) + T(9)). \\
3853 &:= F(5) + (F(9) + F(4)) \times F(6) \times F(7) = T(5) \times (T(9) + T(4) \times T(6)) + T(7).
\end{aligned}$$

$$\begin{aligned}
3915 &:= F(5) \times (F(1) + (F(3) + F(8)) \times F(9)) = (T(5) \times T(1)) \times (T(3) \times T(8) + T(9)). \\
3915 &:= F(5) \times (F(2) + (F(3) + F(8)) \times F(9)) = (T(5) \times T(2) + T(3) + T(8)) \times T(9).
\end{aligned}$$

$$\begin{aligned}
3925 &:= (F(4) + (F(3) + F(8)) \times F(9)) \times F(5) = T(4) + (T(3) \times T(8) + T(9)) \times T(5). \\
3933 &:= (F(3) + F(8)) \times (F(2) + F(5) \times F(9)) = T(3) \times T(8) \times (T(2) + T(5)) + T(9). \\
3960 &:= F(5) \times (F(2) + F(8)) \times (F(3) + F(9)) = T(5) \times (T(2) + T(8) \times T(3) + T(9)). \\
3978 &:= (F(2) + F(6)) \times F(1) \times F(7) \times F(9) = T(2) \times (T(6) + (T(1) + T(7)) \times T(9)). \\
4080 &:= F(1) \times F(5) \times F(4) \times F(6) \times F(9) = (T(1) + T(5)) \times (T(4) \times T(6) + T(9)).
\end{aligned}$$

$$\begin{aligned}
4095 &:= (F(1) + F(6) \times F(9)) \times F(4) \times F(5) = T(1) \times T(6) \times (T(9) + T(4) \times T(5)). \\
&:= (F(2) + F(6)) \times F(7) \times (F(1) + F(9)) = (T(2) \times T(6) + T(7)) \times T(1) \times T(9).
\end{aligned}$$

$$\begin{aligned}
4110 &:= F(4) \times F(5) \times (F(3) + F(6) \times F(9)) = T(4) \times (T(5) + T(3) \times (T(6) + T(9))). \\
4158 &:= (F(4) + F(6)) \times (F(5) + F(7)) \times F(8) = T(4) \times T(6) \times T(5) + T(7) \times T(8). \\
4167 &:= (F(2) + F(6)) \times (F(8) + F(7) \times F(9)) = T(2) \times (T(6) \times (T(8) + T(7)) + T(9)). \\
4200 &:= F(5) \times F(4) \times F(6) \times (F(2) + F(9)) = T(5) + (T(4) + T(6)) \times T(2) \times T(9). \\
4284 &:= F(9) \times (F(2) + F(5)) \times (F(6) + F(7)) = (T(9) + T(2) \times (T(5) + T(6))) \times T(7). \\
4290 &:= F(4) \times F(3) \times F(7) \times (F(8) + F(9)) = T(4) \times (T(3) \times (T(7) + T(8)) + T(9)).
\end{aligned}$$

$$\begin{aligned}
4320 &:= F(5) \times F(6) \times F(4) \times (F(3) + F(9)) = (T(5) + T(6) + T(4) \times T(3)) \times T(9). \\
&:= F(5) \times (F(9) + F(3)) \times (F(4) + F(8)) = (T(5) + T(9) + T(3) \times T(4)) \times T(8).
\end{aligned}$$

$$\begin{aligned}
4368 &:= F(1) \times F(3) \times F(6) \times F(7) \times F(8) = (T(1) + T(3)) \times (T(6) \times T(7) + T(8)). \\
&:= (F(5) + F(9)) \times (F(2) + F(7)) \times F(6) = ((T(5) + T(9)) \times T(2) + T(7)) \times T(6).
\end{aligned}$$

$$\begin{aligned}
4410 &:= (F(2) + F(6) \times F(7)) \times F(3) \times F(8) = T(2) \times T(6) \times (T(7) + T(3) + T(8)). \\
&:= F(4) \times F(3) \times (F(2) + F(9)) \times F(8) = T(4) \times ((T(3) + T(2)) \times T(9) + T(8)).
\end{aligned}$$

$$4485 := F(5) \times F(7) \times (F(1) + F(3) \times F(9)) = T(5) \times (T(7) + T(1) + T(3) \times T(9)).$$

$$4488 := F(3) \times (F(7) \times F(5) + F(1)) \times F(9) = T(3) \times (T(7) + (T(5) + T(1)) \times T(9)).$$

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

$$4536 := (F(1) + F(7) \times F(3)) \times F(6) \times F(8) = (T(1) \times T(7)) \times (T(3) \times T(6) + T(8)).$$

$$:= (F(3) + F(9)) \times (F(1) + F(5)) \times F(8) = T(3) \times (T(9) \times (T(1) + T(5)) + T(8)).$$

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

$$4590 := F(5) \times (F(2) + F(6)) \times F(4) \times F(9) = (T(5) + T(2)) \times (T(6) \times T(4) + T(9)).$$

$$4605 := F(4) \times F(5) \times (F(7) \times F(8) + F(9)) = T(4) \times (T(5) \times T(7) + T(8)) + T(9).$$

$$4680 := (F(3) + F(7)) \times F(6) \times (F(5) + F(9)) = T(3) \times ((T(7) + T(6)) \times T(5) + T(9)).$$

$$4704 := F(3) \times (F(7) + F(1)) \times F(6) \times F(8) = T(3) \times (T(7) \times T(1) + T(6) \times T(8)).$$

$$5145 := (F(5) + F(3)) \times F(8) \times (F(2) + F(9)) = T(5) + (T(3) + T(8) \times T(2)) \times T(9).$$

$$5725 := F(9) \times (F(4) + F(5)) \times F(8) + F(7) = T(9) + T(4) \times (T(5) \times T(8) + T(7)).$$

$$5796 := F(3) \times F(8) \times (F(6) \times F(7) + F(9)) = T(3) \times T(8) \times T(6) + T(7) \times T(9).$$

$$5880 := (F(4) + F(5)) \times F(8) \times (F(2) + F(9)) = T(4) \times (T(5) \times T(8) + T(2) + T(9)).$$

$$5916 := F(3) \times F(9) \times F(4) \times (F(6) + F(8)) = (T(3) \times T(9) + T(4)) \times T(6) + T(8).$$

$$6084 := (F(3) + F(9)) \times (F(2) + F(6) \times F(8)) = T(3) \times (T(9) + T(2)) \times T(6) + T(8).$$

$$6264 := ((F(3) + F(8)) \times F(9) + F(2)) \times F(6) = (T(3) \times T(8) + T(9)) \times (T(2) + T(6)).$$

$$6552 := F(6) \times (F(3) + F(2)) \times F(8) \times F(7) = (T(6) \times T(3) + T(2) \times T(8)) \times T(7).$$

$$6804 := (F(2) + F(6)) \times (F(3) + F(9)) \times F(8) = ((T(2) + T(6)) \times T(3) + T(9)) \times T(8).$$

$$6864 := F(4) \times (F(1) + F(8)) \times F(6) \times F(7) = (T(4) + T(1)) \times (T(8) + T(6) \times T(7)).$$

$$7170 := F(3) \times F(5) \times (F(9) \times F(8) + F(4)) = (T(3) + T(5) \times T(9) + T(8)) \times T(4).$$

$$7176 := F(4) \times F(6) \times F(7) \times (F(3) + F(8)) = T(4) \times T(6) \times (T(7) + T(3)) + T(8).$$

$$7650 := F(5) \times (F(4) + F(8) \times F(3)) \times F(9) = (T(5) + T(4)) \times (T(8) + T(3) \times T(9)).$$

$$7686 := F(3) \times (F(5) \times F(9) + F(7)) \times F(8) = T(3) \times (T(5) + T(9) \times T(7)) + T(8).$$

$$7696 := F(3) \times F(6) \times F(7) \times (F(9) + F(4)) = T(3) \times (T(6) + T(7) \times T(9)) + T(4).$$

$$7956 := F(3) \times (F(6) + F(1)) \times F(7) \times F(9) = T(3) \times (T(6) + (T(1) + T(7)) \times T(9)).$$

$$:= (F(5) + F(8)) \times (F(6) + F(2)) \times F(9) = (T(5) + T(8)) \times (T(6) + T(2) \times T(9)).$$

$$8160 := F(3) \times F(6) \times F(4) \times F(5) \times F(9) = (T(3) \times T(6) + T(4)) \times (T(5) + T(9)).$$

$$8316 := (F(4) + F(6)) \times (F(3) + F(9)) \times F(8) = ((T(4) + T(6)) \times T(3) + T(9)) \times T(8).$$

$$8398 := (F(3) \times F(6) + F(4)) \times F(9) \times F(7) = T(3) \times (T(6) + T(4)) \times T(9) + T(7).$$

$$8568 := (F(6) + F(2) + F(4)) \times F(8) \times F(9) = T(6) \times (T(2) + T(4) \times T(8) + T(9)).$$

$$9291 := F(2) + F(9) \times F(7) \times F(8) + F(6) = (T(2) \times T(9) + T(7)) \times (T(8) + T(6)).$$

$$9384 := (F(3) + F(7) \times F(8) + F(1)) \times F(9) = (T(3) \times T(7) + T(8)) \times (T(1) + T(9)).$$

$$9792 := ((F(2) + F(8)) \times F(7) + F(3)) \times F(9) = T(2) \times (T(8) + T(7)) \times (T(3) + T(9)).$$

$$9828 := (F(1) \times F(3) + F(9)) \times F(8) \times F(7) = ((T(1) + T(3)) \times T(9) + T(8)) \times T(7). \\ := (F(2) \times F(9) + F(3)) \times F(8) \times F(7) = (T(2) \times T(9) + T(3) \times T(8)) \times T(7).$$

$$10584 := (F(3) + F(9)) \times F(8) \times (F(2) + F(7)) = (T(3) \times T(9) + T(8) \times T(2)) \times T(7).$$

$$10710 := (F(1) + F(7) \times F(6)) \times F(4) \times F(9) = (T(1) \times T(7) + T(6) \times T(4)) \times T(9).$$

$$10731 := (F(2) + (F(7) + F(3)) \times F(9)) \times F(8) = T(2) + (T(7) + T(3) \times T(9)) \times T(8).$$

$$10836 := (F(5) \times F(9) + F(3)) \times F(4) \times F(8) = T(5) \times T(9) \times (T(3) + T(4)) + T(8).$$

$$10944 := (F(8) \times F(7) \times F(5) + F(4)) \times F(6) = (T(8) + T(7)) \times (T(5) \times T(4) + T(6)).$$

$$11025 := (F(9) + F(1)) \times F(8) \times (F(3) + F(7)) = T(9) \times (T(1) + T(8) \times T(3) + T(7)).$$

$$11088 := (F(5) \times F(7) + F(2)) \times F(8) \times F(6) = (T(5) \times T(7) + T(2) \times T(8)) \times T(6).$$

$$11340 := F(5) \times F(8) \times F(4) \times (F(3) + F(9)) = T(5) \times (T(8) + T(4) + T(3)) \times T(9).$$

$$11424 := F(2) \times F(9) \times F(8) \times (F(4) + F(7)) = (T(2) + T(9) + T(8) \times T(4)) \times T(7).$$

$$:= F(4) \times F(6) \times (F(7) + F(2)) \times F(9) = (T(4) \times T(6) + T(7)) \times (T(2) + T(9)).$$

$$11466 := F(8) \times F(7) \times (F(3) + F(5) \times F(6)) = (T(8) + (T(7) + T(3)) \times T(5)) \times T(6).$$

$$11760 := F(5) \times (F(1) + F(7)) \times F(6) \times F(8) = T(5) \times T(1) \times (T(7) + T(6) \times T(8)).$$

$$12988 := F(9) \times (F(5) + (F(6) + F(8)) \times F(7)) = (T(9) + T(5) \times T(6)) \times T(8) + T(7).$$

$$13104 := (F(1) + F(5)) \times F(6) \times F(7) \times F(8) = ((T(1) + T(5)) \times T(6) + T(7)) \times T(8).$$

$$:= F(3) \times F(4) \times F(6) \times F(7) \times F(8) = ((T(3) + T(4)) \times T(6) + T(7)) \times T(8).$$

$$:= F(8) \times (F(5) + F(2)) \times F(7) \times F(6) = (T(8) \times T(5) + T(2) \times T(7)) \times T(6).$$

$$13650 := F(5) \times F(7) \times (F(6) + F(3)) \times F(8) = T(5) \times (T(7) + T(6) \times (T(3) + T(8))).$$

$$16320 := F(9) \times F(6) \times (F(4) \times F(7) + F(8)) = (T(9) + T(6) \times T(4)) \times (T(7) + T(8)).$$

$$17640 := F(4) \times F(6) \times F(8) \times (F(2) + F(9)) = T(4) \times T(6) \times (T(8) + T(2) + T(9)).$$

$$19890 := (F(1) + F(6)) \times F(5) \times F(7) \times F(9) = (T(1) + T(6) + T(5) \times T(7)) \times T(9).$$

$$22848 := F(3) \times F(8) \times F(9) \times (F(4) + F(7)) = (T(3) + (T(8) + T(9)) \times T(4)) \times T(7).$$

$$53550 := F(5) \times F(9) \times (F(7) + F(3)) \times F(8) = (T(5) + T(9) \times T(7)) \times (T(3) + T(8)).$$

Acknowledgement

The author is thankful to T.J. Eckman, Georgia, USA (email: jeek@jeek.net) in programming the script to develop these representations.

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