

# Palindromic-Type Numbers and Patterns - I

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## Abstract

*In this paper, we shall work with palindromic-type numbers. Palindromic-type numbers are not palindromes but by use of addition and multiplication they seem like palindromes. These operations are applied in such a way that, when we remove, they become palindromes*

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

- 1 Introduction;
- 1.1 Non Repeated and Same Width Numbers;
- 1.2 Equalities in Palindromic-Type Numbers;
- 2 Patterns in Palindromic-Type Numbers;
- 3 Specific Digits Palindromic-Type Numbers without Zero;
  - 3.1 Digits 1 and 2;
  - 3.2 Digits 1, 2 and 3;
  - 3.3 Digits 1, 2, 3 and 4;
  - 3.4 Digits 1, 2, 3, 4 and 5;
- 4 Specific Digits Palindromic-Type Numbers with Zero;
  - 4.1 Digits 0 and 1;
  - 4.2 Digits 0, 1 and 2;
  - 4.3 Digits 0, 1, 2 and 3;
  - 4.4 Digits 0, 1, 2, 3 and 4;
  - 4.5 Digits 0, 1, 2, 3, 4 and 5;
- 5 Palindromic-Type Numbers with Square;
  - 5.1 Palindromic Sum;
  - 5.2 Non Palindromic Sum;
- 6 Same Digits Multiplicative Factors;
  - 6.1 Palindromic Sum;
  - 6.2 Non Palindromic Sum;

## 1. INTRODUCTION

A palindromic number is the number that remains the same when its digits are reversed, for example, 121, 3333, 161161, etc. In [14, 15], author worked on palindromic patterns and wrote them in terms of single digit "a". Author [47, 48, 49, 50] also studied extensively, magic squares with palindromic numbers. In this paper, the idea is little different. We shall define *palindromic-type* numbers. These numbers are not palindromes but appears like palindromes. They are separated by operations of additions and/or multiplications, for example,  $1343 \times 3421$ ,  $1225 \times 5221$ ,  $16 + 61$ ,  $1825 + 5281$ , etc. When we remove the operation sign, they becomes palindromes. These types of numbers we call as *palindromic-type* numbers. Some studies in this direction can be seen in [4]. Let us separate these numbers in two categories:

- Type 1:

$$234 \times 111 + 111 \times 432 = 25974 + 47952 := 73926.$$
$$10011 \times 11 + 11 \times 11001 = 110121 + 121011 := 231132.$$

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- **Type 2:**

$$1596 \times 6951 = 2793 \times 3972 := 11093796.$$

$$616248 \times 842616 = 645408 \times 804546 := 519260424768.$$

The difference is that the first type is with *addition* and *multiplication*, while second type is just with *multiplication*. This work is concentrated only on **Type 1** kind of numbers, i.e., *palindromic-type* numbers with *addition* and *multiplication*.

For study on numbers in different situations refer to author's work [6]-[46]. From historical point of view refer [1, 2, 3, 5].

### 1.1. Non Repeated Same Width Palindromic-Type Numbers.

Below are examples of *palindromic-type* numbers, where each digit appears once and multiplicative factors are of same width.

$$12 \times 21 + 21 \times 12 = 252 + 252 := 504.$$

$$12 \times 12 + 21 \times 21 = 144 + 441 := 585.$$

$$102 \times 210 + 201 \times 012 = 21420 + 02412 := 23832.$$

$$201 \times 102 + 201 \times 102 = 20502 + 20502 := 41004.$$

$$102 \times 012 + 210 \times 201 = 01224 + 42210 := 43434.$$

$$102 \times 102 + 201 \times 201 = 10404 + 40401 := 50805 :$$

$$2031 \times 1032 + 2301 \times 1302 = 2095992 + 2995902 := 5091894.$$

$$2103 \times 1203 + 3021 \times 3012 = 2529909 + 9099252 := 11629161.$$

$$2013 \times 1023 + 3201 \times 3102 = 2059299 + 9929502 := 11988801.$$

We observe that each multiplicative factor uses the same digits with same width without repetitions. This kind of numbers can be seen in section 6 .

### 1.2. Equalities in Palindromic-Type Numbers.

Below are two examples *palindromic-type* numbers, where final sum in each case is same.

$$4448444 := 1043 \times 1001 + 1001 \times 3401 = 1044043 + 3404401$$

$$:= 1111 \times 1003 + 3001 \times 1111 = 1114333 + 3334111$$

$$:= 1133 \times 1001 + 1001 \times 3311 = 1134133 + 3314311$$

$$:= 1223 \times 1001 + 1001 \times 3221 = 1224223 + 3224221$$

$$:= 1313 \times 1001 + 1001 \times 3131 = 1314313 + 3134131$$

$$:= 1403 \times 1001 + 1001 \times 3041 = 1404403 + 3044041$$

$$:= 2002 \times 1021 + 1201 \times 2002 = 2044042 + 2404402$$

$$:= 2002 \times 1111 + 1111 \times 2002 = 2224222 + 2224222$$

$$:= 2042 \times 1001 + 1001 \times 2402 = 2044042 + 2404402$$

$$:= 2132 \times 1001 + 1001 \times 2312 = 2134132 + 2314312$$

$$:= 2222 \times 1001 + 1001 \times 2222 = 2224222 + 2224222.$$

$$\begin{aligned}
440484044 &:= 10043 \times 10001 + 10001 \times 34001 = 100440043 + 340044001 \\
&:= 11011 \times 10003 + 30001 \times 11011 = 110143033 + 330341011 \\
&:= 11033 \times 10001 + 10001 \times 33011 = 110341033 + 330143011 \\
&:= 12023 \times 10001 + 10001 \times 32021 = 120242023 + 320242021 \\
&:= 13013 \times 10001 + 10001 \times 31031 = 130143013 + 310341031 \\
&:= 14003 \times 10001 + 10001 \times 30041 = 140044003 + 300440041 \\
&:= 20002 \times 10021 + 12001 \times 20002 = 200440042 + 240044002 \\
&:= 20002 \times 11011 + 11011 \times 20002 = 220242022 + 220242022 \\
&:= 20042 \times 10001 + 10001 \times 24002 = 200440042 + 240044002 \\
&:= 21032 \times 10001 + 10001 \times 23012 = 210341032 + 230143012 \\
&:= 22022 \times 10001 + 10001 \times 22022 = 220242022 + 220242022.
\end{aligned}$$

We observe from the above two examples that there are 11 *palindromic-type* numbers giving same final sum, and is palindrome. These two examples are with digits 0, 1, 2 and 4. Still, we are not sure whether there exists bigger chains of this kind. This kind of study shall be dealt elsewhere.

## 2. PATTERNS IN PALINDROMIC-TYPE NUMBERS

Below are some examples of patterns in *palindromic-type* numbers. Initial examples are with square of expression:

(1)	$ \begin{aligned} 12^2 + 21^2 &:= 144 + 441 \\ 102^2 + 201^2 &:= 10404 + 40401 \\ 1002^2 + 2001^2 &:= 1004004 + 4004001. \end{aligned} $	(6)	$ \begin{aligned} 102 \times 11 + 11 \times 201 &:= 1122 + 2211 \\ 1002 \times 111 + 111 \times 2001 &:= 111222 + 222111 \\ 10002 \times 1111 + 1111 \times 20001 &:= 11112222 + 22221111. \end{aligned} $
(2)	$ \begin{aligned} 13^2 + 31^2 &:= 169 + 961 \\ 103^2 + 301^2 &:= 10609 + 90601 \\ 1003^2 + 3001^2 &:= 1006009 + 9006001. \end{aligned} $	(7)	$ \begin{aligned} 102 \times 11 + 11 \times 201 &:= 1122 + 2211 \\ 1102 \times 11 + 11 \times 2011 &:= 12122 + 22121 \\ 11002 \times 111 + 111 \times 20011 &:= 1221222 + 2221221. \end{aligned} $
(3)	$ \begin{aligned} 11^2 + 11^2 &:= 121 + 121 \\ 110^2 + 011^2 &:= 12100 + 00121 \\ 1100^2 + 0011^2 &:= 1210000 + 0000121. \end{aligned} $	(8)	$ \begin{aligned} 12 \times 12 + 21 \times 21 &:= 144 + 441. \\ 122 \times 12 + 21 \times 221 &:= 1464 + 4641. \\ 1222 \times 12 + 21 \times 2221 &:= 14664 + 46641. \end{aligned} $
(4)	$ \begin{aligned} 101^2 + 101^2 &:= 10201 + 10201 \\ 1011^2 + 1101^2 &:= 1022121 + 1212201 \\ 10011^2 + 11001^2 &:= 100220121 + 121022001. \end{aligned} $	(9)	$ \begin{aligned} 12 \times 21 + 12 \times 21 &:= 252 + 252. \\ 122 \times 21 + 12 \times 221 &:= 2562 + 2652. \\ 1222 \times 21 + 12 \times 2221 &:= 25662 + 26652. \end{aligned} $
(5)	$ \begin{aligned} 11 \times 11 + 11 \times 11 &:= 121 + 121 \\ 111 \times 11 + 11 \times 111 &:= 1221 + 1221 \\ 1111 \times 11 + 11 \times 1111 &:= 12221 + 12221. \end{aligned} $	(10)	$ \begin{aligned} 10011 \times 101 + 101 \times 11001 &:= 1011111 + 1111101 \\ 100011 \times 101 + 101 \times 110001 &:= 10101111 + 11110101 \\ 1000011 \times 101 + 101 \times 1100001 &:= 101001111 + 111100101. \end{aligned} $

● **Patterns with Number 1089**

(1)	$11 \times 18 + 81 \times 11 = 198 + 891 := 1089$ $111 \times 18 + 81 \times 111 = 1998 + 8991 := 10989$ $1111 \times 18 + 81 \times 1111 = 19998 + 89991 := 109989.$	(4)	$33 \times 12 + 21 \times 33 = 396 + 693 := 1089$ $333 \times 12 + 21 \times 333 = 3996 + 6993 := 10989$ $3333 \times 12 + 21 \times 3333 = 39996 + 69993 := 109989.$
(2)	$11 \times 27 + 72 \times 11 = 297 + 792 := 1089$ $111 \times 27 + 72 \times 111 = 2997 + 7992 := 10989$ $1111 \times 27 + 72 \times 1111 = 29997 + 79992 := 109989.$	(5)	$11 \times 45 + 54 \times 11 = 495 + 594 := 1089$ $111 \times 45 + 54 \times 111 = 4995 + 5994 := 10989$ $1111 \times 45 + 54 \times 1111 = 49995 + 59994 := 109989.$
(3)	$11 \times 36 + 63 \times 11 = 396 + 693 := 1089$ $111 \times 36 + 63 \times 111 = 3996 + 6993 := 10989$ $1111 \times 36 + 63 \times 1111 = 39996 + 69993 := 109989.$	(6)	$99 \times 55 + 55 \times 99 = 5445 + 5445 := 10890$ $99 \times 555 + 555 \times 99 = 54945 + 54945 := 109890$ $99 \times 5555 + 5555 \times 99 = 549945 + 549945 := 1099890.$
		(7)	$99 \times 55 + 55 \times 99 = 5445 + 5445 := 10890$ $999 \times 55 + 55 \times 999 = 54945 + 54945 := 109890$ $9999 \times 55 + 55 \times 9999 = 549945 + 549945 := 1099890.$

● **Patterns with Numbers 0, 1, 2 and 4**

(1)	$101 \times 22 + 22 \times 101 = 2222 + 2222 := 4444$ $202 \times 11 + 11 \times 202 = 2222 + 2222 := 4444.$ $1001 \times 222 + 222 \times 1001 = 222222 + 222222 := 444444$ $2002 \times 111 + 111 \times 2002 = 222222 + 222222 := 444444.$ $10001 \times 2222 + 2222 \times 10001 = 22222222 + 22222222 := 44444444$ $20002 \times 1111 + 1111 \times 20002 = 22222222 + 22222222 := 44444444.$
(2)	$101 \times 22 + 22 \times 101 = 2222 + 2222 := 4444$ $202 \times 11 + 11 \times 202 = 2222 + 2222 := 4444.$ $10101 \times 22 + 22 \times 10101 = 222222 + 222222 := 444444$ $20202 \times 11 + 11 \times 20202 = 222222 + 222222 := 444444.$ $1010101 \times 22 + 22 \times 1010101 = 22222222 + 22222222 := 44444444$ $2020202 \times 11 + 11 \times 2020202 = 22222222 + 22222222 := 44444444.$
(3)	$101 \times 22 + 22 \times 101 = 2222 + 2222 := 4444$ $202 \times 11 + 11 \times 202 = 2222 + 2222 := 4444.$ $1001 \times 22 + 22 \times 1001 = 22022 + 22022 := 44044$ $2002 \times 11 + 11 \times 2002 = 22022 + 22022 := 44044.$ $10001 \times 22 + 22 \times 10001 = 220022 + 220022 := 440044$ $20002 \times 11 + 11 \times 20002 = 220022 + 220022 := 440044.$

(4)

$$101 \times 22 + 22 \times 101 = 2222 + 2222 := 4444$$

$$202 \times 11 + 11 \times 202 = 2222 + 2222 := 4444.$$

$$10001 \times 222 + 222 \times 10001 = 2220222 + 2220222 := 4440444$$

$$20002 \times 111 + 111 \times 20002 = 2220222 + 2220222 := 4440444.$$

$$10001 \times 202 + 202 \times 10001 = 2020202 + 2020202 := 4040404$$

$$20002 \times 101 + 101 \times 20002 = 2020202 + 2020202 := 4040404.$$

(5)

$$1001 \times 202 + 202 \times 1001 = 202202 + 202202 := 404404$$

$$2002 \times 101 + 101 \times 2002 = 202202 + 202202 := 404404.$$

$$10101 \times 2002 + 2002 \times 10101 = 20222202 + 20222202 := 40444404$$

$$20202 \times 1001 + 1001 \times 20202 = 20222202 + 20222202 := 40444404.$$

- **Patterns with Numbers 0, 1, 3 and 4**

$$101 \times 13 + 31 \times 101 = 1313 + 3131 := 4444$$

$$103 \times 11 + 11 \times 301 = 1133 + 3311 := 4444.$$

$$1001 \times 103 + 301 \times 1001 = 103103 + 301301 := 404404$$

$$1003 \times 101 + 101 \times 3001 = 101303 + 303101 := 404404.$$

$$10001 \times 103 + 301 \times 10001 = 1030103 + 3010301 := 4040404$$

$$10003 \times 101 + 101 \times 30001 = 1010303 + 3030101 := 4040404.$$

$$10001 \times 1003 + 3001 \times 10001 = 10031003 + 30013001 := 40044004$$

$$10003 \times 1001 + 1001 \times 30001 = 10013003 + 30031001 := 40044004.$$

- **Patterns with Numbers 0, 1, 2, 3 and 4**

$$101 \times 13 + 31 \times 101 = 1313 + 3131 := 4444$$

$$103 \times 11 + 11 \times 301 = 1133 + 3311 := 4444.$$

$$1001 \times 123 + 321 \times 1001 = 123123 + 321321 := 444444$$

$$1003 \times 111 + 111 \times 3001 = 111333 + 333111 := 444444.$$

$$10001 \times 1223 + 3221 \times 10001 = 12231223 + 32213221 := 44444444$$

$$10003 \times 1111 + 1111 \times 30001 = 11113333 + 33331111 := 44444444.$$

- **Patterns with Numbers 0, 1, 2, 4 and 8**

(1)

$$101 \times 44 + 44 \times 101 = 4444 + 4444 := 8888$$

$$202 \times 22 + 22 \times 202 = 4444 + 4444 := 8888$$

$$404 \times 11 + 11 \times 404 = 4444 + 4444 := 8888.$$

$$\begin{aligned}1001 \times 444 + 444 \times 1001 &= 444444 + 444444 := 888888 \\2002 \times 222 + 222 \times 2002 &= 444444 + 444444 := 888888 \\4004 \times 111 + 111 \times 4004 &= 444444 + 444444 := 888888.\end{aligned}$$

$$\begin{aligned}10001 \times 4444 + 4444 \times 10001 &= 44444444 + 44444444 := 88888888 \\20002 \times 2222 + 2222 \times 20002 &= 44444444 + 44444444 := 88888888 \\40004 \times 1111 + 1111 \times 40004 &= 44444444 + 44444444 := 88888888.\end{aligned}$$

(2)

$$\begin{aligned}1001 \times 44 + 44 \times 1001 &= 44044 + 44044 := 88088 \\2002 \times 22 + 22 \times 2002 &= 44044 + 44044 := 88088 \\4004 \times 11 + 11 \times 4004 &= 44044 + 44044 := 88088.\end{aligned}$$

$$\begin{aligned}10001 \times 404 + 404 \times 10001 &= 4040404 + 4040404 := 8080808 \\20002 \times 202 + 202 \times 20002 &= 4040404 + 4040404 := 8080808 \\40004 \times 101 + 101 \times 40004 &= 4040404 + 4040404 := 8080808.\end{aligned}$$

$$\begin{aligned}10001 \times 4004 + 4004 \times 10001 &= 40044004 + 40044004 := 80088008 \\20002 \times 2002 + 2002 \times 20002 &= 40044004 + 40044004 := 80088008 \\40004 \times 1001 + 1001 \times 40004 &= 40044004 + 40044004 := 80088008.\end{aligned}$$

(3)

$$\begin{aligned}101 \times 44 + 44 \times 101 &= 4444 + 4444 := 8888 \\202 \times 22 + 22 \times 202 &= 4444 + 4444 := 8888 \\404 \times 11 + 11 \times 404 &= 4444 + 4444 := 8888.\end{aligned}$$

$$\begin{aligned}10101 \times 44 + 44 \times 10101 &= 444444 + 444444 := 888888 \\20202 \times 22 + 22 \times 20202 &= 444444 + 444444 := 888888 \\40404 \times 11 + 11 \times 40404 &= 444444 + 444444 := 888888.\end{aligned}$$

(4)

$$\begin{aligned}1001 \times 44 + 44 \times 1001 &= 44044 + 44044 := 88088 \\2002 \times 22 + 22 \times 2002 &= 44044 + 44044 := 88088 \\4004 \times 11 + 11 \times 4004 &= 44044 + 44044 := 88088.\end{aligned}$$

$$\begin{aligned}10001 \times 444 + 444 \times 10001 &= 4440444 + 4440444 := 8880888 \\20002 \times 222 + 222 \times 20002 &= 4440444 + 4440444 := 8880888 \\40004 \times 111 + 111 \times 40004 &= 4440444 + 4440444 := 8880888.\end{aligned}$$

From the examples given in sections below, we can construct much more patterns for *palindromic-type* numbers. These sections are written with particular categories. In some cases, numbers appearing in one section also appears in another.

### 3. SPECIFIC DIGITS PALINDROMIC-TYPE NUMBERS WITHOUT ZERO

In this section we shall work with *palindromic-type* numbers with with specific digits. For example, with numbers  $\{1,2\}$ ,  $\{1,2,3\}$ ,  $\{1,2,3,4\}$ , etc. Interestingly, up to digits  $\{1,2,3,4\}$  the final sum is always palindrome. When we work with 5 digits  $\{1,2,3,4,5\}$ , the final sum is not necessarily palindrome. Examples in each case are given separately in the following subsections:

### 3.1. Digits 1 and 2.

In this case there are very few examples forming a good pattern:

$$\begin{aligned}11 \times 11 + 11 \times 11 &= 121 + 121 := 242. \\111 \times 11 + 11 \times 111 &= 1221 + 1221 := 2442. \\1111 \times 11 + 11 \times 1111 &= 12221 + 12221 := 24442. \\11111 \times 11 + 11 \times 11111 &= 122221 + 122221 := 244442.\end{aligned}$$

### 3.2. Digits 1, 2 and 3.

Examples below are *palindromic-type* numbers with two digits 1, 2 and 3 on both sides of the expressions, except the sum. In this case we have very few numbers.

$$\begin{aligned}12 \times 11 + 11 \times 21 &= 132 + 231 := 363. \\21 \times 11 + 11 \times 12 &= 231 + 132 := 363. \\121 \times 11 + 11 \times 121 &= 1331 + 1331 := 2662. \\112 \times 11 + 11 \times 211 &= 1232 + 2321 := 3553. \\111 \times 12 + 21 \times 111 &= 1332 + 2331 := 3663. \\212 \times 11 + 11 \times 212 &= 2332 + 2332 := 4664. \\1121 \times 11 + 11 \times 1211 &= 12331 + 13321 := 25652. \\1112 \times 11 + 11 \times 2111 &= 12232 + 23221 := 35453. \\1111 \times 12 + 21 \times 1111 &= 13332 + 23331 := 36663. \\1212 \times 11 + 11 \times 2121 &= 13332 + 23331 := 36663. \\2112 \times 11 + 11 \times 2112 &= 23232 + 23232 := 46464. \\11211 \times 11 + 11 \times 11211 &= 123321 + 123321 := 246642. \\11121 \times 11 + 11 \times 12111 &= 122331 + 133221 := 255552. \\12121 \times 11 + 11 \times 12121 &= 133331 + 133331 := 266662. \\11112 \times 11 + 11 \times 21111 &= 122232 + 232221 := 354453. \\11212 \times 11 + 11 \times 21211 &= 123332 + 233321 := 356653. \\12112 \times 11 + 11 \times 21121 &= 133232 + 232331 := 365563. \\11111 \times 12 + 21 \times 11111 &= 133332 + 233331 := 366663. \\21112 \times 11 + 11 \times 21112 &= 232232 + 232232 := 464464. \\111 \times 111 + 111 \times 111 &= 12321 + 12321 := 24642. \\1111 \times 111 + 111 \times 1111 &= 123321 + 123321 := 246642. \\11111 \times 111 + 111 \times 11111 &= 1233321 + 1233321 := 2466642.\end{aligned}$$

### 3.3. Digits 1, 2, 3 and 4.

Below are examples of palindromic-type numbers with digits 1, 2, 3 and 4.

- $13 \times 11 + 11 \times 31 = 143 + 341 := 484.$
- $22 \times 11 + 11 \times 22 = 242 + 242 := 484.$
- $12 \times 12 + 21 \times 21 = 144 + 441 := 585.$
- $131 \times 11 + 11 \times 131 = 1441 + 1441 := 2882.$
- $122 \times 11 + 11 \times 221 = 1342 + 2431 := 3773.$
- $113 \times 11 + 11 \times 311 = 1243 + 3421 := 4664.$
- $111 \times 13 + 31 \times 111 = 1443 + 3441 := 4884.$

- $111 \times 22 + 22 \times 111 = 2442 + 2442 := 4884.$
- $222 \times 11 + 11 \times 222 = 2442 + 2442 := 4884.$
- $112 \times 12 + 21 \times 211 = 1344 + 4431 := 5775.$
- $213 \times 11 + 11 \times 312 = 2343 + 3432 := 5775.$
- $313 \times 11 + 11 \times 313 = 3443 + 3443 := 6886.$
  
- $1131 \times 11 + 11 \times 1311 = 12441 + 14421 := 26862.$
- $1221 \times 11 + 11 \times 1221 = 13431 + 13431 := 26862.$
- $1122 \times 11 + 11 \times 2211 = 12342 + 24321 := 36663.$
- $1222 \times 11 + 11 \times 2221 = 13442 + 24431 := 37873.$
- $1312 \times 11 + 11 \times 2131 = 14432 + 23441 := 37873.$
- $1113 \times 11 + 11 \times 3111 = 12243 + 34221 := 46464.$
- $1213 \times 11 + 11 \times 3121 = 13343 + 34331 := 47674.$
- $2122 \times 11 + 11 \times 2212 = 23342 + 24332 := 47674.$
- $1111 \times 13 + 31 \times 1111 = 14443 + 34441 := 48884.$
- $1111 \times 22 + 22 \times 1111 = 24442 + 24442 := 48884.$
- $1313 \times 11 + 11 \times 3131 = 14443 + 34441 := 48884.$
- $2222 \times 11 + 11 \times 2222 = 24442 + 24442 := 48884.$
- $2113 \times 11 + 11 \times 3112 = 23243 + 34232 := 57475.$
- $1112 \times 12 + 21 \times 2111 = 13344 + 44331 := 57675.$
- $2213 \times 11 + 11 \times 3122 = 24343 + 34342 := 58685.$
- $3113 \times 11 + 11 \times 3113 = 34243 + 34243 := 68486.$
  
- $11311 \times 11 + 11 \times 11311 = 124421 + 124421 := 248842.$
- $11221 \times 11 + 11 \times 12211 = 123431 + 134321 := 257752.$
- $11131 \times 11 + 11 \times 13111 = 122441 + 144221 := 266662.$
- $12221 \times 11 + 11 \times 12221 = 134431 + 134431 := 268862.$
- $12131 \times 11 + 11 \times 13121 = 133441 + 144331 := 277772.$
- $13131 \times 11 + 11 \times 13131 = 144441 + 144441 := 288882.$
- $11312 \times 11 + 11 \times 21311 = 124432 + 234421 := 358853.$
- $11122 \times 11 + 11 \times 22111 = 122342 + 243221 := 365563.$
- $11222 \times 11 + 11 \times 22211 = 123442 + 244321 := 367763.$
- $12212 \times 11 + 11 \times 21221 = 134332 + 233431 := 367763.$
- $12122 \times 11 + 11 \times 22121 = 133342 + 243331 := 376673.$
  
- $1111 \times 1111 + 1111 \times 1111 = 1234321 + 1234321 := 2468642.$
  
- $11211 \times 111 + 111 \times 11211 = 1244421 + 1244421 := 2488842.$
- $11121 \times 111 + 111 \times 12111 = 1234431 + 1344321 := 2578752.$
- $11111 \times 121 + 121 \times 11111 = 1344431 + 1344431 := 2688862.$
- $11112 \times 111 + 111 \times 21111 = 1233432 + 2343321 := 3576753.$
  
- $13112 \times 11 + 11 \times 21131 = 144232 + 232441 := 376673.$
- $12222 \times 11 + 11 \times 22221 = 134442 + 244431 := 378873.$
- $13122 \times 11 + 11 \times 22131 = 144342 + 243441 := 387783.$
- $11113 \times 11 + 11 \times 31111 = 122243 + 342221 := 464464.$
- $11213 \times 11 + 11 \times 31211 = 123343 + 343321 := 466664.$
- $11313 \times 11 + 11 \times 31311 = 124443 + 344421 := 468864.$
- $21312 \times 11 + 11 \times 21312 = 234432 + 234432 := 468864.$
- $12113 \times 11 + 11 \times 31121 = 133243 + 342331 := 475574.$
- $21122 \times 11 + 11 \times 22112 = 232342 + 243232 := 475574.$
- $12213 \times 11 + 11 \times 31221 = 134343 + 343431 := 477774.$
- $21222 \times 11 + 11 \times 22212 = 233442 + 244332 := 477774.$
- $13113 \times 11 + 11 \times 31131 = 144243 + 342441 := 486684.$
- $22122 \times 11 + 11 \times 22122 = 243342 + 243342 := 486684.$
- $11111 \times 13 + 31 \times 11111 = 144443 + 344441 := 488884.$
- $11111 \times 22 + 22 \times 11111 = 244442 + 244442 := 488884.$
- $22222 \times 11 + 11 \times 22222 = 244442 + 244442 := 488884.$
- $21113 \times 11 + 11 \times 31112 = 232243 + 342232 := 574475.$
- $11112 \times 12 + 21 \times 21111 = 133344 + 443331 := 576675.$
- $21213 \times 11 + 11 \times 31212 = 233343 + 343332 := 576675.$
- $21313 \times 11 + 11 \times 31312 = 234443 + 344432 := 578875.$
- $22113 \times 11 + 11 \times 31122 = 243243 + 342342 := 585585.$
- $22213 \times 11 + 11 \times 31222 = 244343 + 343442 := 587785.$
- $31113 \times 11 + 11 \times 31113 = 342243 + 342243 := 684486.$
- $31213 \times 11 + 11 \times 31213 = 343343 + 343343 := 686686.$
- $31313 \times 11 + 11 \times 31313 = 344443 + 344443 := 688886.$
  
- $121 \times 111 + 111 \times 121 = 13431 + 13431 := 26862.$
- $112 \times 111 + 111 \times 211 = 12432 + 23421 := 35853.$
  
- $1121 \times 111 + 111 \times 1211 = 124431 + 134421 := 258852.$
- $1111 \times 121 + 121 \times 1111 = 134431 + 134431 := 268862.$
- $1112 \times 111 + 111 \times 2111 = 123432 + 234321 := 357753.$
- $1111 \times 112 + 211 \times 1111 = 124432 + 234421 := 358853.$
- $2112 \times 111 + 111 \times 2112 = 234432 + 234432 := 468864.$
  
- $11111 \times 112 + 211 \times 11111 = 1244432 + 2344421 := 3588853.$
- $12112 \times 111 + 111 \times 21121 = 1344432 + 2344431 := 3688863.$
- $21112 \times 111 + 111 \times 21112 = 2343432 + 2343432 := 4686864.$
  
- $11111 \times 1111 + 1111 \times 11111 = 12344321 + 12344321 := 24688642.$

### 3.4. Digits 1, 2, 3, 4 and 5.

In this case not all the numbers give final sum as palindromes. We have separated these numbers in two parts.

#### 3.4.1. *Palindromic Sum.*

- $121 \times 12 + 21 \times 121 = 1452 + 2541 := 3993.$
- $132 \times 11 + 11 \times 231 = 1452 + 2541 := 3993.$
- $112 \times 21 + 12 \times 211 = 2352 + 2532 := 4884.$
- $123 \times 11 + 11 \times 321 = 1353 + 3531 := 4884.$
- $114 \times 11 + 11 \times 411 = 1254 + 4521 := 5775.$
- $223 \times 11 + 11 \times 322 = 2453 + 3542 := 5995.$
- $214 \times 11 + 11 \times 412 = 2354 + 4532 := 6886.$
- $212 \times 12 + 21 \times 212 = 2544 + 4452 := 6996.$
  
- $314 \times 11 + 11 \times 413 = 3454 + 4543 := 7997.$
  
- $1132 \times 11 + 11 \times 2311 = 12452 + 25421 := 37873.$
- $1121 \times 12 + 21 \times 1211 = 13452 + 25431 := 38883.$
- $1123 \times 11 + 11 \times 3211 = 12353 + 35321 := 47674.$
- $1112 \times 21 + 12 \times 2111 = 23352 + 25332 := 48684.$
- $1223 \times 11 + 11 \times 3221 = 13453 + 35431 := 48884.$
- $2132 \times 11 + 11 \times 2312 = 23452 + 25432 := 48884.$



- $1114 \times 11 + 11 \times 4111 = 12254 + 45221 := 57475.$
- $1214 \times 11 + 11 \times 4121 = 13354 + 45331 := 58685.$
- $2123 \times 11 + 11 \times 3212 = 23353 + 35332 := 58685.$
- $1314 \times 11 + 11 \times 4131 = 14454 + 45441 := 59895.$
- $2223 \times 11 + 11 \times 3222 = 24453 + 35442 := 59895.$
- $2313 \times 11 + 11 \times 3132 = 25443 + 34452 := 59895.$
- $2114 \times 11 + 11 \times 4112 = 23254 + 45232 := 68486.$
- $2112 \times 12 + 21 \times 2112 = 25344 + 44352 := 69696.$
- $2214 \times 11 + 11 \times 4122 = 24354 + 45342 := 69696.$
- $3123 \times 11 + 11 \times 3213 = 34353 + 35343 := 69696.$
- $3114 \times 11 + 11 \times 4113 = 34254 + 45243 := 79497.$
  
- $11321 \times 11 + 11 \times 12311 = 124531 + 135421 := 259952.$
- $11231 \times 11 + 11 \times 13211 = 123541 + 145321 := 268862.$
- $11141 \times 11 + 11 \times 14111 = 122551 + 155221 := 277772.$
- $12231 \times 11 + 11 \times 13221 = 134541 + 145431 := 279972.$
- $12141 \times 11 + 11 \times 14121 = 133551 + 155331 := 288882.$
- $13141 \times 11 + 11 \times 14131 = 144551 + 155441 := 299992.$
- $11211 \times 12 + 21 \times 11211 = 134532 + 235431 := 369963.$
- $11322 \times 11 + 11 \times 22311 = 124542 + 245421 := 369963.$
- $12312 \times 11 + 11 \times 21321 = 135432 + 234531 := 369963.$
- $11132 \times 11 + 11 \times 23111 = 122452 + 254221 := 376673.$
- $11121 \times 21 + 12 \times 12111 = 233541 + 145332 := 378873.$
- $11232 \times 11 + 11 \times 23211 = 123552 + 255321 := 378873.$
- $13212 \times 11 + 11 \times 21231 = 145332 + 233541 := 378873.$
- $11121 \times 12 + 21 \times 12111 = 133452 + 254331 := 387783.$
- $12132 \times 11 + 11 \times 23121 = 133452 + 254331 := 387783.$
- $14112 \times 11 + 11 \times 21141 = 155232 + 232551 := 387783.$
- $12232 \times 11 + 11 \times 23221 = 134552 + 255431 := 389983.$
- $13222 \times 11 + 11 \times 22231 = 145442 + 244541 := 389983.$
- $13132 \times 11 + 11 \times 23131 = 144452 + 254441 := 398893.$
- $14122 \times 11 + 11 \times 22141 = 155342 + 243551 := 398893.$
- $12121 \times 12 + 21 \times 12121 = 145452 + 254541 := 399993.$
- $11123 \times 11 + 11 \times 32111 = 122353 + 353221 := 475574.$
- $11223 \times 11 + 11 \times 32211 = 123453 + 354321 := 477774.$
- $11323 \times 11 + 11 \times 32311 = 124553 + 355421 := 479974.$
- $12313 \times 11 + 11 \times 31321 = 135443 + 344531 := 479974.$
- $21322 \times 11 + 11 \times 22312 = 234542 + 245432 := 479974.$
- $11112 \times 21 + 12 \times 21111 = 233352 + 253332 := 486684.$
- $12123 \times 11 + 11 \times 32121 = 133353 + 353331 := 486684.$
- $21132 \times 11 + 11 \times 23112 = 232452 + 254232 := 486684.$
- $12223 \times 11 + 11 \times 32221 = 134453 + 354431 := 488884.$
- $13213 \times 11 + 11 \times 31231 = 145343 + 343541 := 488884.$
- $21232 \times 11 + 11 \times 23212 = 233552 + 255332 := 488884.$
  
- $11212 \times 111 + 111 \times 21211 = 1244532 + 2354421 := 3598953.$
- $11122 \times 111 + 111 \times 22111 = 1234542 + 2454321 := 3688863.$
- $11112 \times 121 + 121 \times 21111 = 1344552 + 2554431 := 3898983.$
- $11113 \times 111 + 111 \times 31111 = 1233543 + 3453321 := 4686864.$
- $12113 \times 111 + 111 \times 31121 = 1344543 + 3454431 := 4798974.$
- $21122 \times 111 + 111 \times 22112 = 2344542 + 2454432 := 4798974.$
  
- $11212 \times 21 + 12 \times 21211 = 235452 + 254532 := 489984.$
- $13123 \times 11 + 11 \times 32131 = 144353 + 353441 := 497794.$
- $14113 \times 11 + 11 \times 31141 = 155243 + 342551 := 497794.$
- $22132 \times 11 + 11 \times 23122 = 243452 + 254342 := 497794.$
- $13223 \times 11 + 11 \times 32231 = 145453 + 354541 := 499994.$
- $22232 \times 11 + 11 \times 23222 = 244552 + 255442 := 499994.$
- $11114 \times 11 + 11 \times 41111 = 122254 + 452221 := 574475.$
- $11214 \times 11 + 11 \times 41211 = 123354 + 453321 := 576675.$
- $11314 \times 11 + 11 \times 41311 = 124454 + 454421 := 578875.$
- $11212 \times 12 + 21 \times 21211 = 134544 + 445431 := 579975.$
- $12114 \times 11 + 11 \times 41121 = 133254 + 452331 := 585585.$
- $21123 \times 11 + 11 \times 32112 = 232353 + 353232 := 585585.$
- $12214 \times 11 + 11 \times 41221 = 134354 + 453431 := 587785.$
- $21223 \times 11 + 11 \times 32212 = 233453 + 354332 := 587785.$
- $12112 \times 12 + 21 \times 21121 = 145344 + 443541 := 588885.$
- $12314 \times 11 + 11 \times 41321 = 135454 + 454531 := 589985.$
- $21323 \times 11 + 11 \times 32312 = 234553 + 355432 := 589985.$
- $22313 \times 11 + 11 \times 31322 = 245443 + 344542 := 589985.$
- $13114 \times 11 + 11 \times 41131 = 144254 + 452441 := 596695.$
- $22123 \times 11 + 11 \times 32122 = 243353 + 353342 := 596695.$
- $23113 \times 11 + 11 \times 31132 = 254243 + 342452 := 596695.$
- $13214 \times 11 + 11 \times 41231 = 145354 + 453541 := 598895.$
- $22223 \times 11 + 11 \times 32222 = 244453 + 354442 := 598895.$
- $23213 \times 11 + 11 \times 31232 = 255343 + 343552 := 598895.$
- $21114 \times 11 + 11 \times 41112 = 232254 + 452232 := 684486.$
- $21214 \times 11 + 11 \times 41212 = 233354 + 453332 := 686686.$
- $21314 \times 11 + 11 \times 41312 = 234454 + 454432 := 688886.$
- $22114 \times 11 + 11 \times 41122 = 243254 + 452342 := 695596.$
- $31123 \times 11 + 11 \times 32113 = 342353 + 353243 := 695596.$
- $21112 \times 12 + 21 \times 21112 = 253344 + 443352 := 696696.$
- $22214 \times 11 + 11 \times 41222 = 244354 + 453442 := 697796.$
- $31223 \times 11 + 11 \times 32213 = 343453 + 354343 := 697796.$
- $21212 \times 12 + 21 \times 21212 = 254544 + 445452 := 699996.$
- $22314 \times 11 + 11 \times 41322 = 245454 + 454542 := 699996.$
- $31323 \times 11 + 11 \times 32313 = 344553 + 355443 := 699996.$
- $31114 \times 11 + 11 \times 41113 = 342254 + 452243 := 794497.$
- $31214 \times 11 + 11 \times 41213 = 343354 + 453343 := 796697.$
- $31314 \times 11 + 11 \times 41313 = 344454 + 454443 := 798897.$
- $1122 \times 111 + 111 \times 2211 = 124542 + 245421 := 369963.$
- $1212 \times 111 + 111 \times 2121 = 134532 + 235431 := 369963.$
- $1112 \times 121 + 121 \times 2111 = 134552 + 255431 := 389983.$
- $1113 \times 111 + 111 \times 3111 = 123543 + 345321 := 468864.$
- $1112 \times 112 + 211 \times 2111 = 124544 + 445421 := 569965.$
- $2113 \times 111 + 111 \times 3112 = 234543 + 345432 := 579975.$
  
- $11112 \times 112 + 211 \times 21111 = 1244544 + 4454421 := 5698965.$
- $21113 \times 111 + 111 \times 31112 = 2343543 + 3453432 := 5796975.$
  
- $11112 \times 1111 + 1111 \times 21111 = 12345432 + 23454321 := 35799753.$

### 3.4.2. *Non Palindromic Sum.*

- $21 \times 12 + 21 \times 12 = 252 + 252 := 504.$
- $14 \times 11 + 11 \times 41 = 154 + 451 := 605.$
- $23 \times 11 + 11 \times 32 = 253 + 352 := 605.$
- $141 \times 11 + 11 \times 141 = 1551 + 1551 := 3102.$

- $232 \times 11 + 11 \times 232 = 2552 + 2552 := 5104.$
- $111 \times 14 + 41 \times 111 = 1554 + 4551 := 6105.$
- $111 \times 23 + 32 \times 111 = 2553 + 3552 := 6105.$
- $323 \times 11 + 11 \times 323 = 3553 + 3553 := 7106.$
- $414 \times 11 + 11 \times 414 = 4554 + 4554 := 9108.$
  
- $1141 \times 11 + 11 \times 1411 = 12551 + 15521 := 28072.$
- $1231 \times 11 + 11 \times 1321 = 13541 + 14531 := 28072.$
- $1121 \times 21 + 12 \times 1211 = 23541 + 14532 := 38073.$
- $1232 \times 11 + 11 \times 2321 = 13552 + 25531 := 39083.$
- $1322 \times 11 + 11 \times 2231 = 14542 + 24541 := 39083.$
- $1412 \times 11 + 11 \times 2141 = 15532 + 23551 := 39083.$
- $1323 \times 11 + 11 \times 3231 = 14553 + 35541 := 50094.$
- $1413 \times 11 + 11 \times 3141 = 15543 + 34551 := 50094.$
- $2232 \times 11 + 11 \times 2322 = 24552 + 25542 := 50094.$
- $1212 \times 21 + 12 \times 2121 = 25452 + 25452 := 50904.$
- $1212 \times 12 + 21 \times 2121 = 14544 + 44541 := 59085.$
- $1111 \times 14 + 41 \times 1111 = 15554 + 45551 := 61105.$
- $1111 \times 23 + 32 \times 1111 = 25553 + 35552 := 61105.$
- $1414 \times 11 + 11 \times 4141 = 15554 + 45551 := 61105.$
- $2323 \times 11 + 11 \times 3232 = 25553 + 35552 := 61105.$
- $2314 \times 11 + 11 \times 4132 = 25454 + 45452 := 70906.$
- $3223 \times 11 + 11 \times 3223 = 35453 + 35453 := 70906.$
- $3214 \times 11 + 11 \times 4123 = 35354 + 45353 := 80707.$
- $4114 \times 11 + 11 \times 4114 = 45254 + 45254 := 90508.$
  
- $11411 \times 11 + 11 \times 11411 = 125521 + 125521 := 251042.$
- $12321 \times 11 + 11 \times 12321 = 135531 + 135531 := 271062.$
- $13231 \times 11 + 11 \times 13231 = 145541 + 145541 := 291082.$
- $14141 \times 11 + 11 \times 14141 = 155551 + 155551 := 311102.$
- $11412 \times 11 + 11 \times 21411 = 125532 + 235521 := 361053.$
- $12322 \times 11 + 11 \times 22321 = 135542 + 245531 := 381073.$
- $13232 \times 11 + 11 \times 23231 = 145552 + 255541 := 401093.$
- $14132 \times 11 + 11 \times 23141 = 155452 + 254551 := 410003.$
- $11413 \times 11 + 11 \times 31411 = 125543 + 345521 := 471064.$
- $21412 \times 11 + 11 \times 21412 = 235532 + 235532 := 471064.$
- $12323 \times 11 + 11 \times 32321 = 135553 + 355531 := 491084.$
- $22322 \times 11 + 11 \times 22322 = 245542 + 245542 := 491084.$
- $12112 \times 21 + 12 \times 21121 = 254352 + 253452 := 507804.$
- $14123 \times 11 + 11 \times 32141 = 155353 + 353551 := 508904.$
- $23132 \times 11 + 11 \times 23132 = 254452 + 254452 := 508904.$
- $23232 \times 11 + 11 \times 23232 = 255552 + 255552 := 511104.$
  
- $11311 \times 111 + 111 \times 11311 = 1255521 + 1255521 := 2511042.$
- $11221 \times 111 + 111 \times 12211 = 1245531 + 1355421 := 2600952.$
- $11131 \times 111 + 111 \times 13111 = 1235541 + 1455321 := 2690862.$
- $12121 \times 111 + 111 \times 12121 = 1345431 + 1345431 := 2690862.$
- $11111 \times 131 + 131 \times 11111 = 1455541 + 1455541 := 2911082.$
- $12212 \times 111 + 111 \times 21221 = 1355532 + 2355531 := 3711063.$
- $11121 \times 112 + 211 \times 12111 = 1245552 + 2555421 := 3800973.$
- $12122 \times 111 + 111 \times 22121 = 1345542 + 2455431 := 3800973.$
- $13112 \times 111 + 111 \times 21131 = 1455432 + 2345541 := 3800973.$
- $11111 \times 122 + 221 \times 11111 = 1355542 + 2455531 := 3811073.$
- $21212 \times 111 + 111 \times 21212 = 2354532 + 2354532 := 4709064.$
  
- $11414 \times 11 + 11 \times 41411 = 125554 + 455521 := 581075.$
- $21413 \times 11 + 11 \times 31412 = 235543 + 345532 := 581075.$
- $22323 \times 11 + 11 \times 32322 = 245553 + 355542 := 601095.$
- $14114 \times 11 + 11 \times 41141 = 155254 + 452551 := 607805.$
- $23123 \times 11 + 11 \times 32132 = 254353 + 353452 := 607805.$
- $23223 \times 11 + 11 \times 32232 = 255453 + 354552 := 610005.$
- $11111 \times 14 + 41 \times 11111 = 155554 + 455551 := 611105.$
- $11111 \times 23 + 32 \times 11111 = 255553 + 355552 := 611105.$
- $21414 \times 11 + 11 \times 41412 = 235554 + 455532 := 691086.$
- $31413 \times 11 + 11 \times 31413 = 345543 + 345543 := 691086.$
- $23114 \times 11 + 11 \times 41132 = 254254 + 452452 := 706706.$
- $32123 \times 11 + 11 \times 32123 = 353353 + 353353 := 706706.$
- $23214 \times 11 + 11 \times 41232 = 255354 + 453552 := 708906.$
- $32223 \times 11 + 11 \times 32223 = 354453 + 354453 := 708906.$
- $32323 \times 11 + 11 \times 32323 = 355553 + 355553 := 711106.$
- $31414 \times 11 + 11 \times 41413 = 345554 + 455543 := 801097.$
- $32114 \times 11 + 11 \times 41123 = 353254 + 452353 := 805607.$
- $32214 \times 11 + 11 \times 41223 = 354354 + 453453 := 807807.$
- $32314 \times 11 + 11 \times 41323 = 355454 + 454553 := 810007.$
- $41114 \times 11 + 11 \times 41114 = 452254 + 452254 := 904508.$
- $41214 \times 11 + 11 \times 41214 = 453354 + 453354 := 906708.$
- $41314 \times 11 + 11 \times 41314 = 454454 + 454454 := 908908.$
- $41414 \times 11 + 11 \times 41414 = 455554 + 455554 := 911108.$
  
- $131 \times 111 + 111 \times 131 = 14541 + 14541 := 29082.$
- $122 \times 111 + 111 \times 221 = 13542 + 24531 := 38073.$
- $121 \times 112 + 211 \times 121 = 13552 + 25531 := 39083.$
- $113 \times 111 + 111 \times 311 = 12543 + 34521 := 47064.$
- $212 \times 111 + 111 \times 212 = 23532 + 23532 := 47064.$
- $112 \times 112 + 211 \times 211 = 12544 + 44521 := 57065.$
  
- $1131 \times 111 + 111 \times 1311 = 125541 + 145521 := 271062.$
- $1221 \times 111 + 111 \times 1221 = 135531 + 135531 := 271062.$
- $1111 \times 131 + 131 \times 1111 = 145541 + 145541 := 291082.$
- $1111 \times 122 + 221 \times 1111 = 135542 + 245531 := 381073.$
- $1121 \times 112 + 211 \times 1211 = 125552 + 255521 := 381073.$
- $1111 \times 113 + 311 \times 1111 = 125543 + 345521 := 471064.$
- $1111 \times 212 + 212 \times 1111 = 235532 + 235532 := 471064.$
- $2122 \times 111 + 111 \times 2212 = 235542 + 245532 := 481074.$
- $2112 \times 121 + 121 \times 2112 = 255552 + 255552 := 511104.$
- $3113 \times 111 + 111 \times 3113 = 345543 + 345543 := 691086.$
  
- $11111 \times 113 + 311 \times 11111 = 1255543 + 3455521 := 4711064.$
- $11111 \times 212 + 212 \times 11111 = 2355532 + 2355532 := 4711064.$
- $13113 \times 111 + 111 \times 31131 = 1455543 + 3455541 := 4911084.$
- $22122 \times 111 + 111 \times 22122 = 2455542 + 2455542 := 4911084.$
- $21112 \times 121 + 121 \times 21112 = 2554552 + 2554552 := 5109104.$
- $22113 \times 111 + 111 \times 31122 = 2454543 + 3454542 := 5909085.$
- $31113 \times 111 + 111 \times 31113 = 3453543 + 3453543 := 6907086.$
  
- $1121 \times 1111 + 1111 \times 1211 = 1245431 + 1345421 := 2590852.$
- $1112 \times 1111 + 1111 \times 2111 = 1235432 + 2345321 := 3580753.$
  
- $11211 \times 1111 + 1111 \times 11211 = 12455421 + 12455421 := 24910842.$
- $11121 \times 1111 + 1111 \times 12111 = 12355431 + 13455321 := 25810752.$
- $11111 \times 1121 + 1211 \times 11111 = 12455431 + 13455421 := 25910852.$
- $11111 \times 1112 + 2111 \times 11111 = 12355432 + 23455321 := 35810753.$

- $21112 \times 1111 + 1111 \times 21112 = 23455432 + 23455432 := 46910864.$
- $11111 \times 11111 + 11111 \times 11111 = 123454321 + 123454321 := 246908642.$

#### 4. SPECIFIC DIGITS PALINDROMIC-TYPE NUMBERS WITH ZERO

In this section we shall work with *palindromic-type* numbers with with specific digits. For example, with numbers  $\{0,1\}$ ,  $\{0,1,2\}$ ,  $\{0,1,2,3\}$ , etc. Interestingly, up to digits  $\{0, 1,2,3,4\}$  the final sum is always palindrome. When we work with digits  $\{0,1,2,3,4,5\}$ , the final sum is not necessarily a palindrome. Examples in each case are given separately in the following subsections:

##### 4.1. Digits 0 and 1.

Examples below are *palindromic-type* numbers with two digits 0 and 1 on both sides of the expressions, except the sum, where total sum is with 0, 1 and 2. In this case we have very few numbers. Final sum is also a palindromes.

$$\begin{aligned}
 101 \times 11 + 11 \times 101 &= 1111 + 1111 := 2222. \\
 1001 \times 11 + 11 \times 1001 &= 11011 + 11011 := 22022. \\
 10001 \times 11 + 11 \times 10001 &= 110011 + 110011 := 220022. \\
 10101 \times 11 + 11 \times 10101 &= 111111 + 111111 := 222222. \\
 \\ 
 1001 \times 101 + 101 \times 1001 &= 101101 + 101101 := 202202. \\
 1001 \times 111 + 111 \times 1001 &= 111111 + 111111 := 222222. \\
 10001 \times 101 + 101 \times 10001 &= 1010101 + 1010101 := 2020202. \\
 10001 \times 111 + 111 \times 10001 &= 1110111 + 1110111 := 2220222. \\
 10011 \times 101 + 101 \times 11001 &= 1011111 + 1111101 := 2122212. \\
 \\ 
 10001 \times 1001 + 1001 \times 10001 &= 10011001 + 10011001 := 20022002. \\
 10001 \times 1011 + 1101 \times 10001 &= 10111011 + 11011101 := 21122112. \\
 10001 \times 1111 + 1111 \times 10001 &= 11111111 + 11111111 := 22222222. \\
 10101 \times 1001 + 1001 \times 10101 &= 10111101 + 10111101 := 20222202.
 \end{aligned}$$

##### 4.2. Digits 0, 1 and 2.

Below are examples of *palindromic-type* numbers with digits 0, 1 and 2 on both sides of the expressions. Interestingly, the sum in each case is always a palindrome.

- $101 \times 11 + 11 \times 101 = 1111 + 1111 := 2222.$
- $101 \times 12 + 21 \times 101 = 1212 + 2121 := 3333.$
- $102 \times 11 + 11 \times 201 = 1122 + 2211 := 3333.$
- $101 \times 22 + 22 \times 101 = 2222 + 2222 := 4444.$
- $202 \times 11 + 11 \times 202 = 2222 + 2222 := 4444.$
- $1001 \times 11 + 11 \times 1001 = 11011 + 11011 := 22022.$
- $1011 \times 11 + 11 \times 1101 = 11121 + 12111 := 23232.$
- $1001 \times 12 + 21 \times 1001 = 12012 + 21021 := 33033.$
- $1002 \times 11 + 11 \times 2001 = 11022 + 22011 := 33033.$
- $1102 \times 11 + 11 \times 2011 = 12122 + 22121 := 34243.$
- $1001 \times 22 + 22 \times 1001 = 22022 + 22022 := 44044.$
- $2002 \times 11 + 11 \times 2002 = 22022 + 22022 := 44044.$
- $10001 \times 11 + 11 \times 10001 = 110011 + 110011 := 220022.$
- $10101 \times 11 + 11 \times 10101 = 111111 + 111111 := 222222.$
- $10201 \times 11 + 11 \times 10201 = 112211 + 112211 := 224422.$
- $10011 \times 11 + 11 \times 11001 = 110121 + 121011 := 231132.$
- $10111 \times 11 + 11 \times 11101 = 111221 + 122111 := 233332.$
- $11011 \times 11 + 11 \times 11011 = 121121 + 121121 := 242242.$
- $10001 \times 12 + 21 \times 10001 = 120012 + 210021 := 330033.$
- $10002 \times 11 + 11 \times 20001 = 110022 + 220011 := 330033.$
- $10102 \times 11 + 11 \times 20101 = 111122 + 221111 := 332233.$
- $10101 \times 12 + 21 \times 10101 = 121212 + 212121 := 333333.$

- $10202 \times 11 + 11 \times 20201 = 112222 + 222211 := 334433.$
- $11002 \times 11 + 11 \times 20011 = 121022 + 220121 := 341143.$
- $11102 \times 11 + 11 \times 20111 = 122122 + 221221 := 343343.$
- $10001 \times 22 + 22 \times 10001 = 220022 + 220022 := 440044.$
- $20002 \times 11 + 11 \times 20002 = 220022 + 220022 := 440044.$
- $20102 \times 11 + 11 \times 20102 = 221122 + 221122 := 442244.$
- $10101 \times 22 + 22 \times 10101 = 222222 + 222222 := 444444.$
- $20202 \times 11 + 11 \times 20202 = 222222 + 222222 := 444444.$
  
- $101 \times 101 + 101 \times 101 = 10201 + 10201 := 20402.$
- $111 \times 101 + 101 \times 111 = 11211 + 11211 := 22422.$
- $121 \times 101 + 101 \times 121 = 12221 + 12221 := 24442.$
  
- $1001 \times 101 + 101 \times 1001 = 101101 + 101101 := 202202.$
- $1011 \times 101 + 101 \times 1101 = 102111 + 111201 := 213312.$
  
- $10001 \times 101 + 101 \times 10001 = 1010101 + 1010101 := 2020202.$
- $10101 \times 101 + 101 \times 10101 = 1020201 + 1020201 := 2040402.$
- $10011 \times 101 + 101 \times 11001 = 1011111 + 1111101 := 2122212.$
- $10111 \times 101 + 101 \times 11101 = 1021211 + 1121201 := 2142412.$
- $10001 \times 111 + 111 \times 10001 = 1110111 + 1110111 := 2220222.$
- $10021 \times 101 + 101 \times 12001 = 1012121 + 1212101 := 2224222.$
- $11011 \times 101 + 101 \times 11011 = 1112111 + 1112111 := 2224222.$
- $10101 \times 111 + 111 \times 10101 = 1121211 + 1121211 := 2242422.$
- $10121 \times 101 + 101 \times 12101 = 1022221 + 1222201 := 2244422.$
- $11111 \times 101 + 101 \times 11111 = 1122211 + 1122211 := 2244422.$
- $10011 \times 111 + 111 \times 11001 = 1111221 + 1221111 := 2332332.$
- $10001 \times 121 + 121 \times 10001 = 1210121 + 1210121 := 2420242.$
- $10101 \times 121 + 121 \times 10101 = 1222221 + 1222221 := 2444442.$
- $11011 \times 111 + 111 \times 11011 = 1222221 + 1222221 := 2444442.$
- $10001 \times 102 + 201 \times 10001 = 1020102 + 2010201 := 3030303.$
- $10002 \times 101 + 101 \times 20001 = 1010202 + 2020101 := 3030303.$
- $10012 \times 101 + 101 \times 21001 = 1011212 + 2121101 := 3132313.$
- $11002 \times 101 + 101 \times 20011 = 1111202 + 2021111 := 3132313.$
- $10011 \times 201 + 102 \times 11001 = 2012211 + 1122102 := 3134313.$
- $10001 \times 112 + 211 \times 10001 = 1120112 + 2110211 := 3230323.$
- $10011 \times 102 + 201 \times 11001 = 1021122 + 2211201 := 3232323.$
- $10022 \times 101 + 101 \times 22001 = 1012222 + 2222101 := 3234323.$
- $11012 \times 101 + 101 \times 21011 = 1112212 + 2122111 := 3234323.$
- $12002 \times 101 + 101 \times 20021 = 1212202 + 2022121 := 3234323.$
- $10002 \times 111 + 111 \times 20001 = 1110222 + 2220111 := 3330333.$
- $10001 \times 122 + 221 \times 10001 = 1220122 + 2210221 := 3430343.$
- $11002 \times 111 + 111 \times 20011 = 1221222 + 2221221 := 3442443.$
- $10001 \times 202 + 202 \times 10001 = 2020202 + 2020202 := 4040404.$
- $20002 \times 101 + 101 \times 20002 = 2020202 + 2020202 := 4040404.$
- $20012 \times 101 + 101 \times 21002 = 2021212 + 2121202 := 4142414.$
- $10001 \times 212 + 212 \times 10001 = 2120212 + 2120212 := 4240424.$
- $10011 \times 202 + 202 \times 11001 = 2022222 + 2222202 := 4244424.$
- $20022 \times 101 + 101 \times 22002 = 2022222 + 2222202 := 4244424.$
- $21012 \times 101 + 101 \times 21012 = 2122212 + 2122212 := 4244424.$
- $10001 \times 222 + 222 \times 10001 = 2220222 + 2220222 := 4440444.$
- $20002 \times 111 + 111 \times 20002 = 2220222 + 2220222 := 4440444.$
  
- $1001 \times 1001 + 1001 \times 1001 = 1002001 + 1002001 := 2004002.$
- $1011 \times 1001 + 1001 \times 1101 = 1012011 + 1102101 := 2114112.$
- $1021 \times 1001 + 1001 \times 1201 = 1022021 + 1202201 := 2224222.$

- $1111 \times 1001 + 1001 \times 1111 = 1112111 + 1112111 := 2224222.$
- $1011 \times 1011 + 1101 \times 1101 = 1022121 + 1212201 := 2234322.$
- $1121 \times 1001 + 1001 \times 1211 = 1122121 + 1212211 := 2334332.$
- $1221 \times 1001 + 1001 \times 1221 = 1222221 + 1222221 := 2444442.$
  
- $10001 \times 1001 + 1001 \times 10001 = 10011001 + 10011001 := 20022002.$
- $10101 \times 1001 + 1001 \times 10101 = 10111101 + 10111101 := 20222202.$
- $10201 \times 1001 + 1001 \times 10201 = 10211201 + 10211201 := 20422402.$
- $10011 \times 1001 + 1001 \times 11001 = 10021011 + 11012001 := 21033012.$
- $10001 \times 1011 + 1101 \times 10001 = 10111011 + 11011101 := 21122112.$
- $10111 \times 1001 + 1001 \times 11101 = 10121111 + 11112101 := 21233212.$
- $10101 \times 1011 + 1101 \times 10101 = 10212111 + 11121201 := 21333312.$
- $10211 \times 1001 + 1001 \times 11201 = 10221211 + 11212201 := 21433412.$
- $11011 \times 1001 + 1001 \times 11011 = 11022011 + 11022011 := 22044022.$
- $10011 \times 1101 + 1011 \times 11001 = 11022111 + 11122011 := 22144122.$
- $10001 \times 1021 + 1201 \times 10001 = 10211021 + 12011201 := 22222222.$
- $10001 \times 1111 + 1111 \times 10001 = 11111111 + 11111111 := 22222222.$
- $10011 \times 1011 + 1101 \times 11001 = 10121121 + 12112101 := 22233222.$
- $11111 \times 1001 + 1001 \times 11111 = 11122111 + 11122111 := 22244222.$
- $10101 \times 1111 + 1111 \times 10101 = 11222211 + 11222211 := 22444422.$
- $10111 \times 1011 + 1101 \times 11101 = 10222221 + 12222201 := 22444422.$
- $11211 \times 1001 + 1001 \times 11211 = 11222211 + 11222211 := 22444422.$
- $10001 \times 1121 + 1211 \times 10001 = 11211121 + 12111211 := 23322332.$
- $10011 \times 1111 + 1111 \times 11001 = 11122221 + 12222111 := 23344332.$
- $10001 \times 1221 + 1221 \times 10001 = 12211221 + 12211221 := 24422442.$
- $10001 \times 1002 + 2001 \times 10001 = 10021002 + 20012001 := 30033003.$
- $10002 \times 1001 + 1001 \times 20001 = 10012002 + 20021001 := 30033003.$
- $10102 \times 1001 + 1001 \times 20101 = 10112102 + 20121101 := 30233203.$
- $10101 \times 1002 + 2001 \times 10101 = 10121202 + 20212101 := 30333303.$
- $10202 \times 1001 + 1001 \times 20201 = 10212202 + 20221201 := 30433403.$
- $10012 \times 1001 + 1001 \times 21001 = 10022012 + 21022001 := 31044013.$
- $10001 \times 1012 + 2101 \times 10001 = 10121012 + 21012101 := 31133113.$
- $10001 \times 1102 + 2011 \times 10001 = 11021102 + 20112011 := 31133113.$
- $10002 \times 1101 + 1011 \times 20001 = 11012202 + 20221011 := 31233213.$
- $10112 \times 1001 + 1001 \times 21101 = 10122112 + 21122101 := 31244213.$
- $10101 \times 1012 + 2101 \times 10101 = 10222212 + 21222201 := 31444413.$
- $10212 \times 1001 + 1001 \times 21201 = 10222212 + 21222201 := 31444413.$
- $10002 \times 1011 + 1101 \times 20001 = 10112022 + 22021101 := 32133123.$
- $10001 \times 1022 + 2201 \times 10001 = 10221022 + 22012201 := 32233223.$
- $10001 \times 1112 + 2111 \times 10001 = 11121112 + 21112111 := 32233223.$
- $10001 \times 1202 + 2021 \times 10001 = 12021202 + 20212021 := 32233223.$
- $10001 \times 1122 + 2211 \times 10001 = 11221122 + 22112211 := 33333333.$
- $10001 \times 1212 + 2121 \times 10001 = 12121212 + 21212121 := 33333333.$
- $10002 \times 1111 + 1111 \times 20001 = 11112222 + 22221111 := 33333333.$
- $10001 \times 1222 + 2221 \times 10001 = 12221222 + 22212221 := 34433443.$
- $10001 \times 2002 + 2002 \times 10001 = 20022002 + 20022002 := 40044004.$
- $20002 \times 1001 + 1001 \times 20002 = 20022002 + 20022002 := 40044004.$
- $20102 \times 1001 + 1001 \times 20102 = 20122102 + 20122102 := 40244204.$
- $10101 \times 2002 + 2002 \times 10101 = 20222202 + 20222202 := 40444404.$
- $20202 \times 1001 + 1001 \times 20202 = 20222202 + 20222202 := 40444404.$
- $10001 \times 2012 + 2102 \times 10001 = 20122012 + 21022102 := 41144114.$
- $10001 \times 2022 + 2202 \times 10001 = 20222022 + 22022202 := 42244224.$
- $10001 \times 2112 + 2112 \times 10001 = 21122112 + 21122112 := 42244224.$
- $20002 \times 1011 + 1101 \times 20002 = 20222022 + 22022202 := 42244224.$

- $10001 \times 2122 + 2212 \times 10001 = 21222122 + 22122212 := 43344334.$
- $10001 \times 2222 + 2222 \times 10001 = 22222222 + 22222222 := 44444444.$
- $20002 \times 1111 + 1111 \times 20002 = 22222222 + 22222222 := 44444444.$
  
- $10001 \times 10001 + 10001 \times 10001 = 100020001 + 100020001 := 200040002.$
- $10101 \times 10001 + 10001 \times 10101 = 101020101 + 101020101 := 202040202.$
- $10201 \times 10001 + 10001 \times 10201 = 102020201 + 102020201 := 204040402.$
- $10011 \times 10001 + 10001 \times 11001 = 100120011 + 110021001 := 210141012.$
- $10111 \times 10001 + 10001 \times 11101 = 101120111 + 111021101 := 212141212.$
- $10101 \times 10011 + 11001 \times 10101 = 101121111 + 111121101 := 212242212.$
- $10211 \times 10001 + 10001 \times 11201 = 102120211 + 112021201 := 214141412.$
- $10201 \times 10011 + 11001 \times 10201 = 102122211 + 112221201 := 214343412.$
- $10021 \times 10001 + 10001 \times 12001 = 100220021 + 120022001 := 220242022.$
- $11011 \times 10001 + 10001 \times 11011 = 110121011 + 110121011 := 220242022.$
- $10011 \times 10011 + 11001 \times 11001 = 100220121 + 121022001 := 221242122.$
- $10121 \times 10001 + 10001 \times 12101 = 101220121 + 121022101 := 222242222.$
- $11111 \times 10001 + 10001 \times 11111 = 111121111 + 111121111 := 222242222.$
- $10101 \times 10021 + 12001 \times 10101 = 101222121 + 121222101 := 222444222.$
- $11011 \times 10101 + 10101 \times 11011 = 111222111 + 111222111 := 222444222.$
- $10111 \times 10011 + 11001 \times 11101 = 101221221 + 122122101 := 223343322.$
- $10221 \times 10001 + 10001 \times 12201 = 102220221 + 122022201 := 224242422.$
- $11211 \times 10001 + 10001 \times 11211 = 112121211 + 112121211 := 224242422.$
- $11021 \times 10001 + 10001 \times 12011 = 110221021 + 120122011 := 230343032.$
- $11121 \times 10001 + 10001 \times 12111 = 111221121 + 121122111 := 232343232.$
- $11221 \times 10001 + 10001 \times 12211 = 112221221 + 122122211 := 234343432.$
- $12021 \times 10001 + 10001 \times 12021 = 120222021 + 120222021 := 240444042.$
- $12121 \times 10001 + 10001 \times 12121 = 121222121 + 121222121 := 242444242.$
- $12221 \times 10001 + 10001 \times 12221 = 122222221 + 122222221 := 244444442.$

### 4.3. Digits 0, 1, 2 and 3.

Below are examples of *palindromic-type* numbers with digits 0, 1, 2 and 3 on both sides of the expression. In this case the final sum in each case is palindrome.

- $101 \times 13 + 31 \times 101 = 1313 + 3131 := 4444.$
- $103 \times 11 + 11 \times 301 = 1133 + 3311 := 4444.$
- $101 \times 23 + 32 \times 101 = 2323 + 3232 := 5555.$
- $203 \times 11 + 11 \times 302 = 2233 + 3322 := 5555.$
- $101 \times 33 + 33 \times 101 = 3333 + 3333 := 6666.$
- $303 \times 11 + 11 \times 303 = 3333 + 3333 := 6666.$
  
- $1021 \times 11 + 11 \times 1201 = 11231 + 13211 := 24442.$
- $1012 \times 11 + 11 \times 2101 = 11132 + 23111 := 34243.$
- $1011 \times 21 + 12 \times 1101 = 21231 + 13212 := 34443.$
- $1011 \times 12 + 21 \times 1101 = 12132 + 23121 := 35253.$
- $1202 \times 11 + 11 \times 2021 = 13222 + 22231 := 35453.$
- $1212 \times 11 + 11 \times 2121 = 13332 + 23331 := 36663.$
- $1001 \times 13 + 31 \times 1001 = 13013 + 31031 := 44044.$
- $1003 \times 11 + 11 \times 3001 = 11033 + 33011 := 44044.$
- $1103 \times 11 + 11 \times 3011 = 12133 + 33121 := 45254.$
- $2012 \times 11 + 11 \times 2102 = 22132 + 23122 := 45254.$
- $1203 \times 11 + 11 \times 3021 = 13233 + 33231 := 46464.$
- $1001 \times 23 + 32 \times 1001 = 23023 + 32032 := 55055.$
- $2003 \times 11 + 11 \times 3002 = 22033 + 33022 := 55055.$
- $2103 \times 11 + 11 \times 3012 = 23133 + 33132 := 56265.$
- $1001 \times 33 + 33 \times 1001 = 33033 + 33033 := 66066.$
  
- $3003 \times 11 + 11 \times 3003 = 33033 + 33033 := 66066.$
  
- $10301 \times 11 + 11 \times 10301 = 113311 + 113311 := 226622.$
- $10211 \times 11 + 11 \times 11201 = 112321 + 123211 := 235532.$
- $10021 \times 11 + 11 \times 12001 = 110231 + 132011 := 242242.$
- $10121 \times 11 + 11 \times 12101 = 111331 + 133111 := 244442.$
- $11021 \times 11 + 11 \times 12011 = 121231 + 132121 := 253352.$
- $12021 \times 11 + 11 \times 12021 = 132231 + 132231 := 264462.$
- $12121 \times 11 + 11 \times 12121 = 133331 + 133331 := 266662.$
- $10302 \times 11 + 11 \times 20301 = 113322 + 223311 := 336633.$
- $10012 \times 11 + 11 \times 21001 = 110132 + 231011 := 341143.$
- $10011 \times 21 + 12 \times 11001 = 210231 + 132012 := 342243.$
- $10112 \times 11 + 11 \times 21101 = 111232 + 232111 := 343343.$
- $10111 \times 21 + 12 \times 11101 = 212331 + 133212 := 345543.$
- $10212 \times 11 + 11 \times 21201 = 112332 + 233211 := 345543.$
- $11202 \times 11 + 11 \times 20211 = 123222 + 222321 := 345543.$
- $10011 \times 12 + 21 \times 11001 = 120132 + 231021 := 351153.$
- $11012 \times 11 + 11 \times 21011 = 121132 + 231121 := 352253.$
- $12002 \times 11 + 11 \times 20021 = 132022 + 220231 := 352253.$
- $10111 \times 12 + 21 \times 11101 = 121332 + 233121 := 354453.$
- $12102 \times 11 + 11 \times 20121 = 133122 + 221331 := 354453.$
- $11011 \times 12 + 21 \times 11011 = 132132 + 231231 := 363363.$

- $12012 \times 11 + 11 \times 21021 = 132132 + 231231 := 363363.$
- $10001 \times 13 + 31 \times 10001 = 130013 + 310031 := 440044.$
- $10003 \times 11 + 11 \times 30001 = 110033 + 330011 := 440044.$
- $10103 \times 11 + 11 \times 30101 = 111133 + 331111 := 442244.$
- $10101 \times 13 + 31 \times 10101 = 131313 + 313131 := 444444.$
- $10203 \times 11 + 11 \times 30201 = 112233 + 332211 := 444444.$
- $10303 \times 11 + 11 \times 30301 = 113333 + 333311 := 446644.$
- $20302 \times 11 + 11 \times 20302 = 223322 + 223322 := 446644.$
- $11003 \times 11 + 11 \times 30011 = 121033 + 330121 := 451154.$
- $20012 \times 11 + 11 \times 21002 = 220132 + 231022 := 451154.$
- $11103 \times 11 + 11 \times 30111 = 122133 + 331221 := 453354.$
- $20112 \times 11 + 11 \times 21102 = 221232 + 232122 := 453354.$
- $11203 \times 11 + 11 \times 30211 = 123233 + 332321 := 455554.$
- $20212 \times 11 + 11 \times 21202 = 222332 + 233222 := 455554.$
- $12003 \times 11 + 11 \times 30021 = 132033 + 330231 := 462264.$
- $21012 \times 11 + 11 \times 21012 = 231132 + 231132 := 462264.$
- $12103 \times 11 + 11 \times 30121 = 133133 + 331331 := 464464.$
- $21112 \times 11 + 11 \times 21112 = 232232 + 232232 := 464464.$
- $21212 \times 11 + 11 \times 21212 = 233332 + 233332 := 466664.$
- $10001 \times 23 + 32 \times 10001 = 230023 + 320032 := 550055.$
- $20003 \times 11 + 11 \times 30002 = 220033 + 330022 := 550055.$
- $20103 \times 11 + 11 \times 30102 = 221133 + 331122 := 552255.$
- $20203 \times 11 + 11 \times 30202 = 222233 + 332222 := 554455.$
- $10101 \times 23 + 32 \times 10101 = 232323 + 323232 := 555555.$
- $20303 \times 11 + 11 \times 30302 = 223333 + 333322 := 556655.$
- $21003 \times 11 + 11 \times 30012 = 231033 + 330132 := 561165.$
- $21103 \times 11 + 11 \times 30112 = 232133 + 331232 := 563365.$
- $21203 \times 11 + 11 \times 30212 = 233233 + 332332 := 565565.$
- $10001 \times 33 + 33 \times 10001 = 330033 + 330033 := 660066.$
- $30003 \times 11 + 11 \times 30003 = 330033 + 330033 := 660066.$
- $30103 \times 11 + 11 \times 30103 = 331133 + 331133 := 662266.$
- $30203 \times 11 + 11 \times 30203 = 332233 + 332233 := 664466.$
- $10101 \times 33 + 33 \times 10101 = 333333 + 333333 := 666666.$
- $30303 \times 11 + 11 \times 30303 = 333333 + 333333 := 666666.$
  
- $131 \times 101 + 101 \times 131 = 13231 + 13231 := 26462.$
- $102 \times 101 + 101 \times 201 = 10302 + 20301 := 30603.$
- $112 \times 101 + 101 \times 211 = 11312 + 21311 := 32623.$
- $111 \times 102 + 201 \times 111 = 11322 + 22311 := 33633.$
- $122 \times 101 + 101 \times 221 = 12322 + 22321 := 34643.$
- $132 \times 101 + 101 \times 231 = 13332 + 23331 := 36663.$
  
- $1021 \times 101 + 101 \times 1201 = 103121 + 121301 := 224422.$
  
- $10201 \times 101 + 101 \times 10201 = 1030301 + 1030301 := 2060602.$
- $10211 \times 101 + 101 \times 11201 = 1031311 + 1131301 := 2162612.$
- $10201 \times 111 + 111 \times 10201 = 1132311 + 1132311 := 2264622.$
- $10221 \times 101 + 101 \times 12201 = 1032321 + 1232301 := 2264622.$
- $11211 \times 101 + 101 \times 11211 = 1132311 + 1132311 := 2264622.$
- $10031 \times 101 + 101 \times 13001 = 1013131 + 1313101 := 2326232.$
- $11021 \times 101 + 101 \times 12011 = 1113121 + 1213111 := 2326232.$
- $10131 \times 101 + 101 \times 13101 = 1023231 + 1323201 := 2346432.$
- $11121 \times 101 + 101 \times 12111 = 1123221 + 1223211 := 2346432.$
- $10111 \times 111 + 111 \times 11011 = 1122321 + 1232211 := 2354532.$
- $10231 \times 101 + 101 \times 13201 = 1033331 + 1333301 := 2366632.$
- $11221 \times 101 + 101 \times 12211 = 1133321 + 1233311 := 2366632.$
- $10021 \times 111 + 111 \times 12001 = 1112331 + 1332111 := 2444442.$
- $10011 \times 121 + 121 \times 11001 = 1211331 + 1331121 := 2542452.$
- $11021 \times 111 + 111 \times 12011 = 1223331 + 1333221 := 2556552.$
- $10001 \times 131 + 131 \times 10001 = 1310131 + 1310131 := 2620262.$
  
- $10101 \times 131 + 131 \times 10101 = 1323231 + 1323231 := 2646462.$
- $11011 \times 121 + 121 \times 11011 = 1332331 + 1332331 := 2664662.$
- $10102 \times 101 + 101 \times 20101 = 1020302 + 2030201 := 3050503.$
- $10101 \times 102 + 201 \times 10101 = 1030302 + 2030301 := 3060603.$
- $10112 \times 101 + 101 \times 21101 = 1021312 + 2131201 := 3152513.$
- $11102 \times 101 + 101 \times 20111 = 1121302 + 2031211 := 3152513.$
- $10111 \times 201 + 102 \times 11101 = 2032311 + 1132302 := 3164613.$
- $10122 \times 101 + 101 \times 22101 = 1022322 + 2232201 := 3254523.$
- $11112 \times 101 + 101 \times 21111 = 1122312 + 2132211 := 3254523.$
- $12102 \times 101 + 101 \times 20121 = 1222302 + 2032221 := 3254523.$
- $10101 \times 112 + 211 \times 10101 = 1131312 + 2131311 := 3262623.$
- $10111 \times 102 + 201 \times 11101 = 1031322 + 2231301 := 3262623.$
- $10032 \times 101 + 101 \times 23001 = 1013232 + 2323101 := 3336333.$
- $11011 \times 102 + 201 \times 11011 = 1123122 + 2213211 := 3336333.$
- $11022 \times 101 + 101 \times 22011 = 1113222 + 2223111 := 3336333.$
- $12012 \times 101 + 101 \times 21021 = 1213212 + 2123121 := 3336333.$

- $13002 \times 101 + 101 \times 20031 = 1313202 + 2023131 := 3336333.$
- $10011 \times 211 + 112 \times 11001 = 2112321 + 1232112 := 3344433.$
- $10102 \times 111 + 111 \times 20101 = 1121322 + 2231211 := 3352533.$
- $10132 \times 101 + 101 \times 23101 = 1023332 + 2333201 := 3356533.$
- $11122 \times 101 + 101 \times 22111 = 1123322 + 2233211 := 3356533.$
- $12112 \times 101 + 101 \times 21121 = 1223312 + 2133221 := 3356533.$
- $13102 \times 101 + 101 \times 20131 = 1323302 + 2033231 := 3356533.$
- $11111 \times 102 + 201 \times 11111 = 1133322 + 2233311 := 3366633.$
- $10011 \times 112 + 211 \times 11001 = 1121232 + 2321211 := 3442443.$
- $10012 \times 111 + 111 \times 21001 = 1111332 + 2331111 := 3442443.$
- $10101 \times 122 + 221 \times 10101 = 1232322 + 2232321 := 3464643.$
- $11102 \times 111 + 111 \times 20111 = 1232322 + 2232321 := 3464643.$
- $11012 \times 111 + 111 \times 21011 = 1222332 + 2332221 := 3554553.$
- $12002 \times 111 + 111 \times 20021 = 1332222 + 2222331 := 3554553.$
- $11011 \times 112 + 211 \times 11011 = 1233232 + 2323321 := 3556553.$
- $10001 \times 132 + 231 \times 10001 = 1320132 + 2310231 := 3630363.$
- $10101 \times 132 + 231 \times 10101 = 1333332 + 2333331 := 3666663.$
- $12012 \times 111 + 111 \times 21021 = 1333332 + 2333331 := 3666663.$
- $10001 \times 103 + 301 \times 10001 = 1030103 + 3010301 := 4040404.$
- $10003 \times 101 + 101 \times 30001 = 1010303 + 3030101 := 4040404.$
- $20102 \times 101 + 101 \times 20102 = 2030302 + 2030302 := 4060604.$
- $10013 \times 101 + 101 \times 31001 = 1011313 + 3131101 := 4142414.$
- $11003 \times 101 + 101 \times 30011 = 1111303 + 3031111 := 4142414.$
- $10011 \times 301 + 103 \times 11001 = 3013311 + 1133103 := 4146414.$
- $20112 \times 101 + 101 \times 21102 = 2031312 + 2131302 := 4162614.$
- $10001 \times 113 + 311 \times 10001 = 1130113 + 3110311 := 4240424.$
- $10023 \times 101 + 101 \times 32001 = 1012323 + 3232101 := 4244424.$
- $11013 \times 101 + 101 \times 31011 = 1112313 + 3132111 := 4244424.$
- $12003 \times 101 + 101 \times 30021 = 1212303 + 3032121 := 4244424.$
- $20122 \times 101 + 101 \times 22102 = 2032322 + 2232302 := 4264624.$
- $21112 \times 101 + 101 \times 21112 = 2132312 + 2132312 := 4264624.$
- $10011 \times 103 + 301 \times 11001 = 1031133 + 3311301 := 4342434.$
- $10033 \times 101 + 101 \times 33001 = 1013333 + 3333101 := 4346434.$
- $11023 \times 101 + 101 \times 32011 = 1113323 + 3233111 := 4346434.$
- $12013 \times 101 + 101 \times 31021 = 1213313 + 3133121 := 4346434.$
- $13003 \times 101 + 101 \times 30031 = 1313303 + 3033131 := 4346434.$
- $20032 \times 101 + 101 \times 23002 = 2023232 + 2323202 := 4346434.$
- $21022 \times 101 + 101 \times 22012 = 2123222 + 2223212 := 4346434.$
- $20132 \times 101 + 101 \times 23102 = 2033332 + 2333302 := 4366634.$
- $21122 \times 101 + 101 \times 22112 = 2133322 + 2233312 := 4366634.$
- $10001 \times 123 + 321 \times 10001 = 1230123 + 3210321 := 4440444.$
- $10003 \times 111 + 111 \times 30001 = 1110333 + 3330111 := 4440444.$
- $10011 \times 212 + 212 \times 11001 = 2122332 + 2332212 := 4454544.$
- $20102 \times 111 + 111 \times 20102 = 2231322 + 2231322 := 4462644.$
- $11003 \times 111 + 111 \times 30011 = 1221333 + 3331221 := 4552554.$
- $20012 \times 111 + 111 \times 21002 = 2221332 + 2331222 := 4552554.$
- $10001 \times 133 + 331 \times 10001 = 1330133 + 3310331 := 4640464.$
- $10001 \times 232 + 232 \times 10001 = 2320232 + 2320232 := 4640464.$
- $12003 \times 111 + 111 \times 30021 = 1332333 + 3332331 := 4664664.$
- $21012 \times 111 + 111 \times 21012 = 2332332 + 2332332 := 4664664.$
- $10001 \times 203 + 302 \times 10001 = 2030203 + 3020302 := 5050505.$
- $20003 \times 101 + 101 \times 30002 = 2020303 + 3030202 := 5050505.$
- $20013 \times 101 + 101 \times 31002 = 2021313 + 3131202 := 5152515.$
- $21003 \times 101 + 101 \times 30012 = 2121303 + 3031212 := 5152515.$
- $10001 \times 213 + 312 \times 10001 = 2130213 + 3120312 := 5250525.$
- $20023 \times 101 + 101 \times 32002 = 2022323 + 3232202 := 5254525.$
- $21013 \times 101 + 101 \times 31012 = 2122313 + 3132212 := 5254525.$
- $22003 \times 101 + 101 \times 30022 = 2222303 + 3032222 := 5254525.$
- $10011 \times 302 + 203 \times 11001 = 3023322 + 2233203 := 5256525.$
- $10011 \times 203 + 302 \times 11001 = 2032233 + 3322302 := 5354535.$
- $20033 \times 101 + 101 \times 33002 = 2023333 + 3333202 := 5356535.$
- $21023 \times 101 + 101 \times 32012 = 2123323 + 3233212 := 5356535.$
- $22013 \times 101 + 101 \times 31022 = 2223313 + 3133222 := 5356535.$
- $23003 \times 101 + 101 \times 30032 = 2323303 + 3033232 := 5356535.$
- $10001 \times 223 + 322 \times 10001 = 2230223 + 3220322 := 5450545.$
- $20003 \times 111 + 111 \times 30002 = 2220333 + 3330222 := 5550555.$
- $10001 \times 233 + 332 \times 10001 = 2330233 + 3320332 := 5650565.$
- $21003 \times 111 + 111 \times 30012 = 2331333 + 3331332 := 5662665.$
- $10001 \times 303 + 303 \times 10001 = 3030303 + 3030303 := 6060606.$
- $30003 \times 101 + 101 \times 30003 = 3030303 + 3030303 := 6060606.$
- $30013 \times 101 + 101 \times 31003 = 3031313 + 3131303 := 6162616.$
- $10001 \times 313 + 313 \times 10001 = 3130313 + 3130313 := 6260626.$
- $30023 \times 101 + 101 \times 32003 = 3032323 + 3232303 := 6264626.$
- $31013 \times 101 + 101 \times 31013 = 3132313 + 3132313 := 6264626.$
- $10011 \times 303 + 303 \times 11001 = 3033333 + 3333303 := 6366636.$
- $30033 \times 101 + 101 \times 33003 = 3033333 + 3333303 := 6366636.$
- $31023 \times 101 + 101 \times 32013 = 3133323 + 3233313 := 6366636.$
- $10001 \times 323 + 323 \times 10001 = 3230323 + 3230323 := 6460646.$
- $10001 \times 333 + 333 \times 10001 = 3330333 + 3330333 := 6660666.$
- $30003 \times 111 + 111 \times 30003 = 3330333 + 3330333 := 6660666.$
- $1101 \times 1011 + 1101 \times 1011 = 1113111 + 1113111 := 2262222.$
- $1031 \times 1001 + 1001 \times 1301 = 1032031 + 1302301 := 2334332.$
- $1111 \times 1011 + 1101 \times 1111 = 1123221 + 1223211 := 2346432.$
- $1021 \times 1011 + 1101 \times 1201 = 1032231 + 1322301 := 2354532.$
- $1131 \times 1001 + 1001 \times 1311 = 1132131 + 1312311 := 2444442.$
- $1121 \times 1011 + 1101 \times 1211 = 1133331 + 1333311 := 2466642.$
- $1231 \times 1001 + 1001 \times 1321 = 1232231 + 1322321 := 2554552.$
- $1331 \times 1001 + 1001 \times 1331 = 1332331 + 1332331 := 2664662.$
- $1002 \times 1001 + 1001 \times 2001 = 1003002 + 2003001 := 3006003.$
- $1012 \times 1001 + 1001 \times 2101 = 1013012 + 2103101 := 3116113.$
- $1102 \times 1001 + 1001 \times 2011 = 1103102 + 2013011 := 3116113.$
- $1101 \times 1002 + 2001 \times 1011 = 1103202 + 2023011 := 3126213.$
- $1011 \times 1002 + 2001 \times 1101 = 1013022 + 2203101 := 3216123.$
- $1022 \times 1001 + 1001 \times 2201 = 1023022 + 2203201 := 3226223.$
- $1112 \times 1001 + 1001 \times 2111 = 1113112 + 2113111 := 3226223.$
- $1202 \times 1001 + 1001 \times 2021 = 1203202 + 2023021 := 3226223.$
- $1102 \times 1101 + 1101 \times 2011 = 1213302 + 2033121 := 3246423.$
- $1012 \times 1011 + 1101 \times 2101 = 1023132 + 2313201 := 3336333.$
- $1032 \times 1001 + 1001 \times 2301 = 1033032 + 2303301 := 3336333.$
- $1111 \times 1002 + 2001 \times 1111 = 1113222 + 2223111 := 3336333.$
- $1122 \times 1001 + 1001 \times 2211 = 1123122 + 2213211 := 3336333.$
- $1212 \times 1001 + 1001 \times 2121 = 1213212 + 2123121 := 3336333.$
- $1302 \times 1001 + 1001 \times 2031 = 1303302 + 2033031 := 3336333.$
- $1132 \times 1001 + 1001 \times 2311 = 1133132 + 2313311 := 3446443.$
- $1222 \times 1001 + 1001 \times 2221 = 1223222 + 2223221 := 3446443.$
- $1312 \times 1001 + 1001 \times 2131 = 1313312 + 2133131 := 3446443.$
- $1232 \times 1001 + 1001 \times 2321 = 1233232 + 2323321 := 3556553.$
- $1322 \times 1001 + 1001 \times 2231 = 1323322 + 2233231 := 3556553.$
- $1332 \times 1001 + 1001 \times 2331 = 1333332 + 2333331 := 3666663.$
- $10301 \times 1001 + 1001 \times 10301 = 10311301 + 10311301 := 20622602.$
- $10201 \times 1011 + 1101 \times 10201 = 10313211 + 11231301 := 21544512.$
- $10311 \times 1001 + 1001 \times 11301 = 10321311 + 11312301 := 21633612.$
- $10021 \times 1001 + 1001 \times 12001 = 10031021 + 12013001 := 22044022.$
- $10121 \times 1001 + 1001 \times 12101 = 10131121 + 12113101 := 22244222.$
- $10111 \times 1101 + 1011 \times 11101 = 11132211 + 11223111 := 22355322.$
- $10101 \times 1021 + 1201 \times 10101 = 10313121 + 12131301 := 22444422.$



- $10221 \times 1001 + 1001 \times 12201 = 10231221 + 12213201 := 22444422.$
- $10321 \times 1001 + 1001 \times 12301 = 10331321 + 12313301 := 22644622.$
- $11311 \times 1001 + 1001 \times 11311 = 11322311 + 11322311 := 22644622.$
- $10211 \times 1011 + 1101 \times 11201 = 10323321 + 12332301 := 22655622.$
- $10201 \times 1111 + 1111 \times 10201 = 11333311 + 11333311 := 22666622.$
- $11021 \times 1001 + 1001 \times 12011 = 11032021 + 12023011 := 23055032.$
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- $10011 \times 1201 + 1021 \times 11001 = 12023211 + 11232021 := 23255232.$
- $11011 \times 1011 + 1101 \times 11011 = 11132121 + 12123111 := 23255232.$
- $11121 \times 1001 + 1001 \times 12111 = 11132121 + 12123111 := 23255232.$
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- $12121 \times 1001 + 1001 \times 12121 = 12133121 + 12133121 := 24266242.$
- $10001 \times 1131 + 1311 \times 10001 = 11311131 + 13111311 := 24422442.$
- $10011 \times 1211 + 1121 \times 11001 = 12123321 + 12332121 := 24455442.$
- $10021 \times 1111 + 1111 \times 12001 = 11133331 + 13333111 := 24466442.$
- $11011 \times 1111 + 1111 \times 11011 = 12233221 + 12233221 := 24466442.$
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- $10302 \times 1001 + 1001 \times 20301 = 10312302 + 20321301 := 30633603.$
- $11002 \times 1001 + 1001 \times 20011 = 11013002 + 20031011 := 31044013.$
- $10011 \times 2001 + 1002 \times 11001 = 20032011 + 11023002 := 31055013.$
- $11102 \times 1001 + 1001 \times 20111 = 11113102 + 20131111 := 31244213.$
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- $10101 \times 1102 + 2011 \times 10101 = 11131302 + 20313111 := 31444413.$
- $10102 \times 1101 + 1011 \times 20101 = 11122302 + 20322111 := 31444413.$
- $11202 \times 1001 + 1001 \times 20211 = 11213202 + 20231211 := 31444413.$
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- $10011 \times 2011 + 1102 \times 11001 = 20132121 + 12123102 := 32255223.$
- $10012 \times 1101 + 1011 \times 21001 = 11023212 + 21232011 := 32255223.$
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- $10111 \times 1002 + 2001 \times 11101 = 10131222 + 22213101 := 32344323.$
- $11002 \times 1101 + 1011 \times 20011 = 12113202 + 20231121 := 32344323.$
- $10222 \times 1001 + 1001 \times 22201 = 10232222 + 22223201 := 32455423.$

- $11212 \times 1001 + 1001 \times 21211 = 11223212 + 21232211 := 32455423.$
- $10112 \times 1101 + 1011 \times 21101 = 11133312 + 21333111 := 32466423.$
- $10101 \times 1022 + 2201 \times 10101 = 10323222 + 22232301 := 32555523.$
- $10101 \times 1112 + 2111 \times 10101 = 11232312 + 21323211 := 32555523.$
- $11102 \times 1101 + 1011 \times 20111 = 12223302 + 20332221 := 32555523.$
- $10111 \times 2011 + 1102 \times 11101 = 20333221 + 12233302 := 32566523.$
- $10322 \times 1001 + 1001 \times 22301 = 10332322 + 22323301 := 32655623.$
- $11312 \times 1001 + 1001 \times 21311 = 11323312 + 21332311 := 32655623.$
- $11011 \times 1002 + 2001 \times 11011 = 11033022 + 22033011 := 33066033.$
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- $11002 \times 1011 + 1101 \times 20011 = 11123022 + 22032111 := 33155133.$
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- $10012 \times 1011 + 1101 \times 21001 = 10122132 + 23122101 := 33244233.$
- $11122 \times 1001 + 1001 \times 22111 = 11133122 + 22133111 := 33266233.$
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- $11111 \times 1002 + 2001 \times 11111 = 11133222 + 22233111 := 33366333.$
- $10011 \times 2021 + 1202 \times 11001 = 20232231 + 13223202 := 33455433.$
- $10112 \times 1011 + 1101 \times 21101 = 10223232 + 23232201 := 33455433.$
- $11222 \times 1001 + 1001 \times 22211 = 11233222 + 22233211 := 33466433.$
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- $10111 \times 1012 + 2101 \times 11101 = 10232332 + 23323201 := 33555533.$
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- $10011 \times 1202 + 2021 \times 11001 = 12033222 + 22233021 := 34266243.$
- $11012 \times 1011 + 1101 \times 21011 = 11133132 + 23133111 := 34266243.$
- $10011 \times 1112 + 2111 \times 11001 = 11132232 + 23223111 := 34355343.$
- $10001 \times 1132 + 2311 \times 10001 = 11321132 + 23112311 := 34433443.$
- $10001 \times 1312 + 2131 \times 10001 = 13121312 + 21312131 := 34433443.$
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- $11002 \times 1111 + 1111 \times 20011 = 12223222 + 22232221 := 34455443.$
- $10011 \times 2121 + 1212 \times 11001 = 21233331 + 13333212 := 34566543.$
- $10011 \times 1212 + 2121 \times 11001 = 12133332 + 23333121 := 35466453.$
- $10001 \times 1232 + 2321 \times 10001 = 12321232 + 23212321 := 35533553.$
- $10001 \times 1322 + 2231 \times 10001 = 13221322 + 22312231 := 35533553.$
- $10001 \times 1332 + 2331 \times 10001 = 13321332 + 23312331 := 36633663.$
- $10001 \times 1003 + 3001 \times 10001 = 10031003 + 30013001 := 40044004.$
- $10003 \times 1001 + 1001 \times 30001 = 10013003 + 30031001 := 40044004.$
- $10103 \times 1001 + 1001 \times 30101 = 10113103 + 30131101 := 40244204.$
- $10101 \times 1003 + 3001 \times 10101 = 10131303 + 30313101 := 40444404.$
- $10203 \times 1001 + 1001 \times 30201 = 10213203 + 30231201 := 40444404.$
- $10303 \times 1001 + 1001 \times 30301 = 10313303 + 30331301 := 40644604.$
- $20302 \times 1001 + 1001 \times 20302 = 20322302 + 20322302 := 40644604.$
- $10013 \times 1001 + 1001 \times 31001 = 10023013 + 31032001 := 41055014.$
- $20012 \times 1001 + 1001 \times 21002 = 20032012 + 21023002 := 41055014.$
- $10001 \times 1013 + 3101 \times 10001 = 10131013 + 31013101 := 41144114.$
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- $10113 \times 1001 + 1001 \times 31101 = 10123113 + 31132101 := 41255214.$
- $20112 \times 1001 + 1001 \times 21102 = 20132112 + 21123102 := 41255214.$
- $10003 \times 1101 + 1011 \times 30001 = 11013303 + 30331011 := 41344314.$
- $10213 \times 1001 + 1001 \times 31201 = 10223213 + 31232201 := 41455414.$
- $20212 \times 1001 + 1001 \times 21202 = 20232212 + 21223202 := 41455414.$

- $10101 \times 1013 + 3101 \times 10101 = 10232313 + 31323201 := 41555514.$
- $10101 \times 2012 + 2102 \times 10101 = 20323212 + 21232302 := 41555514.$
- $10313 \times 1001 + 1001 \times 31301 = 10323313 + 31332301 := 41655614.$
- $20312 \times 1001 + 1001 \times 21302 = 20332312 + 21323302 := 41655614.$
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- $20012 \times 1101 + 1011 \times 21002 = 22033212 + 21233022 := 43266234.$
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- $20102 \times 1111 + 1111 \times 20102 = 22333322 + 22333322 := 44666644.$
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- $10001 \times 1323 + 3231 \times 10001 = 13231323 + 32313231 := 45544554.$
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- $10001 \times 1333 + 3331 \times 10001 = 13331333 + 33313331 := 46644664.$
- $10001 \times 2332 + 2332 \times 10001 = 23322332 + 23322332 := 46644664.$
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- $20003 \times 1001 + 1001 \times 30002 = 20023003 + 30032002 := 50055005.$
- $30102 \times 1001 + 1001 \times 20103 = 30132102 + 20123103 := 50255205.$
- $20203 \times 1001 + 1001 \times 30202 = 20223203 + 30232202 := 50455405.$
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- $20303 \times 1001 + 1001 \times 30302 = 20323303 + 30332302 := 50655605.$
- $20013 \times 1001 + 1001 \times 31002 = 20033013 + 31033002 := 51066015.$
- $10001 \times 2013 + 3102 \times 10001 = 20132013 + 31023102 := 51155115.$
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- $20113 \times 1001 + 1001 \times 31102 = 20133113 + 31133102 := 51266215.$
- $20213 \times 1001 + 1001 \times 31202 = 20233213 + 31233202 := 51466415.$
- $10101 \times 2013 + 3102 \times 10101 = 20333313 + 31333302 := 51666615.$
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- $10001 \times 2023 + 3202 \times 10001 = 20232023 + 32023202 := 52255225.$
- $10001 \times 2113 + 3112 \times 10001 = 21132113 + 31123112 := 52255225.$

- $10001 \times 2203 + 3022 \times 10001 = 22032203 + 30223022 := 52255225.$
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- $20003 \times 1011 + 1101 \times 30002 = 20223033 + 33032202 := 53255235.$
- $10001 \times 2033 + 3302 \times 10001 = 20332033 + 33023302 := 53355335.$
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- $10001 \times 2213 + 3122 \times 10001 = 22132213 + 31223122 := 53355335.$
- $10001 \times 2303 + 3032 \times 10001 = 23032303 + 30323032 := 53355335.$
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- $10001 \times 2323 + 3232 \times 10001 = 23232323 + 32323232 := 55555555.$
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- $30103 \times 1001 + 1001 \times 30103 = 30133103 + 30133103 := 60266206.$
- $30203 \times 1001 + 1001 \times 30203 = 30233203 + 30233203 := 60466406.$
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- $10001 \times 3023 + 3203 \times 10001 = 30233023 + 32033203 := 62266226.$
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- $11001 \times 10111 + 11101 \times 10011 = 111231111 + 111132111 := 222363222.$
- $10121 \times 10101 + 10101 \times 12101 = 102232221 + 122232201 := 224464422.$
- $11001 \times 10211 + 11201 \times 10011 = 112331211 + 112133211 := 224464422.$
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- $10031 \times 10001 + 10001 \times 13001 = 100320031 + 130023001 := 230343032.$
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- $10021 \times 10011 + 11001 \times 12001 = 100320231 + 132023001 := 232343232.$
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- $11021 \times 10101 + 10101 \times 12011 = 111323121 + 121323111 := 232646232.$
- $11111 \times 10011 + 11001 \times 11111 = 111232221 + 122232111 := 233464332.$
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- $10231 \times 10001 + 10001 \times 13201 = 102320231 + 132023201 := 234343432.$
- $10121 \times 10011 + 11001 \times 12101 = 101321331 + 133123101 := 234444432.$
- $10111 \times 10021 + 12001 \times 11101 = 101322331 + 133223101 := 234545432.$
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- $11211 \times 10011 + 11001 \times 11211 = 112233321 + 123332211 := 235565532.$
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- $11031 \times 10001 + 10001 \times 13011 = 110321031 + 130123011 := 240444042.$
- $11131 \times 10001 + 10001 \times 13111 = 111321131 + 131123111 := 242444242.$
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- $11231 \times 10001 + 10001 \times 13211 = 112321231 + 132123211 := 244444442.$
- $11121 \times 10011 + 11001 \times 12111 = 111332331 + 133233111 := 244565442.$
- $11331 \times 10001 + 10001 \times 13311 = 113321331 + 133123311 := 246444642.$
- $12321 \times 10001 + 10001 \times 12321 = 123222321 + 123222321 := 246444642.$
- $12031 \times 10001 + 10001 \times 13021 = 120322031 + 130223021 := 250545052.$
- $12131 \times 10001 + 10001 \times 13121 = 121322131 + 131223121 := 252545252.$
- $12231 \times 10001 + 10001 \times 13221 = 122322231 + 132223221 := 254545452.$
- $12331 \times 10001 + 10001 \times 13321 = 123322331 + 133223321 := 256545652.$
- $13031 \times 10001 + 10001 \times 13031 = 130323031 + 130323031 := 260646062.$
- $13131 \times 10001 + 10001 \times 13131 = 131323131 + 131323131 := 262646262.$
- $13231 \times 10001 + 10001 \times 13231 = 132323231 + 132323231 := 264646462.$
- $13331 \times 10001 + 10001 \times 13331 = 133323331 + 133323331 := 266646662.$
- $10002 \times 10001 + 10001 \times 20001 = 100030002 + 200030001 := 300060003.$
- $10102 \times 10001 + 10001 \times 20101 = 101030102 + 201030101 := 302060203.$
- $10101 \times 10002 + 20001 \times 10101 = 101030202 + 202030101 := 303060303.$
- $10202 \times 10001 + 10001 \times 20201 = 102030202 + 202030201 := 304060403.$
- $10302 \times 10001 + 10001 \times 20301 = 103030302 + 203030301 := 306060603.$
- $10012 \times 10001 + 10001 \times 21001 = 100130012 + 210031001 := 310161013.$
- $11002 \times 10001 + 10001 \times 20011 = 110031002 + 200130011 := 310161013.$
- $11001 \times 10002 + 20001 \times 10011 = 110032002 + 200230011 := 310262013.$
- $10112 \times 10001 + 10001 \times 21101 = 101130112 + 211031101 := 312161213.$
- $11102 \times 10001 + 10001 \times 20111 = 111031102 + 201130111 := 312161213.$
- $11001 \times 10102 + 20101 \times 10011 = 111132102 + 201231111 := 312363213.$
- $10101 \times 10012 + 21001 \times 10101 = 101131212 + 212131101 := 313262313.$
- $11002 \times 10101 + 10101 \times 20011 = 111131202 + 202131111 := 313262313.$
- $11101 \times 10002 + 20001 \times 10111 = 111032202 + 202230111 := 313262313.$
- $10212 \times 10001 + 10001 \times 21201 = 102130212 + 212031201 := 314161413.$
- $11202 \times 10001 + 10001 \times 20211 = 112031202 + 202130211 := 314161413.$
- $11001 \times 10202 + 20201 \times 10011 = 112232202 + 202232211 := 314464413.$
- $10312 \times 10001 + 10001 \times 21301 = 103130312 + 213031301 := 316161613.$
- $11302 \times 10001 + 10001 \times 20311 = 113031302 + 203130311 := 316161613.$
- $11001 \times 10302 + 20301 \times 10011 = 113332302 + 203233311 := 316565613.$
- $10011 \times 10002 + 20001 \times 11001 = 100130022 + 220031001 := 320161023.$
- $10022 \times 10001 + 10001 \times 22001 = 100230022 + 220032001 := 320262023.$
- $11012 \times 10001 + 10001 \times 21011 = 110131012 + 210131011 := 320262023.$
- $12002 \times 10001 + 10001 \times 20021 = 120032002 + 200230021 := 320262023.$
- $11002 \times 11001 + 10011 \times 20011 = 121033002 + 200330121 := 321363123.$
- $10102 \times 10011 + 11001 \times 20101 = 101131122 + 221131101 := 322262223.$
- $10122 \times 10001 + 10001 \times 22101 = 101230122 + 221032101 := 322262223.$
- $11112 \times 10001 + 10001 \times 21111 = 111131112 + 211131111 := 322262223.$
- $12102 \times 10001 + 10001 \times 20121 = 121032102 + 201230121 := 322262223.$
- $10111 \times 10002 + 20001 \times 11101 = 101130222 + 222031101 := 323161323.$
- $10101 \times 10022 + 22001 \times 10101 = 101232222 + 222232101 := 323464323.$

- $11012 \times 10101 + 10101 \times 21011 = 111232212 + 212232111 := 323464323.$
- $11102 \times 11001 + 10011 \times 20111 = 122133102 + 201331221 := 323464323.$
- $12002 \times 10101 + 10101 \times 20021 = 121232202 + 202232121 := 323464323.$
- $10222 \times 10001 + 10001 \times 22201 = 102230222 + 222032201 := 324262423.$
- $11212 \times 10001 + 10001 \times 21211 = 112131212 + 212131211 := 324262423.$
- $12202 \times 10001 + 10001 \times 20221 = 122032202 + 202230221 := 324262423.$
- $10202 \times 10011 + 11001 \times 20201 = 102132222 + 222231201 := 324363423.$
- $11101 \times 11002 + 20011 \times 10111 = 122133202 + 202331221 := 324464423.$
- $11202 \times 11001 + 10011 \times 20211 = 123233202 + 202332321 := 325565523.$
- $10322 \times 10001 + 10001 \times 22301 = 103230322 + 223032301 := 326262623.$
- $11312 \times 10001 + 10001 \times 21311 = 113131312 + 213131311 := 326262623.$
- $12302 \times 10001 + 10001 \times 20321 = 123032302 + 203230321 := 326262623.$
- $22301 \times 10001 + 10001 \times 10322 = 223032301 + 103230322 := 326262623.$
- $10302 \times 10011 + 11001 \times 20301 = 103133322 + 223331301 := 326464623.$
- $10032 \times 10001 + 10001 \times 23001 = 100330032 + 230033001 := 330363033.$
- $11011 \times 10002 + 20001 \times 11011 = 110132022 + 220231011 := 330363033.$
- $11022 \times 10001 + 10001 \times 22011 = 110231022 + 220132011 := 330363033.$
- $12012 \times 10001 + 10001 \times 21021 = 120132012 + 210231021 := 330363033.$
- $13002 \times 10001 + 10001 \times 20031 = 130033002 + 200330031 := 330363033.$
- $10012 \times 10011 + 11001 \times 21001 = 100230132 + 231032001 := 331262133.$
- $10132 \times 10001 + 10001 \times 23101 = 101330132 + 231033101 := 332363233.$
- $11122 \times 10001 + 10001 \times 22111 = 111231122 + 221132111 := 332363233.$
- $12112 \times 10001 + 10001 \times 21121 = 121132112 + 211231121 := 332363233.$
- $13102 \times 10001 + 10001 \times 20131 = 131033102 + 201330131 := 332363233.$
- $11011 \times 10102 + 20101 \times 11011 = 111233122 + 221332111 := 332565233.$
- $10112 \times 10011 + 11001 \times 21101 = 101231232 + 232132101 := 333363333.$
- $11111 \times 10002 + 20001 \times 11111 = 111132222 + 222231111 := 333363333.$
- $10101 \times 10032 + 23001 \times 10101 = 101333232 + 232333101 := 333666333.$
- $11022 \times 10101 + 10101 \times 22011 = 111333222 + 222333111 := 333666333.$
- $12012 \times 10101 + 10101 \times 21021 = 121333212 + 212333121 := 333666333.$
- $13002 \times 10101 + 10101 \times 20031 = 131333202 + 202333131 := 333666333.$
- $10111 \times 10012 + 21001 \times 11101 = 101231332 + 233132101 := 334363433.$
- $10232 \times 10001 + 10001 \times 23201 = 102330232 + 232033201 := 334363433.$
- $11222 \times 10001 + 10001 \times 22211 = 112231222 + 222132211 := 334363433.$
- $12212 \times 10001 + 10001 \times 21221 = 122132212 + 212231221 := 334363433.$
- $13202 \times 10001 + 10001 \times 20231 = 132033202 + 202330231 := 334363433.$
- $10212 \times 10011 + 11001 \times 21201 = 102232332 + 233232201 := 335464533.$
- $10332 \times 10001 + 10001 \times 23301 = 103330332 + 233033301 := 336363633.$
- $11322 \times 10001 + 10001 \times 22311 = 113231322 + 223132311 := 336363633.$
- $12312 \times 10001 + 10001 \times 21321 = 123132312 + 213231321 := 336363633.$
- $13302 \times 10001 + 10001 \times 20331 = 133033302 + 203330331 := 336363633.$
- $11032 \times 10001 + 10001 \times 23011 = 110331032 + 230133011 := 340464043.$
- $12022 \times 10001 + 10001 \times 22021 = 120232022 + 220232021 := 340464043.$
- $13012 \times 10001 + 10001 \times 21031 = 130133012 + 210331031 := 340464043.$
- $11132 \times 10001 + 10001 \times 23111 = 111331132 + 231133111 := 342464243.$
- $12122 \times 10001 + 10001 \times 22121 = 121232122 + 221232121 := 342464243.$
- $13112 \times 10001 + 10001 \times 21131 = 131133112 + 211331131 := 342464243.$
- $11232 \times 10001 + 10001 \times 23211 = 112331232 + 232133211 := 344464443.$
- $12222 \times 10001 + 10001 \times 22221 = 122232222 + 222232221 := 344464443.$
- $13212 \times 10001 + 10001 \times 21231 = 132133212 + 212331231 := 344464443.$
- $11332 \times 10001 + 10001 \times 23311 = 113331332 + 233133311 := 346464643.$
- $12322 \times 10001 + 10001 \times 22321 = 123232322 + 223232321 := 346464643.$
- $13312 \times 10001 + 10001 \times 21331 = 133133312 + 213331331 := 346464643.$
- $12032 \times 10001 + 10001 \times 23021 = 120332032 + 230233021 := 350565053.$

- $13022 \times 10001 + 10001 \times 22031 = 130233022 + 220332031 := 350565053.$
- $12132 \times 10001 + 10001 \times 23121 = 121332132 + 231233121 := 352565253.$
- $13122 \times 10001 + 10001 \times 22131 = 131233122 + 221332131 := 352565253.$
- $12232 \times 10001 + 10001 \times 23221 = 122332232 + 232233221 := 354565453.$
- $13222 \times 10001 + 10001 \times 22231 = 132233222 + 222332231 := 354565453.$
- $12332 \times 10001 + 10001 \times 23321 = 123332332 + 233233321 := 356565653.$
- $13322 \times 10001 + 10001 \times 22331 = 133233322 + 223332331 := 356565653.$
- $13032 \times 10001 + 10001 \times 23031 = 130333032 + 230333031 := 360666063.$
- $13132 \times 10001 + 10001 \times 23131 = 131333132 + 231333131 := 362666263.$
- $13232 \times 10001 + 10001 \times 23231 = 132333232 + 232333231 := 364666463.$
- $13332 \times 10001 + 10001 \times 23331 = 133333332 + 233333331 := 366666663.$

#### 4.4. Digits 0, 1, 2, 3 and 4.

Below are examples of *palindromic-type* numbers with digits 0, 1, 2, 3 and 4 on both sides of the expression. In this case the final sum in each case is palindrome.

- |   |  |
|---|--|
| • $102 \times 21 + 12 \times 201 = 2142 + 2412 := 4554.$      | • $2004 \times 11 + 11 \times 4002 = 22044 + 44022 := 66066.$      |
| • $102 \times 12 + 21 \times 201 = 1224 + 4221 := 5445.$      | • $2104 \times 11 + 11 \times 4012 = 23144 + 44132 := 67276.$      |
| • $101 \times 14 + 41 \times 101 = 1414 + 4141 := 5555.$      | • $3013 \times 11 + 11 \times 3103 = 33143 + 34133 := 67276.$      |
| • $104 \times 11 + 11 \times 401 = 1144 + 4411 := 5555.$      | • $2012 \times 12 + 21 \times 2102 = 24144 + 44142 := 68286.$      |
| • $101 \times 24 + 42 \times 101 = 2424 + 4242 := 6666.$      | • $1102 \times 22 + 22 \times 2011 = 24244 + 44242 := 68486.$      |
| • $102 \times 22 + 22 \times 201 = 2244 + 4422 := 6666.$      | • $2204 \times 11 + 11 \times 4022 = 24244 + 44242 := 68486.$      |
| • $202 \times 12 + 21 \times 202 = 2424 + 4242 := 6666.$      | • $1001 \times 34 + 43 \times 1001 = 34034 + 43043 := 77077.$      |
| • $204 \times 11 + 11 \times 402 = 2244 + 4422 := 6666.$      | • $3004 \times 11 + 11 \times 4003 = 33044 + 44033 := 77077.$      |
| • $101 \times 34 + 43 \times 101 = 3434 + 4343 := 7777.$      | • $3104 \times 11 + 11 \times 4013 = 34144 + 44143 := 78287.$      |
| • $304 \times 11 + 11 \times 403 = 3344 + 4433 := 7777.$      | • $1001 \times 44 + 44 \times 1001 = 44044 + 44044 := 88088.$      |
| • $101 \times 44 + 44 \times 101 = 4444 + 4444 := 8888.$      | • $2002 \times 22 + 22 \times 2002 = 44044 + 44044 := 88088.$      |
| • $202 \times 22 + 22 \times 202 = 4444 + 4444 := 8888.$      | • $4004 \times 11 + 11 \times 4004 = 44044 + 44044 := 88088.$      |
| • $404 \times 11 + 11 \times 404 = 4444 + 4444 := 8888.$      |  |
| • $1031 \times 11 + 11 \times 1301 = 11341 + 14311 := 25652.$ | • $10401 \times 11 + 11 \times 10401 = 114411 + 114411 := 228822.$ |
| • $1022 \times 11 + 11 \times 2201 = 11242 + 24211 := 35453.$ | • $10311 \times 11 + 11 \times 11301 = 113421 + 124311 := 237732.$ |
| • $1021 \times 21 + 12 \times 1201 = 21441 + 14412 := 35853.$ | • $10221 \times 11 + 11 \times 12201 = 112431 + 134211 := 246642.$ |
| • $1302 \times 11 + 11 \times 2031 = 14322 + 22341 := 36663.$ | • $10031 \times 11 + 11 \times 13001 = 110341 + 143011 := 253352.$ |
| • $1002 \times 21 + 12 \times 2001 = 21042 + 24012 := 45054.$ | • $10131 \times 11 + 11 \times 13101 = 111441 + 144111 := 255552.$ |
| • $1013 \times 11 + 11 \times 3101 = 11143 + 34111 := 45254.$ | • $11031 \times 11 + 11 \times 13011 = 121341 + 143121 := 264462.$ |
| • $1011 \times 31 + 13 \times 1101 = 31341 + 14313 := 45654.$ | • $12031 \times 11 + 11 \times 13021 = 132341 + 143231 := 275572.$ |
| • $1011 \times 22 + 22 \times 1101 = 22242 + 24222 := 46464.$ | • $13031 \times 11 + 11 \times 13031 = 143341 + 143341 := 286682.$ |
| • $2022 \times 11 + 11 \times 2202 = 22242 + 24222 := 46464.$ | • $10201 \times 12 + 21 \times 10201 = 122412 + 214221 := 336633.$ |
| • $1011 \times 13 + 31 \times 1101 = 13143 + 34131 := 47274.$ | • $10402 \times 11 + 11 \times 20401 = 114422 + 224411 := 338833.$ |
| • $1102 \times 21 + 12 \times 2011 = 23142 + 24132 := 47274.$ | • $10312 \times 11 + 11 \times 21301 = 113432 + 234311 := 347743.$ |
| • $1303 \times 11 + 11 \times 3031 = 14333 + 33341 := 47674.$ | • $11302 \times 11 + 11 \times 20311 = 124322 + 223421 := 347743.$ |
| • $1002 \times 12 + 21 \times 2001 = 12024 + 42021 := 54045.$ | • $10211 \times 21 + 12 \times 11201 = 214431 + 134412 := 348843.$ |
| • $1001 \times 14 + 41 \times 1001 = 14014 + 41041 := 55055.$ | • $10022 \times 11 + 11 \times 22001 = 110242 + 242011 := 352253.$ |
| • $1004 \times 11 + 11 \times 4001 = 11044 + 44011 := 55055.$ | • $10021 \times 21 + 12 \times 12001 = 210441 + 144012 := 354453.$ |
| • $1102 \times 12 + 21 \times 2011 = 13224 + 42231 := 55455.$ | • $10122 \times 11 + 11 \times 22101 = 111342 + 243111 := 354453.$ |
| • $1012 \times 12 + 21 \times 2101 = 12144 + 44121 := 56265.$ | • $10222 \times 11 + 11 \times 22201 = 112442 + 244211 := 356653.$ |
| • $1104 \times 11 + 11 \times 4011 = 12144 + 44121 := 56265.$ | • $12202 \times 11 + 11 \times 20221 = 134222 + 222431 := 356653.$ |
| • $2013 \times 11 + 11 \times 3102 = 22143 + 34122 := 56265.$ | • $11022 \times 11 + 11 \times 22011 = 121242 + 242121 := 363363.$ |
| • $1202 \times 12 + 21 \times 2021 = 14424 + 42441 := 56865.$ | • $13002 \times 11 + 11 \times 20031 = 143022 + 220341 := 363363.$ |
| • $1204 \times 11 + 11 \times 4021 = 13244 + 44231 := 57475.$ | • $13102 \times 11 + 11 \times 20131 = 144122 + 221441 := 365563.$ |
| • $2203 \times 11 + 11 \times 3022 = 24233 + 33242 := 57475.$ | • $12022 \times 11 + 11 \times 22021 = 132242 + 242231 := 374473.$ |
| • $1304 \times 11 + 11 \times 4031 = 14344 + 44341 := 58685.$ | • $13012 \times 11 + 11 \times 21031 = 143132 + 231341 := 374473.$ |
| • $1001 \times 24 + 42 \times 1001 = 24024 + 42042 := 66066.$ | • $11021 \times 21 + 12 \times 12011 = 231441 + 144132 := 375573.$ |
| • $1002 \times 22 + 22 \times 2001 = 22044 + 44022 := 66066.$ | • $13022 \times 11 + 11 \times 22031 = 143242 + 242341 := 385583.$ |
| • $2002 \times 12 + 21 \times 2002 = 24024 + 42042 := 66066.$ | • $10201 \times 22 + 22 \times 10201 = 224422 + 224422 := 448844.$ |
|   | • $10403 \times 11 + 11 \times 30401 = 114433 + 334411 := 448844.$ |

- $20402 \times 11 + 11 \times 20402 = 224422 + 224422 := 448844.$
- $10002 \times 21 + 12 \times 20001 = 210042 + 240012 := 450054.$
- $10013 \times 11 + 11 \times 31001 = 110143 + 341011 := 451154.$
- $10011 \times 31 + 13 \times 11001 = 310341 + 143013 := 453354.$
- $10102 \times 21 + 12 \times 20101 = 212142 + 241212 := 453354.$
- $10113 \times 11 + 11 \times 31101 = 111243 + 342111 := 453354.$
- $10213 \times 11 + 11 \times 31201 = 112343 + 343211 := 455554.$
- $10202 \times 21 + 12 \times 20201 = 214242 + 242412 := 456654.$
- $10111 \times 31 + 13 \times 11101 = 313441 + 144313 := 457754.$
- $10313 \times 11 + 11 \times 31301 = 113443 + 344311 := 457754.$
- $11303 \times 11 + 11 \times 30311 = 124333 + 333421 := 457754.$
- $20312 \times 11 + 11 \times 21302 = 223432 + 234322 := 457754.$
- $10011 \times 22 + 22 \times 11001 = 220242 + 242022 := 462264.$
- $11013 \times 11 + 11 \times 31011 = 121143 + 341121 := 462264.$
- $20022 \times 11 + 11 \times 22002 = 220242 + 242022 := 462264.$
- $20122 \times 11 + 11 \times 22102 = 221342 + 243122 := 464464.$
- $10111 \times 22 + 22 \times 11101 = 222442 + 244222 := 466664.$
- $12203 \times 11 + 11 \times 30221 = 134233 + 332431 := 466664.$
- $20222 \times 11 + 11 \times 22202 = 222442 + 244222 := 466664.$
- $10011 \times 13 + 31 \times 11001 = 130143 + 341031 := 471174.$
- $11002 \times 21 + 12 \times 20011 = 231042 + 240132 := 471174.$
- $12013 \times 11 + 11 \times 31021 = 132143 + 341231 := 473374.$
- $13003 \times 11 + 11 \times 30031 = 143033 + 330341 := 473374.$
- $21022 \times 11 + 11 \times 22012 = 231242 + 242132 := 473374.$
- $11102 \times 21 + 12 \times 20111 = 233142 + 241332 := 474474.$
- $10111 \times 13 + 31 \times 11101 = 131443 + 344131 := 475574.$
- $13103 \times 11 + 11 \times 30131 = 144133 + 331441 := 475574.$
- $11011 \times 13 + 31 \times 11011 = 143143 + 341341 := 484484.$
- $11011 \times 22 + 22 \times 11011 = 242242 + 242242 := 484484.$
- $13013 \times 11 + 11 \times 31031 = 143143 + 341341 := 484484.$
- $22022 \times 11 + 11 \times 22022 = 242242 + 242242 := 484484.$
- $10002 \times 12 + 21 \times 20001 = 120024 + 420021 := 540045.$
- $10102 \times 12 + 21 \times 20101 = 121224 + 422121 := 543345.$
- $10202 \times 12 + 21 \times 20201 = 122424 + 424221 := 546645.$
- $10001 \times 14 + 41 \times 10001 = 140014 + 410041 := 550055.$
- $10004 \times 11 + 11 \times 40001 = 110044 + 440011 := 550055.$
- $10104 \times 11 + 11 \times 40101 = 111144 + 441111 := 552255.$
- $11002 \times 12 + 21 \times 20011 = 132024 + 420231 := 552255.$
- $10204 \times 11 + 11 \times 40201 = 112244 + 442211 := 554455.$
- $10101 \times 14 + 41 \times 10101 = 141414 + 414141 := 555555.$
- $11102 \times 12 + 21 \times 20111 = 133224 + 422331 := 555555.$
- $10304 \times 11 + 11 \times 40301 = 113344 + 443311 := 556655.$
- $10404 \times 11 + 11 \times 40401 = 114444 + 444411 := 558855.$
- $11202 \times 12 + 21 \times 20211 = 134424 + 424431 := 558855.$
- $20403 \times 11 + 11 \times 30402 = 224433 + 334422 := 558855.$
- $10012 \times 12 + 21 \times 21001 = 120144 + 441021 := 561165.$
- $11004 \times 11 + 11 \times 40011 = 121044 + 440121 := 561165.$
- $20013 \times 11 + 11 \times 31002 = 220143 + 341022 := 561165.$
- $11104 \times 11 + 11 \times 40111 = 122144 + 441221 := 563365.$
- $20113 \times 11 + 11 \times 31102 = 221243 + 342122 := 563365.$
- $10112 \times 12 + 21 \times 21101 = 121344 + 443121 := 564465.$
- $12002 \times 12 + 21 \times 20021 = 144024 + 420441 := 564465.$
- $11204 \times 11 + 11 \times 40211 = 123244 + 442321 := 565565.$
- $20213 \times 11 + 11 \times 31202 = 222343 + 343222 := 565565.$
- $11304 \times 11 + 11 \times 40311 = 124344 + 443421 := 567765.$
- $20313 \times 11 + 11 \times 31302 = 223443 + 344322 := 567765.$
- $21303 \times 11 + 11 \times 30312 = 234333 + 333432 := 567765.$
- $12004 \times 11 + 11 \times 40021 = 132044 + 440231 := 572275.$
- $21013 \times 11 + 11 \times 31012 = 231143 + 341132 := 572275.$
- $22003 \times 11 + 11 \times 30022 = 242033 + 330242 := 572275.$
- $11012 \times 12 + 21 \times 21011 = 132144 + 441231 := 573375.$
- $12104 \times 11 + 11 \times 40121 = 133144 + 441331 := 574475.$
- $22103 \times 11 + 11 \times 30122 = 243133 + 331342 := 574475.$
- $12204 \times 11 + 11 \times 40221 = 134244 + 442431 := 576675.$
- $22203 \times 11 + 11 \times 30222 = 244233 + 332442 := 576675.$
- $13004 \times 11 + 11 \times 40031 = 143044 + 440341 := 583385.$
- $22013 \times 11 + 11 \times 31022 = 242143 + 341242 := 583385.$
- $12012 \times 12 + 21 \times 21021 = 144144 + 441441 := 585585.$
- $13104 \times 11 + 11 \times 40131 = 144144 + 441441 := 585585.$
- $10001 \times 24 + 42 \times 10001 = 240024 + 420042 := 660066.$
- $10002 \times 22 + 22 \times 20001 = 220044 + 440022 := 660066.$
- $20002 \times 12 + 21 \times 20002 = 240024 + 420042 := 660066.$
- $20004 \times 11 + 11 \times 40002 = 220044 + 440022 := 660066.$
- $20104 \times 11 + 11 \times 40102 = 221144 + 441122 := 662266.$
- $20102 \times 12 + 21 \times 20102 = 241224 + 422142 := 663366.$
- $10102 \times 22 + 22 \times 20101 = 222244 + 442222 := 664466.$
- $20204 \times 11 + 11 \times 40202 = 222244 + 442222 := 664466.$
- $10101 \times 24 + 42 \times 10101 = 242424 + 424242 := 666666.$
- $20202 \times 12 + 21 \times 20202 = 242424 + 424242 := 666666.$
- $20304 \times 11 + 11 \times 40302 = 223344 + 443322 := 666666.$
- $10202 \times 22 + 22 \times 20201 = 224444 + 444422 := 668866.$
- $20404 \times 11 + 11 \times 40402 = 224444 + 444422 := 668866.$
- $30403 \times 11 + 11 \times 30403 = 334433 + 334433 := 668866.$
- $21004 \times 11 + 11 \times 40012 = 231044 + 440132 := 671176.$
- $30013 \times 11 + 11 \times 31003 = 330143 + 341033 := 671176.$
- $21104 \times 11 + 11 \times 40112 = 232144 + 441232 := 673376.$
- $30113 \times 11 + 11 \times 31103 = 331243 + 342133 := 673376.$
- $21204 \times 11 + 11 \times 40212 = 233244 + 442332 := 675576.$
- $30213 \times 11 + 11 \times 31203 = 332343 + 343233 := 675576.$
- $21304 \times 11 + 11 \times 40312 = 234344 + 443432 := 677776.$
- $30313 \times 11 + 11 \times 31303 = 333443 + 344333 := 677776.$
- $20012 \times 12 + 21 \times 21002 = 240144 + 441042 := 681186.$
- $11002 \times 22 + 22 \times 20011 = 242044 + 440242 := 682286.$
- $22004 \times 11 + 11 \times 40022 = 242044 + 440242 := 682286.$
- $31013 \times 11 + 11 \times 31013 = 341143 + 341143 := 682286.$
- $20112 \times 12 + 21 \times 21102 = 241344 + 443142 := 684486.$
- $22104 \times 11 + 11 \times 40122 = 243144 + 441342 := 684486.$
- $11102 \times 22 + 22 \times 20111 = 244244 + 442442 := 686686.$
- $22204 \times 11 + 11 \times 40222 = 244244 + 442442 := 686686.$
- $10001 \times 34 + 43 \times 10001 = 340034 + 430043 := 770077.$
- $30004 \times 11 + 11 \times 40003 = 330044 + 440033 := 770077.$
- $30104 \times 11 + 11 \times 40103 = 331144 + 441133 := 772277.$
- $30204 \times 11 + 11 \times 40203 = 332244 + 442233 := 774477.$
- $30304 \times 11 + 11 \times 40303 = 333344 + 443333 := 776677.$
- $10101 \times 34 + 43 \times 10101 = 343434 + 434343 := 777777.$
- $30404 \times 11 + 11 \times 40403 = 334444 + 444433 := 778877.$
- $31004 \times 11 + 11 \times 40013 = 341044 + 440143 := 781187.$
- $31104 \times 11 + 11 \times 40113 = 342144 + 441243 := 783387.$
- $31204 \times 11 + 11 \times 40213 = 343244 + 442343 := 785587.$
- $31304 \times 11 + 11 \times 40313 = 344344 + 443443 := 787787.$
- $10001 \times 44 + 44 \times 10001 = 440044 + 440044 := 880088.$
- $20002 \times 22 + 22 \times 20002 = 440044 + 440044 := 880088.$
- $40004 \times 11 + 11 \times 40004 = 440044 + 440044 := 880088.$
- $40104 \times 11 + 11 \times 40104 = 441144 + 441144 := 882288.$
- $20102 \times 22 + 22 \times 20102 = 442244 + 442244 := 884488.$
- $40204 \times 11 + 11 \times 40204 = 442244 + 442244 := 884488.$
- $40304 \times 11 + 11 \times 40304 = 443344 + 443344 := 886688.$
- $10101 \times 44 + 44 \times 10101 = 444444 + 444444 := 888888.$



- $20202 \times 22 + 22 \times 20202 = 444444 + 444444 := 888888.$
- $40404 \times 11 + 11 \times 40404 = 444444 + 444444 := 888888.$
  
- $141 \times 101 + 101 \times 141 = 14241 + 14241 := 28482.$
- $121 \times 102 + 201 \times 121 = 12342 + 24321 := 36663.$
- $142 \times 101 + 101 \times 241 = 14342 + 24341 := 38683.$
- $103 \times 101 + 101 \times 301 = 10403 + 30401 := 40804.$
- $202 \times 101 + 101 \times 202 = 20402 + 20402 := 40804.$
- $113 \times 101 + 101 \times 311 = 11413 + 31411 := 42824.$
- $212 \times 101 + 101 \times 212 = 21412 + 21412 := 42824.$
- $111 \times 103 + 301 \times 111 = 11433 + 33411 := 44844.$
- $123 \times 101 + 101 \times 321 = 12423 + 32421 := 44844.$
- $202 \times 111 + 111 \times 202 = 22422 + 22422 := 44844.$
- $222 \times 101 + 101 \times 222 = 22422 + 22422 := 44844.$
- $133 \times 101 + 101 \times 331 = 13433 + 33431 := 46864.$
- $232 \times 101 + 101 \times 232 = 23432 + 23432 := 46864.$
- $143 \times 101 + 101 \times 341 = 14443 + 34441 := 48884.$
- $202 \times 121 + 121 \times 202 = 24442 + 24442 := 48884.$
- $242 \times 101 + 101 \times 242 = 24442 + 24442 := 48884.$
- $102 \times 102 + 201 \times 201 = 10404 + 40401 := 50805.$
- $112 \times 102 + 201 \times 211 = 11424 + 42411 := 53835.$
- $122 \times 102 + 201 \times 221 = 12444 + 44421 := 56865.$
  
- $1031 \times 101 + 101 \times 1301 = 104131 + 131401 := 235532.$
- $1131 \times 101 + 101 \times 1311 = 114231 + 132411 := 246642.$
- $1231 \times 101 + 101 \times 1321 = 124331 + 133421 := 257752.$
- $1031 \times 111 + 111 \times 1301 = 114441 + 144411 := 258852.$
- $1331 \times 101 + 101 \times 1331 = 134431 + 134431 := 268862.$
- $1011 \times 131 + 131 \times 1101 = 132441 + 144231 := 276672.$
- $1001 \times 141 + 141 \times 1001 = 141141 + 141141 := 282282.$
- $1202 \times 101 + 101 \times 2021 = 121402 + 204121 := 325523.$
- $1032 \times 101 + 101 \times 2301 = 104232 + 232401 := 336633.$
- $1212 \times 101 + 101 \times 2121 = 122412 + 214221 := 336633.$
- $1021 \times 102 + 201 \times 1201 = 104142 + 241401 := 345543.$
- $1132 \times 101 + 101 \times 2311 = 114332 + 233411 := 347743.$
- $1222 \times 101 + 101 \times 2221 = 123422 + 224321 := 347743.$
- $1011 \times 221 + 122 \times 1101 = 223431 + 134322 := 357753.$
- $1022 \times 111 + 111 \times 2201 = 113442 + 244311 := 357753.$
- $1121 \times 102 + 201 \times 1211 = 114342 + 243411 := 357753.$
- $1202 \times 111 + 111 \times 2021 = 133422 + 224331 := 357753.$
- $1232 \times 101 + 101 \times 2321 = 124432 + 234421 := 358853.$
- $1002 \times 121 + 121 \times 2001 = 121242 + 242121 := 363363.$
- $1011 \times 122 + 221 \times 1101 = 123342 + 243321 := 366663.$
- $1102 \times 121 + 121 \times 2011 = 133342 + 243331 := 376673.$
- $1001 \times 142 + 241 \times 1001 = 142142 + 241241 := 383383.$
- $1002 \times 201 + 102 \times 2001 = 201402 + 204102 := 405504.$
- $1103 \times 101 + 101 \times 3011 = 111403 + 304111 := 415514.$
- $1011 \times 301 + 103 \times 1101 = 304311 + 113403 := 417714.$
- $1012 \times 201 + 102 \times 2101 = 203412 + 214302 := 417714.$
- $1011 \times 202 + 202 \times 1101 = 204222 + 222402 := 426624.$
- $1113 \times 101 + 101 \times 3111 = 112413 + 314211 := 426624.$
- $2022 \times 101 + 101 \times 2202 = 204222 + 222402 := 426624.$
- $1002 \times 211 + 112 \times 2001 = 211422 + 224112 := 435534.$
- $1011 \times 103 + 301 \times 1101 = 104133 + 331401 := 435534.$
- $1033 \times 101 + 101 \times 3301 = 104333 + 333401 := 437734.$
- $1123 \times 101 + 101 \times 3211 = 113423 + 324311 := 437734.$
- $2122 \times 101 + 101 \times 2212 = 214322 + 223412 := 437734.$
- $1011 \times 311 + 113 \times 1101 = 314421 + 124413 := 438834.$
- $1011 \times 212 + 212 \times 1101 = 214332 + 233412 := 447744.$
  
- $1111 \times 103 + 301 \times 1111 = 114433 + 334411 := 448844.$
- $1111 \times 202 + 202 \times 1111 = 224422 + 224422 := 448844.$
- $1133 \times 101 + 101 \times 3311 = 114433 + 334411 := 448844.$
- $2222 \times 101 + 101 \times 2222 = 224422 + 224422 := 448844.$
- $1011 \times 113 + 311 \times 1101 = 114243 + 342411 := 456654.$
- $1013 \times 111 + 111 \times 3101 = 112443 + 344211 := 456654.$
- $1103 \times 111 + 111 \times 3011 = 122433 + 334221 := 456654.$
- $1002 \times 221 + 122 \times 2001 = 221442 + 244122 := 465564.$
- $1011 \times 222 + 222 \times 1101 = 224442 + 244422 := 468864.$
- $2022 \times 111 + 111 \times 2202 = 224442 + 244422 := 468864.$
- $1001 \times 143 + 341 \times 1001 = 143143 + 341341 := 484484.$
- $1001 \times 242 + 242 \times 1001 = 242242 + 242242 := 484484.$
- $2002 \times 121 + 121 \times 2002 = 242242 + 242242 := 484484.$
- $1002 \times 102 + 201 \times 2001 = 102204 + 402201 := 504405.$
- $1001 \times 104 + 401 \times 1001 = 104104 + 401401 := 505505.$
- $1004 \times 101 + 101 \times 4001 = 101404 + 404101 := 505505.$
- $1014 \times 101 + 101 \times 4101 = 102414 + 414201 := 516615.$
- $1102 \times 102 + 201 \times 2011 = 112404 + 404211 := 516615.$
- $2103 \times 101 + 101 \times 3012 = 212403 + 304212 := 516615.$
- $1001 \times 114 + 411 \times 1001 = 114114 + 411411 := 525525.$
- $1012 \times 102 + 201 \times 2101 = 103224 + 422301 := 525525.$
- $1024 \times 101 + 101 \times 4201 = 103424 + 424301 := 527725.$
- $2023 \times 101 + 101 \times 3202 = 204323 + 323402 := 527725.$
- $2113 \times 101 + 101 \times 3112 = 213413 + 314312 := 527725.$
- $1002 \times 112 + 211 \times 2001 = 112224 + 422211 := 534435.$
- $1112 \times 102 + 201 \times 2111 = 113424 + 424311 := 537735.$
- $1034 \times 101 + 101 \times 4301 = 104434 + 434401 := 538835.$
- $2123 \times 101 + 101 \times 3212 = 214423 + 324412 := 538835.$
- $1001 \times 124 + 421 \times 1001 = 124124 + 421421 := 545545.$
- $1022 \times 102 + 201 \times 2201 = 104244 + 442401 := 546645.$
- $1102 \times 112 + 211 \times 2011 = 123424 + 424321 := 547745.$
- $1004 \times 111 + 111 \times 4001 = 111444 + 444111 := 555555.$
- $1012 \times 112 + 211 \times 2101 = 113344 + 443311 := 556655.$
- $1122 \times 102 + 201 \times 2211 = 114444 + 444411 := 558855.$
- $1002 \times 122 + 221 \times 2001 = 122244 + 442221 := 564465.$
- $1001 \times 134 + 431 \times 1001 = 134134 + 431431 := 565565.$
- $2013 \times 111 + 111 \times 3102 = 223443 + 344322 := 567765.$
- $2103 \times 111 + 111 \times 3012 = 233433 + 334332 := 567765.$
- $1102 \times 122 + 221 \times 2011 = 134444 + 444431 := 578875.$
- $1001 \times 144 + 441 \times 1001 = 144144 + 441441 := 585585.$
- $1001 \times 243 + 342 \times 1001 = 243243 + 342342 := 585585.$
- $1001 \times 204 + 402 \times 1001 = 204204 + 402402 := 606606.$
- $1002 \times 202 + 202 \times 2001 = 202404 + 404202 := 606606.$
- $2002 \times 102 + 201 \times 2002 = 204204 + 402402 := 606606.$
- $2004 \times 101 + 101 \times 4002 = 202404 + 404202 := 606606.$
- $2014 \times 101 + 101 \times 4102 = 203414 + 414302 := 617716.$
- $3013 \times 101 + 101 \times 3103 = 304313 + 313403 := 617716.$
- $2012 \times 201 + 102 \times 2102 = 404412 + 214404 := 618816.$
- $1001 \times 214 + 412 \times 1001 = 214214 + 412412 := 626626.$
- $1012 \times 202 + 202 \times 2101 = 204424 + 424402 := 628826.$
- $2024 \times 101 + 101 \times 4202 = 204424 + 424402 := 628826.$
- $3113 \times 101 + 101 \times 3113 = 314413 + 314413 := 628826.$
- $1002 \times 212 + 212 \times 2001 = 212424 + 424212 := 636636.$
- $1001 \times 224 + 422 \times 1001 = 224224 + 422422 := 646646.$
- $2002 \times 112 + 211 \times 2002 = 224224 + 422422 := 646646.$
- $1001 \times 234 + 432 \times 1001 = 234234 + 432432 := 666666.$
- $1002 \times 222 + 222 \times 2001 = 222444 + 444222 := 666666.$
- $2004 \times 111 + 111 \times 4002 = 222444 + 444222 := 666666.$
- $3013 \times 111 + 111 \times 3103 = 334443 + 344433 := 678876.$

- $1001 \times 244 + 442 \times 1001 = 244244 + 442442 := 686686.$
- $1001 \times 343 + 343 \times 1001 = 343343 + 343343 := 686686.$
- $2002 \times 122 + 221 \times 2002 = 244244 + 442442 := 686686.$
- $1001 \times 304 + 403 \times 1001 = 304304 + 403403 := 707707.$
- $3004 \times 101 + 101 \times 4003 = 303404 + 403403 := 707707.$
- $3014 \times 101 + 101 \times 4103 = 304414 + 414403 := 718817.$
- $1001 \times 314 + 413 \times 1001 = 314314 + 413413 := 727727.$
- $1001 \times 324 + 423 \times 1001 = 324324 + 423423 := 747747.$
- $1001 \times 334 + 433 \times 1001 = 334334 + 433433 := 767767.$
- $3004 \times 111 + 111 \times 4003 = 333444 + 444333 := 777777.$
- $1001 \times 344 + 443 \times 1001 = 344344 + 443443 := 787787.$
  
- $10301 \times 101 + 101 \times 10301 = 1040401 + 1040401 := 2080802.$
- $10311 \times 101 + 101 \times 11301 = 1041411 + 1141401 := 2182812.$
- $10321 \times 101 + 101 \times 12301 = 1042421 + 1242401 := 2284822.$
- $11311 \times 101 + 101 \times 11311 = 1142411 + 1142411 := 2284822.$
- $10301 \times 111 + 111 \times 10301 = 1143411 + 1143411 := 2286822.$
- $10211 \times 111 + 111 \times 11201 = 1133421 + 1243311 := 2376732.$
- $10331 \times 101 + 101 \times 13301 = 1043431 + 1343401 := 2386832.$
- $11321 \times 101 + 101 \times 12311 = 1143421 + 1243411 := 2386832.$
- $10041 \times 101 + 101 \times 14001 = 1014141 + 1414101 := 2428242.$
- $11031 \times 101 + 101 \times 13011 = 1114131 + 1314111 := 2428242.$
- $12021 \times 101 + 101 \times 12021 = 1214121 + 1214121 := 2428242.$
- $10141 \times 101 + 101 \times 14101 = 1024241 + 1424201 := 2448442.$
- $11131 \times 101 + 101 \times 13111 = 1124231 + 1324211 := 2448442.$
- $12121 \times 101 + 101 \times 12121 = 1224221 + 1224221 := 2448442.$
- $10121 \times 111 + 111 \times 12101 = 1123431 + 1343211 := 2466642.$
- $10201 \times 121 + 121 \times 10201 = 1234321 + 1234321 := 2468642.$
- $10241 \times 101 + 101 \times 14201 = 1034341 + 1434301 := 2468642.$
- $11231 \times 101 + 101 \times 13211 = 1134331 + 1334311 := 2468642.$
- $12221 \times 101 + 101 \times 12221 = 1234321 + 1234321 := 2468642.$
- $10341 \times 101 + 101 \times 14301 = 1044441 + 1444401 := 2488842.$
- $11331 \times 101 + 101 \times 13311 = 1144431 + 1344411 := 2488842.$
- $12321 \times 101 + 101 \times 12321 = 1244421 + 1244421 := 2488842.$
- $10031 \times 111 + 111 \times 13001 = 1113441 + 1443111 := 2556552.$
- $10111 \times 121 + 121 \times 11101 = 1223431 + 1343221 := 2566652.$
- $11031 \times 111 + 111 \times 13011 = 1224441 + 1444221 := 2668662.$
- $12021 \times 111 + 111 \times 12021 = 1334331 + 1334331 := 2668662.$
- $10011 \times 131 + 131 \times 11001 = 1311441 + 1441131 := 2752572.$
- $10001 \times 141 + 141 \times 10001 = 1410141 + 1410141 := 2820282.$
- $10101 \times 141 + 141 \times 10101 = 1424241 + 1424241 := 2848482.$
- $11011 \times 131 + 131 \times 11011 = 1442441 + 1442441 := 2884882.$
- $10202 \times 101 + 101 \times 20201 = 1030402 + 2040301 := 3070703.$
- $10212 \times 101 + 101 \times 21201 = 1031412 + 2141301 := 3172713.$
- $11202 \times 101 + 101 \times 20211 = 1131402 + 2041311 := 3172713.$
- $10021 \times 201 + 102 \times 12001 = 2014221 + 1224102 := 3238323.$
- $10121 \times 201 + 102 \times 12101 = 2034321 + 1234302 := 3268623.$
- $10222 \times 101 + 101 \times 22201 = 1032422 + 2242301 := 3274723.$
- $11212 \times 101 + 101 \times 21211 = 1132412 + 2142311 := 3274723.$
- $12202 \times 101 + 101 \times 20221 = 1232402 + 2042321 := 3274723.$
- $10202 \times 111 + 111 \times 20201 = 1132422 + 2242311 := 3374733.$
- $10111 \times 211 + 112 \times 11101 = 2133421 + 1243312 := 3376733.$
- $10232 \times 101 + 101 \times 23201 = 1033432 + 2343301 := 3376733.$
- $11222 \times 101 + 101 \times 22211 = 1133422 + 2243311 := 3376733.$
- $12212 \times 101 + 101 \times 21221 = 1233412 + 2143321 := 3376733.$
- $13202 \times 101 + 101 \times 20231 = 1333402 + 2043331 := 3376733.$
- $10021 \times 102 + 201 \times 12001 = 1022142 + 2412201 := 3434343.$
- $10042 \times 101 + 101 \times 24001 = 1014242 + 2424101 := 3438343.$
- $11032 \times 101 + 101 \times 23011 = 1114232 + 2324111 := 3438343.$
- $12022 \times 101 + 101 \times 22021 = 1214222 + 2224121 := 3438343.$
- $13012 \times 101 + 101 \times 21031 = 1314212 + 2124131 := 3438343.$
- $14002 \times 101 + 101 \times 20041 = 1414202 + 2024141 := 3438343.$
- $10021 \times 211 + 112 \times 12001 = 2114431 + 1344112 := 3458543.$
  
- $1001 \times 404 + 404 \times 1001 = 404404 + 404404 := 808808.$
- $2002 \times 202 + 202 \times 2002 = 404404 + 404404 := 808808.$
- $4004 \times 101 + 101 \times 4004 = 404404 + 404404 := 808808.$
- $1001 \times 414 + 414 \times 1001 = 414414 + 414414 := 828828.$
- $1001 \times 424 + 424 \times 1001 = 424424 + 424424 := 848848.$
- $2002 \times 212 + 212 \times 2002 = 424424 + 424424 := 848848.$
- $1001 \times 434 + 434 \times 1001 = 434434 + 434434 := 868868.$
- $1001 \times 444 + 444 \times 1001 = 444444 + 444444 := 888888.$
- $2002 \times 222 + 222 \times 2002 = 444444 + 444444 := 888888.$
- $4004 \times 111 + 111 \times 4004 = 444444 + 444444 := 888888.$
  
- $10142 \times 101 + 101 \times 24101 = 1024342 + 2434201 := 3458543.$
- $11132 \times 101 + 101 \times 23111 = 1124332 + 2334211 := 3458543.$
- $12122 \times 101 + 101 \times 22121 = 1224322 + 2234221 := 3458543.$
- $13112 \times 101 + 101 \times 21131 = 1324312 + 2134231 := 3458543.$
- $14102 \times 101 + 101 \times 20141 = 1424302 + 2034241 := 3458543.$
- $10112 \times 111 + 111 \times 21101 = 1122432 + 2342211 := 3464643.$
- $10121 \times 102 + 201 \times 12101 = 1032342 + 2432301 := 3464643.$
- $10111 \times 112 + 211 \times 11101 = 1132432 + 2342311 := 3474743.$
- $10242 \times 101 + 101 \times 24201 = 1034442 + 2444301 := 3478743.$
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- $10002 \times 121 + 121 \times 20001 = 1210242 + 2420121 := 3630363.$
- $10011 \times 122 + 221 \times 11001 = 1221342 + 2431221 := 3652563.$
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- $10101 \times 142 + 241 \times 10101 = 1434342 + 2434341 := 3868683.$
- $10002 \times 201 + 102 \times 20001 = 2010402 + 2040102 := 4050504.$
- $10103 \times 101 + 101 \times 30101 = 1020403 + 3040201 := 4060604.$
- $10101 \times 103 + 301 \times 10101 = 1040403 + 3040401 := 4080804.$
- $10101 \times 202 + 202 \times 10101 = 2040402 + 2040402 := 4080804.$
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- $10012 \times 201 + 102 \times 21001 = 2012412 + 2142102 := 4154514.$
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- $11002 \times 201 + 102 \times 20011 = 2211402 + 2041122 := 4252524.$
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- $10123 \times 101 + 101 \times 32101 = 1022423 + 3242201 := 4264624.$
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- $10101 \times 113 + 311 \times 10101 = 1141413 + 3141411 := 4282824.$
- $10101 \times 212 + 212 \times 10101 = 2141412 + 2141412 := 4282824.$
- $10111 \times 202 + 202 \times 11101 = 2042422 + 2242402 := 4284824.$
- $20222 \times 101 + 101 \times 22202 = 2042422 + 2242402 := 4284824.$

- $21212 \times 101 + 101 \times 21212 = 2142412 + 2142412 := 4284824.$
- $10002 \times 211 + 112 \times 20001 = 2110422 + 2240112 := 4350534.$
- $10011 \times 311 + 113 \times 11001 = 3113421 + 1243113 := 4356534.$
- $11012 \times 201 + 102 \times 21011 = 2213412 + 2143122 := 4356534.$
- $10133 \times 101 + 101 \times 33101 = 1023433 + 3343201 := 4366634.$
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- $12113 \times 101 + 101 \times 31121 = 1223413 + 3143221 := 4366634.$
- $13103 \times 101 + 101 \times 30131 = 1323403 + 3043231 := 4366634.$
- $10111 \times 103 + 301 \times 11101 = 1041433 + 3341401 := 4382834.$
- $20232 \times 101 + 101 \times 23202 = 2043432 + 2343402 := 4386834.$
- $21222 \times 101 + 101 \times 22212 = 2143422 + 2243412 := 4386834.$
- $10021 \times 202 + 202 \times 12001 = 2024242 + 2424202 := 4448444.$
- $10043 \times 101 + 101 \times 34001 = 1014343 + 3434101 := 4448444.$
- $11011 \times 103 + 301 \times 11011 = 1134133 + 3314311 := 4448444.$
- $11011 \times 202 + 202 \times 11011 = 2224222 + 2224222 := 4448444.$
- $11033 \times 101 + 101 \times 33011 = 1114333 + 3334111 := 4448444.$
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- $21032 \times 101 + 101 \times 23012 = 2124232 + 2324212 := 4448444.$
- $22022 \times 101 + 101 \times 22022 = 2224222 + 2224222 := 4448444.$
- $12002 \times 201 + 102 \times 20021 = 2412402 + 2042142 := 4454544.$
- $10103 \times 111 + 111 \times 30101 = 1121433 + 3341211 := 4462644.$
- $10143 \times 101 + 101 \times 34101 = 1024443 + 3444201 := 4468644.$
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- $20142 \times 101 + 101 \times 24102 = 2034342 + 2434302 := 4468644.$
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- $10101 \times 123 + 321 \times 10101 = 1242423 + 3242421 := 4484844.$
- $10101 \times 222 + 222 \times 10101 = 2242422 + 2242422 := 4484844.$
- $20202 \times 111 + 111 \times 20202 = 2242422 + 2242422 := 4484844.$
- $10121 \times 202 + 202 \times 12101 = 2044442 + 2444402 := 4488844.$
- $11111 \times 103 + 301 \times 11111 = 1144433 + 3344411 := 4488844.$
- $11111 \times 202 + 202 \times 11111 = 2244422 + 2244422 := 4488844.$
- $20242 \times 101 + 101 \times 24202 = 2044442 + 2444402 := 4488844.$
- $21232 \times 101 + 101 \times 23212 = 2144432 + 2344412 := 4488844.$
- $22222 \times 101 + 101 \times 22222 = 2244422 + 2244422 := 4488844.$
- $10011 \times 113 + 311 \times 11001 = 1131243 + 3421311 := 4552554.$
- $10013 \times 111 + 111 \times 31001 = 1111443 + 3441111 := 4552554.$
- $12012 \times 201 + 102 \times 21021 = 2414412 + 2144142 := 4558554.$
- $11002 \times 211 + 112 \times 20011 = 2321422 + 2241232 := 4562654.$
- $11103 \times 111 + 111 \times 30111 = 1232433 + 3342321 := 4574754.$
- $20112 \times 111 + 111 \times 21102 = 2232432 + 2342322 := 4574754.$
- $10002 \times 221 + 122 \times 20001 = 2210442 + 2440122 := 4650564.$
- $10011 \times 222 + 222 \times 11001 = 2222442 + 2442222 := 4664664.$
- $11013 \times 111 + 111 \times 31011 = 1222443 + 3442221 := 4664664.$
- $20022 \times 111 + 111 \times 22002 = 2222442 + 2442222 := 4664664.$
- $11011 \times 113 + 311 \times 11011 = 1244243 + 3424421 := 4668664.$
- $11011 \times 212 + 212 \times 11011 = 2334332 + 2334332 := 4668664.$
- $10101 \times 133 + 331 \times 10101 = 1343433 + 3343431 := 4686864.$
- $10101 \times 232 + 232 \times 10101 = 2343432 + 2343432 := 4686864.$
- $12103 \times 111 + 111 \times 30121 = 1343433 + 3343431 := 4686864.$
- $12013 \times 111 + 111 \times 31021 = 1333443 + 3443331 := 4776774.$
- $13003 \times 111 + 111 \times 30031 = 1443333 + 3333441 := 4776774.$
- $21022 \times 111 + 111 \times 22012 = 2333442 + 2443332 := 4776774.$
- $10001 \times 143 + 341 \times 10001 = 1430143 + 3410341 := 4840484.$
- $10001 \times 242 + 242 \times 10001 = 2420242 + 2420242 := 4840484.$
- $20002 \times 121 + 121 \times 20002 = 2420242 + 2420242 := 4840484.$
- $20102 \times 121 + 121 \times 20102 = 2432342 + 2432342 := 4864684.$
- $11002 \times 221 + 122 \times 20011 = 2431442 + 2441342 := 4872784.$
- $10101 \times 143 + 341 \times 10101 = 1444443 + 3444441 := 4888884.$
- $10101 \times 242 + 242 \times 10101 = 2444442 + 2444442 := 4888884.$
- $11011 \times 222 + 222 \times 11011 = 2444442 + 2444442 := 4888884.$
- $13013 \times 111 + 111 \times 31031 = 1444443 + 3444441 := 4888884.$
- $20202 \times 121 + 121 \times 20202 = 2444442 + 2444442 := 4888884.$
- $22022 \times 111 + 111 \times 22022 = 2444442 + 2444442 := 4888884.$
- $10002 \times 102 + 201 \times 20001 = 1020204 + 4020201 := 5040405.$
- $10001 \times 104 + 401 \times 10001 = 1040104 + 4010401 := 5050505.$
- $10004 \times 101 + 101 \times 40001 = 1010404 + 4040101 := 5050505.$
- $10102 \times 102 + 201 \times 20101 = 1030404 + 4040301 := 5070705.$
- $20103 \times 101 + 101 \times 30102 = 2030403 + 3040302 := 5070705.$
- $11002 \times 102 + 201 \times 20011 = 1122204 + 4022211 := 5144415.$
- $10014 \times 101 + 101 \times 41001 = 1011414 + 4141101 := 5152515.$
- $11004 \times 101 + 101 \times 40011 = 1111404 + 4041111 := 5152515.$
- $10011 \times 401 + 104 \times 11001 = 4014411 + 1144104 := 5158515.$
- $20113 \times 101 + 101 \times 31102 = 2031413 + 3141302 := 5172715.$
- $21103 \times 101 + 101 \times 30112 = 2131403 + 3041312 := 5172715.$
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- $10012 \times 102 + 201 \times 21001 = 1021224 + 4221201 := 5242425.$
- $12002 \times 102 + 201 \times 20021 = 1224204 + 4024221 := 5248425.$
- $10001 \times 114 + 411 \times 10001 = 1140114 + 4110411 := 5250525.$
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- $22103 \times 101 + 101 \times 30122 = 2232403 + 3042322 := 5274725.$
- $12102 \times 102 + 201 \times 20121 = 1234404 + 4044321 := 5278725.$
- $10002 \times 112 + 211 \times 20001 = 1120224 + 4220211 := 5340435.$
- $11012 \times 102 + 201 \times 21011 = 1123224 + 4223211 := 5346435.$
- $10034 \times 101 + 101 \times 43001 = 1013434 + 4343101 := 5356535.$
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- $11112 \times 102 + 201 \times 21111 = 1133424 + 4243311 := 5376735.$
- $20133 \times 101 + 101 \times 33102 = 2033433 + 3343302 := 5376735.$
- $21111 \times 201 + 102 \times 11112 = 4243311 + 1133424 := 5376735.$
- $21123 \times 101 + 101 \times 32112 = 2133423 + 3243312 := 5376735.$
- $22113 \times 101 + 101 \times 31122 = 2233413 + 3143322 := 5376735.$
- $23103 \times 101 + 101 \times 30132 = 2333403 + 3043332 := 5376735.$
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- $20043 \times 101 + 101 \times 34002 = 2024343 + 3434202 := 5458545.$
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- $10011 \times 312 + 213 \times 11001 = 3123432 + 2343213 := 5466645.$
- $10122 \times 102 + 201 \times 22101 = 1032444 + 4442301 := 5474745.$
- $20143 \times 101 + 101 \times 34102 = 2034443 + 3444302 := 5478745.$
- $21133 \times 101 + 101 \times 33112 = 2134433 + 3344312 := 5478745.$
- $22123 \times 101 + 101 \times 32122 = 2234423 + 3244322 := 5478745.$
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- $24103 \times 101 + 101 \times 30142 = 2434403 + 3044342 := 5478745.$
- $11102 \times 112 + 211 \times 20111 = 1243424 + 4243421 := 5486845.$

- $11022 \times 102 + 201 \times 22011 = 1124244 + 4424211 := 5548455.$
- $10004 \times 111 + 111 \times 40001 = 1110444 + 4440111 := 5550555.$
- $10012 \times 112 + 211 \times 21001 = 1121344 + 4431211 := 5552555.$
- $10011 \times 213 + 312 \times 11001 = 2132343 + 3432312 := 5564655.$
- $12002 \times 112 + 211 \times 20021 = 1344224 + 4224431 := 5568655.$
- $20103 \times 111 + 111 \times 30102 = 2231433 + 3341322 := 5572755.$
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- $10001 \times 243 + 342 \times 10001 = 2430243 + 3420342 := 5850585.$
- $13004 \times 111 + 111 \times 40031 = 1443444 + 4443441 := 5886885.$
- $22013 \times 111 + 111 \times 31022 = 2443443 + 3443442 := 5886885.$
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- $10002 \times 202 + 202 \times 20001 = 2020404 + 4040202 := 6060606.$
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- $20004 \times 101 + 101 \times 40002 = 2020404 + 4040202 := 6060606.$
- $30103 \times 101 + 101 \times 30103 = 3040403 + 3040403 := 6080806.$
- $20014 \times 101 + 101 \times 41002 = 2021414 + 4141202 := 6162616.$
- $21004 \times 101 + 101 \times 40012 = 2121404 + 4041212 := 6162616.$
- $20012 \times 201 + 102 \times 21002 = 4022412 + 2142204 := 6164616.$
- $30113 \times 101 + 101 \times 31103 = 3041413 + 3141403 := 6182816.$
- $10001 \times 214 + 412 \times 10001 = 2140214 + 4120412 := 6260626.$
- $20012 \times 102 + 201 \times 21002 = 2041224 + 4221402 := 6262626.$
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- $21014 \times 101 + 101 \times 41012 = 2122414 + 4142212 := 6264626.$
- $22004 \times 101 + 101 \times 40022 = 2222404 + 4042222 := 6264626.$
- $10011 \times 402 + 204 \times 11001 = 4024422 + 2244204 := 6268626.$
- $20022 \times 201 + 102 \times 22002 = 4024422 + 2244204 := 6268626.$
- $30123 \times 101 + 101 \times 32103 = 3042423 + 3242403 := 6284826.$
- $31113 \times 101 + 101 \times 31113 = 3142413 + 3142413 := 6284826.$
- $10002 \times 212 + 212 \times 20001 = 2120424 + 4240212 := 6360636.$
- $20034 \times 101 + 101 \times 43002 = 2023434 + 4343202 := 6366636.$
- $21012 \times 102 + 201 \times 21012 = 2143224 + 4223412 := 6366636.$
- $21024 \times 101 + 101 \times 42012 = 2123424 + 4243212 := 6366636.$
- $22014 \times 101 + 101 \times 41022 = 2223414 + 4143222 := 6366636.$
- $23004 \times 101 + 101 \times 40032 = 2323404 + 4043232 := 6366636.$
- $30133 \times 101 + 101 \times 33103 = 3043433 + 3343403 := 6386836.$
- $31123 \times 101 + 101 \times 32113 = 3143423 + 3243413 := 6386836.$
- $10001 \times 224 + 422 \times 10001 = 2240224 + 4220422 := 6460646.$
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- $10011 \times 204 + 402 \times 11001 = 2042244 + 4422402 := 6464646.$
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- $21034 \times 101 + 101 \times 43012 = 2124434 + 4344212 := 6468646.$
- $22024 \times 101 + 101 \times 42022 = 2224424 + 4244222 := 6468646.$
- $23014 \times 101 + 101 \times 41032 = 2324414 + 4144232 := 6468646.$
- $40042 \times 101 + 101 \times 24004 = 4044242 + 2424404 := 6468646.$
- $34003 \times 101 + 101 \times 30043 = 3434303 + 3034343 := 6468646.$
- $33013 \times 101 + 101 \times 31033 = 3334313 + 3134333 := 6468646.$
- $32023 \times 101 + 101 \times 32023 = 3234323 + 3234323 := 6468646.$
- $10022 \times 202 + 202 \times 22001 = 2024444 + 4444202 := 6468646.$
- $11012 \times 202 + 202 \times 21011 = 2224424 + 4244222 := 6468646.$
- $12002 \times 202 + 202 \times 20021 = 2424404 + 4044242 := 6468646.$
- $30143 \times 101 + 101 \times 34103 = 3044443 + 3444403 := 6488846.$
- $31133 \times 101 + 101 \times 33113 = 3144433 + 3344413 := 6488846.$
- $32123 \times 101 + 101 \times 32123 = 3244423 + 3244423 := 6488846.$
- $21022 \times 102 + 201 \times 22012 = 2144244 + 4424412 := 6568656.$
- $11002 \times 212 + 212 \times 20011 = 2332424 + 4242332 := 6574756.$
- $10011 \times 313 + 313 \times 11001 = 3133443 + 3443313 := 6576756.$
- $10001 \times 234 + 432 \times 10001 = 2340234 + 4320432 := 6660666.$
- $10002 \times 222 + 222 \times 20001 = 2220444 + 4440222 := 6660666.$
- $20004 \times 111 + 111 \times 40002 = 2220444 + 4440222 := 6660666.$
- $20012 \times 112 + 211 \times 21002 = 2241344 + 4431422 := 6672766.$
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- $10001 \times 244 + 442 \times 10001 = 2440244 + 4420442 := 6860686.$
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- $10001 \times 304 + 403 \times 10001 = 3040304 + 4030403 := 7070707.$
- $30004 \times 101 + 101 \times 40003 = 3030404 + 4040303 := 7070707.$
- $30014 \times 101 + 101 \times 41003 = 3031414 + 4141303 := 7172717.$
- $31004 \times 101 + 101 \times 40013 = 3131404 + 4041313 := 7172717.$
- $10001 \times 314 + 413 \times 10001 = 3140314 + 4130413 := 7270727.$
- $30024 \times 101 + 101 \times 42003 = 3032424 + 4242303 := 7274727.$
- $31014 \times 101 + 101 \times 41013 = 3132414 + 4142313 := 7274727.$
- $32004 \times 101 + 101 \times 40023 = 3232404 + 4042323 := 7274727.$
- $30034 \times 101 + 101 \times 43003 = 3033434 + 4343303 := 7376737.$
- $31024 \times 101 + 101 \times 42013 = 3133424 + 4243313 := 7376737.$
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- $10011 \times 403 + 304 \times 11001 = 4034433 + 3344304 := 7378737.$
- $10001 \times 324 + 423 \times 10001 = 3240324 + 4230423 := 7470747.$
- $10011 \times 304 + 403 \times 11001 = 3043344 + 4433403 := 7476747.$
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- $31034 \times 101 + 101 \times 43013 = 3134434 + 4344313 := 7478747.$
- $32024 \times 101 + 101 \times 42023 = 3234424 + 4244323 := 7478747.$
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- $10001 \times 404 + 404 \times 10001 = 4040404 + 4040404 := 8080808.$
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- $20012 \times 202 + 202 \times 21002 = 4042424 + 4242404 := 8284828.$
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- $40034 \times 101 + 101 \times 43004 = 4043434 + 4343404 := 8386838.$
- $41024 \times 101 + 101 \times 42014 = 4143424 + 4243414 := 8386838.$
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- $20002 \times 212 + 212 \times 20002 = 4240424 + 4240424 := 8480848.$
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- $10001 \times 444 + 444 \times 10001 = 4440444 + 4440444 := 8880888.$

- $20002 \times 222 + 222 \times 20002 = 4440444 + 4440444 := 8880888.$
- $40004 \times 111 + 111 \times 40004 = 4440444 + 4440444 := 8880888.$
  
- $1101 \times 1021 + 1201 \times 1011 = 1124121 + 1214211 := 2338332.$
- $1041 \times 1001 + 1001 \times 1401 = 1042041 + 1402401 := 2444442.$
- $1121 \times 1101 + 1011 \times 1211 = 1234221 + 1224321 := 2458542.$
- $1111 \times 1021 + 1201 \times 1111 = 1134331 + 1334311 := 2468642.$
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- $1221 \times 1011 + 1101 \times 1221 = 1234431 + 1344321 := 2578752.$
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- $1241 \times 1001 + 1001 \times 1421 = 1242241 + 1422421 := 2664662.$
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- $1101 \times 1012 + 2101 \times 1011 = 1114212 + 2124111 := 3238323.$
- $1201 \times 1002 + 2001 \times 1021 = 1203402 + 2043021 := 3246423.$
- $1102 \times 1011 + 1101 \times 2011 = 1114122 + 2214111 := 3328233.$
- $1112 \times 1101 + 1011 \times 2111 = 1224312 + 2134221 := 3358533.$
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- $1442 \times 1001 + 1001 \times 2441 = 1443442 + 2443441 := 3886883.$
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- $1011 \times 1003 + 3001 \times 1101 = 1014033 + 3304101 := 4318134.$
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- $2132 \times 1001 + 1001 \times 2312 = 2134132 + 2314312 := 4448444.$
- $2222 \times 1001 + 1001 \times 2222 = 2224222 + 2224222 := 4448444.$
- $2022 \times 1011 + 1101 \times 2202 = 2044242 + 2424402 := 4468644.$
- $1143 \times 1001 + 1001 \times 3411 = 1144143 + 3414411 := 4558554.$
- $1233 \times 1001 + 1001 \times 3321 = 1234233 + 3324321 := 4558554.$
- $1323 \times 1001 + 1001 \times 3231 = 1324323 + 3234231 := 4558554.$
- $1413 \times 1001 + 1001 \times 3141 = 1414413 + 3144411 := 4558554.$
- $2142 \times 1001 + 1001 \times 2412 = 2144142 + 2414412 := 4558554.$
- $2232 \times 1001 + 1001 \times 2322 = 2234232 + 2324322 := 4558554.$
- $1243 \times 1001 + 1001 \times 3421 = 1244243 + 3424421 := 4668664.$
- $1333 \times 1001 + 1001 \times 3331 = 1334333 + 3334331 := 4668664.$
- $1423 \times 1001 + 1001 \times 3241 = 1424423 + 3244241 := 4668664.$
- $2002 \times 1121 + 1211 \times 2002 = 2244242 + 2424422 := 4668664.$
- $2242 \times 1001 + 1001 \times 2422 = 2244242 + 2424422 := 4668664.$
- $2332 \times 1001 + 1001 \times 2332 = 2334332 + 2334332 := 4668664.$
- $1343 \times 1001 + 1001 \times 3431 = 1344343 + 3434431 := 4778774.$
- $1433 \times 1001 + 1001 \times 3341 = 1434433 + 3344341 := 4778774.$
- $2342 \times 1001 + 1001 \times 2432 = 2344342 + 2434432 := 4778774.$
- $1443 \times 1001 + 1001 \times 3441 = 1444443 + 3444441 := 4888884.$
- $2002 \times 1221 + 1221 \times 2002 = 2444442 + 2444442 := 4888884.$
- $2442 \times 1001 + 1001 \times 2442 = 2444442 + 2444442 := 4888884.$
- $1002 \times 1002 + 2001 \times 2001 = 1004004 + 4004001 := 5008005.$
- $1102 \times 1002 + 2001 \times 2011 = 1104204 + 4024011 := 5128215.$
- $1012 \times 1002 + 2001 \times 2101 = 1014024 + 4204101 := 5218125.$
- $1202 \times 1002 + 2001 \times 2021 = 1204404 + 4044021 := 5248425.$
- $1102 \times 1102 + 2011 \times 2011 = 1214404 + 4044121 := 5258525.$
- $1112 \times 1002 + 2001 \times 2111 = 1114224 + 4224111 := 5338335.$
- $1022 \times 1002 + 2001 \times 2201 = 1024044 + 4404201 := 5428245.$
- $1012 \times 1012 + 2101 \times 2101 = 1024144 + 4414201 := 5438345.$
- $1212 \times 1002 + 2001 \times 2121 = 1214424 + 4244121 := 5458545.$
- $1122 \times 1002 + 2001 \times 2211 = 1124244 + 4424211 := 5548455.$
- $1222 \times 1002 + 2001 \times 2221 = 1224444 + 4444221 := 5668665.$
  
- $10401 \times 1001 + 1001 \times 10401 = 10411401 + 10411401 := 20822802.$
- $10301 \times 1011 + 1101 \times 10301 = 10414311 + 11341401 := 21755712.$
- $10411 \times 1001 + 1001 \times 11401 = 10421411 + 11412401 := 21833812.$
- $10211 \times 1101 + 1011 \times 11201 = 11242311 + 11324211 := 22566522.$
- $10421 \times 1001 + 1001 \times 12401 = 10431421 + 12413401 := 22844822.$
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- $10311 \times 1011 + 1101 \times 11301 = 10424421 + 12442401 := 22866822.$
- $10301 \times 1111 + 1111 \times 10301 = 11444411 + 11444411 := 22888822.$
- $10031 \times 1001 + 1001 \times 13001 = 10041031 + 13014001 := 23055032.$
- $10131 \times 1001 + 1001 \times 13101 = 10141131 + 13114101 := 23255232.$

- $10121 \times 1101 + 1011 \times 12101 = 11143221 + 12234111 := 23377332.$
- $10231 \times 1001 + 1001 \times 13201 = 10241231 + 13214201 := 23455432.$
- $10111 \times 1201 + 1021 \times 11101 = 12143311 + 11334121 := 23477432.$
- $10101 \times 1031 + 1301 \times 10101 = 10414131 + 13141401 := 23555532.$
- $10331 \times 1001 + 1001 \times 13301 = 10341331 + 13314301 := 23655632.$
- $11211 \times 1011 + 1101 \times 11211 = 11334321 + 12343311 := 23677632.$
- $10221 \times 1011 + 1101 \times 12201 = 10333431 + 13433301 := 23766732.$
- $10211 \times 1111 + 1111 \times 11201 = 11344421 + 12444311 := 23788732.$
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- $11421 \times 1001 + 1001 \times 12411 = 11432421 + 12423411 := 23855832.$
- $11031 \times 1001 + 1001 \times 13011 = 11042031 + 13024011 := 24066042.$
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- $10011 \times 1301 + 1031 \times 11001 = 13024311 + 11342031 := 24366342.$
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- $10001 \times 1041 + 1401 \times 10001 = 10411041 + 14011401 := 24422442.$
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- $11011 \times 1021 + 1201 \times 11011 = 11242231 + 13224211 := 24466442.$
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- $11331 \times 1001 + 1001 \times 13311 = 11342331 + 13324311 := 24666642.$
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- $10121 \times 1111 + 1111 \times 12101 = 11244431 + 13444211 := 24688642.$
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- $12131 \times 1001 + 1001 \times 13121 = 12143131 + 13134121 := 25277252.$
- $12231 \times 1001 + 1001 \times 13221 = 12243231 + 13234221 := 25477452.$
- $10001 \times 1141 + 1411 \times 10001 = 11411141 + 14111411 := 25522552.$
- $10011 \times 1311 + 1131 \times 11001 = 13124421 + 12442131 := 25566552.$
- $10031 \times 1111 + 1111 \times 13001 = 11144441 + 14444111 := 25588552.$
- $11021 \times 1111 + 1111 \times 12011 = 12244331 + 13344221 := 25588552.$
- $10011 \times 1221 + 1221 \times 11001 = 12223431 + 13432221 := 25655652.$
- $11011 \times 1121 + 1211 \times 11011 = 12343331 + 13334321 := 25677652.$
- $12331 \times 1001 + 1001 \times 13321 = 12343331 + 13334321 := 25677652.$
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- $12431 \times 1001 + 1001 \times 13421 = 12443431 + 13434421 := 25877852.$
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- $13131 \times 1001 + 1001 \times 13131 = 13144131 + 13144131 := 26288262.$
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- $10001 \times 1241 + 1421 \times 10001 = 12411241 + 14211421 := 26622662.$
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- $11011 \times 1221 + 1221 \times 11011 = 13444431 + 13444431 := 26888862.$
- $13431 \times 1001 + 1001 \times 13431 = 13444431 + 13444431 := 26888862.$
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- $10201 \times 1002 + 2001 \times 10201 = 10221402 + 20412201 := 30633603.$
- $10402 \times 1001 + 1001 \times 20401 = 10412402 + 20421401 := 30833803.$
- $10202 \times 1101 + 1011 \times 20201 = 11232402 + 20423211 := 31655613.$
- $10211 \times 2001 + 1002 \times 11201 = 20432211 + 11223402 := 31655613.$
- $10201 \times 1012 + 2101 \times 10201 = 10323412 + 21432301 := 31755713.$
- $10412 \times 1001 + 1001 \times 21401 = 10422412 + 21422401 := 31844813.$
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- $12102 \times 1001 + 1001 \times 20121 = 12114102 + 20141121 := 32255223.$
- $10002 \times 1201 + 1021 \times 20001 = 12012402 + 20421021 := 32433423.$
- $12202 \times 1001 + 1001 \times 20221 = 12214202 + 20241221 := 32455423.$
- $10111 \times 2101 + 1012 \times 11101 = 21243211 + 11234212 := 32477423.$
- $10101 \times 1202 + 2021 \times 10101 = 12141402 + 20414121 := 32555523.$
- $10202 \times 1011 + 1101 \times 20201 = 10314222 + 22241301 := 32555523.$
- $10211 \times 1002 + 2001 \times 11201 = 10231422 + 22413201 := 32644623.$
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- $10212 \times 1101 + 1011 \times 21201 = 11243412 + 21434211 := 32677623.$
- $11202 \times 1101 + 1011 \times 20211 = 12333402 + 20433321 := 32766723.$
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- $11412 \times 1001 + 1001 \times 21411 = 11423412 + 21432411 := 32855823.$
- $12402 \times 1001 + 1001 \times 20421 = 12414402 + 20441421 := 32855823.$
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- $12012 \times 1001 + 1001 \times 21021 = 12024012 + 21042021 := 33066033.$
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- $12112 \times 1001 + 1001 \times 21121 = 12124112 + 21142121 := 33266233.$
- $10011 \times 2201 + 1022 \times 11001 = 22034211 + 11243022 := 33277233.$
- $10022 \times 1101 + 1011 \times 22001 = 11034222 + 22243011 := 33277233.$
- $11012 \times 1101 + 1011 \times 21011 = 12124212 + 21242121 := 33366333.$
- $11102 \times 1011 + 1101 \times 20111 = 11224122 + 22142211 := 33366333.$
- $12002 \times 1101 + 1011 \times 20021 = 13214202 + 20241231 := 33455433.$
- $10012 \times 1201 + 1021 \times 21001 = 12024412 + 21442021 := 33466433.$
- $10111 \times 1102 + 2011 \times 11101 = 11142322 + 22324111 := 33466433.$
- $10232 \times 1001 + 1001 \times 23201 = 10242232 + 23224201 := 33466433.$
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- $11112 \times 1101 + 1011 \times 21111 = 12234312 + 21343221 := 33577533.$
- $11002 \times 1201 + 1021 \times 20011 = 13213402 + 20431231 := 33644633.$
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- $10101 \times 1212 + 2121 \times 10101 = 12242412 + 21424221 := 33666633.$
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- $12102 \times 1101 + 1011 \times 20121 = 13324302 + 20342331 := 33666633.$
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- $12412 \times 1001 + 1001 \times 21421 = 12424412 + 21442421 := 33866833.$
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- $10021 \times 1002 + 2001 \times 12001 = 10041042 + 24014001 := 34055043.$
- $11032 \times 1001 + 1001 \times 23011 = 11043032 + 23034011 := 34077043.$
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- $10002 \times 1021 + 1201 \times 20001 = 10212042 + 24021201 := 34233243.$
- $11011 \times 1012 + 2101 \times 11011 = 11143132 + 23134111 := 34277243.$
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- $12122 \times 1001 + 1001 \times 22121 = 12134122 + 22143121 := 34277243.$
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- $10121 \times 1002 + 2001 \times 12101 = 10141242 + 24214101 := 34355343.$
- $10001 \times 1042 + 2401 \times 10001 = 10421042 + 24012401 := 34433443.$
- $10001 \times 1402 + 2041 \times 10001 = 14021402 + 20412041 := 34433443.$
- $10011 \times 1022 + 2201 \times 11001 = 10231242 + 24213201 := 34444443.$
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- $10011 \times 2211 + 1122 \times 11001 = 22134321 + 12343122 := 34477443.$
- $11112 \times 1011 + 1101 \times 21111 = 11234232 + 23243211 := 34477443.$
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- $12222 \times 1001 + 1001 \times 22221 = 12234222 + 22243221 := 34477443.$
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- $12032 \times 1001 + 1001 \times 23021 = 12044032 + 23044021 := 35088053.$
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- $11002 \times 1021 + 1201 \times 20011 = 11233042 + 24033211 := 35266253.$
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- $10011 \times 1302 + 2031 \times 11001 = 13034322 + 22343031 := 35377353.$
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- $10022 \times 1111 + 1111 \times 22001 = 11134442 + 24443111 := 35577553.$
- $11012 \times 1111 + 1111 \times 21011 = 12234332 + 23343221 := 35577553.$
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- $10403 \times 1001 + 1001 \times 30401 = 10413403 + 30431401 := 40844804.$
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- $11203 \times 1001 + 1001 \times 30211 = 11214203 + 30241211 := 41455414.$
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- $10102 \times 2101 + 1012 \times 20101 = 21224302 + 20342212 := 41566514.$
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- $20122 \times 1001 + 1001 \times 22102 = 20142122 + 22124102 := 42266224.$
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- $10013 \times 1101 + 1011 \times 31001 = 11024313 + 31342011 := 42366324.$

- $10002 \times 2201 + 1022 \times 20001 = 22014402 + 20441022 := 42455424.$
- $11003 \times 1101 + 1011 \times 30011 = 12114303 + 30341121 := 42455424.$
- $10111 \times 2002 + 2002 \times 11101 = 20242222 + 22224202 := 42466424.$
- $11213 \times 1001 + 1001 \times 31211 = 11224213 + 31242211 := 42466424.$
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- $11103 \times 1101 + 1011 \times 30111 = 12224403 + 30442221 := 42666624.$
- $11313 \times 1001 + 1001 \times 31311 = 11324313 + 31342311 := 42666624.$
- $20202 \times 1011 + 1101 \times 20202 = 20424222 + 22242402 := 42666624.$
- $20322 \times 1001 + 1001 \times 22302 = 20342322 + 22324302 := 42666624.$
- $10111 \times 3011 + 1103 \times 11101 = 30444221 + 12244403 := 42688624.$
- $10211 \times 2002 + 2002 \times 11201 = 20442422 + 22424402 := 42866824.$
- $10423 \times 1001 + 1001 \times 32401 = 10433423 + 32433401 := 42866824.$
- $11413 \times 1001 + 1001 \times 31411 = 11424413 + 31442411 := 42866824.$
- $20422 \times 1001 + 1001 \times 22402 = 20442422 + 22424402 := 42866824.$
- $21412 \times 1001 + 1001 \times 21412 = 21433412 + 21433412 := 42866824.$
- $10011 \times 1003 + 3001 \times 11001 = 10041033 + 33014001 := 43055034.$
- $10033 \times 1001 + 1001 \times 33001 = 10043033 + 33034001 := 43077034.$
- $11023 \times 1001 + 1001 \times 32011 = 11034023 + 32043011 := 43077034.$
- $21022 \times 1001 + 1001 \times 22012 = 21043022 + 22034012 := 43077034.$
- $10011 \times 2102 + 2012 \times 11001 = 21043122 + 22134012 := 43177134.$
- $10011 \times 2012 + 2102 \times 11001 = 20142132 + 23124102 := 43266234.$
- $10012 \times 2011 + 1102 \times 21001 = 20134132 + 23143102 := 43277234.$
- $10133 \times 1001 + 1001 \times 33101 = 10143133 + 33134101 := 43277234.$
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- $21122 \times 1001 + 1001 \times 22112 = 21143122 + 22134112 := 43277234.$
- $10002 \times 2111 + 1112 \times 20001 = 21114222 + 22241112 := 43355334.$
- $10103 \times 1011 + 1101 \times 30101 = 10214133 + 33141201 := 43355334.$
- $10011 \times 3111 + 1113 \times 11001 = 31144221 + 12244113 := 43388334.$
- $10111 \times 1003 + 3001 \times 11101 = 10141333 + 33314101 := 43455434.$
- $10011 \times 3021 + 1203 \times 11001 = 30243231 + 13234203 := 43477434.$
- $10233 \times 1001 + 1001 \times 33201 = 10243233 + 33234201 := 43477434.$
- $11223 \times 1001 + 1001 \times 32211 = 11234223 + 32243211 := 43477434.$
- $20112 \times 1101 + 1011 \times 21102 = 22143312 + 21334122 := 43477434.$
- $21222 \times 1001 + 1001 \times 22212 = 21243222 + 22234212 := 43477434.$
- $10111 \times 2012 + 2102 \times 11101 = 20343332 + 23334302 := 43677634.$
- $10333 \times 1001 + 1001 \times 33301 = 10343333 + 33334301 := 43677634.$
- $11323 \times 1001 + 1001 \times 32311 = 11334323 + 32343311 := 43677634.$
- $21322 \times 1001 + 1001 \times 22312 = 21343322 + 22334312 := 43677634.$
- $10101 \times 1033 + 3301 \times 10101 = 10434333 + 33343401 := 43777734.$
- $10101 \times 1123 + 3211 \times 10101 = 11343423 + 32434311 := 43777734.$
- $10101 \times 2122 + 2212 \times 10101 = 21434322 + 22343412 := 43777734.$
- $20212 \times 1011 + 1101 \times 21202 = 20434332 + 23343402 := 43777734.$
- $10433 \times 1001 + 1001 \times 33401 = 10443433 + 33434401 := 43877834.$
- $11423 \times 1001 + 1001 \times 32411 = 11434423 + 32443411 := 43877834.$
- $21422 \times 1001 + 1001 \times 22412 = 21443422 + 22434412 := 43877834.$
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- $11011 \times 2002 + 2002 \times 11011 = 22044022 + 22044022 := 44088044.$
- $11033 \times 1001 + 1001 \times 33011 = 11044033 + 33044011 := 44088044.$
- $22022 \times 1001 + 1001 \times 22022 = 22044022 + 22044022 := 44088044.$
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- $11003 \times 1011 + 1101 \times 30011 = 11124033 + 33042111 := 44166144.$

- $10002 \times 2021 + 1202 \times 20001 = 20214042 + 24041202 := 44255244.$
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- $10013 \times 1011 + 1101 \times 31001 = 10123143 + 34132101 := 44255244.$
- $10011 \times 2202 + 2022 \times 11001 = 22044222 + 22244022 := 44288244.$
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- $10001 \times 2042 + 2402 \times 10001 = 20422042 + 24022402 := 44444444.$
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- $10011 \times 3031 + 1303 \times 11001 = 30343341 + 14334303 := 44677644.$
- $20122 \times 1011 + 1101 \times 22102 = 20343342 + 24334302 := 44677644.$
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- $10011 \times 3131 + 1313 \times 11001 = 31344441 + 14444313 := 45788754.$
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- $10011 \times 1303 + 3031 \times 11001 = 13044333 + 33344031 := 46388364.$
- $10011 \times 1213 + 3121 \times 11001 = 12143343 + 34334121 := 46477464.$
- $10001 \times 1243 + 3421 \times 10001 = 12431243 + 34213421 := 46644664.$

- $10001 \times 1423 + 3241 \times 10001 = 14231423 + 32413241 := 46644664.$
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- $20002 \times 1121 + 1211 \times 20002 = 22422242 + 24222422 := 46644664.$
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- $10011 \times 2222 + 2222 \times 11001 = 22244442 + 24444222 := 46688664.$
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- $21012 \times 1111 + 1111 \times 21012 = 23344332 + 23344332 := 46688664.$
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- $10001 \times 1343 + 3431 \times 10001 = 13431343 + 34313431 := 47744774.$
- $10001 \times 1433 + 3341 \times 10001 = 14331433 + 33413341 := 47744774.$
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- $10001 \times 1004 + 4001 \times 10001 = 10041004 + 40014001 := 50055005.$
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- $10104 \times 1001 + 1001 \times 40101 = 10114104 + 40141101 := 50255205.$
- $10102 \times 1002 + 2001 \times 20101 = 10122204 + 40222101 := 50344305.$
- $10204 \times 1001 + 1001 \times 40201 = 10214204 + 40241201 := 50455405.$
- $10101 \times 1004 + 4001 \times 10101 = 10141404 + 40414101 := 50555505.$
- $10202 \times 1002 + 2001 \times 20201 = 10222404 + 40422201 := 50644605.$
- $10304 \times 1001 + 1001 \times 40301 = 10314304 + 40341301 := 50655605.$
- $10404 \times 1001 + 1001 \times 40401 = 10414404 + 40441401 := 50855805.$
- $20403 \times 1001 + 1001 \times 30402 = 20423403 + 30432402 := 50855805.$
- $10014 \times 1001 + 1001 \times 41001 = 10024014 + 41042001 := 51066015.$
- $11002 \times 1002 + 2001 \times 20011 = 11024004 + 40042011 := 51066015.$
- $21003 \times 1001 + 1001 \times 30012 = 21024003 + 30042012 := 51066015.$
- $10001 \times 1014 + 4101 \times 10001 = 10141014 + 41014101 := 51155115.$
- $10001 \times 1104 + 4011 \times 10001 = 11041104 + 40114011 := 51155115.$
- $10002 \times 1102 + 2011 \times 20001 = 11022204 + 40222011 := 51244215.$
- $10114 \times 1001 + 1001 \times 41101 = 10124114 + 41142101 := 51266215.$
- $21103 \times 1001 + 1001 \times 30112 = 21124103 + 30142112 := 51266215.$
- $11102 \times 1002 + 2001 \times 20111 = 11124204 + 40242111 := 51366315.$
- $10004 \times 1101 + 1011 \times 40001 = 11014404 + 40441011 := 51455415.$
- $10214 \times 1001 + 1001 \times 41201 = 10224214 + 41242201 := 51466415.$
- $21203 \times 1001 + 1001 \times 30212 = 21224203 + 30242212 := 51466415.$
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- $10101 \times 1014 + 4101 \times 10101 = 10242414 + 41424201 := 51666615.$
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- $21303 \times 1001 + 1001 \times 30312 = 21324303 + 30342312 := 51666615.$
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- $10024 \times 1001 + 1001 \times 42001 = 10034024 + 42043001 := 52077025.$
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- $10001 \times 1024 + 4201 \times 10001 = 10241024 + 42014201 := 52255225.$
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- $10124 \times 1001 + 1001 \times 42101 = 10134124 + 42143101 := 52277225.$
- $20123 \times 1001 + 1001 \times 32102 = 20143123 + 32134102 := 52277225.$
- $21113 \times 1001 + 1001 \times 31112 = 21134113 + 31143112 := 52277225.$
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- $20223 \times 1001 + 1001 \times 32202 = 20243223 + 32234202 := 52477425.$
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- $10001 \times 1124 + 4211 \times 10001 = 11241124 + 42114211 := 53355335.$
- $10001 \times 1214 + 4121 \times 10001 = 12141214 + 41214121 := 53355335.$
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- $10001 \times 2413 + 3142 \times 10001 = 24132413 + 31423142 := 55555555.$
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- $10001 \times 2443 + 3442 \times 10001 = 24432443 + 34423442 := 58855885.$
- $10001 \times 2004 + 4002 \times 10001 = 20042004 + 40024002 := 60066006.$
- $10002 \times 2002 + 2002 \times 20001 = 20024004 + 40042002 := 60066006.$
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- $20104 \times 1001 + 1001 \times 40102 = 20124104 + 40142102 := 60266206.$
- $20102 \times 1002 + 2001 \times 20102 = 20142204 + 40224102 := 60366306.$
- $10102 \times 2002 + 2002 \times 20101 = 20224204 + 40242202 := 60466406.$
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- $10101 \times 2004 + 4002 \times 10101 = 20242404 + 40424202 := 60666606.$
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- $20304 \times 1001 + 1001 \times 40302 = 20324304 + 40342302 := 60666606.$
- $10202 \times 2002 + 2002 \times 20201 = 20424404 + 40442402 := 60866806.$
- $20404 \times 1001 + 1001 \times 40402 = 20424404 + 40442402 := 60866806.$
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- $30013 \times 1001 + 1001 \times 31003 = 30043013 + 31034003 := 61077016.$
- $20012 \times 2001 + 1002 \times 21002 = 40044012 + 21044004 := 61088016.$
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- $10001 \times 2104 + 4012 \times 10001 = 21042104 + 40124012 := 61166116.$
- $10002 \times 2102 + 2012 \times 20001 = 21024204 + 40242012 := 61266216.$
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- $20112 \times 2001 + 1002 \times 21102 = 40244112 + 21144204 := 61388316.$
- $20214 \times 1001 + 1001 \times 41202 = 20234214 + 41243202 := 61477416.$
- $30213 \times 1001 + 1001 \times 31203 = 30243213 + 31234203 := 61477416.$
- $10102 \times 2102 + 2012 \times 20101 = 21234404 + 40443212 := 61677616.$
- $20314 \times 1001 + 1001 \times 41302 = 20334314 + 41343302 := 61677616.$
- $30313 \times 1001 + 1001 \times 31303 = 30343313 + 31334303 := 61677616.$
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- $13431 \times 10001 + 10001 \times 13431 = 134323431 + 134323431 := 268646862.$
- $13041 \times 10001 + 10001 \times 14031 = 130423041 + 140324031 := 270747072.$
- $13141 \times 10001 + 10001 \times 14131 = 131423141 + 141324131 := 272747272.$
- $13241 \times 10001 + 10001 \times 14231 = 132423241 + 142324231 := 274747472.$
- $13341 \times 10001 + 10001 \times 14331 = 133423341 + 143324331 := 276747672.$
- $13441 \times 10001 + 10001 \times 14431 = 134423441 + 144324431 := 278747872.$
- $14041 \times 10001 + 10001 \times 14041 = 140424041 + 140424041 := 280848082.$
- $14141 \times 10001 + 10001 \times 14141 = 141424141 + 141424141 := 282848282.$

- $14241 \times 10001 + 10001 \times 14241 = 142424241 + 142424241 := 284848482.$
- $14341 \times 10001 + 10001 \times 14341 = 143424341 + 143424341 := 286848682.$
- $14441 \times 10001 + 10001 \times 14441 = 144424441 + 144424441 := 288848882.$
- $10102 \times 10101 + 10101 \times 20101 = 102040302 + 203040201 := 305080503.$
- $10201 \times 10002 + 20001 \times 10201 = 102030402 + 204030201 := 306060603.$
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- $12012 \times 11001 + 10011 \times 21021 = 132144012 + 210441231 := 342585243.$
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- $20002 \times 10001 + 10001 \times 20002 = 200040002 + 200040002 := 400080004.$
- $10103 \times 10001 + 10001 \times 30101 = 101040103 + 301040101 := 402080204.$
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- $12303 \times 10001 + 10001 \times 30321 = 123042303 + 303240321 := 426282624.$
- $20322 \times 10001 + 10001 \times 22302 = 203240322 + 223042302 := 426282624.$
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- $11303 \times 11001 + 10011 \times 30311 = 124344303 + 303443421 := 427787724.$
- $10423 \times 10001 + 10001 \times 32401 = 104240423 + 324042401 := 428282824.$
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- $20132 \times 10001 + 10001 \times 23102 = 201340132 + 231043102 := 432383234.$



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- $11011 \times 10103 + 30101 \times 11011 = 111244133 + 331442111 := 442686244.$
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- $20102 \times 11011 + 11011 \times 20102 = 221343122 + 221343122 := 442686244.$
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- $20122 \times 10011 + 11001 \times 22102 = 201441342 + 243144102 := 444585444.$
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- $11102 \times 10002 + 20001 \times 20111 = 111042204 + 402240111 := 513282315.$
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- $10102 \times 10022 + 22001 \times 20101 = 101242244 + 442242101 := 543484345.$
- $12112 \times 10002 + 20001 \times 21121 = 121144224 + 422441121 := 543585345.$
- $10112 \times 10012 + 21001 \times 21101 = 101241344 + 443142101 := 544383445.$
- $10222 \times 10002 + 20001 \times 22201 = 102240444 + 444042201 := 546282645.$
- $12212 \times 10002 + 20001 \times 21221 = 122144424 + 424441221 := 546585645.$
- $10202 \times 10022 + 22001 \times 20201 = 102244444 + 444442201 := 546686645.$
- $11022 \times 10002 + 20001 \times 22011 = 110242044 + 440242011 := 550484055.$
- $11122 \times 10002 + 20001 \times 22111 = 111242244 + 442242111 := 553484355.$
- $11022 \times 10102 + 20101 \times 22011 = 111344244 + 442443111 := 553787355.$
- $11222 \times 10002 + 20001 \times 22211 = 112242444 + 444242211 := 556484655.$
- $12022 \times 10002 + 20001 \times 22021 = 120244044 + 440442021 := 560686065.$
- $12122 \times 10002 + 20001 \times 22121 = 121244244 + 442442121 := 563686365.$
- $12222 \times 10002 + 20001 \times 22221 = 122244444 + 444442221 := 566686665.$

#### 4.5. Digits 0, 1, 2, 3, 4 and 5.

Below are examples of *palindromic-type* numbers with digits 0, 1, 2, 3, 4 and 5 on both sides of the expression. In this case the final sum is not necessarily a palindrome. Since there are lot of examples, we have written only few. First column give the numbers with final sum palindromic and second column give the result with non palindromic sum.

- |   |   |
|---|---|
| • $1501 \times 1001 + 1001 \times 1051 = 1502501 + 1052051 := 2554552.$ | • $1551 \times 1001 + 1001 \times 1551 = 1552551 + 1552551 := 3105102.$ |
| • $1511 \times 1001 + 1001 \times 1151 = 1512511 + 1152151 := 2664662.$ | • $2001 \times 1002 + 2001 \times 1002 = 2005002 + 2005002 := 4010004.$ |
| • $1521 \times 1001 + 1001 \times 1251 = 1522521 + 1252251 := 2774772.$ | • $1552 \times 1001 + 1001 \times 2551 = 1553552 + 2553551 := 4107103.$ |
| • $1531 \times 1001 + 1001 \times 1351 = 1532531 + 1352351 := 2884882.$ | • $2001 \times 1012 + 2101 \times 1002 = 2025012 + 2105202 := 4130214.$ |
| • $1451 \times 1001 + 1001 \times 1541 = 1452451 + 1542541 := 2994992.$ | • $2001 \times 1102 + 2011 \times 1002 = 2205102 + 2015022 := 4220124.$ |
| • $1502 \times 1001 + 1001 \times 2051 = 1503502 + 2053051 := 3556553.$ | • $2001 \times 1022 + 2201 \times 1002 = 2045022 + 2205402 := 4250424.$ |
| • $1512 \times 1001 + 1001 \times 2151 = 1513512 + 2153151 := 3666663.$ | • $2001 \times 1112 + 2111 \times 1002 = 2225112 + 2115222 := 4340334.$ |
| • $1522 \times 1001 + 1001 \times 2251 = 1523522 + 2253251 := 3776773.$ | • $2001 \times 1202 + 2021 \times 1002 = 2405202 + 2025042 := 4430244.$ |
| • $1532 \times 1001 + 1001 \times 2351 = 1533532 + 2353351 := 3886883.$ | • $2001 \times 1122 + 2211 \times 1002 = 2245122 + 2215422 := 4460544.$ |
| • $1452 \times 1001 + 1001 \times 2541 = 1453452 + 2543541 := 3996993.$ | • $2001 \times 1212 + 2121 \times 1002 = 2425212 + 2125242 := 4550454.$ |
| • $1542 \times 1001 + 1001 \times 2451 = 1543542 + 2453451 := 3996993.$ | • $2001 \times 1222 + 2221 \times 1002 = 2445222 + 2225442 := 4670664.$ |
| • $1503 \times 1001 + 1001 \times 3051 = 1504503 + 3054051 := 4558554.$ | • $2003 \times 1001 + 1001 \times 3002 = 2005003 + 3005002 := 5010005.$ |
| • $1513 \times 1001 + 1001 \times 3151 = 1514513 + 3154151 := 4668664.$ | • $1553 \times 1001 + 1001 \times 3551 = 1554553 + 3554551 := 5109104.$ |
| • $1523 \times 1001 + 1001 \times 3251 = 1524523 + 3254251 := 4778774.$ | • $2003 \times 1101 + 1011 \times 3002 = 2205303 + 3035022 := 5240325.$ |
| • $1533 \times 1001 + 1001 \times 3351 = 1534533 + 3354351 := 4888884.$ | • $2003 \times 1011 + 1101 \times 3002 = 2025033 + 3305202 := 5330235.$ |
| • $1453 \times 1001 + 1001 \times 3541 = 1454453 + 3544541 := 4998994.$ | • $1504 \times 1001 + 1001 \times 4051 = 1505504 + 4055051 := 5560555.$ |
| • $1543 \times 1001 + 1001 \times 3451 = 1544543 + 3454451 := 4998994.$ | • $2003 \times 1111 + 1111 \times 3002 = 2225333 + 3335222 := 5560555.$ |

### 5. PALINDROMIC-TYPE NUMBERS WITH SQUARE

This subsection deals with square of *palindromic-type* numbers. This we have divided in two subsections. One when final sum is palindrome and and second when final sum is not a palindrome. This we have done only up to width 6, i.e., 6 digits.

#### 5.1. Palindromic Sum.

Below are numbers, where squaring each multiplicative factor in each palindromic-type number lead us to final sum as a palindrome:

- $1^2 + 1^2 = 1 + 1 := 2.$
- $2^2 + 2^2 = 4 + 4 := 8.$
- $11^2 + 11^2 = 121 + 121 := 242.$

- $12^2 + 21^2 = 144 + 441 := 585.$
- $101^2 + 101^2 = 10201 + 10201 := 20402.$
- $111^2 + 111^2 = 12321 + 12321 := 24642.$
- $102^2 + 201^2 = 10404 + 40401 := 50805.$
- $1001^2 + 1001^2 = 1002001 + 1002001 := 2004002.$
- $1011^2 + 1101^2 = 1022121 + 1212201 := 2234322.$
- $1111^2 + 1111^2 = 1234321 + 1234321 := 2468642.$
- $1021^2 + 1201^2 = 1042441 + 1442401 := 2484842.$
- $1002^2 + 2001^2 = 1004004 + 4004001 := 5008005.$
- $1102^2 + 2011^2 = 1214404 + 4044121 := 5258525.$
- $1012^2 + 2101^2 = 1024144 + 4414201 := 5438345.$
- $1022^2 + 2201^2 = 1044484 + 4844401 := 5888885.$
- $10001^2 + 10001^2 = 100020001 + 100020001 := 200040002.$
- $10101^2 + 10101^2 = 102030201 + 102030201 := 204060402.$
- $10011^2 + 11001^2 = 100220121 + 121022001 := 221242122.$
- $10111^2 + 11101^2 = 102232321 + 123232201 := 225464522.$
- $11011^2 + 11011^2 = 121242121 + 121242121 := 242484242.$
- $10021^2 + 12001^2 = 100420441 + 144024001 := 244444442.$
- $10121^2 + 12101^2 = 102434641 + 146434201 := 248868842.$
- $10031^2 + 13001^2 = 100620961 + 169026001 := 269646962.$
- $10002^2 + 20001^2 = 100040004 + 400040001 := 500080005.$
- $11002^2 + 20011^2 = 121044004 + 400440121 := 521484125.$
- $10012^2 + 21001^2 = 100240144 + 441042001 := 541282145.$
- $12002^2 + 20021^2 = 144048004 + 400840441 := 544888445.$
- $10022^2 + 22001^2 = 100440484 + 484044001 := 584484485.$
- $100001^2 + 100001^2 = 10000200001 + 10000200001 := 20000400002.$
- $100101^2 + 101001^2 = 10020210201 + 10201202001 := 20221412202.$
- $101101^2 + 101101^2 = 10221412201 + 10221412201 := 20442824402.$
- $100201^2 + 102001^2 = 10040240401 + 10404204001 := 20444444402.$
- $100301^2 + 103001^2 = 10060290601 + 10609206001 := 20669496602.$
- $100011^2 + 110001^2 = 10002200121 + 12100220001 := 22102420122.$
- $101011^2 + 110101^2 = 10203222121 + 12122230201 := 22325452322.$
- $100111^2 + 111001^2 = 10022212321 + 12321222001 := 22343434322.$
- $101111^2 + 111101^2 = 10223434321 + 12343432201 := 22566866522.$
- $100211^2 + 112001^2 = 10042244521 + 12544224001 := 22586468522.$
- $110011^2 + 110011^2 = 12102420121 + 12102420121 := 24204840242.$
- $100021^2 + 120001^2 = 10004200441 + 14400240001 := 24404440442.$
- $110111^2 + 111011^2 = 12124432321 + 12323442121 := 24447874442.$
- $101021^2 + 120101^2 = 10205242441 + 14424250201 := 24629492642.$
- $100121^2 + 121001^2 = 10024214641 + 14641242001 := 24665456642.$
- $100031^2 + 130001^2 = 10006200961 + 16900260001 := 26906460962.$
- $100002^2 + 200001^2 = 10000400004 + 40000400001 := 50000800005.$
- $101002^2 + 200101^2 = 10201404004 + 40040410201 := 50241814205.$
- $100102^2 + 201001^2 = 10020410404 + 40401402001 := 50421812405.$
- $102002^2 + 200201^2 = 10404408004 + 40080440401 := 50484848405.$
- $100202^2 + 202001^2 = 10040440804 + 40804404001 := 50844844805.$
- $110002^2 + 200011^2 = 12100440004 + 40004400121 := 52104840125.$
- $111002^2 + 200111^2 = 12321444004 + 40044412321 := 52365856325.$
- $110102^2 + 201011^2 = 12122450404 + 40405422121 := 52527872525.$
- $100012^2 + 210001^2 = 10002400144 + 44100420001 := 54102820145.$

- $101012^2 + 210101^2 = 10203424144 + 44142430201 := 54345854345.$
- $120002^2 + 200021^2 = 14400480004 + 40008400441 := 54408880445.$
- $100112^2 + 211001^2 = 10022412544 + 44521422001 := 54543834545.$
- $121002^2 + 200121^2 = 14641484004 + 40048414641 := 54689898645.$
- $100212^2 + 212001^2 = 10042444944 + 44944424001 := 54986868945.$
- $100022^2 + 220001^2 = 10004400484 + 48400440001 := 58404840485.$
- $101022^2 + 220101^2 = 10205444484 + 48444450201 := 58649894685.$
- $100122^2 + 221001^2 = 10024414884 + 48841442001 := 58865856885.$

## 5.2. Non Palindromic Sum.

Below are examples of square of *palindromic-type* numbers with square resulting in non palindromic numbers.

- $3^2 + 3^2 = 9 + 9 := 18.$
- $22^2 + 22^2 = 484 + 484 := 968.$
- $13^2 + 31^2 = 169 + 961 := 1130.$
- $121^2 + 121^2 = 14641 + 14641 := 29282.$
- $112^2 + 211^2 = 12544 + 44521 := 57065.$
- $122^2 + 221^2 = 14884 + 48841 := 63725.$
- $202^2 + 202^2 = 40804 + 40804 := 81608.$
- $212^2 + 212^2 = 44944 + 44944 := 89888.$
- $103^2 + 301^2 = 10609 + 90601 := 101210.$
- $113^2 + 311^2 = 12769 + 96721 := 109490.$
- $1121^2 + 1211^2 = 1256641 + 1466521 := 2723162.$
- $1031^2 + 1301^2 = 1062961 + 1692601 := 2755562.$
- $1202^2 + 2021^2 = 1444804 + 4084441 := 5529245.$
- $1112^2 + 2111^2 = 1236544 + 4456321 := 5692865.$
- $1212^2 + 2121^2 = 1468944 + 4498641 := 5967585.$
- $1122^2 + 2211^2 = 1258884 + 4888521 := 6147405.$
- $2002^2 + 2002^2 = 4008004 + 4008004 := 8016008.$
- $2012^2 + 2102^2 = 4048144 + 4418404 := 8466548.$
- $2022^2 + 2202^2 = 4088484 + 4848804 := 8937288.$
- $1003^2 + 3001^2 = 1006009 + 9006001 := 10012010.$
- $1103^2 + 3011^2 = 1216609 + 9066121 := 10282730.$
- $1013^2 + 3101^2 = 1026169 + 9616201 := 10642370.$
- $1113^2 + 3111^2 = 1238769 + 9678321 := 10917090.$
- $10201^2 + 10201^2 = 104060401 + 104060401 := 208120802.$
- $10211^2 + 11201^2 = 104264521 + 125462401 := 229726922.$
- $11111^2 + 11111^2 = 123454321 + 123454321 := 246908642.$
- $11211^2 + 11211^2 = 125686521 + 125686521 := 251373042.$
- $11021^2 + 12011^2 = 121462441 + 144264121 := 265726562.$
- $11121^2 + 12111^2 = 123676641 + 146676321 := 270352962.$
- $11031^2 + 13011^2 = 121682961 + 169286121 := 290969082.$
- $10102^2 + 20101^2 = 102050404 + 404050201 := 506100605.$
- $10202^2 + 20201^2 = 104080804 + 408080401 := 512161205.$
- $11102^2 + 20111^2 = 123254404 + 404452321 := 527706725.$
- $11202^2 + 20211^2 = 125484804 + 408484521 := 533969325.$
- $10112^2 + 21101^2 = 102252544 + 445252201 := 547504745.$
- $12102^2 + 20121^2 = 146458404 + 404854641 := 551313045.$
- $10212^2 + 21201^2 = 104284944 + 449482401 := 553767345.$

- $12202^2 + 20221^2 = 148888804 + 408888841 := 557777645.$
- $11012^2 + 21011^2 = 121264144 + 441462121 := 562726265.$
- $11112^2 + 21111^2 = 123476544 + 445674321 := 569150865.$
- $12012^2 + 21021^2 = 144288144 + 441882441 := 586170585.$
- $10122^2 + 22101^2 = 102454884 + 488454201 := 590909085.$
- $11022^2 + 22011^2 = 121484484 + 484484121 := 605968605.$
- $11122^2 + 22111^2 = 123698884 + 488896321 := 612595205.$
- $20002^2 + 20002^2 = 400080004 + 400080004 := 800160008.$
- $20102^2 + 20102^2 = 404090404 + 404090404 := 808180808.$
- $20012^2 + 21002^2 = 400480144 + 441084004 := 841564148.$
- $20112^2 + 21102^2 = 404492544 + 445294404 := 849786948.$
- $20022^2 + 22002^2 = 400880484 + 484088004 := 884968488.$
- $20122^2 + 22102^2 = 404894884 + 488498404 := 893393288.$
- $10003^2 + 30001^2 = 100060009 + 900060001 := 1000120010.$
- $10103^2 + 30101^2 = 102070609 + 906070201 := 1008140810.$
- $11003^2 + 30011^2 = 121066009 + 900660121 := 1021726130.$
- $11103^2 + 30111^2 = 123276609 + 906672321 := 1029948930.$
- $10013^2 + 31001^2 = 100260169 + 961062001 := 1061322170.$
- $10113^2 + 31101^2 = 102272769 + 967272201 := 1069544970.$
- $11013^2 + 31011^2 = 121286169 + 961682121 := 1082968290.$
- $11113^2 + 31111^2 = 123498769 + 967894321 := 1091393090.$
  
- $101201^2 + 102101^2 = 10241642401 + 10424614201 := 20666256602.$
- $101301^2 + 103101^2 = 10261892601 + 10629816201 := 20891708802.$
- $102011^2 + 110201^2 = 10406244121 + 12144260401 := 22550504522.$
- $102111^2 + 111201^2 = 10426656321 + 12365662401 := 22792318722.$
- $101211^2 + 112101^2 = 10243666521 + 12566634201 := 22810300722.$
- $100311^2 + 113001^2 = 10062296721 + 12769226001 := 22831522722.$
- $111111^2 + 111111^2 = 12345654321 + 12345654321 := 24691308642.$
- $110211^2 + 112011^2 = 12146464521 + 12546464121 := 24692928642.$
- $102021^2 + 120201^2 = 10408284441 + 14448280401 := 24856564842.$
- $101121^2 + 121101^2 = 10225456641 + 14665452201 := 24890908842.$
- $100221^2 + 122001^2 = 10044248841 + 14884244001 := 24928492842.$
- $111211^2 + 112111^2 = 12367886521 + 12568876321 := 24936762842.$
- $102121^2 + 121201^2 = 10428698641 + 14689682401 := 25118381042.$
- $110021^2 + 120011^2 = 12104620441 + 14402640121 := 26507260562.$
- $111021^2 + 120111^2 = 12325662441 + 14426652321 := 26752314762.$
- $110121^2 + 121011^2 = 12126634641 + 14643662121 := 26770296762.$
- $111121^2 + 121111^2 = 12347876641 + 14667874321 := 27015750962.$
- $110221^2 + 122011^2 = 12148668841 + 14886684121 := 27035352962.$
- $101031^2 + 130101^2 = 10207262961 + 16926270201 := 27133533162.$
- $110031^2 + 130011^2 = 12106820961 + 16902860121 := 29009681082.$
- $111031^2 + 130111^2 = 12327882961 + 16928872321 := 29256755282.$
- $101102^2 + 201101^2 = 10221614404 + 40441612201 := 50663226605.$
- $102102^2 + 201201^2 = 10424818404 + 40481842401 := 50906660805.$
- $101202^2 + 202101^2 = 10241844804 + 40844814201 := 51086659005.$
- $110102^2 + 201011^2 = 12122450404 + 40405422121 := 52527872525.$
- $112002^2 + 200211^2 = 12544448004 + 40084444521 := 52628892525.$
- $111102^2 + 201111^2 = 12343654404 + 40445634321 := 52789288725.$
- $110202^2 + 202011^2 = 12144480804 + 40808444121 := 52952924925.$
- $112102^2 + 201211^2 = 12566858404 + 40485866521 := 53052724925.$
- $111202^2 + 202111^2 = 12365884804 + 40848856321 := 53214741125.$
- $102012^2 + 210201^2 = 10406448144 + 44184460401 := 54590908545.$
- $101112^2 + 211101^2 = 10223636544 + 44563632201 := 54787268745.$



- $120102^2 + 201021^2 = 14424490404 + 40409442441 := 54833932845.$
- $122002^2 + 200221^2 = 14884488004 + 40088448841 := 54972936845.$
- $121102^2 + 201121^2 = 14665694404 + 40449656641 := 55115351045.$
- $101212^2 + 212101^2 = 10243868944 + 44986834201 := 55230703145.$
- $110012^2 + 210011^2 = 12102640144 + 44104620121 := 56207260265.$
- $111012^2 + 210111^2 = 12323664144 + 44146632321 := 56470296465.$
- $110112^2 + 211011^2 = 12124652544 + 44525642121 := 56650294665.$
- $112012^2 + 210211^2 = 12546688144 + 44188664521 := 56735352665.$
- $111112^2 + 211111^2 = 12345876544 + 44567854321 := 56913730865.$
- $110212^2 + 212011^2 = 12146684944 + 44948664121 := 57095349065.$
- $120012^2 + 210021^2 = 14402880144 + 44108820441 := 58511700585.$
- $102022^2 + 220201^2 = 10408488484 + 48488480401 := 58896968885.$
- $120112^2 + 211021^2 = 14426892544 + 44529862441 := 58956754985.$
- $101122^2 + 221101^2 = 10225658884 + 48885652201 := 59111311085.$
- $110022^2 + 220011^2 = 12104840484 + 48404840121 := 60509680605.$
- $111022^2 + 220111^2 = 12325884484 + 48448852321 := 60774736805.$
- $110122^2 + 221011^2 = 12126854884 + 48845862121 := 60972717005.$
- $200002^2 + 200002^2 = 40000800004 + 40000800004 := 80001600008.$
- $200102^2 + 201002^2 = 40040810404 + 40401804004 := 80442614408.$
- $200202^2 + 202002^2 = 40080840804 + 40804808004 := 80885648808.$
- $200012^2 + 210002^2 = 40004800144 + 44100840004 := 84105640148.$
- $201012^2 + 210102^2 = 40405824144 + 44142850404 := 84548674548.$
- $200112^2 + 211002^2 = 40044812544 + 44521844004 := 84566656548.$
- $202012^2 + 210202^2 = 40808848144 + 44184880804 := 84993728948.$
- $200212^2 + 212002^2 = 40084844944 + 44944848004 := 85029692948.$
- $200022^2 + 220002^2 = 40008800484 + 48400880004 := 88409680488.$
- $201022^2 + 220102^2 = 40409844484 + 48444890404 := 88854734888.$
- $200122^2 + 221002^2 = 40048814884 + 48841884004 := 88890698888.$
- $100003^2 + 300001^2 = 10000600009 + 90000600001 := 100001200010.$
- $101003^2 + 300101^2 = 10201606009 + 90060610201 := 100262216210.$
- $100103^2 + 301001^2 = 10020610609 + 90601602001 := 100622212610.$
- $101103^2 + 301101^2 = 10221816609 + 90661812201 := 100883628810.$
- $110003^2 + 300011^2 = 12100660009 + 90006600121 := 102107260130.$
- $111003^2 + 300111^2 = 12321666009 + 90066612321 := 102388278330.$
- $110103^2 + 301011^2 = 12122670609 + 90607622121 := 102730292730.$
- $111103^2 + 301111^2 = 12343876609 + 90667834321 := 103011710930.$
- $100013^2 + 310001^2 = 10002600169 + 96100620001 := 106103220170.$
- $101013^2 + 310101^2 = 10203626169 + 96162630201 := 106366256370.$
- $100113^2 + 311001^2 = 10022612769 + 96721622001 := 106744234770.$
- $101113^2 + 311101^2 = 10223838769 + 96783832201 := 107007670970.$
- $110013^2 + 310011^2 = 12102860169 + 96106820121 := 108209680290.$
- $111013^2 + 310111^2 = 12323886169 + 96168832321 := 108492718490.$
- $110113^2 + 311011^2 = 12124872769 + 96727842121 := 108852714890.$

## 6. SAME DIGITS MULTIPLICATIVE FACTORS

In this section, we shall give *palindromic-type* numbers formed by equal number of digits in each multiplicative factor. In each factor same digits are used. This we have divided in two subsections, one resulting in palindromic sum and another resulting in non palindromic sum. We worked only up to width 6, i.e, up to 6 digits.

## 6.1. Palindromic Sum.

- $1101 \times 1011 + 1101 \times 1011 = 1113111 + 1113111 := 2226222.$
- $1201 \times 1102 + 2011 \times 1021 = 1323502 + 2053231 := 3376733.$
- $1021 \times 1012 + 2101 \times 1201 = 1033252 + 2523301 := 3556553.$
  
- $10101 \times 10011 + 11001 \times 10101 = 101121111 + 111121101 := 212242212.$
- $11001 \times 10011 + 11001 \times 10011 = 110131011 + 110131011 := 220262022.$
- $11101 \times 10111 + 11101 \times 10111 = 112242211 + 112242211 := 224484422.$
- $10201 \times 10021 + 12001 \times 10201 = 102224221 + 122422201 := 224646422.$
- $11011 \times 10111 + 11101 \times 11011 = 111332221 + 122233111 := 233565332.$
- $10211 \times 10121 + 12101 \times 11201 = 103345531 + 135543301 := 238888832.$
- $11021 \times 10121 + 12101 \times 12011 = 111543541 + 145345111 := 256888652.$
- $10201 \times 10012 + 21001 \times 10201 = 102132412 + 214231201 := 316363613.$
- $11002 \times 10201 + 10201 \times 20011 = 112231402 + 204132211 := 316363613.$
- $12001 \times 10102 + 20101 \times 10021 = 121234102 + 201432121 := 322666223.$
- $12001 \times 11002 + 20011 \times 10021 = 132035002 + 200530231 := 332565233.$
- $11201 \times 11012 + 21011 \times 10211 = 123345412 + 214543321 := 337888733.$
- $12101 \times 11102 + 20111 \times 10121 = 134345302 + 203543431 := 337888733.$
- $10102 \times 10021 + 12001 \times 20101 = 101232142 + 241232101 := 342464243.$
- $11012 \times 10211 + 11201 \times 21011 = 112443532 + 235344211 := 347787743.$
- $10021 \times 10012 + 21001 \times 12001 = 100330252 + 252033001 := 352363253.$
- $12011 \times 11102 + 20111 \times 11021 = 133346122 + 221643331 := 354989453.$
- $10121 \times 10112 + 21101 \times 12101 = 102343552 + 255343201 := 357686753.$
- $11021 \times 10112 + 21101 \times 12011 = 111444352 + 253444111 := 364888463.$
- $10103 \times 10031 + 13001 \times 30101 = 101343193 + 391343101 := 492686294.$
- $11002 \times 10102 + 20101 \times 20011 = 111142204 + 402241111 := 513383315.$
- $10102 \times 10012 + 21001 \times 20101 = 101141224 + 422141101 := 523282325.$
- $12002 \times 10202 + 20201 \times 20021 = 122444404 + 404444221 := 526888625.$
- $10202 \times 10022 + 22001 \times 20201 = 102244444 + 444442201 := 546686645.$
  
- $101001 \times 100101 + 101001 \times 100101 = 10110301101 + 10110301101 := 20220602202.$
- $101001 \times 100011 + 110001 \times 100101 = 10101211011 + 11011210101 := 21112421112.$
- $100101 \times 100011 + 110001 \times 101001 = 10011201111 + 11110211001 := 21121412112.$
- $101101 \times 100111 + 111001 \times 101101 = 10121322211 + 11222312101 := 21343634312.$
- $101101 \times 101011 + 110101 \times 101101 = 10212313111 + 11131321201 := 21343634312.$
- $102101 \times 102011 + 110201 \times 101201 = 10415425111 + 11152451401 := 21567876512.$
- $101201 \times 100211 + 112001 \times 102101 = 10141453411 + 11435414101 := 21576867512.$
- $110001 \times 100011 + 110001 \times 100011 = 11001310011 + 11001310011 := 22002620022.$
- $111001 \times 100111 + 111001 \times 100111 = 11112421111 + 11112421111 := 22224842222.$
- $102001 \times 100021 + 120001 \times 100201 = 10202242021 + 12024220201 := 22226462222.$
- $110101 \times 100111 + 111001 \times 101011 = 11022321211 + 11212322011 := 22234643222.$
- $110101 \times 101011 + 110101 \times 101011 = 11121412111 + 11121412111 := 22242824222.$
- $110011 \times 101101 + 101101 \times 110011 = 11122222111 + 11122222111 := 22244444222.$
- $100201 \times 100021 + 120001 \times 102001 = 10022204221 + 12240222001 := 22262426222.$
- $101011 \times 100111 + 111001 \times 110101 = 10112312221 + 12221321101 := 22333633322.$
- $100111 \times 100111 + 111001 \times 111001 = 10022212321 + 12321222001 := 22343434322.$
- $102101 \times 100121 + 121001 \times 101201 = 10222454221 + 12245422201 := 22467876422.$
- $102101 \times 101021 + 120101 \times 101201 = 10314345121 + 12154341301 := 22468686422.$
- $110201 \times 100211 + 112001 \times 102011 = 11043352411 + 11425334011 := 22468686422.$
- $101201 \times 101021 + 120101 \times 102101 = 10223426221 + 12262432201 := 22485858422.$
- $101201 \times 100121 + 121001 \times 102101 = 10132345321 + 12354323101 := 22486668422.$
- $110011 \times 100111 + 111001 \times 110011 = 11013311221 + 12211331011 := 23224642232.$
- $110011 \times 101011 + 110101 \times 110011 = 11112321121 + 12112321111 := 23224642232.$

- $112001 \times 101021 + 120101 \times 100211 = 11314453021 + 12035441311 := 23349894332.$
- $110201 \times 100121 + 121001 \times 102011 = 11033434321 + 12343433011 := 23376867332.$
- $110021 \times 102101 + 101201 \times 120011 = 11233254121 + 12145233211 := 23378487332.$
- $110021 \times 101201 + 102101 \times 120011 = 11134235221 + 12253243111 := 23387478332.$
- $111011 \times 101111 + 111101 \times 110111 = 11224433221 + 12233442211 := 23457875432.$
- $110111 \times 101111 + 111101 \times 111011 = 11133433321 + 12333433111 := 23466866432.$
- $102011 \times 100121 + 121001 \times 110201 = 10213443331 + 13334431201 := 23547874532.$
- $101021 \times 100211 + 112001 \times 120101 = 10123415431 + 13451432101 := 23574847532.$
- $100211 \times 100121 + 121001 \times 112001 = 10033225531 + 13552233001 := 23585458532.$
- $112001 \times 110021 + 120011 \times 100211 = 12322462021 + 12026422321 := 24348884342.$
- $110201 \times 110021 + 120011 \times 102011 = 12124424221 + 12242442121 := 24366866342.$
- $110021 \times 102011 + 110201 \times 120011 = 11223352231 + 13225332211 := 24448684442.$
- $120011 \times 112001 + 100211 \times 110021 = 13441352011 + 11025314431 := 24466666442.$
- $101021 \times 101021 + 120101 \times 120101 = 10205242441 + 14424250201 := 24629492642.$
- $101021 \times 100121 + 121001 \times 120101 = 10114323541 + 14532341101 := 24646664642.$
- $100121 \times 100121 + 121001 \times 121001 = 10024214641 + 14641242001 := 24665456642.$
- $110021 \times 101021 + 120101 \times 120011 = 11114431441 + 14413441111 := 25527872552.$
- $110021 \times 100121 + 121001 \times 120011 = 11015412541 + 14521451011 := 25536863552.$
- $102001 \times 101002 + 200101 \times 100201 = 10302305002 + 20050320301 := 30352625303.$
- $100201 \times 100102 + 201001 \times 102001 = 10030320502 + 20502303001 := 30532623503.$
- $102001 \times 100012 + 210001 \times 100201 = 10201324012 + 21042310201 := 31243634213.$
- $110002 \times 102001 + 100201 \times 200011 = 11220314002 + 20041302211 := 31261616213.$
- $110002 \times 100201 + 102001 \times 200011 = 11022310402 + 20401322011 := 31423632413.$
- $100201 \times 100012 + 210001 \times 102001 = 10021302412 + 21420312001 := 31441614413.$
- $102101 \times 101012 + 210101 \times 101201 = 10313426212 + 21262431301 := 31575857513.$
- $111002 \times 102101 + 101201 \times 200111 = 11333415202 + 20251433311 := 31584848513.$
- $110102 \times 101201 + 102101 \times 201011 = 11142432502 + 20523424111 := 31665856613.$
- $101201 \times 100112 + 211001 \times 102101 = 10131434512 + 21543413101 := 31674847613.$
- $120001 \times 100102 + 201001 \times 100021 = 12012340102 + 20104321021 := 32116661123.$
- $120001 \times 101002 + 200101 \times 100021 = 12120341002 + 20014302121 := 32134643123.$
- $112001 \times 101012 + 210101 \times 100211 = 11313445012 + 21054431311 := 32367876323.$
- $121001 \times 101102 + 201101 \times 100121 = 12233443102 + 20134433221 := 32367876323.$
- $120101 \times 101102 + 201101 \times 101021 = 12142451302 + 20315424121 := 32457875423.$
- $110012 \times 102101 + 101201 \times 210011 = 11232335212 + 21253323211 := 32485658423.$
- $112001 \times 111002 + 200111 \times 100211 = 12432335002 + 20053323421 := 32485658423.$
- $110201 \times 100112 + 211001 \times 102011 = 11032442512 + 21524423011 := 32556865523.$
- $110012 \times 101201 + 102101 \times 210011 = 11133324412 + 21442333111 := 32575657523.$
- $110201 \times 110102 + 201011 \times 102011 = 12133350502 + 20505333121 := 32638683623.$
- $112001 \times 110012 + 210011 \times 100211 = 12321454012 + 21045412321 := 33366866333.$
- $111002 \times 102011 + 110201 \times 200111 = 11323425022 + 22052432311 := 33375857333.$
- $121001 \times 110102 + 201011 \times 100121 = 13322452102 + 20125422331 := 33447874433.$
- $121001 \times 111002 + 200111 \times 100121 = 13431353002 + 20035313431 := 33466666433.$
- $120101 \times 110102 + 201011 \times 101021 = 13223360302 + 20306332231 := 33529692533.$
- $110102 \times 100211 + 112001 \times 201011 = 11033431522 + 22513433011 := 33546864533.$
- $110201 \times 110012 + 210011 \times 102011 = 12123432412 + 21423432121 := 33546864533.$
- $120101 \times 111002 + 200111 \times 101021 = 13331451202 + 20215413331 := 33546864533.$
- $100211 \times 100112 + 211001 \times 112001 = 10032323632 + 23632323001 := 33664646633.$
- $101002 \times 100021 + 120001 \times 200101 = 10102321042 + 24012320101 := 34114641143.$
- $100102 \times 100021 + 120001 \times 201001 = 10012302142 + 24120321001 := 34132623143.$
- $101102 \times 101021 + 120101 \times 201101 = 10213425142 + 24152431201 := 34365856343.$
- $110012 \times 102011 + 110201 \times 210011 = 11222434132 + 23143422211 := 34365856343.$
- $101102 \times 100121 + 121001 \times 201101 = 10122433342 + 24333422101 := 34455855443.$
- $110012 \times 100211 + 112001 \times 210011 = 11024412532 + 23521442011 := 34545854543.$
- $100021 \times 100012 + 210001 \times 120001 = 10003300252 + 25200330001 := 35203630253.$

- $110021 \times 101102 + 201101 \times 120011 = 11123343142 + 24134332111 := 35257675253.$
- $120011 \times 110102 + 201011 \times 110021 = 13213451122 + 22115431231 := 35328882353.$
- $120011 \times 111002 + 200111 \times 110021 = 13321461022 + 22016412331 := 35337873353.$
- $101021 \times 101012 + 210101 \times 120101 = 10204333252 + 25233340201 := 35437673453.$
- $101021 \times 100112 + 211001 \times 120101 = 10113414352 + 25341431101 := 35454845453.$
- $101012 \times 100121 + 121001 \times 210101 = 10113422452 + 25422431101 := 35535853553.$
- $100121 \times 100112 + 211001 \times 121001 = 10023313552 + 25531332001 := 35554645553.$
- $110021 \times 101012 + 210101 \times 120011 = 11113441252 + 25214431111 := 36327872363.$
- $110021 \times 100112 + 211001 \times 120011 = 11014422352 + 25322441011 := 36336863363.$
- $100221 \times 100122 + 221001 \times 122001 = 10034326962 + 26962343001 := 36996669963.$
- $103001 \times 100013 + 310001 \times 100301 = 10301439013 + 31093410301 := 41394849314.$
- $110003 \times 100301 + 103001 \times 300011 = 11033410903 + 30901433011 := 41934843914.$
- $100301 \times 100013 + 310001 \times 103001 = 10031403913 + 31930413001 := 41961816914.$
- $130001 \times 101003 + 300101 \times 100031 = 13130491003 + 30019403131 := 43149894134.$
- $101003 \times 100031 + 130001 \times 300101 = 10103431093 + 39013430101 := 49116861194.$
- $100103 \times 100031 + 130001 \times 301001 = 10013403193 + 39130431001 := 49143834194.$
- $110002 \times 101002 + 200101 \times 200011 = 11110422004 + 40022401111 := 51132823115.$
- $110002 \times 100102 + 201001 \times 200011 = 11011420204 + 40202411011 := 51213831215.$
- $110002 \times 110002 + 200011 \times 200011 = 12100440004 + 40004400121 := 52104840125.$
- $101002 \times 100012 + 210001 \times 200101 = 10101412024 + 42021410101 := 52122822125.$
- $100102 \times 100012 + 210001 \times 201001 = 10011401224 + 42210411001 := 52221812225.$
- $120002 \times 102002 + 200201 \times 200021 = 12240444004 + 40044404221 := 52284848225.$
- $120002 \times 100202 + 202001 \times 200021 = 12024440404 + 40404442021 := 52428882425.$
- $111002 \times 100112 + 211001 \times 200111 = 11112632224 + 42223621111 := 53336253335.$
- $110012 \times 101102 + 201101 \times 210011 = 11122433224 + 42233422111 := 53355855335.$
- $102002 \times 100022 + 220001 \times 200201 = 10202444044 + 44044420201 := 54246864245.$
- $100202 \times 100022 + 220001 \times 202001 = 10022404444 + 44440422001 := 54462826445.$
- $100112 \times 100112 + 211001 \times 211001 = 10022412544 + 44521422001 := 54543834545.$
- $110022 \times 102102 + 201201 \times 220011 = 11233466244 + 44266433211 := 55499899455.$
- $100212 \times 100122 + 221001 \times 212001 = 10033425864 + 46852433001 := 56885858865.$

## 6.2. Non Palindromic Sum.

- $21 \times 12 + 21 \times 12 = 252 + 252 := 504.$
- $121 \times 112 + 211 \times 121 = 13552 + 25531 := 39083.$
- $201 \times 102 + 201 \times 102 = 20502 + 20502 := 41004.$
- $211 \times 112 + 211 \times 112 = 23632 + 23632 := 47264.$
- $221 \times 122 + 221 \times 122 = 26962 + 26962 := 53924.$
- $212 \times 122 + 221 \times 212 = 25864 + 46852 := 72716.$
- $1201 \times 1021 + 1201 \times 1021 = 1226221 + 1226221 := 2452442.$
- $1211 \times 1121 + 1211 \times 1121 = 1357531 + 1357531 := 2715062.$
- $1201 \times 1012 + 2101 \times 1021 = 1215412 + 2145121 := 3360533.$
- $1102 \times 1021 + 1201 \times 2011 = 1125142 + 2415211 := 3540353.$
- $1211 \times 1112 + 2111 \times 1121 = 1346632 + 2366431 := 3713063.$
- $1121 \times 1112 + 2111 \times 1211 = 1246552 + 2556421 := 3802973.$
- $2001 \times 1002 + 2001 \times 1002 = 2005002 + 2005002 := 4010004.$
- $1221 \times 1122 + 2211 \times 1221 = 1369962 + 2699631 := 4069593.$
- $1221 \times 1212 + 2121 \times 1221 = 1479852 + 2589741 := 4069593.$
- $2101 \times 1012 + 2101 \times 1012 = 2126212 + 2126212 := 4252424.$
- $2011 \times 1012 + 2101 \times 1102 = 2035132 + 2315302 := 4350434.$
- $2011 \times 1102 + 2011 \times 1102 = 2216122 + 2216122 := 4432244.$
- $2201 \times 1022 + 2201 \times 1022 = 2249422 + 2249422 := 4498844.$

- $1301 \times 1013 + 3101 \times 1031 = 1317913 + 3197131 := 4515044.$
  - $2111 \times 1112 + 2111 \times 1112 = 2347432 + 2347432 := 4694864.$
  - $2021 \times 1022 + 2201 \times 1202 = 2065462 + 2645602 := 4711064.$
  - $2021 \times 1202 + 2021 \times 1202 = 2429242 + 2429242 := 4858484.$
  - $1103 \times 1031 + 1301 \times 3011 = 1137193 + 3917311 := 5054504.$
  - $2121 \times 1122 + 2211 \times 1212 = 2379762 + 2679732 := 5059494.$
  - $2031 \times 1032 + 2301 \times 1302 = 2095992 + 2995902 := 5091894.$
  - $2112 \times 1221 + 1221 \times 2112 = 2578752 + 2578752 := 5157504.$
  - $1102 \times 1012 + 2101 \times 2011 = 1115224 + 4225111 := 5340335.$
  - $1202 \times 1022 + 2201 \times 2021 = 1228444 + 4448221 := 5676665.$
  - $1212 \times 1122 + 2211 \times 2121 = 1359864 + 4689531 := 6049395.$
  - $2102 \times 1022 + 2201 \times 2012 = 2148244 + 4428412 := 6576656.$
  - $2021 \times 2012 + 2102 \times 1202 = 4066252 + 2526604 := 6592856.$
  - $2012 \times 1202 + 2021 \times 2102 = 2418424 + 4248142 := 6666566.$
  - $2012 \times 1022 + 2201 \times 2102 = 2056264 + 4626502 := 6682766.$
  - $2112 \times 1122 + 2211 \times 2112 = 2369664 + 4669632 := 7039296.$
  - $2112 \times 1212 + 2121 \times 2112 = 2559744 + 4479552 := 7039296.$
  - $2102 \times 2012 + 2102 \times 2012 = 4229224 + 4229224 := 8458448.$
  - $1103 \times 1013 + 3101 \times 3011 = 1117339 + 9337111 := 10454450.$
  - $2103 \times 1203 + 3021 \times 3012 = 2529909 + 9099252 := 11629161.$
  - $2013 \times 1023 + 3201 \times 3102 = 2059299 + 9929502 := 11988801.$
- 
- $11201 \times 10211 + 11201 \times 10211 = 114373411 + 114373411 := 228746822.$
  - $11201 \times 10121 + 12101 \times 10211 = 113365321 + 123563311 := 236928632.$
  - $10301 \times 10031 + 13001 \times 10301 = 103329331 + 133923301 := 237252632.$
  - $12001 \times 10021 + 12001 \times 10021 = 120262021 + 120262021 := 240524042.$
  - $12101 \times 10121 + 12101 \times 10121 = 122474221 + 122474221 := 244948442.$
  - $11201 \times 11021 + 12011 \times 10211 = 123446221 + 122644321 := 246090542.$
  - $11021 \times 10211 + 11201 \times 12011 = 112535431 + 134535211 := 247070642.$
  - $12011 \times 10121 + 12101 \times 11021 = 121563331 + 133365121 := 254928452.$
  - $11211 \times 11121 + 12111 \times 11211 = 124677531 + 135776421 := 260453952.$
  - $12011 \times 11021 + 12011 \times 11021 = 132373231 + 132373231 := 264746462.$
  - $12111 \times 11121 + 12111 \times 11121 = 134686431 + 134686431 := 269372862.$
  - $12021 \times 10221 + 12201 \times 12021 = 122866641 + 146668221 := 269534862.$
  - $10201 \times 10102 + 20101 \times 10201 = 103050502 + 205050301 := 308100803.$
  - $11201 \times 10112 + 21101 \times 10211 = 113264512 + 215462311 := 328726823.$
  - $11201 \times 11102 + 20111 \times 10211 = 124353502 + 205353421 := 329706923.$
  - $12001 \times 10012 + 21001 \times 10021 = 120154012 + 210451021 := 330605033.$
  - $12101 \times 10112 + 21101 \times 10121 = 122365312 + 213563221 := 335928533.$
  - $11102 \times 10211 + 11201 \times 20111 = 113362522 + 225263311 := 338625833.$
  - $10211 \times 10112 + 21101 \times 11201 = 103253632 + 236352301 := 339605933.$
  - $12201 \times 10212 + 21201 \times 10221 = 124596612 + 216695421 := 341292033.$
  - $12201 \times 11202 + 20211 \times 10221 = 136675602 + 206576631 := 343252233.$
  - $12101 \times 11012 + 21011 \times 10121 = 133256212 + 212652331 := 345908543.$
  - $12201 \times 10122 + 22101 \times 10221 = 123498522 + 225894321 := 349392843.$
  - $11002 \times 10021 + 12001 \times 20011 = 110251042 + 240152011 := 350403053.$
  - $12201 \times 12102 + 20121 \times 10221 = 147656502 + 205656741 := 353313243.$
  - $12011 \times 10112 + 21101 \times 11021 = 121455232 + 232554121 := 354009353.$
  - $11102 \times 10121 + 12101 \times 20111 = 112363342 + 243363211 := 355726553.$
  - $12201 \times 11022 + 22011 \times 10221 = 134479422 + 224974431 := 359453853.$
  - $11202 \times 10221 + 12201 \times 20211 = 114495642 + 246594411 := 361090053.$
  - $11211 \times 11112 + 21111 \times 11211 = 124576632 + 236675421 := 361252053.$
  - $12201 \times 12012 + 21021 \times 10221 = 146558412 + 214855641 := 361414053.$
  - $10221 \times 10212 + 21201 \times 12201 = 104376852 + 258673401 := 363050253.$

- $12011 \times 11012 + 21011 \times 11021 = 132265132 + 231562231 := 363827363.$
- $11102 \times 11021 + 12011 \times 20111 = 122355142 + 241553221 := 363908363.$
- $11012 \times 10121 + 12101 \times 21011 = 111452452 + 254254111 := 365706563.$
- $12102 \times 10221 + 12201 \times 20121 = 123694542 + 245496321 := 369190863.$
- $12111 \times 11112 + 21111 \times 11121 = 134577432 + 234775431 := 369352863.$
- $10221 \times 10122 + 22101 \times 12201 = 103456962 + 269654301 := 373111263.$
- $11021 \times 11012 + 21011 \times 12011 = 121363252 + 252363121 := 373726373.$
- $12021 \times 10212 + 21201 \times 12021 = 122758452 + 254857221 := 377615673.$
- $12021 \times 11202 + 20211 \times 12021 = 134659242 + 242956431 := 377615673.$
- $11121 \times 11112 + 21111 \times 12111 = 123576552 + 255675321 := 379251873.$
- $12012 \times 10221 + 12201 \times 21021 = 122774652 + 256477221 := 379251873.$
- $11022 \times 10221 + 12201 \times 22011 = 112655862 + 268556211 := 381212073.$
- $12211 \times 12112 + 21121 \times 11221 = 147899632 + 236998741 := 384898373.$
- $12021 \times 10122 + 22101 \times 12021 = 121676562 + 265676121 := 387352683.$
- $12102 \times 12021 + 12021 \times 20121 = 145478142 + 241874541 := 387352683.$
- $11221 \times 11122 + 22111 \times 12211 = 124799962 + 269997421 := 394797383.$
- $12021 \times 11022 + 22011 \times 12021 = 132495462 + 264594231 := 397089693.$
- $12021 \times 12012 + 21021 \times 12021 = 144396252 + 252693441 := 397089693.$
- $20001 \times 10002 + 20001 \times 10002 = 200050002 + 200050002 := 400100004.$
- $20101 \times 10102 + 20101 \times 10102 = 203060302 + 203060302 := 406120604.$
- $20201 \times 10202 + 20201 \times 10202 = 206090602 + 206090602 := 412181204.$
- $20101 \times 10012 + 21001 \times 10102 = 201251212 + 212152102 := 413403314.$
- $21001 \times 10012 + 21001 \times 10012 = 210262012 + 210262012 := 420524024.$
- $10301 \times 10013 + 31001 \times 10301 = 103143913 + 319341301 := 422485214.$
- $11003 \times 10301 + 10301 \times 30011 = 113341903 + 309143311 := 422485214.$
- $20011 \times 10102 + 20101 \times 11002 = 202151122 + 221151202 := 423302324.$
- $21101 \times 10112 + 21101 \times 10112 = 213373312 + 213373312 := 426746624.$
- $20201 \times 10022 + 22001 \times 10202 = 202454422 + 224454202 := 426908624.$
- $20011 \times 10012 + 21001 \times 11002 = 200350132 + 231053002 := 431403134.$
- $13001 \times 10103 + 30101 \times 10031 = 131349103 + 301943131 := 433292234.$
- $20111 \times 10112 + 21101 \times 11102 = 203362432 + 234263302 := 437625734.$
- $21201 \times 10122 + 22101 \times 10212 = 214596522 + 225695412 := 440291934.$
- $20011 \times 11002 + 20011 \times 11002 = 220161022 + 220161022 := 440322044.$
- $20301 \times 10032 + 23001 \times 10302 = 203659632 + 236956302 := 440615934.$
- $22001 \times 10022 + 22001 \times 10022 = 220494022 + 220494022 := 440988044.$
- $13001 \times 10013 + 31001 \times 10031 = 130179013 + 310971031 := 441150044.$
- $20211 \times 10212 + 21201 \times 11202 = 206394732 + 237493602 := 443888334.$
- $11301 \times 11013 + 31011 \times 10311 = 124457913 + 319754421 := 444212334.$
- $21011 \times 10112 + 21101 \times 11012 = 212463232 + 232364212 := 444827444.$
- $20111 \times 11102 + 20111 \times 11102 = 223272322 + 223272322 := 446544644.$
- $20021 \times 10202 + 20201 \times 12002 = 204254242 + 242452402 := 446706644.$
- $20211 \times 10122 + 22101 \times 11202 = 204575742 + 247575402 := 452151144.$
- $20111 \times 11012 + 21011 \times 11102 = 221462332 + 233264122 := 454726454.$
- $21201 \times 11022 + 22011 \times 10212 = 233677422 + 224776332 := 458453754.$
- $20112 \times 12201 + 10221 \times 21102 = 245386512 + 215683542 := 461070054.$
- $20121 \times 10212 + 21201 \times 12102 = 205475652 + 256574502 := 462050154.$
- $21011 \times 11012 + 21011 \times 11012 = 231373132 + 231373132 := 462746264.$
- $20112 \times 10221 + 12201 \times 21102 = 205564752 + 257465502 := 463030254.$
- $20021 \times 10022 + 22001 \times 12002 = 200650462 + 264056002 := 464706464.$
- $22011 \times 10122 + 22101 \times 11022 = 222795342 + 243597222 := 466392564.$
- $21111 \times 11112 + 21111 \times 11112 = 234585432 + 234585432 := 469170864.$
- $20211 \times 11022 + 22011 \times 11202 = 222765642 + 246567222 := 469332864.$
- $21021 \times 10212 + 21201 \times 12012 = 214666452 + 254666412 := 469332864.$
- $20121 \times 11202 + 20211 \times 12102 = 225395442 + 244593522 := 469988964.$

- $20031 \times 10302 + 20301 \times 13002 = 206359362 + 263953602 := 470312964.$
- $20121 \times 10122 + 22101 \times 12102 = 203664762 + 267466302 := 471131064.$
- $21012 \times 10221 + 12201 \times 21012 = 214763652 + 256367412 := 471131064.$
- $20211 \times 12012 + 21021 \times 11202 = 242774532 + 235477242 := 478251774.$
- $21021 \times 10122 + 22101 \times 12012 = 212774562 + 265477212 := 478251774.$
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- $20121 \times 11022 + 22011 \times 12102 = 221773662 + 266377122 := 488150784.$
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#### ACKNOWLEDGEMENT

The author is thankful to T.J. Eckman, Georgia, USA (email: [jeek@jeek.net](mailto:jeek@jeek.net)) in programming the scripts to develop these papers.

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