

MokujIN QUAD/HEXADECAD (4/16 threads)

THE dummy command prompt x^y and $x*y$ dumper

```
// Copyright Sanmayce, 2012-Nov-16.  
// MokujIN, an openMP (multi-threaded) string multiplier, 16 threads enforced, written by Kaze, 2012-Nov-16, revision 5fix.  
// Free download at: www.sanmayce.com/Downloads/MokujIN.zip  
// How to compile (using Intel compiler) as MT i.e. with threading:  
// D:\_KAZE\MokujIN_16threads-icl /Ox MokujIN_16threads.c /Facs /FeMokujIN_r5-16-Threads_IntelV12 /openmp /openmp-link:static -DComence_OpenMP  
// How to compile as (using Intel compiler) ST i.e. without threading (default):  
// D:\_KAZE\MokujIN_16threads-icl /Ox MokujIN_16threads.c /FeMokujIN_r5-One-Thread_IntelV12  
// How to compile (using Microsoft compiler) as MT i.e. with threading:  
// D:\_KAZE\MokujIN_16threads-cl /Ox MokujIN_16threads.c /Facs /FeMokujIN_r5-16-Threads_MicrosoftV16 /openmp -DComence_OpenMP  
// How to compile as (using Microsoft compiler) ST i.e. without threading (default):  
// D:\_KAZE\MokujIN_16threads-cl /Ox MokujIN_16threads.c /FeMokujIN_r5-One-Thread_MicrosoftV16
```

```
D:\_KAZE\MokujIN\MokujIN_r5fix>dir .\*.exe
```

```
11/16/2012 02:20 AM          386,560 MokujIN_r5_HEXADECAD-Thread_IntelV12_32bit.exe  
11/16/2012 02:18 AM          462,336 MokujIN_r5_HEXADECAD-Thread_IntelV12_64bit.exe  
11/16/2012 01:06 AM           77,312 MokujIN_r5_HEXADECAD-Thread_MicrosoftV16_32bit.exe  
11/16/2012 12:51 AM           88,576 MokujIN_r5_HEXADECAD-Thread_MicrosoftV16_64bit.exe  
11/16/2012 02:20 AM           99,840 MokujIN_r5_MONAD-Thread_IntelV12_32bit.exe  
11/16/2012 02:18 AM          115,200 MokujIN_r5_MONAD-Thread_IntelV12_64bit.exe  
11/16/2012 01:06 AM           75,776 MokujIN_r5_MONAD-Thread_MicrosoftV16_32bit.exe  
11/16/2012 12:51 AM           87,552 MokujIN_r5_MONAD-Thread_MicrosoftV16_64bit.exe
```

```
D:\_KAZE\MokujIN_r5>MokujIN_r5_HEXADECAD-Thread_MicrosoftV16_64bit.exe 2 1048576 /stats  
MokujIN, Multiplication of Integers, an openMP (multi-threaded) string multiplier, 16 threads enforced, written by Kaze, 2012-Nov-16, revision 5fix.  
omp_get_num_procs() = 2  
omp_get_max_threads() = 2  
...  
Multiplying performance for operands 157827 digits long: 158,658,356 MokujINs i.e. digits per second.  
Total Time: 210 second(s).
```

```
D:\_KAZE\MokujIN_r5>MokujIN_r5_MONAD-Thread_MicrosoftV16_64bit.exe 2 1048576 /stats  
MokujIN, Multiplication of Integers, a single-threaded string multiplier, written by Kaze, 2012-Nov-16, revision 5fix.  
...  
Multiplying performance for operands 157827 digits long: 86,792,201 MokujINs i.e. digits per second.  
Total Time: 383 second(s).
```

```
D:\_KAZE\MokujIN_r5>MokujIN_r5_HEXADECAD-Thread_MicrosoftV16_32bit.exe 2 1048576 /stats  
MokujIN, Multiplication of Integers, an openMP (multi-threaded) string multiplier, 16 threads enforced, written by Kaze, 2012-Nov-16, revision 5fix.  
omp_get_num_procs() = 2  
omp_get_max_threads() = 2  
...  
Multiplying performance for operands 157827 digits long: 156,662,653 MokujINs i.e. digits per second.  
Total Time: 212 second(s).
```

```
D:\_KAZE\MokujIN_r5>MokujIN_r5_MONAD-Thread_MicrosoftV16_32bit.exe 2 1048576 /stats  
MokujIN, Multiplication of Integers, a single-threaded string multiplier, written by Kaze, 2012-Nov-16, revision 5fix.  
...  
Multiplying performance for operands 157827 digits long: 83,308,902 MokujINs i.e. digits per second.  
Total Time: 398 second(s).
```

```
D:\_KAZE\MokujIN\MokujIN_r5fix>MokujIN_r5_HEXADECAD-Thread_IntelV12_64bit.exe 2 1048576 /stats  
MokujIN, Multiplication of Integers, an openMP (multi-threaded) string multiplier, 16 threads enforced, written by Kaze, 2012-Nov-16, revision 5fix.  
omp_get_num_procs() = 2  
omp_get_max_threads() = 2  
...  
Multiplying performance for operands 157827 digits long: 164,962,661 MokujINs i.e. digits per second.  
Total Time: 202 second(s).
```

```
D:\_KAZE\MokujIN\MokujIN_r5fix>MokujIN_r5_MONAD-Thread_IntelV12_64bit.exe 2 1048576 /stats  
MokujIN, Multiplication of Integers, a single-threaded string multiplier, written by Kaze, 2012-Nov-16, revision 5fix.  
...  
Multiplying performance for operands 157827 digits long: 82,481,330 MokujINs i.e. digits per second.  
Total Time: 403 second(s).
```

```
D:\_KAZE\MokujIN\MokujIN_r5fix>MokujIN_r5_HEXADECAD-Thread_IntelV12_32bit.exe 2 1048576 /stats  
MokujIN, Multiplication of Integers, an openMP (multi-threaded) string multiplier, 16 threads enforced, written by Kaze, 2012-Nov-16, revision 5fix.  
omp_get_num_procs() = 2  
omp_get_max_threads() = 2  
...  
Multiplying performance for operands 157827 digits long: 147,552,674 MokujINs i.e. digits per second.  
Total Time: 326 second(s).
```

```
D:\_KAZE\MokujIN\MokujIN_r5fix>MokujIN_r5_MONAD-Thread_IntelV12_32bit.exe 2 1048576 /stats  
MokujIN, Multiplication of Integers, a single-threaded string multiplier, written by Kaze, 2012-Nov-16, revision 5fix.  
...  
Multiplying performance for operands 157827 digits long: 74,802,888 MokujINs i.e. digits per second.  
Total Time: 444 second(s).
```

*MokujINs stand for number of cycles of main loop of MUL function made per second.
At each iteration/cycle a digit vs digit multiplication is made.*

Free download at: www.sanmayce.com/Downloads/MokujIN.zip

My laptop 'Bonboniera' Core 2 T7500 2.2GHz gives 83+/156+ MegaMokujINs (1thread/2threads) using 32bit code.

```

0001 // Copyleft Sanmayce, 2012-Nov-16.
0002 // MokujIN, an OpenMP (multi-threaded) string multiplier, written by Kaze, 2012-Nov-16, revision 4fix.
0003 // Free download at: www.sanmayce.com/Downloads/MokujIN.zip
0004 // How to compile (using Intel compiler) as MT i.e. with threading:
0005 // D:\_KAZE\MokujIN_4threads>cl /Ox MokujIN_4threads.c /FACS /FeMokujIN_r4_4-Threads_IntelV12 /Qopenmp /Qopenmp-link:static -DCommence_OpenMP
0006 // How to compile (using Intel compiler) as ST i.e. without threading (default):
0007 // D:\_KAZE\MokujIN_4threads>cl /Ox MokujIN_4threads.c /FeMokujIN_r4_One-Thread_IntelV12
0008 // How to compile (using Microsoft compiler) as MT i.e. with threading:
0009 // D:\_KAZE\MokujIN_4threads>cl /Ox MokujIN_4threads.c /FACS /FeMokujIN_r4_4-Threads_MicrosoftV16 /openmp -DCommence_OpenMP
0010 // How to compile (using Microsoft compiler) as ST i.e. without threading (default):
0011 // D:\_KAZE\MokujIN_4threads>cl /Ox MokujIN_4threads.c /FeMokujIN_r4_One-Thread_MicrosoftV16
0012
0013 /*
0014 D:\_KAZE\MokujIN\MokujIN_r4fix>dir mo*.exe
0015 Volume in drive D is S640_Vol5
0016 Volume Serial Number is F85D-148B
0017
0018 Directory of D:\_KAZE\MokujIN\MokujIN_r4fix
0019
0020 11/16/2012 03:02 AM           88,064 MokujIN_r4_MONAD-Thread_IntelV12_32bit.exe
0021 11/16/2012 02:59 AM          101,888 MokujIN_r4_MONAD-Thread_IntelV12_64bit.exe
0022 11/16/2012 01:48 AM          68,608 MokujIN_r4_MONAD-Thread_MicrosoftV16_32bit.exe
0023 11/16/2012 01:30 AM          78,848 MokujIN_r4_MONAD-Thread_MicrosoftV16_64bit.exe
0024 11/16/2012 03:02 AM          374,784 MokujIN_r4_QUAD-Thread_IntelV12_32bit.exe
0025 11/16/2012 02:59 AM          448,000 MokujIN_r4_QUAD-Thread_IntelV12_64bit.exe
0026 11/16/2012 01:48 AM          69,120 MokujIN_r4_QUAD-Thread_MicrosoftV16_32bit.exe
0027 11/16/2012 01:30 AM          79,360 MokujIN_r4_QUAD-Thread_MicrosoftV16_64bit.exe
0028             8 File(s)          1,308,672 bytes
0029             0 Dir(s)          7,497,867,264 bytes free
0030
0031 D:\_KAZE\MokujIN\MokujIN_r4fix>RUNME.bat
0032 Revision 3 Single-Thread results:
0033 Computing 2^1048576 took 0,454 seconds with '/TURBO' with Intel v12.1 on T7500 2200MHZ.
0034 Computing 2^1048576 took 1,856 seconds without '/TURBO' with Intel v12.1 on T7500 2200MHZ.
0035 Computing 2^1048576 took 0,426 seconds with '/TURBO' with Microsoft v16 on T7500 2200MHZ.
0036 Computing 2^1048576 took 1,678 seconds without '/TURBO' with Microsoft v16 on T7500 2200MHZ.
0037 SHA1 should be:
0038 adebb3aac8ded6438719f8170a455f38dfebaee3
0039 Computing 2^1048576 ...
0040
0041 D:\_KAZE\MokujIN\MokujIN_r4fix>time0<enter 1>Total Time.txt
0042
0043 D:\_KAZE\MokujIN\MokujIN_r4fix>timer MokujIN_r4_QUAD-Thread_MicrosoftV16_32bit 2 1048576 /stats
0044 Timer 9.01 : Igor Pavlov : Public domain : 2009-05-31
0045 MokujIN, Multiplication of INtegers, an OpenMP (multi-threaded) string multiplier, written by Kaze, 2012-Nov-16, revision 4fix.
0046 omp_get_num_procs() = 2
0047 omp_get_max_threads() = 2
0048 Multiplying performance for operands 1 digits long: 1 MokujINs i.e. digits per second.
0049 Multiplying performance for operands 1 digits long: 1 MokujINs i.e. digits per second.
0050 Multiplying performance for operands 2 digits long: 4 MokujINs i.e. digits per second.
0051 Multiplying performance for operands 3 digits long: 9 MokujINs i.e. digits per second.
0052 Multiplying performance for operands 5 digits long: 25 MokujINs i.e. digits per second.
0053 Multiplying performance for operands 10 digits long: 100 MokujINs i.e. digits per second.
0054 Multiplying performance for operands 20 digits long: 400 MokujINs i.e. digits per second.
0055 Multiplying performance for operands 39 digits long: 1,521 MokujINs i.e. digits per second.
0056 Multiplying performance for operands 78 digits long: 6,084 MokujINs i.e. digits per second.
0057 Multiplying performance for operands 155 digits long: 24,025 MokujINs i.e. digits per second.
0058 Multiplying performance for operands 309 digits long: 95,481 MokujINs i.e. digits per second.
0059 Multiplying performance for operands 617 digits long: 380,689 MokujINs i.e. digits per second.
0060 Multiplying performance for operands 1234 digits long: 1,522,756 MokujINs i.e. digits per second.
0061 Multiplying performance for operands 2467 digits long: 6,086,089 MokujINs i.e. digits per second.
0062 Multiplying performance for operands 4933 digits long: 24,334,489 MokujINs i.e. digits per second.
0063 Multiplying performance for operands 9865 digits long: 97,318,225 MokujINs i.e. digits per second.
0064 Multiplying performance for operands 19729 digits long: 194,616,720 MokujINs i.e. digits per second.
0065 Multiplying performance for operands 39457 digits long: 155,685,484 MokujINs i.e. digits per second.
0066 Multiplying performance for operands 78914 digits long: 163,879,457 MokujINs i.e. digits per second.
0067 Multiplying performance for operands 157827 digits long: 161,749,103 MokujINs i.e. digits per second.
0068 Dumping the result to 'MokujIN.txt' ... OK
0069 Total Time: 205 seconds.
0070
0071 Kernel Time = 0.046 = 0%
0072 User Time = 410.844 = 199%
0073 Process Time = 410.891 = 199%
0074 Global Time = 205.667 = 100%
0075
0076 D:\_KAZE\MokujIN\MokujIN_r4fix>time0<enter 1>>Total Time.txt
0077
0078 D:\_KAZE\MokujIN\MokujIN_r4fix>sha1sum.exe MokujIN.txt
0079 adebb3aac8ded6438719f8170a455f38dfebaee3 MokujIN.txt
0080
0081 D:\_KAZE\MokujIN\MokujIN_r4fix>type Total Time.txt
0082 The current time is: 3:30:51.27
0083 Enter the new time:
0084 The current time is: 3:34:16.94
0085 Enter the new time:
0086
0087 D:\_KAZE\MokujIN_r4>MokujIN_r4_QUAD-Thread_MicrosoftV16_64bit.exe 2 1048576 /stats
0088 MokujIN, Multiplication of INtegers, an OpenMP (multi-threaded) string multiplier, written by Kaze, 2012-Nov-16, revision 4fix.

```

```

0089 omp_get_num_procs( ) = 2
0090 omp_get_max_threads( ) = 2
0091 Multiplying performance for operands 1 digits long: 1 MokuJINs i.e. digits per second.
0092 Multiplying performance for operands 1 digits long: 1 MokuJINs i.e. digits per second.
0093 Multiplying performance for operands 2 digits long: 4 MokuJINs i.e. digits per second.
0094 Multiplying performance for operands 3 digits long: 9 MokuJINs i.e. digits per second.
0095 Multiplying performance for operands 5 digits long: 25 MokuJINs i.e. digits per second.
0096 Multiplying performance for operands 10 digits long: 100 MokuJINs i.e. digits per second.
0097 Multiplying performance for operands 20 digits long: 400 MokuJINs i.e. digits per second.
0098 Multiplying performance for operands 39 digits long: 1,521 MokuJINs i.e. digits per second.
0099 Multiplying performance for operands 78 digits long: 6,084 MokuJINs i.e. digits per second.
0100 Multiplying performance for operands 155 digits long: 24,025 MokuJINs i.e. digits per second.
0101 Multiplying performance for operands 309 digits long: 95,481 MokuJINs i.e. digits per second.
0102 Multiplying performance for operands 617 digits long: 380,689 MokuJINs i.e. digits per second.
0103 Multiplying performance for operands 1234 digits long: 1,522,756 MokuJINs i.e. digits per second.
0104 Multiplying performance for operands 2467 digits long: 6,086,089 MokuJINs i.e. digits per second.
0105 Multiplying performance for operands 4933 digits long: 24,334,489 MokuJINs i.e. digits per second.
0106 Multiplying performance for operands 9865 digits long: 97,318,225 MokuJINs i.e. digits per second.
0107 Multiplying performance for operands 19729 digits long: 194,616,720 MokuJINs i.e. digits per second.
0108 Multiplying performance for operands 39457 digits long: 155,685,484 MokuJINs i.e. digits per second.
0109 Multiplying performance for operands 78914 digits long: 155,685,484 MokuJINs i.e. digits per second.
0110 Multiplying performance for operands 157827 digits long: 157,654,189 MokuJINs i.e. digits per second.
0111 Dumping the result to 'MokuJIN.txt' ... OK
0112 Total Time: 211 seconds.
0113
0114 D:\_KAZE\MokuJIN_r4>sha1sum.exe MokuJIN.txt
0115 adebb3aac8ded6438719f8170a455f38dfebaae3 MokuJIN.txt
0116
0117 D:\_KAZE\MokuJIN_r4>MokuJIN_r4_MONAD-Thread_MicrosoftV16_64bit.exe 2 1048576 /stats
0118 MokuJIN, Multiplication of INtegers, a single-threaded string multiplier, written by Kaze, 2012-Nov-16, revision 4fix.
0119 Multiplying performance for operands 1 digits long: 1 MokuJINs i.e. digits per second.
0120 Multiplying performance for operands 1 digits long: 1 MokuJINs i.e. digits per second.
0121 Multiplying performance for operands 2 digits long: 4 MokuJINs i.e. digits per second.
0122 Multiplying performance for operands 3 digits long: 9 MokuJINs i.e. digits per second.
0123 Multiplying performance for operands 5 digits long: 25 MokuJINs i.e. digits per second.
0124 Multiplying performance for operands 10 digits long: 100 MokuJINs i.e. digits per second.
0125 Multiplying performance for operands 20 digits long: 400 MokuJINs i.e. digits per second.
0126 Multiplying performance for operands 39 digits long: 1,521 MokuJINs i.e. digits per second.
0127 Multiplying performance for operands 78 digits long: 6,084 MokuJINs i.e. digits per second.
0128 Multiplying performance for operands 155 digits long: 24,025 MokuJINs i.e. digits per second.
0129 Multiplying performance for operands 309 digits long: 95,481 MokuJINs i.e. digits per second.
0130 Multiplying performance for operands 617 digits long: 380,689 MokuJINs i.e. digits per second.
0131 Multiplying performance for operands 1234 digits long: 1,522,756 MokuJINs i.e. digits per second.
0132 Multiplying performance for operands 2467 digits long: 6,086,089 MokuJINs i.e. digits per second.
0133 Multiplying performance for operands 4933 digits long: 24,334,489 MokuJINs i.e. digits per second.
0134 Multiplying performance for operands 9865 digits long: 97,318,225 MokuJINs i.e. digits per second.
0135 Multiplying performance for operands 19729 digits long: 97,308,360 MokuJINs i.e. digits per second.
0136 Multiplying performance for operands 39457 digits long: 86,491,936 MokuJINs i.e. digits per second.
0137 Multiplying performance for operands 78914 digits long: 87,710,132 MokuJINs i.e. digits per second.
0138 Multiplying performance for operands 157827 digits long: 87,095,671 MokuJINs i.e. digits per second.
0139 Dumping the result to 'MokuJIN.txt' ... OK
0140 Total Time: 381 seconds.
0141
0142 D:\_KAZE\MokuJIN_r4>sha1sum.exe MokuJIN.txt
0143 adebb3aac8ded6438719f8170a455f38dfebaae3 MokuJIN.txt
0144
0145 D:\_KAZE\MokuJIN_r4>MokuJIN_r4_QUAD-Thread_MicrosoftV16_32bit.exe 2 1048576 /stats
0146 MokuJIN, Multiplication of INtegers, an OpenMP (multi-threaded) string multiplier, written by Kaze, 2012-Nov-16, revision 4fix.
0147 omp_get_num_procs( ) = 2
0148 omp_get_max_threads( ) = 2
0149 Multiplying performance for operands 1 digits long: 1 MokuJINs i.e. digits per second.
0150 Multiplying performance for operands 1 digits long: 1 MokuJINs i.e. digits per second.
0151 Multiplying performance for operands 2 digits long: 4 MokuJINs i.e. digits per second.
0152 Multiplying performance for operands 3 digits long: 9 MokuJINs i.e. digits per second.
0153 Multiplying performance for operands 5 digits long: 25 MokuJINs i.e. digits per second.
0154 Multiplying performance for operands 10 digits long: 100 MokuJINs i.e. digits per second.
0155 Multiplying performance for operands 20 digits long: 400 MokuJINs i.e. digits per second.
0156 Multiplying performance for operands 39 digits long: 1,521 MokuJINs i.e. digits per second.
0157 Multiplying performance for operands 78 digits long: 6,084 MokuJINs i.e. digits per second.
0158 Multiplying performance for operands 155 digits long: 24,025 MokuJINs i.e. digits per second.
0159 Multiplying performance for operands 309 digits long: 95,481 MokuJINs i.e. digits per second.
0160 Multiplying performance for operands 617 digits long: 380,689 MokuJINs i.e. digits per second.
0161 Multiplying performance for operands 1234 digits long: 1,522,756 MokuJINs i.e. digits per second.
0162 Multiplying performance for operands 2467 digits long: 6,086,089 MokuJINs i.e. digits per second.
0163 Multiplying performance for operands 4933 digits long: 24,334,489 MokuJINs i.e. digits per second.
0164 Multiplying performance for operands 9865 digits long: 97,318,225 MokuJINs i.e. digits per second.
0165 Multiplying performance for operands 19729 digits long: 129,744,480 MokuJINs i.e. digits per second.
0166 Multiplying performance for operands 39457 digits long: 172,983,872 MokuJINs i.e. digits per second.
0167 Multiplying performance for operands 78914 digits long: 159,677,420 MokuJINs i.e. digits per second.
0168 Multiplying performance for operands 157827 digits long: 161,749,103 MokuJINs i.e. digits per second.
0169 Dumping the result to 'MokuJIN.txt' ... OK
0170 Total Time: 205 seconds.
0171
0172 D:\_KAZE\MokuJIN_r4>sha1sum.exe MokuJIN.txt
0173 adebb3aac8ded6438719f8170a455f38dfebaae3 MokuJIN.txt
0174
0175 D:\_KAZE\MokuJIN_r4>MokuJIN_r4_MONAD-Thread_MicrosoftV16_32bit.exe 2 1048576 /stats
0176 MokuJIN, Multiplication of INtegers, a single-threaded string multiplier, written by Kaze, 2012-Nov-16, revision 4fix.

```

```

0177 Multiplying performance for operands 1 digits long: 1 MokuJINs i.e. digits per second.
0178 Multiplying performance for operands 1 digits long: 1 MokuJINs i.e. digits per second.
0179 Multiplying performance for operands 2 digits long: 4 MokuJINs i.e. digits per second.
0180 Multiplying performance for operands 3 digits long: 9 MokuJINs i.e. digits per second.
0181 Multiplying performance for operands 5 digits long: 25 MokuJINs i.e. digits per second.
0182 Multiplying performance for operands 10 digits long: 100 MokuJINs i.e. digits per second.
0183 Multiplying performance for operands 20 digits long: 400 MokuJINs i.e. digits per second.
0184 Multiplying performance for operands 39 digits long: 1,521 MokuJINs i.e. digits per second.
0185 Multiplying performance for operands 78 digits long: 6,084 MokuJINs i.e. digits per second.
0186 Multiplying performance for operands 155 digits long: 24,025 MokuJINs i.e. digits per second.
0187 Multiplying performance for operands 309 digits long: 95,481 MokuJINs i.e. digits per second.
0188 Multiplying performance for operands 617 digits long: 380,689 MokuJINs i.e. digits per second.
0189 Multiplying performance for operands 1234 digits long: 1,522,756 MokuJINs i.e. digits per second.
0190 Multiplying performance for operands 2467 digits long: 6,086,089 MokuJINs i.e. digits per second.
0191 Multiplying performance for operands 4933 digits long: 24,334,489 MokuJINs i.e. digits per second.
0192 Multiplying performance for operands 9865 digits long: 97,318,225 MokuJINs i.e. digits per second.
0193 Multiplying performance for operands 19729 digits long: 77,846,688 MokuJINs i.e. digits per second.
0194 Multiplying performance for operands 39457 digits long: 86,491,936 MokuJINs i.e. digits per second.
0195 Multiplying performance for operands 78914 digits long: 81,939,728 MokuJINs i.e. digits per second.
0196 Multiplying performance for operands 157827 digits long: 82,755,355 MokuJINs i.e. digits per second.
0197 Dumping the result to 'MokuJIN.txt' ... OK
0198 Total Time: 402 seconds.
0199
0200 D:\_KAZE\MokuJIN_r4>sha1sum.exe MokuJIN.txt
0201 adebb3aac8ded6438719f8170a455f38dfebaae3 MokuJIN.txt
0202
0203 D:\_KAZE\MokuJIN\MokuJIN_r4fix>MokuJIN_compile_Intel.bat
0204
0205 D:\_KAZE\MokuJIN\MokuJIN_r4fix>icl /Ox MokuJIN_4threads.c /FAcs /FeMokuJIN_r4_4-Threads_IntelV12 /Oopenmp /Oopenmp-link:static -
DCommence_OpenMP
0206 Intel(R) C++ Intel(R) 64 Compiler XE for applications running on Intel(R) 64, Version 12.1.1.258 Build 20111011
0207 Copyright (C) 1985-2011 Intel Corporation. All rights reserved.
0208 icl: command line remark #10010: option '/Oopenmp-link:static' is deprecated and will be removed in a future release. See '/help deprecated'
0209
0210 MokuJIN_4threads.c
0211 Microsoft (R) Incremental Linker Version 10.00.30319.01
0212 Copyright (C) Microsoft Corporation. All rights reserved.
0213
0214 -out: MokuJIN_r4_4-Threads_IntelV12.exe
0215 -nodefaultlib:libiomp5mt.lib
0216 -nodefaultlib:libiomp5md.lib
0217 -defaultlib:libiomp5mt.lib
0218 -nodefaultlib:vcomp.lib
0219 -nodefaultlib:vcompd.lib
0220 MokuJIN_4threads.obj
0221
0222 D:\_KAZE\MokuJIN\MokuJIN_r4fix>icl /Ox MokuJIN_4threads.c /FeMokuJIN_r4_One-Thread_IntelV12
0223 Intel(R) C++ Intel(R) 64 Compiler XE for applications running on Intel(R) 64, Version 12.1.1.258 Build 20111011
0224 Copyright (C) 1985-2011 Intel Corporation. All rights reserved.
0225
0226 MokuJIN_4threads.c
0227 Microsoft (R) Incremental Linker Version 10.00.30319.01
0228 Copyright (C) Microsoft Corporation. All rights reserved.
0229
0230 -out: MokuJIN_r4_One-Thread_IntelV12.exe
0231 MokuJIN_4threads.obj
0232
0233 D:\_KAZE\MokuJIN\MokuJIN_r4fix>MokuJIN_r4_QUAD-Thread_IntelV12_64bit.exe 2 1048576 /stats
0234 MokuJIN, Multiplication of INtegers, an OpenMP (multi-threaded) string multiplier, written by Kaze, 2012-Nov-16, revision 4fix.
0235 omp_get_num_procs() = 2
0236 omp_get_max_threads() = 2
0237 Multiplying performance for operands 1 digits long: 1 MokuJINs i.e. digits per second.
0238 Multiplying performance for operands 1 digits long: 1 MokuJINs i.e. digits per second.
0239 Multiplying performance for operands 2 digits long: 4 MokuJINs i.e. digits per second.
0240 Multiplying performance for operands 3 digits long: 9 MokuJINs i.e. digits per second.
0241 Multiplying performance for operands 5 digits long: 25 MokuJINs i.e. digits per second.
0242 Multiplying performance for operands 10 digits long: 100 MokuJINs i.e. digits per second.
0243 Multiplying performance for operands 20 digits long: 400 MokuJINs i.e. digits per second.
0244 Multiplying performance for operands 39 digits long: 1,521 MokuJINs i.e. digits per second.
0245 Multiplying performance for operands 78 digits long: 6,084 MokuJINs i.e. digits per second.
0246 Multiplying performance for operands 155 digits long: 24,025 MokuJINs i.e. digits per second.
0247 Multiplying performance for operands 309 digits long: 95,481 MokuJINs i.e. digits per second.
0248 Multiplying performance for operands 617 digits long: 380,689 MokuJINs i.e. digits per second.
0249 Multiplying performance for operands 1234 digits long: 1,522,756 MokuJINs i.e. digits per second.
0250 Multiplying performance for operands 2467 digits long: 6,086,089 MokuJINs i.e. digits per second.
0251 Multiplying performance for operands 4933 digits long: 24,334,489 MokuJINs i.e. digits per second.
0252 Multiplying performance for operands 9865 digits long: 97,318,225 MokuJINs i.e. digits per second.
0253 Multiplying performance for operands 19729 digits long: 194,616,720 MokuJINs i.e. digits per second.
0254 Multiplying performance for operands 39457 digits long: 172,983,872 MokuJINs i.e. digits per second.
0255 Multiplying performance for operands 78914 digits long: 163,879,457 MokuJINs i.e. digits per second.
0256 Multiplying performance for operands 157827 digits long: 166,062,412 MokuJINs i.e. digits per second.
0257 Dumping the result to 'MokuJIN.txt' ... OK
0258 Total Time: 200 seconds.
0259
0260 D:\_KAZE\MokuJIN\MokuJIN_r4fix>sha1sum.exe MokuJIN.txt
0261 adebb3aac8ded6438719f8170a455f38dfebaae3 MokuJIN.txt
0262
0263 D:\_KAZE\MokuJIN\MokuJIN_r4fix>MokuJIN_r4_MONAD-Thread_IntelV12_64bit.exe 2 1048576 /stats

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0264 MokujIN, Multiplication of INtegers, a single-threaded string multiplier, written by Kaze, 2012-Nov-16, revision 4fix.
0265 Multiplying performance for operands 1 digits long: 1 MokujINs i.e. digits per second.
0266 Multiplying performance for operands 1 digits long: 1 MokujINs i.e. digits per second.
0267 Multiplying performance for operands 2 digits long: 4 MokujINs i.e. digits per second.
0268 Multiplying performance for operands 3 digits long: 9 MokujINs i.e. digits per second.
0269 Multiplying performance for operands 5 digits long: 25 MokujINs i.e. digits per second.
0270 Multiplying performance for operands 10 digits long: 100 MokujINs i.e. digits per second.
0271 Multiplying performance for operands 20 digits long: 400 MokujINs i.e. digits per second.
0272 Multiplying performance for operands 39 digits long: 1,521 MokujINs i.e. digits per second.
0273 Multiplying performance for operands 78 digits long: 6,084 MokujINs i.e. digits per second.
0274 Multiplying performance for operands 155 digits long: 24,025 MokujINs i.e. digits per second.
0275 Multiplying performance for operands 309 digits long: 95,481 MokujINs i.e. digits per second.
0276 Multiplying performance for operands 617 digits long: 380,689 MokujINs i.e. digits per second.
0277 Multiplying performance for operands 1234 digits long: 1,522,756 MokujINs i.e. digits per second.
0278 Multiplying performance for operands 2467 digits long: 6,086,089 MokujINs i.e. digits per second.
0279 Multiplying performance for operands 4933 digits long: 24,334,489 MokujINs i.e. digits per second.
0280 Multiplying performance for operands 9865 digits long: 97,318,225 MokujINs i.e. digits per second.
0281 Multiplying performance for operands 19729 digits long: 77,846,688 MokujINs i.e. digits per second.
0282 Multiplying performance for operands 39457 digits long: 81,939,728 MokujINs i.e. digits per second.
0283 Multiplying performance for operands 78914 digits long: 81,939,728 MokujINs i.e. digits per second.
0284 Multiplying performance for operands 157827 digits long: 82,481,330 MokujINs i.e. digits per second.
0285 Dumping the result to 'MokujIN.txt' ... OK
0286 Total Time: 403 seconds.
0287
0288 D:\KAZE\MokujIN\MokujIN_r4fix>sha1sum.exe MokujIN.txt
0289 adeb3aac8ded6438719f8170a455f38dfebaee3 MokujIN.txt
0290
0291 D:\KAZE\MokujIN\MokujIN_r4fix>MokujIN_r4_QUAD-Thread_IntelV12_32bit.exe 2 1048576 /stats
0292 MokujIN, Multiplication of INtegers, an OpenMP (multi-threaded) string multiplier, written by Kaze, 2012-Nov-16, revision 4fix.
0293 omp_get_num_procs() = 2
0294 omp_get_max_threads() = 2
0295 Multiplying performance for operands 1 digits long: 1 MokujINs i.e. digits per second.
0296 Multiplying performance for operands 1 digits long: 1 MokujINs i.e. digits per second.
0297 Multiplying performance for operands 2 digits long: 4 MokujINs i.e. digits per second.
0298 Multiplying performance for operands 3 digits long: 9 MokujINs i.e. digits per second.
0299 Multiplying performance for operands 5 digits long: 25 MokujINs i.e. digits per second.
0300 Multiplying performance for operands 10 digits long: 100 MokujINs i.e. digits per second.
0301 Multiplying performance for operands 20 digits long: 400 MokujINs i.e. digits per second.
0302 Multiplying performance for operands 39 digits long: 1,521 MokujINs i.e. digits per second.
0303 Multiplying performance for operands 78 digits long: 6,084 MokujINs i.e. digits per second.
0304 Multiplying performance for operands 155 digits long: 24,025 MokujINs i.e. digits per second.
0305 Multiplying performance for operands 309 digits long: 95,481 MokujINs i.e. digits per second.
0306 Multiplying performance for operands 617 digits long: 380,689 MokujINs i.e. digits per second.
0307 Multiplying performance for operands 1234 digits long: 1,522,756 MokujINs i.e. digits per second.
0308 Multiplying performance for operands 2467 digits long: 6,086,089 MokujINs i.e. digits per second.
0309 Multiplying performance for operands 4933 digits long: 24,334,489 MokujINs i.e. digits per second.
0310 Multiplying performance for operands 9865 digits long: 97,318,225 MokujINs i.e. digits per second.
0311 Multiplying performance for operands 19729 digits long: 129,744,480 MokujINs i.e. digits per second.
0312 Multiplying performance for operands 39457 digits long: 155,685,484 MokujINs i.e. digits per second.
0313 Multiplying performance for operands 78914 digits long: 144,823,706 MokujINs i.e. digits per second.
0314 Multiplying performance for operands 157827 digits long: 147,392,674 MokujINs i.e. digits per second.
0315 Dumping the result to 'MokujIN.txt' ... OK
0316 Total Time: 226 seconds.
0317
0318 D:\KAZE\MokujIN\MokujIN_r4fix>sha1sum.exe MokujIN.txt
0319 adeb3aac8ded6438719f8170a455f38dfebaee3 MokujIN.txt
0320
0321 D:\KAZE\MokujIN\MokujIN_r4fix>MokujIN_r4_MONAD-Thread_IntelV12_32bit.exe 2 1048576 /stats
0322 MokujIN, Multiplication of INtegers, a single-threaded string multiplier, written by Kaze, 2012-Nov-16, revision 4fix.
0323 Multiplying performance for operands 1 digits long: 1 MokujINs i.e. digits per second.
0324 Multiplying performance for operands 1 digits long: 1 MokujINs i.e. digits per second.
0325 Multiplying performance for operands 2 digits long: 4 MokujINs i.e. digits per second.
0326 Multiplying performance for operands 3 digits long: 9 MokujINs i.e. digits per second.
0327 Multiplying performance for operands 5 digits long: 25 MokujINs i.e. digits per second.
0328 Multiplying performance for operands 10 digits long: 100 MokujINs i.e. digits per second.
0329 Multiplying performance for operands 20 digits long: 400 MokujINs i.e. digits per second.
0330 Multiplying performance for operands 39 digits long: 1,521 MokujINs i.e. digits per second.
0331 Multiplying performance for operands 78 digits long: 6,084 MokujINs i.e. digits per second.
0332 Multiplying performance for operands 155 digits long: 24,025 MokujINs i.e. digits per second.
0333 Multiplying performance for operands 309 digits long: 95,481 MokujINs i.e. digits per second.
0334 Multiplying performance for operands 617 digits long: 380,689 MokujINs i.e. digits per second.
0335 Multiplying performance for operands 1234 digits long: 1,522,756 MokujINs i.e. digits per second.
0336 Multiplying performance for operands 2467 digits long: 6,086,089 MokujINs i.e. digits per second.
0337 Multiplying performance for operands 4933 digits long: 24,334,489 MokujINs i.e. digits per second.
0338 Multiplying performance for operands 9865 digits long: 48,659,112 MokujINs i.e. digits per second.
0339 Multiplying performance for operands 19729 digits long: 77,846,688 MokujINs i.e. digits per second.
0340 Multiplying performance for operands 39457 digits long: 74,135,945 MokujINs i.e. digits per second.
0341 Multiplying performance for operands 78914 digits long: 75,029,149 MokujINs i.e. digits per second.
0342 Multiplying performance for operands 157827 digits long: 75,254,869 MokujINs i.e. digits per second.
0343 Dumping the result to 'MokujIN.txt' ... OK
0344 Total Time: 443 seconds.
0345
0346 D:\KAZE\MokujIN\MokujIN_r4fix>sha1sum.exe MokujIN.txt
0347 adeb3aac8ded6438719f8170a455f38dfebaee3 MokujIN.txt
0348
0349 D:\KAZE\MokujIN\MokujIN_r4fix>
0350 */
0351

```

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0352 // Revision 3:
0353 // Computing 2^^1048576 took 0,454 seconds with '/TURBO' with Intel v12.1 on T7500 2200MHz.
0354 // Computing 2^^1048576 took 1,856 seconds without '/TURBO' with Intel v12.1 on T7500 2200MHz.
0355 // Computing 2^^1048576 took 0,426 seconds with '/TURBO' with Microsoft v16 on T7500 2200MHz.
0356 // Computing 2^^1048576 took 1,678 seconds without '/TURBO' with Microsoft v16 on T7500 2200MHz.
0357
0358 // On August 23rd, 2008, a UCLA computer in the GIMPS PrimeNet network discovered the 45th (biggest so far (2010-July)) known Mersenne prime,
0359 // 2^43,112,609-1, a mammoth 12,978,189 digit number!
0360 // Now, who can wait for 'MokujIN.exe 2 43112609 /stats' to complete?!
0361
0362 /*
0363 D:\_KAZE\MokujIN>MokujIN_Microsoft_32-bit_Version_16.exe /help
0364 MokujIN, Multiplication of INtegers, written by Kaze, 2012-Nov-06, revision 3.
0365 Usage: MokujIN [Number Power [/turbo]]
0366 Note1: Power is signed 32bit integer i.e. up to 2^31-1=2,147,483,647.
0367 Note2: Multipl icand or/and Multipl ier cannot exceed 12978189 digi ts.
0368 Note3: TURBO regime is several times (only) faster.
0369 Example1: D:\_KAZE\MokujIN>MokujIN.exe 18446744073709551616 2
0370 340282366920938463463374607431768211456
0371 Example2: D:\_KAZE\MokujIN>MokujIN.exe
0372 Multipl icand: 18446744073709551616
0373 Multipl ier : 18446744073709551616
0374 Result      : 340282366920938463463374607431768211456
0375
0376 D:\_KAZE\MokujIN>
0377 */
0378
0379
0380 void x64toaKAZE ( /* stdcall is faster and smaller... Might as well use it for the helper. */
0381     unsigned long long val,
0382     char *buf,
0383     unsigned radix,
0384     int is_neg
0385 )
0386 {
0387     char *p; /* pointer to traverse string */
0388     char *firstdig; /* pointer to first digit */
0389     char temp; /* temp char */
0390     unsigned digval; /* value of digit */
0391
0392     p = buf;
0393
0394     if ( is_neg )
0395     {
0396         *p++ = '-'; /* negative, so output '-' and negate */
0397         val = (unsigned long long)(-(long long)val);
0398     }
0399
0400     firstdig = p; /* save pointer to first digit */
0401
0402     do {
0403         digval = (unsigned) (val % radix);
0404         val /= radix; /* get next digit */
0405
0406         /* convert to ascii and store */
0407         if (digval > 9)
0408             *p++ = (char) (digval - 10 + 'a'); /* a letter */
0409         else
0410             *p++ = (char) (digval + '0'); /* a digit */
0411     } while (val > 0);
0412
0413     /* We now have the digit of the number in the buffer, but in reverse
0414     order. Thus we reverse them now. */
0415
0416     *p-- = '\0'; /* terminate string; p points to last digit */
0417
0418     do {
0419         temp = *p;
0420         *p = *firstdig;
0421         *firstdig = temp; /* swap *p and *firstdig */
0422         --p;
0423         ++firstdig; /* advance to next two digits */
0424     } while (firstdig < p); /* repeat until halfway */
0425 }
0426
0427 /* Actual functions just call conversion helper with neg flag set correctly,
0428 and return pointer to buffer. */
0429
0430 char * _i64toaKAZE (
0431     long long val,
0432     char *buf,
0433     int radix
0434 )
0435 {
0436     x64toaKAZE((unsigned long long)val, buf, radix, (radix == 10 && val < 0));
0437     return buf;
0438 }
0439

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```

0440 char * _ui64toaKAZE (
0441     unsigned long long val,
0442     char *buf,
0443     int radix
0444 )
0445 {
0446     x64toaKAZE(val, buf, radix, 0);
0447     return buf;
0448 }
0449
0450 char * _ui64toaKAZEzerocomma (
0451     unsigned long long val,
0452     char *buf,
0453     int radix
0454 )
0455 {
0456     char *p;
0457     char temp;
0458     int txpman;
0459     int pxnman;
0460     x64toaKAZE(val, buf, radix, 0);
0461     p = buf;
0462     do {
0463     } while (*++p != '\0');
0464     p--; // p points to last digit
0465     // buf points to first digit
0466     buf[26] = 0;
0467     txpman = 1;
0468     pxnman = 0;
0469     do
0470     { if (buf <= p)
0471       { temp = *p;
0472         buf[26-txpman] = temp; pxnman++;
0473         p--;
0474         if (pxnman % 3 == 0)
0475         { txpman++;
0476           buf[26-txpman] = (char) (',' );
0477         }
0478       }
0479     else
0480     { buf[26-txpman] = (char) ('0'); pxnman++;
0481       if (pxnman % 3 == 0)
0482       { txpman++;
0483         buf[26-txpman] = (char) (',' );
0484       }
0485     }
0486     txpman++;
0487     } while (txpman <= 26);
0488     return buf;
0489 }
0490
0491 char * _ui64toaKAZEcomma (
0492     unsigned long long val,
0493     char *buf,
0494     int radix
0495 )
0496 {
0497     char *p;
0498     char temp;
0499     int txpman;
0500     int pxnman;
0501     x64toaKAZE(val, buf, radix, 0);
0502     p = buf;
0503     do {
0504     } while (*++p != '\0');
0505     p--; // p points to last digit
0506     // buf points to first digit
0507     buf[26] = 0;
0508     txpman = 1;
0509     pxnman = 0;
0510     while (buf <= p)
0511     { temp = *p;
0512       buf[26-txpman] = temp; pxnman++;
0513       p--;
0514       if (pxnman % 3 == 0 && buf <= p)
0515       { txpman++;
0516         buf[26-txpman] = (char) (',' );
0517       }
0518     }
0519     txpman++;
0520     return buf+26-(txpman-1);
0521 }
0522
0523
0524 #i fdef Commence_OpenMP
0525 #i nclude <omp.h>
0526 #endi f
0527 #i nclude <stdio.h>

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0528 #include <time.h>
0529 #define memory_size 12978189 // equals MAX(Multipl icand, Multipl ier)
0530
0531 unsigned char* MUL(unsigned char* Result, unsigned char* Multipl icand, unsigned char* Multipl ier)
0532 {
0533 /*
0534 'QuickBASIC was/is an excellent environment/compiler, eh.
0535 FUNCTION MUL$ (Multipl icand$, Multipl ier$)
0536 'DimSum = CandLength + ErLength
0537 'REDIM Result$(1 TO DimSum)
0538 FOR SF = 1 TO CandLength
0539 FOR QB = 1 TO ErLength
0540 CarryFlag = 0
0541 Cycle = QB - 1 + SF
0542 Tiller = Cand$(SF) * Er$(QB)
0543 Result$(Cycle) = Tiller MOD 10 + Result$(Cycle)
0544 IF Result$(Cycle) >= 10 THEN
0545     Result$(Cycle) = Result$(Cycle) - 10
0546     CarryFlag = 1
0547 END IF
0548 NextNumPos = Cycle + 1
0549 Result$(NextNumPos) = Result$(NextNumPos) + CarryFlag + Tiller \ 10
0550 DO WHILE Result$(NextNumPos) >= 10
0551     Result$(NextNumPos) = Result$(NextNumPos) - 10
0552     NextNumPos = NextNumPos + 1
0553     Result$(NextNumPos) = Result$(NextNumPos) + 1
0554 LOOP
0555 NEXT QB
0556 NEXT SF
0557 END FUNCTION
0558 */
0559
0560 // 'unsigned long long' makes the computation ugly with 32bit code, so going down to 'unsigned long':
0561 // 8:14:04.78
0562 // 8:25:46.22
0563 // vs
0564 // 1:41:43.84
0565 // 1:52:33.59
0566 // Or almost a minute ugliness!
0567
0568 unsigned long SF, QB, Cycle, NextNumPos;
0569 unsigned long DivideAndConquer;
0570 unsigned long ResLength, CandLength, ErLength;
0571 unsigned char CarryFlag, TillerMostSignificantDigit, TillerLeastSignificantDigit;
0572
0573 unsigned char* Result1;
0574 unsigned char* Result2;
0575 unsigned char* Result3;
0576 unsigned char* Result4;
0577
0578 // 0.9 + 0.9
0579 // One dimensional arrays should be faster!
0580 unsigned char MSDarrayADD[10][10] = {
0581     0,0,0,0,0,0,0,0,0,0 // 0+0, 0+1, 0+2, 0+3, 0+4, 0+5, 0+6, 0+7, 0+8, 0+9,
0582     0,0,0,0,0,0,0,0,0,1 // 1+0, 1+1, 1+2, 1+3, 1+4, 1+5, 1+6, 1+7, 1+8, 1+9,
0583     0,0,0,0,0,0,0,0,1,1 // 2+0, 2+1, 2+2, 2+3, 2+4, 2+5, 2+6, 2+7, 2+8, 2+9,
0584     0,0,0,0,0,0,0,0,1,1,1 // 3+0, 3+1, 3+2, 3+3, 3+4, 3+5, 3+6, 3+7, 3+8, 3+9,
0585     0,0,0,0,0,0,1,1,1,1,1 // 4+0, 4+1, 4+2, 4+3, 4+4, 4+5, 4+6, 4+7, 4+8, 4+9,
0586     0,0,0,0,0,1,1,1,1,1,1 // 5+0, 5+1, 5+2, 5+3, 5+4, 5+5, 5+6, 5+7, 5+8, 5+9,
0587     0,0,0,0,1,1,1,1,1,1,1 // 6+0, 6+1, 6+2, 6+3, 6+4, 6+5, 6+6, 6+7, 6+8, 6+9,
0588     0,0,0,1,1,1,1,1,1,1,1 // 7+0, 7+1, 7+2, 7+3, 7+4, 7+5, 7+6, 7+7, 7+8, 7+9,
0589     0,0,1,1,1,1,1,1,1,1,1 // 8+0, 8+1, 8+2, 8+3, 8+4, 8+5, 8+6, 8+7, 8+8, 8+9,
0590     0,1,1,1,1,1,1,1,1,1,1 // 9+0, 9+1, 9+2, 9+3, 9+4, 9+5, 9+6, 9+7, 9+8, 9+9
0591 };
0592 unsigned char LSDarrayADD[10][10] = {
0593     0,1,2,3,4,5,6,7,8,9 // 0+0, 0+1, 0+2, 0+3, 0+4, 0+5, 0+6, 0+7, 0+8, 0+9,
0594     1,2,3,4,5,6,7,8,9,0 // 1+0, 1+1, 1+2, 1+3, 1+4, 1+5, 1+6, 1+7, 1+8, 1+9,
0595     2,3,4,5,6,7,8,9,0,1 // 2+0, 2+1, 2+2, 2+3, 2+4, 2+5, 2+6, 2+7, 2+8, 2+9,
0596     3,4,5,6,7,8,9,0,1,2 // 3+0, 3+1, 3+2, 3+3, 3+4, 3+5, 3+6, 3+7, 3+8, 3+9,
0597     4,5,6,7,8,9,0,1,2,3 // 4+0, 4+1, 4+2, 4+3, 4+4, 4+5, 4+6, 4+7, 4+8, 4+9,
0598     5,6,7,8,9,0,1,2,3,4 // 5+0, 5+1, 5+2, 5+3, 5+4, 5+5, 5+6, 5+7, 5+8, 5+9,
0599     6,7,8,9,0,1,2,3,4,5 // 6+0, 6+1, 6+2, 6+3, 6+4, 6+5, 6+6, 6+7, 6+8, 6+9,
0600     7,8,9,0,1,2,3,4,5,6 // 7+0, 7+1, 7+2, 7+3, 7+4, 7+5, 7+6, 7+7, 7+8, 7+9,
0601     8,9,0,1,2,3,4,5,6,7 // 8+0, 8+1, 8+2, 8+3, 8+4, 8+5, 8+6, 8+7, 8+8, 8+9,
0602     9,0,1,2,3,4,5,6,7,8 // 9+0, 9+1, 9+2, 9+3, 9+4, 9+5, 9+6, 9+7, 9+8, 9+9
0603 };
0604
0605 // 0.9 * 0.9
0606 // One dimensional arrays should be faster!
0607 unsigned char MSDarray[10][10] = {
0608     0,0,0,0,0,0,0,0,0,0 // 0x0, 0x1, 0x2, 0x3, 0x4, 0x5, 0x6, 0x7, 0x8, 0x9,
0609     0,0,0,0,0,0,0,0,0,0 // 1x0, 1x1, 1x2, 1x3, 1x4, 1x5, 1x6, 1x7, 1x8, 1x9,
0610     0,0,0,0,0,1,1,1,1,1 // 2x0, 2x1, 2x2, 2x3, 2x4, 2x5, 2x6, 2x7, 2x8, 2x9,
0611     0,0,0,0,1,1,1,2,2,2 // 3x0, 3x1, 3x2, 3x3, 3x4, 3x5, 3x6, 3x7, 3x8, 3x9,
0612     0,0,0,1,1,2,2,2,3,3 // 4x0, 4x1, 4x2, 4x3, 4x4, 4x5, 4x6, 4x7, 4x8, 4x9,
0613     0,0,1,1,2,2,3,3,4,4 // 5x0, 5x1, 5x2, 5x3, 5x4, 5x5, 5x6, 5x7, 5x8, 5x9,
0614     0,0,1,1,2,3,3,4,4,5 // 6x0, 6x1, 6x2, 6x3, 6x4, 6x5, 6x6, 6x7, 6x8, 6x9,
0615     0,0,1,2,2,3,4,4,5,6 // 7x0, 7x1, 7x2, 7x3, 7x4, 7x5, 7x6, 7x7, 7x8, 7x9,

```



```

0616 0, 0, 1, 2, 3, 4, 4, 5, 6, 7, // 8x0, 8x1, 8x2, 8x3, 8x4, 8x5, 8x6, 8x7, 8x8, 8x9,
0617 0, 0, 1, 2, 3, 4, 5, 6, 7, 8 // 9x0, 9x1, 9x2, 9x3, 9x4, 9x5, 9x6, 9x7, 9x8, 9x9
0618 };
0619 unsigned char LSDarray[10][10] = {
0620 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, // 0x0, 0x1, 0x2, 0x3, 0x4, 0x5, 0x6, 0x7, 0x8, 0x9,
0621 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, // 1x0, 1x1, 1x2, 1x3, 1x4, 1x5, 1x6, 1x7, 1x8, 1x9,
0622 0, 2, 4, 6, 8, 0, 2, 4, 6, 8, // 2x0, 2x1, 2x2, 2x3, 2x4, 2x5, 2x6, 2x7, 2x8, 2x9,
0623 0, 3, 6, 9, 2, 5, 8, 1, 4, 7, // 3x0, 3x1, 3x2, 3x3, 3x4, 3x5, 3x6, 3x7, 3x8, 3x9,
0624 0, 4, 8, 2, 6, 0, 4, 8, 2, 6, // 4x0, 4x1, 4x2, 4x3, 4x4, 4x5, 4x6, 4x7, 4x8, 4x9,
0625 0, 5, 0, 5, 0, 5, 0, 5, 0, 5, // 5x0, 5x1, 5x2, 5x3, 5x4, 5x5, 5x6, 5x7, 5x8, 5x9,
0626 0, 6, 2, 8, 4, 0, 6, 2, 8, 4, // 6x0, 6x1, 6x2, 6x3, 6x4, 6x5, 6x6, 6x7, 6x8, 6x9,
0627 0, 7, 4, 1, 8, 5, 2, 9, 6, 3, // 7x0, 7x1, 7x2, 7x3, 7x4, 7x5, 7x6, 7x7, 7x8, 7x9,
0628 0, 8, 6, 4, 2, 0, 8, 6, 4, 2, // 8x0, 8x1, 8x2, 8x3, 8x4, 8x5, 8x6, 8x7, 8x8, 8x9,
0629 0, 9, 8, 7, 6, 5, 4, 3, 2, 1 // 9x0, 9x1, 9x2, 9x3, 9x4, 9x5, 9x6, 9x7, 9x8, 9x9
0630 };
0631 // With above look-up tables (they replace all nasty *MULs, %MODs) we have a boost:
0632 // 1: 41: 43. 84
0633 // 1: 52: 33. 59 or 52*60+33-(41*60+43)= 650s
0634 // vs
0635 // 3: 00: 38. 26
0636 // 3: 08: 11. 38 or 08*60+11-(00*60+38)= 453s
0637 // Or 3+ minutes ugliness!
0638
0639 CandLength =strlen(Multipl icand);
0640 ErLength =strlen(Multipl ier);
0641 memset(Resul t, 0, (CandLength+ErLength)+1);
0642
0643 if ( (ErLength == 1 && Multipl ier[0] == 0+'0') || (CandLength == 1 && Multipl icand[0] == 0+'0') ) {
0644     Resul t[0] = 0+'0';
0645     return Resul t;
0646 }
0647
0648 if (CandLength > 1 && CandLength == ErLength) Di vi deAndConquer = CandLength>>1; el se Di vi deAndConquer = 0;
0649 if (Di vi deAndConquer == 0) { // Single-thread
0650
0651 // In C the offset starts from 0 whereas in QuickBasic from 1, therefore '<' becomes '<='.
0652 for (SF=1; SF<=CandLength; SF++) {
0653 for (QB=1; QB<=ErLength; QB++) {
0654     CarryFl ag = 0;
0655     Cycle = QB - 1 + SF;
0656     // In C the offset starts from 0 whereas in QuickBasic from 1, therefore '[SF]' becomes '[SF-1]'.
0657     // Here the strings are not reversed as in QB arrays, so [CandLength-SF+1] becomes [(CandLength-SF+1)-1].
0658     //Till er = (Multipl icand[(CandLength-SF+1)-1]-'0') * (Multipl ier[(ErLength-QB+1)-1]-'0');
0659     // LOOK-UP TABLE BOOST: Above COMMENTED line becomes next two:
0660     Till erLeastSi gni fi cantDi git = LSDarray[ Multipl icand[(CandLength-SF+1)-1]-'0' ][ Multipl ier[(ErLength-QB+1)-1]-'0' ];
0661     Till erMostSi gni fi cantDi git = MSDarray[ Multipl icand[(CandLength-SF+1)-1]-'0' ][ Multipl ier[(ErLength-QB+1)-1]-'0' ];
0662     //Resul t[Cycle-1] = (Till er%10) + Resul t[Cycle-1];
0663     // LOOK-UP TABLE BOOST: Above COMMENTED line becomes next one:
0664     Resul t[Cycle-1] = Till erLeastSi gni fi cantDi git + Resul t[Cycle-1];
0665     if ( Resul t[Cycle-1] >= 10 ) {
0666         Resul t[Cycle-1] = Resul t[Cycle-1] - 10;
0667         CarryFl ag = 1;
0668     }
0669     NextNumPos = Cycle + 1;
0670     //Resul t[NextNumPos-1] = Resul t[NextNumPos-1] + CarryFl ag + (unsigned char)(Till er/10);
0671     // LOOK-UP TABLE BOOST: Above COMMENTED line becomes next one:
0672     Resul t[NextNumPos-1] = Resul t[NextNumPos-1] + CarryFl ag + Till erMostSi gni fi cantDi git;
0673     while (Resul t[NextNumPos-1] >= 10) {
0674         Resul t[NextNumPos-1] = Resul t[NextNumPos-1] - 10;
0675         NextNumPos = NextNumPos + 1;
0676         Resul t[NextNumPos-1] = Resul t[NextNumPos-1] + 1;
0677     }
0678 }
0679 }
0680
0681 //Here we have the resul t (REVERSED) in ASCII codes i.e. '0' stands for ASCII 000.
0682 //ResLength is ei ther (CandLength+ErLength) or (CandLength+ErLength-1).
0683 ResLength=(CandLength+ErLength);
0684 if (Resul t[ResLength-1] == 0x00) ResLength--;
0685
0686 //The last thing to be done: the in-place reversal:
0687 for (SF=1; SF<=ResLength/2; SF++) {
0688     CarryFl ag = Resul t[SF-1];
0689     Resul t[SF-1] = Resul t[(ResLength-SF+1)-1]+'0';
0690     Resul t[(ResLength-SF+1)-1] = CarryFl ag+'0';
0691 }
0692 if (ResLength%2 != 0)
0693     Resul t[(ResLength/2+1)-1] = Resul t[(ResLength/2+1)-1]+'0';
0694 //Terminate it:
0695 Resul t[ResLength] = 0;
0696
0697 return Resul t;
0698
0699 } else { // Multi-thread [
0700
0701 Resul t1 = (unsigned char*)mal loc( memory_si ze*2+1 ); //+1 because we need senti nel
0702 if( Resul t1 == NULL ) {
0703     printf("Mokuj IN: Needed memory al locati on denied!\n");

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0704     exit( 1 );
0705 }
0706 Result2 = (unsigned char*)malloc( memory_size*2+1 ); //+1 because we need sentinel
0707 if( Result2 == NULL ) {
0708     printf("MokujIN: Needed memory allocation denied!\n");
0709     exit( 1 );
0710 }
0711 Result3 = (unsigned char*)malloc( memory_size*2+1 ); //+1 because we need sentinel
0712 if( Result3 == NULL ) {
0713     printf("MokujIN: Needed memory allocation denied!\n");
0714     exit( 1 );
0715 }
0716 Result4 = (unsigned char*)malloc( memory_size*2+1 ); //+1 because we need sentinel
0717 if( Result4 == NULL ) {
0718     printf("MokujIN: Needed memory allocation denied!\n");
0719     exit( 1 );
0720 }
0721 memset(Result1, 0, (CandLength+ErLength)+1);
0722 memset(Result2, 0, (CandLength+ErLength)+1);
0723 memset(Result3, 0, (CandLength+ErLength)+1);
0724 memset(Result4, 0, (CandLength+ErLength)+1);
0725
0726 #ifdef Commence_OpenMP
0727 #pragma omp parallel shared(Multipliocand, CandLength, Multiplier, ErLength, MSDarray, LSDarray, DivideAndConquer)
0728     private(SF, QB, Cycle, CarryFlag, TillerLeastSignificantDigit, TillerMostSignificantDigit, NextNumPos, ResLength)
0729 #endif
0730 #ifdef Commence_OpenMP
0731 #pragma omp sections
0732 #endif
0733 {
0734     // The pivot (empty space) is DivideAndConquer:
0735     // CandLength .. DivideAndConquer .. 1 <-
0736     // x = x1 x0 = Multipliocand
0737     // y = y1 y0 = Multiplier
0738     // xy = x1y1*10^DivideAndConquer*10^DivideAndConquer + (x1y0 + y1x0)*10^DivideAndConquer + x0y0
0739     // xy =
0740     //     x0y0
0741     //     x1y0 <- DivideAndConquer
0742     //     x0y1 <- DivideAndConquer
0743     //     x1y1 <- DivideAndConquer*2
0744 #ifdef Commence_OpenMP
0745     #pragma omp section
0746 #endif
0747 {
0748     // x0y0
0749     for (SF=1; SF<=DivideAndConquer; SF++) {
0750         for (QB=1; QB<=DivideAndConquer; QB++) {
0751             CarryFlag = 0;
0752             Cycle = QB - 1 + SF - 1 + 1;
0753             TillerLeastSignificantDigit = LSDarray[ Multipliocand[(CandLength-SF+1)-1]-'0' ][ Multiplier[(ErLength-QB+1)-1]-'0' ];
0754             TillerMostSignificantDigit = MSDarray[ Multipliocand[(CandLength-SF+1)-1]-'0' ][ Multiplier[(ErLength-QB+1)-1]-'0' ];
0755             Result1[Cycle-1] = TillerLeastSignificantDigit + Result1[Cycle-1];
0756             if ( Result1[Cycle-1] >= 10 ) {
0757                 Result1[Cycle-1] = Result1[Cycle-1] - 10;
0758                 CarryFlag = 1;
0759             }
0760             NextNumPos = Cycle + 1;
0761             Result1[NextNumPos-1] = Result1[NextNumPos-1] + CarryFlag + TillerMostSignificantDigit;
0762             while (Result1[NextNumPos-1] >= 10) {
0763                 Result1[NextNumPos-1] = Result1[NextNumPos-1] - 10;
0764                 NextNumPos = NextNumPos + 1;
0765                 Result1[NextNumPos-1] = Result1[NextNumPos-1] + 1;
0766             }
0767         }
0768     }
0769     //Here we have the result (REVERSED) in ASCII codes i.e. '0' stands for ASCII 000.
0770     ResLength=(DivideAndConquer+DivideAndConquer);
0771     if (Result1[ResLength-1] == 0x00) ResLength--;
0772
0773     //The last thing to be done: the in-place reversal:
0774     for (SF=1; SF<=ResLength/2; SF++) {
0775         CarryFlag = Result1[SF-1];
0776         Result1[SF-1] = Result1[(ResLength-SF+1)-1]+'0';
0777         Result1[(ResLength-SF+1)-1] = CarryFlag+'0';
0778     }
0779     if (ResLength%2 != 0)
0780         Result1[(ResLength/2+1)-1] = Result1[(ResLength/2+1)-1]+'0';
0781     //Terminate it:
0782     Result1[ResLength] = 0;
0783 }
0784 #ifdef Commence_OpenMP
0785 #pragma omp section
0786 #endif
0787 {
0788     // x1y0
0789     for (SF=DivideAndConquer+1; SF<=CandLength; SF++) { // 1..[DivideAndConquer+1..CandLength] or 0..[DivideAndConquer..CandLength-1] BACKWARDS!
0790         for (QB=1; QB<=DivideAndConquer; QB++) {

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0791 CarryFlag = 0;
0792 Cycle = QB - 1 + SF - (Di vi deAndConquer+1) +1;
0793 TillerLeastSignificantDigit = LSDarray[ Multiplieand[(CandLength-SF+1)-1]-'0' ][ Multiplier[(ErLength-QB+1)-1]-'0' ];
0794 TillerMostSignificantDigit = MSDarray[ Multiplieand[(CandLength-SF+1)-1]-'0' ][ Multiplier[(ErLength-QB+1)-1]-'0' ];
0795 Resul t2[Cycl e-1] = TillerLeastSignificantDigit + Resul t2[Cycl e-1];
0796 if ( Resul t2[Cycl e-1] >= 10 ) {
0797     Resul t2[Cycl e-1] = Resul t2[Cycl e-1] - 10;
0798     CarryFlag = 1;
0799 }
0800 NextNumPos = Cycle + 1;
0801 Resul t2[NextNumPos-1] = Resul t2[NextNumPos-1] + CarryFlag + TillerMostSignificantDigit;
0802 while (Resul t2[NextNumPos-1] >= 10) {
0803     Resul t2[NextNumPos-1] = Resul t2[NextNumPos-1] - 10;
0804     NextNumPos = NextNumPos + 1;
0805     Resul t2[NextNumPos-1] = Resul t2[NextNumPos-1] + 1;
0806 }
0807 }
0808 }
0809 //Here we have the result (REVERSED) in ASCII codes i.e. '0' stands for ASCII 000.
0810 ResLength=((CandLength-Di vi deAndConquer)+Di vi deAndConquer);
0811 if (Resul t2[ResLength-1] == 0x00) ResLength--;
0812
0813 //The last thing to be done: the in-place reversal:
0814 for (SF=1; SF<=ResLength/2; SF++) {
0815     CarryFlag = Resul t2[SF-1];
0816     Resul t2[SF-1] = Resul t2[(ResLength-SF+1)-1]+'0';
0817     Resul t2[(ResLength-SF+1)-1] = CarryFlag+'0';
0818 }
0819 if (ResLength%2 != 0)
0820     Resul t2[(ResLength/2+1)-1] = Resul t2[(ResLength/2+1)-1]+'0';
0821 //Terminate it:
0822 Resul t2[ResLength] = 0;
0823 }
0824 #ifdef Commence_OpenMP
0825     #pragma omp section
0826 #endif
0827 {
0828 // x0y1
0829 for (SF=1; SF<=Di vi deAndConquer; SF++) {
0830 for (QB=Di vi deAndConquer+1; QB<=ErLength; QB++) {
0831     CarryFlag = 0;
0832     Cycle = QB - (Di vi deAndConquer+1) + SF - 1 +1;
0833     TillerLeastSignificantDigit = LSDarray[ Multiplieand[(CandLength-SF+1)-1]-'0' ][ Multiplier[(ErLength-QB+1)-1]-'0' ];
0834     TillerMostSignificantDigit = MSDarray[ Multiplieand[(CandLength-SF+1)-1]-'0' ][ Multiplier[(ErLength-QB+1)-1]-'0' ];
0835     Resul t3[Cycl e-1] = TillerLeastSignificantDigit + Resul t3[Cycl e-1];
0836     if ( Resul t3[Cycl e-1] >= 10 ) {
0837         Resul t3[Cycl e-1] = Resul t3[Cycl e-1] - 10;
0838         CarryFlag = 1;
0839     }
0840     NextNumPos = Cycle + 1;
0841     Resul t3[NextNumPos-1] = Resul t3[NextNumPos-1] + CarryFlag + TillerMostSignificantDigit;
0842     while (Resul t3[NextNumPos-1] >= 10) {
0843         Resul t3[NextNumPos-1] = Resul t3[NextNumPos-1] - 10;
0844         NextNumPos = NextNumPos + 1;
0845         Resul t3[NextNumPos-1] = Resul t3[NextNumPos-1] + 1;
0846     }
0847 }
0848 }
0849 //Here we have the result (REVERSED) in ASCII codes i.e. '0' stands for ASCII 000.
0850 ResLength=((ErLength-Di vi deAndConquer)+Di vi deAndConquer);
0851 if (Resul t3[ResLength-1] == 0x00) ResLength--;
0852
0853 //The last thing to be done: the in-place reversal:
0854 for (SF=1; SF<=ResLength/2; SF++) {
0855     CarryFlag = Resul t3[SF-1];
0856     Resul t3[SF-1] = Resul t3[(ResLength-SF+1)-1]+'0';
0857     Resul t3[(ResLength-SF+1)-1] = CarryFlag+'0';
0858 }
0859 if (ResLength%2 != 0)
0860     Resul t3[(ResLength/2+1)-1] = Resul t3[(ResLength/2+1)-1]+'0';
0861 //Terminate it:
0862 Resul t3[ResLength] = 0;
0863 }
0864 #ifdef Commence_OpenMP
0865     #pragma omp section
0866 #endif
0867 {
0868 // x1y1
0869 for (SF=Di vi deAndConquer+1; SF<=CandLength; SF++) {
0870 for (QB=Di vi deAndConquer+1; QB<=ErLength; QB++) {
0871     CarryFlag = 0;
0872     Cycl e = QB - (Di vi deAndConquer+1) + SF - (Di vi deAndConquer+1) +1;
0873     TillerLeastSignificantDigit = LSDarray[ Multiplieand[(CandLength-SF+1)-1]-'0' ][ Multiplier[(ErLength-QB+1)-1]-'0' ];
0874     TillerMostSignificantDigit = MSDarray[ Multiplieand[(CandLength-SF+1)-1]-'0' ][ Multiplier[(ErLength-QB+1)-1]-'0' ];
0875     Resul t4[Cycl e-1] = TillerLeastSignificantDigit + Resul t4[Cycl e-1];
0876     if ( Resul t4[Cycl e-1] >= 10 ) {
0877         Resul t4[Cycl e-1] = Resul t4[Cycl e-1] - 10;
0878         CarryFlag = 1;

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0879     }
0880     NextNumPos = Cycle + 1;
0881     Result4[NextNumPos-1] = Result4[NextNumPos-1] + CarryFlag + TillerMostSignificantDigit;
0882     while (Result4[NextNumPos-1] >= 10) {
0883         Result4[NextNumPos-1] = Result4[NextNumPos-1] - 10;
0884         NextNumPos = NextNumPos + 1;
0885         Result4[NextNumPos-1] = Result4[NextNumPos-1] + 1;
0886     }
0887 }
0888 }
0889 //Here we have the result (REVERSED) in ASCII codes i.e. '0' stands for ASCII 000.
0890 ResLength=((CandLength-DivideAndConquer)+(ErLength-DivideAndConquer));
0891 if (Result4[ResLength-1] == 0x00) ResLength--;
0892
0893 //The last thing to be done: the in-place reversal:
0894 for (SF=1; SF<=ResLength/2; SF++) {
0895     CarryFlag = Result4[SF-1];
0896     Result4[SF-1] = Result4[(ResLength-SF+1)-1]+'0';
0897     Result4[(ResLength-SF+1)-1] = CarryFlag+'0';
0898 }
0899 if (ResLength%2 != 0)
0900     Result4[(ResLength/2+1)-1] = Result4[(ResLength/2+1)-1]+'0';
0901 //Terminate it:
0902 Result4[ResLength] = 0;
0903 }
0904 }
0905 }// pragma
0906
0907 // Add the four Results to 'Result' [
0908
0909 //printf("\nResult1 %s\n", Result1);
0910 //printf("Result2 %s\n", Result2);
0911 //printf("Result3 %s\n", Result3);
0912 //printf("Result4 %s\n", Result4);
0913
0914 // 12345 * 67890 = 838,102,050
0915
0916 // x1(123) x0(45) *
0917 // y1(678) y0(90) =
0918
0919 // x0y0 or Result1:      4050    ok
0920 // x1y0 or Result2:     11070    ok
0921 // x0y1 or Result3:     30510    ok
0922 // x1y1 or Result4:     83394    ok
0923 //
0924 //                        838102050
0925 // 1234 * 5678 = 7,006,652
0926
0927 // x1(12) x0(34) *
0928 // y1(56) y0(78) =
0929
0930 // x0y0 or Result1:      2652    ok
0931 // x1y0 or Result2:       936    ok
0932 // x0y1 or Result3:      1904    ok
0933 // x1y1 or Result4:       672    ok
0934 //
0935 //                        7006652
0936 // 67 * 89 = 5,963
0937
0938 // x1(6) x0(7) *
0939 // y1(8) y0(9) =
0940
0941 // x0y0 or Result1:       63     ok
0942 // x1y0 or Result2:       54     ok
0943 // x0y1 or Result3:       56     ok
0944 // x1y1 or Result4:       48     ok
0945 //
0946 //                        5963
0947 // R1
0948 // R2      <- DivideAndConquer
0949 // R3      <- DivideAndConquer
0950 // R4      <- DivideAndConquer*2
0951
0952 //ResLength is either (CandLength+ErLength) or (CandLength+ErLength-1).
0953 ResLength=(CandLength+ErLength);
0954 for (SF=1; SF<=ResLength; SF++) { // No need of adding ASCII 000 at end since Result pool is CandLength+ErLength+1 long: memset(Result, 0,
0955     (CandLength+ErLength)+1);
0956     Result[SF-1] = '0';
0957 }
0958 // x0y0 or Result1:      2652    ok
0959 QB = strlen(Result1);
0960 memcpy(Result + ResLength-QB, Result1, QB);
0961 // x1y0 or Result2:       936    ok
0962 //                        96252    ok 0096252
0963 QB = strlen(Result2);
0964     CarryFlag = 0;
0965 for (SF=1; SF<=QB; SF++) {

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```

0966 TillerLeastSigmoid = LSDarrayADD[ Result[ ((ResLength - Di vi deAndConquer)-SF+1)-1]-'0' ][ Result t2[(QB-SF+1)-1]-'0' ];
0967 TillerMostSigmoid = MSDarrayADD[ Result[ ((ResLength - Di vi deAndConquer)-SF+1)-1]-'0' ][ Result t2[(QB-SF+1)-1]-'0' ];
0968 TillerLeastSigmoid = TillerLeastSigmoid + CarryFlag;
0969 if (TillerLeastSigmoid == 10) { CarryFlag = 1; TillerLeastSigmoid = 0; } else CarryFlag = 0;
0970 Result[ ((ResLength - Di vi deAndConquer)-SF+1)-1] = TillerLeastSigmoid + '0';
0971 if (CarryFlag == 0) CarryFlag = TillerMostSigmoid;
0972 }
0973 if (CarryFlag != 0) {
0974 SF=QB;
0975 while (((ResLength - Di vi deAndConquer)-SF+1)-1 != 0) {
0976 SF++;
0977 TillerLeastSigmoid = LSDarrayADD[ Result[ ((ResLength - Di vi deAndConquer)-SF+1)-1]-'0' ][ 0 ];
0978 TillerMostSigmoid = MSDarrayADD[ Result[ ((ResLength - Di vi deAndConquer)-SF+1)-1]-'0' ][ 0 ];
0979 TillerLeastSigmoid = TillerLeastSigmoid + CarryFlag;
0980 if (TillerLeastSigmoid == 10) { CarryFlag = 1; TillerLeastSigmoid = 0; } else CarryFlag = 0;
0981 Result[ ((ResLength - Di vi deAndConquer)-SF+1)-1] = TillerLeastSigmoid + '0';
0982 if (CarryFlag == 0) CarryFlag = TillerMostSigmoid;
0983 }
0984 }
0985
0986 // x0y1 or Result3: 1904 ok
0987 // 286652 ok 0286652
0988 QB = strlen(Result3);
0989 CarryFlag = 0;
0990 for (SF=1; SF<=QB; SF++) {
0991 TillerLeastSigmoid = LSDarrayADD[ Result[ ((ResLength - Di vi deAndConquer)-SF+1)-1]-'0' ][ Result t3[(QB-SF+1)-1]-'0' ];
0992 TillerMostSigmoid = MSDarrayADD[ Result[ ((ResLength - Di vi deAndConquer)-SF+1)-1]-'0' ][ Result t3[(QB-SF+1)-1]-'0' ];
0993 TillerLeastSigmoid = TillerLeastSigmoid + CarryFlag;
0994 if (TillerLeastSigmoid == 10) { CarryFlag = 1; TillerLeastSigmoid = 0; } else CarryFlag = 0;
0995 Result[ ((ResLength - Di vi deAndConquer)-SF+1)-1] = TillerLeastSigmoid + '0';
0996 if (CarryFlag == 0) CarryFlag = TillerMostSigmoid;
0997 }
0998 if (CarryFlag != 0) {
0999 SF=QB;
1000 while (((ResLength - Di vi deAndConquer)-SF+1)-1 != 0) {
1001 SF++;
1002 TillerLeastSigmoid = LSDarrayADD[ Result[ ((ResLength - Di vi deAndConquer)-SF+1)-1]-'0' ][ 0 ];
1003 TillerMostSigmoid = MSDarrayADD[ Result[ ((ResLength - Di vi deAndConquer)-SF+1)-1]-'0' ][ 0 ];
1004 TillerLeastSigmoid = TillerLeastSigmoid + CarryFlag;
1005 if (TillerLeastSigmoid == 10) { CarryFlag = 1; TillerLeastSigmoid = 0; } else CarryFlag = 0;
1006 Result[ ((ResLength - Di vi deAndConquer)-SF+1)-1] = TillerLeastSigmoid + '0';
1007 if (CarryFlag == 0) CarryFlag = TillerMostSigmoid;
1008 }
1009 }
1010
1011 // x1y1 or Result4: 672 ok
1012 // 7006652 ok 7006652
1013 QB = strlen(Result4);
1014 CarryFlag = 0;
1015 for (SF=1; SF<=QB; SF++) {
1016 TillerLeastSigmoid = LSDarrayADD[ Result[ ((ResLength - 2*Di vi deAndConquer)-SF+1)-1]-'0' ][ Result t4[(QB-SF+1)-1]-'0' ];
1017 TillerMostSigmoid = MSDarrayADD[ Result[ ((ResLength - 2*Di vi deAndConquer)-SF+1)-1]-'0' ][ Result t4[(QB-SF+1)-1]-'0' ];
1018 TillerLeastSigmoid = TillerLeastSigmoid + CarryFlag;
1019 if (TillerLeastSigmoid == 10) { CarryFlag = 1; TillerLeastSigmoid = 0; } else CarryFlag = 0;
1020 Result[ ((ResLength - 2*Di vi deAndConquer)-SF+1)-1] = TillerLeastSigmoid + '0';
1021 if (CarryFlag == 0) CarryFlag = TillerMostSigmoid;
1022 }
1023 if (CarryFlag != 0) {
1024 SF=QB;
1025 while (((ResLength - 2*Di vi deAndConquer)-SF+1)-1 != 0) {
1026 SF++;
1027 TillerLeastSigmoid = LSDarrayADD[ Result[ ((ResLength - 2*Di vi deAndConquer)-SF+1)-1]-'0' ][ 0 ];
1028 TillerMostSigmoid = MSDarrayADD[ Result[ ((ResLength - 2*Di vi deAndConquer)-SF+1)-1]-'0' ][ 0 ];
1029 TillerLeastSigmoid = TillerLeastSigmoid + CarryFlag;
1030 if (TillerLeastSigmoid == 10) { CarryFlag = 1; TillerLeastSigmoid = 0; } else CarryFlag = 0;
1031 Result[ ((ResLength - 2*Di vi deAndConquer)-SF+1)-1] = TillerLeastSigmoid + '0';
1032 if (CarryFlag == 0) CarryFlag = TillerMostSigmoid;
1033 }
1034 }
1035
1036 // Add the four Results to 'Result' ]
1037
1038 free(Result1); free(Result2); free(Result3); free(Result4);
1039 if (Result[0] == '0') return &Result[0]+1; // The first digit is ZERO since ResLength=(CandLength+ErLength)-1 not (CandLength+ErLength).
1040 else return &Result[0];
1041 } // Multi-thread ]
1042 }
1043
1044 // D:\_KAZE\MokujIN_r4>cl /Ox MokujIN_4threads.c /Facs /FeMokujIN_r5_4-Threads_MicrosoftV16 /openmp -DCommence_OpenMP
1045 // Microsoft (R) C/C++ Optimizing Compiler Version 16.00.30319.01 for x64
1046 // Copyright (C) Microsoft Corporation. All rights reserved.
1047 //
1048 // MokujIN_4threads.c
1049 // MokujIN_4threads.c(708) : error C4235: nonstandard extension used : '__asm' keyword not supported on this architecture
1050
1051 // MASM style inline assembly, 32 bit mode
1052 /*
1053 unsigned int abs_AF (int n) {

```

```

1054 __asm {
1055 mov eax, n // Move n to eax
1056 // abs(n) is calculated by inverting all bits and adding 1 if n < 0:
1057 cdq // Get sign bit into all bits of edx
1058 xor eax, edx // Invert bits if negative
1059 sub eax, edx // Add 1 if negative. Now eax = abs(n)
1060 } // Return value is in eax
1061 }
1062 */
1063
1064 // Optimizing subroutines in assembly language
1065 // An optimization guide for x86 platforms
1066 // By Agner Fog. Copenhagen University College of Engineering.
1067 /*
1068 It is possible to calculate the absolute value of a signed integer without branching:
1069 ; Example 9.15, Calculate absolute value of eax
1070 cdq ; Copy sign bit of eax to all bits of edx
1071 xor eax, edx ; Invert all bits if negative
1072 sub eax, edx ; Add 1 if negative
1073 The following example finds the minimum of two unsigned numbers: if (b > a) b = a;
1074 ; Example 9.16a, Find minimum of eax and ebx (unsigned):
1075 sub eax, ebx ; = a-b
1076 sbb edx, edx ; = (b > a) ? 0xFFFFFFFF : 0
1077 and edx, eax ; = (b > a) ? a-b : 0
1078 add ebx, edx ; Result is in ebx
1079 Or, for signed numbers, ignoring overflow:
1080 ; Example 9.16b, Find minimum of eax and ebx (signed):
1081 sub eax, ebx ; Will not work if overflow here
1082 cdq ; = (b > a) ? 0xFFFFFFFF : 0
1083 and edx, eax ; = (b > a) ? a-b : 0
1084 add ebx, edx ; Result is in ebx
1085 The next example chooses between two numbers: if (a < 0) d = b; else d = c;
1086 ; Example 9.17a, Choose between two numbers
1087 test eax, eax
1088 mov ecx, ecx
1089 cmovs edx, ebx ; = (a < 0) ? b : c
1090 Conditional moves are not very efficient on Intel processors and not available on old
1091 processors. Alternative implementations may be faster in some cases. The following
1092 example gives the same result as example 9.17a.
1093 ; Example 9.17b, Choose between two numbers without conditional move:
1094 cdq ; = (a < 0) ? 0xFFFFFFFF : 0
1095 xor ebx, ecx ; b ^ c = bits that differ between b and c
1096 and edx, ebx ; = (a < 0) ? (b ^ c) : 0
1097 xor edx, ecx ; = (a < 0) ? b : c
1098 Example 9.17b may be faster than 9.17a on processors where conditional moves are
1099 inefficient. Example 9.17b destroys the value of ebx.
1100 */
1101
1102
1103 int main(int argc, char *argv[])
1104 {
1105 signed int LUTcolumns=8; // Viva Babylonia
1106 signed int n, p, p31;
1107 unsigned char* pointerfl ushUNALIGN;
1108 unsigned char* pointerfl ushUNALIGNfix;
1109 unsigned char* Multiplicand;
1110 unsigned char* Multiplier;
1111 time_t t1, t2, tSTART, tFINISH;
1112 unsigned long long DPS;
1113 FILE *fp_out;
1114 char lIT0aDigits[27]; // 9, 223, 372, 036, 854, 775, 807: 1(sign or carry)+19(digits)+1('\0')+6(,)
1115 char lIT0aDigits2[27]; // 9, 223, 372, 036, 854, 775, 807: 1(sign or carry)+19(digits)+1('\0')+6(,)
1116
1117 /*
1118 signed int Bab1, Bab2, Bab3;
1119 Bab1 = 3080;
1120 Bab2 = 32220;
1121 Bab3 = Bab2-Bab1;
1122 printf("%d\n", Bab3);
1123 printf("%d\n", abs_AF(Bab3)); // Thanks to Agner Fog the condition 'if (Bab3<0) Bab3 = -Bab3;' is no more.
1124 Bab3 = Bab1-Bab2;
1125 printf("%d\n", Bab3);
1126 printf("%d\n", abs_AF(Bab3));
1127 //printf("%d\n", 0x7fffffff); // 2147483647
1128 //printf("%d\n", 0x80000000); // -2147483648
1129 exit (0);
1130 // D:\KAZE\MokujIN>MokujIN.exe
1131 // 29140
1132 // 29140
1133 // -29140
1134 // 29140
1135 */
1136
1137 /*
1138 // Babylonia LUT dumper [
1139 p31 = 9;
1140 printf("Babylonia LUT (look-up table) %dx%d:\n", p31, p31);
1141 p31 = p31*2+1;

```

```

1142 for (p=0; p<p31; p=p+LUTcol umns) {
1143     n=LUTcol umns;
1144     printf("n      : ");
1145     while (n-->0) {
1146         if (p+LUTcol umns-(n+1)<p31) {
1147             if (p+LUTcol umns-(n+1)<10)
1148                 printf(" ");
1149             else {}
1150             printf("%d ", p+LUTcol umns-(n+1) );
1151         }
1152     }
1153     printf("\n");
1154     printf("n^2/4: ");
1155     n=LUTcol umns;
1156     while (n-->0) {
1157         if (p+LUTcol umns-(n+1)<p31) {
1158             if ((p+LUTcol umns-(n+1))*(p+LUTcol umns-(n+1))/4<10)
1159                 printf(" ");
1160             else {}
1161             printf("%d ", (p+LUTcol umns-(n+1))*(p+LUTcol umns-(n+1))/4);
1162         }
1163     }
1164     printf("\n");
1165 }
1166 p31 = 99;
1167 printf("Babyloni an LUT (look-up table) %dx%d:\n", p31, p31);
1168 p31 = p31*2+1;
1169 for (p=0; p<p31; p=p+LUTcol umns) {
1170     n=LUTcol umns;
1171     printf("n      : ");
1172     while (n-->0) {
1173         if (p+LUTcol umns-(n+1)<p31) {
1174             if (p+LUTcol umns-(n+1)<10)
1175                 printf(" ");
1176             else if (p+LUTcol umns-(n+1)<100)
1177                 printf(" ");
1178             else if (p+LUTcol umns-(n+1)<1000)
1179                 printf(" ");
1180             else {}
1181             printf("%d ", p+LUTcol umns-(n+1) );
1182         }
1183     }
1184     printf("\n");
1185     printf("n^2/4: ");
1186     n=LUTcol umns;
1187     while (n-->0) {
1188         if (p+LUTcol umns-(n+1)<p31) {
1189             if ((p+LUTcol umns-(n+1))*(p+LUTcol umns-(n+1))/4<10)
1190                 printf(" ");
1191             else if ((p+LUTcol umns-(n+1))*(p+LUTcol umns-(n+1))/4<100)
1192                 printf(" ");
1193             else if ((p+LUTcol umns-(n+1))*(p+LUTcol umns-(n+1))/4<1000)
1194                 printf(" ");
1195             else {}
1196             printf("%d ", (p+LUTcol umns-(n+1))*(p+LUTcol umns-(n+1))/4);
1197         }
1198     }
1199     printf("\n");
1200 }
1201 p31 = 999;
1202 printf("Babyloni an LUT (look-up table) %dx%d:\n", p31, p31);
1203 p31 = p31*2+1;
1204 for (p=0; p<p31; p=p+LUTcol umns) {
1205     n=LUTcol umns;
1206     printf("n      : ");
1207     while (n-->0) {
1208         if (p+LUTcol umns-(n+1)<p31) {
1209             if (p+LUTcol umns-(n+1)<10)
1210                 printf(" ");
1211             else if (p+LUTcol umns-(n+1)<100)
1212                 printf(" ");
1213             else if (p+LUTcol umns-(n+1)<1000)
1214                 printf(" ");
1215             else if (p+LUTcol umns-(n+1)<10000)
1216                 printf(" ");
1217             else if (p+LUTcol umns-(n+1)<100000)
1218                 printf(" ");
1219             else {}
1220             printf("%d ", p+LUTcol umns-(n+1) );
1221         }
1222     }
1223     printf("\n");
1224     printf("n^2/4: ");
1225     n=LUTcol umns;
1226     while (n-->0) {
1227         if (p+LUTcol umns-(n+1)<p31) {
1228             if ((p+LUTcol umns-(n+1))*(p+LUTcol umns-(n+1))/4<10)
1229                 printf(" ");

```

```

1230     else if ((p+LUTcol umns-(n+1))*(p+LUTcol umns-(n+1))/4<100)
1231         printf(" ");
1232     else if ((p+LUTcol umns-(n+1))*(p+LUTcol umns-(n+1))/4<1000)
1233         printf(" ");
1234     else if ((p+LUTcol umns-(n+1))*(p+LUTcol umns-(n+1))/4<10000)
1235         printf(" ");
1236     else if ((p+LUTcol umns-(n+1))*(p+LUTcol umns-(n+1))/4<100000)
1237         printf(" ");
1238     else {}
1239     printf("%d ", (p+LUTcol umns-(n+1))*(p+LUTcol umns-(n+1))/4);
1240 }
1241 }
1242 printf("\n");
1243 }
1244 p31 = 9999;
1245 printf("Babylonian LUT (look-up table) %dx%d:\n", p31, p31);
1246 p31 = p31*2+1;
1247 for (p=0; p<p31; p=p+LUTcol umns) {
1248     n=LUTcol umns;
1249     printf("n : ");
1250     while (n--) {
1251         if (p+LUTcol umns-(n+1)<p31) {
1252             if (p+LUTcol umns-(n+1)<10)
1253                 printf(" ");
1254             else if (p+LUTcol umns-(n+1)<100)
1255                 printf(" ");
1256             else if (p+LUTcol umns-(n+1)<1000)
1257                 printf(" ");
1258             else if (p+LUTcol umns-(n+1)<10000)
1259                 printf(" ");
1260             else if (p+LUTcol umns-(n+1)<100000)
1261                 printf(" ");
1262             else if (p+LUTcol umns-(n+1)<1000000)
1263                 printf(" ");
1264             else if (p+LUTcol umns-(n+1)<10000000)
1265                 printf(" ");
1266             else {}
1267             printf("%d ", p+LUTcol umns-(n+1) );
1268         }
1269     }
1270     printf("\n");
1271     printf("n^2/4: ");
1272     n=LUTcol umns;
1273     while (n--) {
1274         if (p+LUTcol umns-(n+1)<p31) {
1275             if ((p+LUTcol umns-(n+1))*(p+LUTcol umns-(n+1))/4<10)
1276                 printf(" ");
1277             else if ((p+LUTcol umns-(n+1))*(p+LUTcol umns-(n+1))/4<100)
1278                 printf(" ");
1279             else if ((p+LUTcol umns-(n+1))*(p+LUTcol umns-(n+1))/4<1000)
1280                 printf(" ");
1281             else if ((p+LUTcol umns-(n+1))*(p+LUTcol umns-(n+1))/4<10000)
1282                 printf(" ");
1283             else if ((p+LUTcol umns-(n+1))*(p+LUTcol umns-(n+1))/4<100000)
1284                 printf(" ");
1285             else if ((p+LUTcol umns-(n+1))*(p+LUTcol umns-(n+1))/4<1000000)
1286                 printf(" ");
1287             else if ((p+LUTcol umns-(n+1))*(p+LUTcol umns-(n+1))/4<10000000)
1288                 printf(" ");
1289             else {}
1290             printf("%d ", (p+LUTcol umns-(n+1))*(p+LUTcol umns-(n+1))/4);
1291         }
1292     }
1293     printf("\n");
1294 }
1295 // Babylonian LUT dumper ]
1296 exit(0);
1297 */
1298
1299 (void) time(&tSTART);
1300
1301 if (argc != 3 && argc != 4) {
1302     #ifdef Commence_OpenMP
1303         printf("MokujIN, Multiplication of INtegers, an OpenMP (multi-threaded) string multiplier, written by Kaze, 2012-Nov-16, revision 4fix.\n");
1304     #else
1305         printf("MokujIN, Multiplication of INtegers, a single-threaded string multiplier, written by Kaze, 2012-Nov-16, revision 4fix.\n");
1306     #endif
1307     printf("Usage: MokujIN [Number Power [/turbo|/stats]]\n");
1308     printf("Note0: With no parameters given, interactive multiplication regime is on.\n");
1309     printf("Note1: Power is signed 32bit integer i.e. up to 2^31-1=2,147,483,647.\n");
1310     printf("Note2: Multiplicand or/and Multiplier cannot exceed %d digits.\n", memory_size);
1311     printf("Note3: '/turbo' regime is several times (only) faster.\n");
1312     printf("Note4: '/stats' is '/turbo' too, also dumps the result to 'MokujIN.txt'.\n");
1313     printf("Note5: When power is big enough (as in Example3) MokujINs (or the prosaic DPS) is an useful CPU clock pseudo-measure.\n");
1314     printf("Example1: D:\\_KAZE\\MokujIN>MokujIN.exe 18446744073709551616 2\n");
1315     printf("Example2: D:\\_KAZE\\MokujIN>MokujIN.exe\n");

```



```

1317 printf("Mul ti pli cand: 18446744073709551616\n");
1318 printf("Mul ti pli er : 18446744073709551616\n");
1319 printf("Resul t : 340282366920938463463374607431768211456\n");
1320 printf("Exampl e3: D:\\_KAZE\\Mokuj IN>Mokuj IN.exe 2 1048576 /stats\n");
1321 printf("... \n");
1322 printf("Mul ti pli ng performance for operands 39457 digi ts long: 77842742 Mokuj INs i.e. digi ts per second.\n");
1323 printf("Mul ti pli ng performance for operands 78914 digi ts long: 77842742 Mokuj INs i.e. digi ts per second.\n");
1324 printf("Mul ti pli ng performance for operands 157827 digi ts long: 77358266 Mokuj INs i.e. digi ts per second.\n");
1325 printf("Dumping the resul t to 'Mokuj IN.txt' ... OK\n");
1326 }
1327
1328 pointerfl ushUNALI GN = (unsi gned char*)mal loc( memory_si ze*2+1 ); //+1 because we need senti nel
1329 if( poi nterfl ushUNALI GN == NULL ) {
1330 printf("Mokuj IN: Needed memory al locati on denied!\n");
1331 return( 1 );
1332 }
1333 pointerfl ushUNALI GNfi x = poi nterfl ushUNALI GN;
1334 Mul ti pli cand = (unsi gned char*)mal loc( memory_si ze*2+1 ); //+1 because we need senti nel
1335 if( Mul ti pli cand == NULL ) {
1336 printf("Mokuj IN: Needed memory al locati on denied!\n");
1337 return( 1 );
1338 }
1339 Mul ti pli er = (unsi gned char*)mal loc( memory_si ze*2+1 ); //+1 because we need senti nel
1340 if( Mul ti pli er == NULL ) {
1341 printf("Mokuj IN: Needed memory al locati on denied!\n");
1342 return( 1 );
1343 }
1344
1345 if (argc == 3 || argc == 4) {
1346 p = atoi(argv[2]); //_atoi64(argv[2]);
1347 if (p < 2) {
1348 printf("Mokuj IN: Power should be 2 or greater!\n");
1349 free(poi nterfl ushUNALI GNfi x); free(Mul ti pli cand); free(Mul ti pli er);
1350 return( 2 );
1351 }
1352
1353 if ( argc == 4 && strcmp("/stats\0", argv[3]) == 0 ) {
1354 #i fdef Commence_OpenMP
1355 printf("Mokuj IN, Mul ti pli cation of INtegers, an OpenMP (mul ti -theaded) string mul ti pli er, writ ten by Kaze, 2012-Nov-16, revi sion
4fi x.\n");
1356 #el se
1357 printf("Mokuj IN, Mul ti pli cation of INtegers, a si ngle-theaded string mul ti pli er, writ ten by Kaze, 2012-Nov-16, revi sion 4fi x.\n");
1358 #endi f
1359
1360 #i fdef Commence_OpenMP
1361 printf("omp_get_num_procs( ) = %d\n", omp_get_num_procs( ));
1362 printf("omp_get_max_threads( ) = %d\n", omp_get_max_threads( ));
1363 #endi f
1364 }
1365
1366 memcpy(Mul ti pli cand, argv[1], strlen(argv[1])); Mul ti pli cand[strlen(argv[1])] = 0; // Not assumi ng the al located pool is ZEROed!
1367 memcpy(Mul ti pli er, argv[1], strlen(argv[1])); Mul ti pli er[strlen(argv[1])] = 0;
1368 if (argc == 4) {
1369 p31 = 0;
1370 while (p >> 1) {
1371 p31++;
1372 p = p >> 1;
1373 }
1374 p = atoi(argv[2]);
1375 p = p - (1 << p31);
1376 while (p31--> 0) {
1377 (void) time(&t1);
1378 poi nterfl ushUNALI GN = MUL(poi nterfl ushUNALI GN, Mul ti pli cand, Mul ti pli er);
1379 (void) time(&t2);
1380 if (t2 <= t1) {t2 = t1; t2++;}
1381 if ( strcmp("/stats\0", argv[3]) == 0 ) {
1382 DPS = (unsi gned long long)strlen(Mul ti pli er);
1383 DPS *= DPS;
1384 DPS = DPS/(unsi gned long long)(t2-t1);
1385 //printf("Mul ti pli ng performance for operands %lu digi ts long: %lu Mokuj INs i.e. digi ts per second.\n",
strlen(Mul ti pli er), DPS);
1386 printf("Mul ti pli ng performance for operands %lu digi ts long: %s Mokuj INs i.e. digi ts per second.\n",
strlen(Mul ti pli er), _ui64toaKAZEComma(DPS, IIT0aDi gi ts, 10));
1387 }
1388 memcpy(Mul ti pli cand, poi nterfl ushUNALI GN, strlen(poi nterfl ushUNALI GN)); Mul ti pli cand[strlen(poi nterfl ushUNALI GN)] = 0;
1389 memcpy(Mul ti pli er, poi nterfl ushUNALI GN, strlen(poi nterfl ushUNALI GN)); Mul ti pli er[strlen(poi nterfl ushUNALI GN)] = 0;
1390 }
1391 memcpy(Mul ti pli er, argv[1], strlen(argv[1])); Mul ti pli er[strlen(argv[1])] = 0;
1392 while (p--> 1) {
1393 poi nterfl ushUNALI GN = MUL(poi nterfl ushUNALI GN, Mul ti pli cand, Mul ti pli er);
1394 memcpy(Mul ti pli cand, poi nterfl ushUNALI GN, strlen(poi nterfl ushUNALI GN)); Mul ti pli cand[strlen(poi nterfl ushUNALI GN)] = 0;
1395 }
1396 } el se {
1397 while (p--> 1) {
1398 poi nterfl ushUNALI GN = MUL(poi nterfl ushUNALI GN, Mul ti pli cand, Mul ti pli er);
1399 memcpy(Mul ti pli cand, poi nterfl ushUNALI GN, strlen(poi nterfl ushUNALI GN)); Mul ti pli cand[strlen(poi nterfl ushUNALI GN)] = 0;
1400 }
1401 }

```

```

1402 if ( argc == 4 && strcmp("/stats\0", argv[3]) == 0 ) {
1403     if ( ( fp_out = fopen( "MokujIN.txt", "wb+" ) ) == NULL )
1404     { printf( "MokujIN: Can't create file 'MokujIN.txt'.\n" ); return( 4 ); }
1405     printf("Dumping the result to 'MokujIN.txt' ... ");
1406     fprintf( fp_out, "%s\r\n", Multipl icand );
1407     fclose(fp_out);
1408     printf("OK\n");
1409 } else
1410     printf("%s\n", Multipl icand);
1411 free(pointerf l ushUNALI GNf i x); free(Mul ti pl i cand); free(Mul ti pl i er);
1412 if ( argc == 4 && strcmp("/stats\0", argv[3]) == 0 ) {
1413     (void) time(&tFINISH);
1414     if (tFINISH <= tSTART) {tFINISH = tSTART; tFINISH++;}
1415     printf("Total Time: %s seconds.\n", _ui 64toaKAZEcomma((unsigned long long)(tFINISH-tSTART), I I T O a D i g i t s, 10));
1416 }
1417 return 0;
1418 } else if (argc == 1) {
1419     printf("\nMul ti pl i cand: ");
1420     scanf("%s", Mul ti pl i cand);
1421     printf("Mul ti pl i er : ");
1422     scanf("%s", Mul ti pl i er);
1423     printf("Result : ");
1424     printf("%s\n", MUL(pointerf l ushUNALI GN, Mul ti pl i cand, Mul ti pl i er));
1425     free(pointerf l ushUNALI GNf i x); free(Mul ti pl i cand); free(Mul ti pl i er);
1426     if ( argc == 4 && strcmp("/stats\0", argv[3]) == 0 ) {
1427         (void) time(&tFINISH);
1428         if (tFINISH <= tSTART) {tFINISH = tSTART; tFINISH++;}
1429         printf("Total Time: %s seconds.\n", _ui 64toaKAZEcomma((unsigned long long)(tFINISH-tSTART), I I T O a D i g i t s, 10));
1430     }
1431     return 0;
1432 } else {
1433     free(pointerf l ushUNALI GNf i x); free(Mul ti pl i cand); free(Mul ti pl i er);
1434     return 3;
1435 }
1436 }
1437
1438 // The following assembly/code dump is the main loop of MokujIN (namely: 'MUL' function):
1439 // It is 32b-290+6 = 161 bytes long.
1440 // D:\_KAZE\MokujIN>cl /Ox MokujIN.c /Facs
1441 // Microsoft (R) 32-bit C/C++ Optimizing Compiler Version 16.00.30319.01 for 80x86
1442 /*
1443 $LL14@MUL:
1444
1445 ; 122 :      for (QB=1; QB<=ErLength; QB++) {
1446
1447 00290      83 ff 01 cmp     edi, 1
1448 00293      0f 82 87 00 00 jbe     $LN13@MUL
1449 00      jb     $LN13@MUL
1450 00299      8b 54 24 24 mov     edx, DWORD PTR _ErLength$(esp+256)
1451 0029d      8d 45 ff lea     eax, DWORD PTR [ebp-1]
1452 002a0      8d 34 01 lea     esi, DWORD PTR [ecx+eax]
1453 002a3      8b 4c 24 1c mov     ecx, DWORD PTR _Multiplier$GScopy$(esp+256)
1454 002a7      8d 7c 39 ff lea     edi, DWORD PTR [ecx+edi-1]
1455 002ab      8b cd mov     ecx, ebp
1456 002ad      2b c8 sub     ecx, eax
1457 002af      89 4c 24 30 mov     DWORD PTR tv1469(esp+256), ecx
1458 002b3      89 54 24 28 mov     DWORD PTR tv771(esp+256), edx
1459 002b7      eb 07 8d a4 24 npad   9
1460 00 00 00 00
1461 $LL30@MUL:
1462
1463 ; 123 :      CarryFlag = 0;
1464 ; 124 :      Cycle = QB - 1 + SF;
1465 ; 125 :      // In C the offset starts from 0 whereas in QuickBasic from 1, therefore '[SF]' becomes '[SF-1]'.
1466 ; 126 :      // Here the strings are not reversed as in QB arrays, so [CandLength-SF+1] becomes [(CandLength-SF+1)-1].
1467 ; 127 :      //Tiller = (Multipl icand[(CandLength-SF+1)-1]-'0') * (Mul ti pl i er[(ErLength-QB+1)-1]-'0');
1468 ; 128 :      // LOOK-UP TABLE BOOST: Above COMMENTED line becomes next two:
1469 ; 129 :      TillerLeastSigni f i cantDi gi t = LSDarray[ Mul ti pl i cand[(CandLength-SF+1)-1]-'0' ][ Mul ti pl i er[(ErLength-QB+1)-1]-'0' ];
1470 ; 130 :      TillerMostSigni f i cantDi gi t = MSDarray[ Mul ti pl i cand[(CandLength-SF+1)-1]-'0' ][ Mul ti pl i er[(ErLength-QB+1)-1]-'0' ];
1471
1472 002c0      8b 44 24 14 mov     eax, DWORD PTR tv1486(esp+256)
1473 002c4      0f b6 00 movzx   eax, BYTE PTR [eax]
1474 002c7      8d 0c 80 lea     ecx, DWORD PTR [eax+eax*4]
1475 002ca      0f b6 07 movzx   eax, BYTE PTR [edi]
1476 002cd      8d 04 48 lea     eax, DWORD PTR [eax+ecx*2]
1477 002d0      8a 8c 04 24 fe mov     cl, BYTE PTR _MSDarray$(esp+eax-272)
1478 ff ff mov     cl, BYTE PTR _MSDarray$(esp+eax-272)
1479
1480 ; 131 :      //Resul t[Cycl e-1] = (Tiller%10) + Resul t[Cycl e-1];
1481 ; 132 :      // LOOK-UP TABLE BOOST: Above COMMENTED line becomes next one:
1482 ; 133 :      Resul t[Cycl e-1] = TillerLeastSigni f i cantDi gi t + Resul t[Cycl e-1];
1483
1484 002d7      8a 84 04 88 fe mov     al, BYTE PTR _LSDarray$(esp+eax-272)
1485 ff ff mov     al, BYTE PTR _LSDarray$(esp+eax-272)
1486 002de      02 06 add     al, BYTE PTR [esi]
1487 002e0      32 d2 xor     dl, dl
1488 002e2      88 06 mov     BYTE PTR [esi], al
1489

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1490 ; 134 :         if ( Result[Cycle-1] >= 10 ) {
1491
1492 002e4      3c 0a          cmp     al, 10          ; 0000000aH
1493 002e6      72 06          jb     SHORT $LN8@MUL
1494
1495 ; 135 :         Result[Cycle-1] = Result[Cycle-1] - 10;
1496
1497 002e8      2c 0a          sub     al, 10          ; 0000000aH
1498 002ea      88 06          mov     BYTE PTR [esi], al
1499
1500 ; 136 :         CarryFlag = 1;
1501
1502 002ec      b2 01          mov     dl, 1
1503 $LN8@MUL:
1504
1505 ; 139 :         //Result[NextNumPos-1] = Result[NextNumPos-1] + CarryFlag + (unsigned char)(Tiller/10);
1506 ; 140 :         // LOOK-UP TABLE BOOST: Above COMMENTED line becomes next one:
1507 ; 141 :         Result[NextNumPos-1] = Result[NextNumPos-1] + CarryFlag + TillerMostSignificantDigit;
1508
1509 002ee      02 ca          add     cl, dl
1510 002f0      00 4e 01      add     BYTE PTR [esi+1], cl
1511
1512 ; 142 :         while (Result[NextNumPos-1] >= 10) {
1513
1514 002f3      80 7e 01 0a    cmp     BYTE PTR [esi+1], 10      ; 0000000aH
1515 002f7      72 13          jb     SHORT $LN10@MUL
1516
1517 ; 137 :         }
1518 ; 138 :         NextNumPos = Cycle + 1;
1519
1520 002f9      8b 44 24 30    mov     eax, DWORD PTR tv1469[esp+256]
1521 002fd      03 c6          add     eax, esi
1522 002ff      90             npad   1
1523 $LL7@MUL:
1524
1525 ; 143 :         Result[NextNumPos-1] = Result[NextNumPos-1] - 10;
1526
1527 00300      80 00 f6      add     BYTE PTR [eax], 246      ; 000000f6H
1528
1529 ; 144 :         NextNumPos = NextNumPos + 1;
1530 ; 145 :         Result[NextNumPos-1] = Result[NextNumPos-1] + 1;
1531
1532 00303      fe 40 01      inc     BYTE PTR [eax+1]
1533 00306      40             inc     eax
1534 00307      80 38 0a      cmp     BYTE PTR [eax], 10      ; 0000000aH
1535 0030a      73 f4          jae     SHORT $LL7@MUL
1536 $LN10@MUL:
1537
1538 ; 139 :         //Result[NextNumPos-1] = Result[NextNumPos-1] + CarryFlag + (unsigned char)(Tiller/10);
1539 ; 140 :         // LOOK-UP TABLE BOOST: Above COMMENTED line becomes next one:
1540 ; 141 :         Result[NextNumPos-1] = Result[NextNumPos-1] + CarryFlag + TillerMostSignificantDigit;
1541
1542 0030c      46             inc     esi
1543 0030d      4f             dec     edi
1544 0030e      ff 4c 24 28    dec     DWORD PTR tv771[esp+256]
1545 00312      75 ac          jne     SHORT $LL30@MUL
1546
1547 ; 122 :         for (QB=1; QB<=ErLength; QB++) {
1548
1549 00314      8b 4c 24 20    mov     ecx, DWORD PTR _SF$(esp+256)
1550 00318      8b 7c 24 24    mov     edi, DWORD PTR _ErLength$(esp+256)
1551 0031c      8b 44 24 10    mov     eax, DWORD PTR _CandLength$(esp+256)
1552 $LN13@MUL:
1553
1554 ; 118 :         }
1555 ; 119 :
1556 ; 120 :         // In C the offset starts from 0 whereas in QuickBasic from 1, therefore '<' becomes '<='.
1557 ; 121 :         for (SF=1; SF<=CandLength; SF++) {
1558
1559 00320      ff 4c 24 14    dec     DWORD PTR tv1486[esp+256]
1560 00324      41             inc     ecx
1561 00325      89 4c 24 20    mov     DWORD PTR _SF$(esp+256), ecx
1562 00329      3b c8          cmp     ecx, eax
1563 0032b      0f 86 5f ff ff jbe     $LL14@MUL
1564 ff
1565 $LN12@MUL:
1566 */
1567
1568
1569 // The next functions were written by Kaze in 1990.
1570 /*
1571 DECLARE SUB DelNull (Result(), Tiller$, DimLength%)
1572 DECLARE SUB DelLeftNull (Result(), Tiller$, StrLength%, DimLength%, PointPos%)
1573 DECLARE SUB DelRightNull (Result(), Tiller$, StrLength%, PointPos%)
1574 DECLARE SUB Convert(Array(), Number$, Length%, Flag%, PointPos%)
1575 DECLARE FUNCTION FindIntegerPart$ (Dividend$, Divisor$)
1576 DECLARE FUNCTION DIV$ (Dividend$, Divisor$, Exactness%)
1577 DECLARE FUNCTION ADD$ (FirstAddend$, SecondAddend$)

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1578 DECLARE FUNCTION SUB$ (Minuend$, Subtrahend$)
1579 DECLARE FUNCTION MUL$ (Multiplicand$, Multiplier$)
1580 DECLARE FUNCTION Compare% (Firm$, Secum$)
1581 DECLARE FUNCTION ResultFilter$ (Result%, Code$, DimLength%, PointPos%, Sign%)
1582
1583 INPUT "Number: ", a$
1584 INPUT "Power: ", b$
1585
1586 IF VAL(b$) < 2 THEN PRINT "Power should be 2 or greater!": END
1587 c$ = a$
1588 FOR i = 2 TO VAL(b$)
1589 c$ = MUL$(c$, a$)
1590 NEXT
1591 PRINT c$
1592
1593
1594 DEFINT A-Z
1595 FUNCTION ADD$ (FirstAddend$, SecondAddend$)
1596 FiradLength = LEN(FirstAddend$)
1597 SecadLength = LEN(SecondAddend$)
1598 FirstSign$ = MID$(FirstAddend$, 1, 1)
1599 SecondSign$ = MID$(SecondAddend$, 1, 1)
1600 IF FirstSign$ <> "-" AND SecondSign$ = "-" THEN
1601 Mediator$ = RIGHT$(SecondAddend$, SecadLength - 1)
1602 ADD$ = SUB$(FirstAddend$, Mediator$)
1603 EXIT FUNCTION
1604 END IF
1605 IF FirstSign$ = "-" AND SecondSign$ <> "-" THEN
1606 Mediator$ = RIGHT$(FirstAddend$, FiradLength - 1)
1607 ADD$ = SUB$(SecondAddend$, Mediator$)
1608 EXIT FUNCTION
1609 END IF
1610 IF FirstSign$ = "-" AND SecondSign$ = "-" THEN
1611 Sign = 1
1612 FiradLength = FiradLength - 1
1613 SecadLength = SecadLength - 1
1614 FirstAddend$ = RIGHT$(FirstAddend$, FiradLength)
1615 SecondAddend$ = RIGHT$(SecondAddend$, SecadLength)
1616 END IF
1617 REDIM Firad%(1 TO FiradLength)
1618 REDIM Secad%(1 TO SecadLength)
1619 CALL Convert(Firad%, FirstAddend$, FiradLength, FiradFlag, FiradPointPos)
1620 FiradTrueLength = FiradLength - FiradPointPos
1621 CALL Convert(Secad%, SecondAddend$, SecadLength, SecadFlag, SecadPointPos)
1622 SecadTrueLength = SecadLength - SecadPointPos
1623 IF SecadTrueLength > FiradTrueLength THEN
1624 BigLength = SecadTrueLength
1625 ELSE
1626 BigLength = FiradTrueLength
1627 END IF
1628 IF FiradPointPos > SecadPointPos THEN
1629 BigPointPos = FiradPointPos
1630 TrueBigPointPos = BigPointPos - FiradFlag
1631 SubSecad = SecadPointPos - SecadFlag - TrueBigPointPos
1632 ELSE
1633 BigPointPos = SecadPointPos
1634 TrueBigPointPos = BigPointPos - SecadFlag
1635 SubFirad = FiradPointPos - FiradFlag - TrueBigPointPos
1636 END IF
1637 DimSum = BigLength + TrueBigPointPos + 1
1638 REDIM Result%(1 TO DimSum)
1639 FOR SF = 1 TO BigLength + BigPointPos
1640 FiradDim = 0
1641 SecadDim = 0
1642 SubFirad = SubFirad + 1
1643 SubSecad = SubSecad + 1
1644 IF SubFirad > 0 AND SubFirad <= FiradLength THEN FiradDim = Firad%(SubFirad)
1645 IF SubSecad > 0 AND SubSecad <= SecadLength THEN SecadDim = Secad%(SubSecad)
1646 Result%(SF) = FiradDim + SecadDim + Result%(SF)
1647 IF Result%(SF) >= 10 THEN
1648 Result%(SF + 1) = 1
1649 Result%(SF) = Result%(SF) - 10
1650 END IF
1651 NEXT SF
1652 ADD$ = ResultFilter$(Result%(), "ADD", DimSum, BigPointPos, Sign)
1653 END FUNCTION
1654
1655 FUNCTION Compare% (Firm$, Secum$)
1656 FirLeftPart = INSTR(Firm$, ".")
1657 SecLeftPart = INSTR(Secum$, ".")
1658 IF FirLeftPart = 0 THEN
1659 FirLeftPart = LEN(Firm$)
1660 ELSE
1661 FirLeftPart = FirLeftPart - 1
1662 FirRightPart = LEN(Firm$) - FirLeftPart
1663 END IF
1664 IF SecLeftPart = 0 THEN
1665 SecLeftPart = LEN(Secum$)

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1666 ELSE
1667 SecLeftPart = SecLeftPart - 1
1668 SecRightPart = LEN(Secum$) - SecLeftPart
1669 END IF
1670 IF SecRightPart > FirRightPart THEN
1671 MainRightPart = FirRightPart
1672 ELSE
1673 MainRightPart = SecRightPart
1674 END IF
1675 IF SecLeftPart > FirLeftPart THEN
1676 CompareCode = -1
1677 MainLeftPart = SecLeftPart
1678 ELSE
1679 CompareCode = 1
1680 MainLeftPart = FirLeftPart
1681 END IF
1682 IF SecLeftPart = FirLeftPart THEN
1683 CompareCode = 0
1684 DO
1685 Counter = Counter + 1
1686 FirumPart = VAL(MID$(Firum$, Counter, 1))
1687 SecumPart = VAL(MID$(Secum$, Counter, 1))
1688 IF FirumPart > SecumPart THEN CompareCode = 1
1689 IF FirumPart < SecumPart THEN CompareCode = -1
1690 LOOP WHILE Counter < MainLeftPart AND FirumPart = SecumPart
1691 IF CompareCode = 0 THEN
1692 MainLength = MainLeftPart + MainRightPart
1693 IF MainRightPart > 0 THEN
1694 Counter = Counter + 1
1695 DO
1696 Counter = Counter + 1
1697 FirumPart = VAL(MID$(Firum$, Counter, 1))
1698 SecumPart = VAL(MID$(Secum$, Counter, 1))
1699 IF FirumPart > SecumPart THEN CycleFlag = 1: CompareCode = 1
1700 IF FirumPart < SecumPart THEN CycleFlag = 1: CompareCode = -1
1701 LOOP WHILE Counter < MainLength AND FirumPart = SecumPart
1702 END IF
1703 IF Counter = MainLength AND CycleFlag = 0 THEN
1704 IF FirRightPart < SecRightPart THEN CompareCode = -1
1705 IF FirRightPart > SecRightPart THEN CompareCode = 1
1706 END IF
1707 END IF
1708 END IF
1709 Compare% = CompareCode
1710 END FUNCTION
1711
1712 SUB Convert (Array%(), Number$, Length, Flag, PointPos)
1713 FOR Counter = 1 TO Length
1714 Shoot$ = MID$(Number$, Length - Counter + 1, 1)
1715 IF Shoot$ = "." THEN
1716 Flag = 1
1717 PointPos = Counter
1718 Counter = Counter + 1
1719 Shoot$ = MID$(Number$, Length - Counter + 1, 1)
1720 END IF
1721 Array%(Counter - Flag) = VAL(Shoot$)
1722 NEXT Counter
1723 END SUB
1724
1725 SUB DelLeftNull (Result%(), Tiller$, StrLength, DimLength, PointPos)
1726 Counter = DimLength
1727 DeviPart = DimLength + 1 - StrLength
1728 DO WHILE PointPos + 1 <= Counter - DeviPart AND Result%(Counter) = 0
1729 StrLength = StrLength - 1
1730 Tiller$ = RIGHT$(Tiller$, StrLength)
1731 Counter = Counter - 1
1732 LOOP
1733 END SUB
1734
1735 SUB DelNull (Result%(), Tiller$, DimLength)
1736 Counter = DimLength
1737 DO WHILE Result%(Counter) = 0 AND Counter >= 2
1738 Tiller$ = RIGHT$(Tiller$, Counter - 1)
1739 Counter = Counter - 1
1740 LOOP
1741 END SUB
1742
1743 SUB DelRightNull (Result%(), Tiller$, StrLength, PointPos)
1744 Counter = 1
1745 NewPointPos = PointPos
1746 DO WHILE PointPos - 2 >= Counter AND Result%(Counter) = 0
1747 StrLength = StrLength - 1
1748 Tiller$ = LEFT$(Tiller$, StrLength)
1749 Counter = Counter + 1
1750 NewPointPos = NewPointPos - 1
1751 LOOP
1752 PointPos = NewPointPos
1753 END SUB

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1754
1755 FUNCTION DIV$ (Di vi dend$, Di vi sor$, Exactness)
1756 DendSign$ = MID$(Di vi dend$, 1, 1)
1757 SorSign$ = MID$(Di vi sor$, 1, 1)
1758 IF DendSign$ = "-" AND SorSign$ <> "-" THEN
1759 Sign = 1
1760 Di vi dend$ = RIGHT$(Di vi dend$, LEN(Di vi dend$) - 1)
1761 END IF
1762 IF DendSign$ <> "-" AND SorSign$ = "-" THEN
1763 Sign = 1
1764 Di vi sor$ = RIGHT$(Di vi sor$, LEN(Di vi sor$) - 1)
1765 END IF
1766 IF DendSign$ = "-" AND SorSign$ = "-" THEN
1767 Di vi sor$ = RIGHT$(Di vi sor$, LEN(Di vi sor$) - 1)
1768 Di vi dend$ = RIGHT$(Di vi dend$, LEN(Di vi dend$) - 1)
1769 END IF
1770 DendPointPos = INSTR(Di vi dend$, ".")
1771 SorPointPos = INSTR(Di vi sor$, ".")
1772 IF DendPointPos <> 0 THEN
1773 DendRightPart = LEN(Di vi dend$) - DendPointPos
1774 DendRightPart$ = RIGHT$(Di vi dend$, DendRightPart)
1775 Di vi dend$ = LEFT$(Di vi dend$, DendPointPos - 1) + DendRightPart$
1776 END IF
1777 IF SorPointPos <> 0 THEN
1778 SorRightPart = LEN(Di vi sor$) - SorPointPos
1779 SorRightPart$ = RIGHT$(Di vi sor$, SorRightPart)
1780 Di vi sor$ = LEFT$(Di vi sor$, SorPointPos - 1) + SorRightPart$
1781 END IF
1782 DO WHILE MID$(Di vi dend$, 1, 1) = "0" AND LEN(Di vi dend$) <> 1
1783 Di vi dend$ = RIGHT$(Di vi dend$, LEN(Di vi dend$) - 1)
1784 LOOP
1785 DO WHILE MID$(Di vi sor$, 1, 1) = "0" AND LEN(Di vi sor$) <> 1
1786 Di vi sor$ = RIGHT$(Di vi sor$, LEN(Di vi sor$) - 1)
1787 LOOP
1788 IF Di vi sor$ = "0" THEN ERROR 11
1789 DendLength = LEN(Di vi dend$)
1790 SorLength = LEN(Di vi sor$)
1791 IF DendLength <= SorLength THEN
1792 Tiller$ = Di vi dend$
1793 Mediator$ = FindIntegerPart$(Di vi dend$, Di vi sor$)
1794 IntegerPart$ = Mediator$
1795 ELSE
1796 Pointer = SorLength
1797 Tiller$ = MID$(Di vi dend$, 1, Pointer)
1798 IF FindIntegerPart$(Tiller$, Di vi sor$) = "0" THEN
1799 Pointer = SorLength + 1
1800 Tiller$ = MID$(Di vi dend$, 1, Pointer)
1801 END IF
1802 DO WHILE Pointer < DendLength
1803 Mediator$ = FindIntegerPart$(Tiller$, Di vi sor$)
1804 IntegerPart$ = IntegerPart$ + Mediator$
1805 Pointer = Pointer + 1
1806 Shoot$ = MUL$(Mediator$, Di vi sor$)
1807 Deviation$ = SUB$(Tiller$, Shoot$)
1808 IF Deviation$ = "0" THEN
1809 Tiller$ = MID$(Di vi dend$, Pointer, 1)
1810 ELSE
1811 Tiller$ = Deviation$ + MID$(Di vi dend$, Pointer, 1)
1812 END IF
1813 LOOP
1814 Mediator$ = FindIntegerPart$(Tiller$, Di vi sor$)
1815 IntegerPart$ = IntegerPart$ + Mediator$
1816 END IF
1817 Result$ = IntegerPart$
1818 RelativePosition = DendRightPart - SorRightPart
1819 MiddlePosition = LEN(IntegerPart$) - RelativePosition
1820 CycleLength = Exactness - RelativePosition
1821 IF CycleLength > 0 THEN
1822 FOR i = 1 TO CycleLength
1823 Shoot$ = MUL$(Mediator$, Di vi sor$)
1824 Deviation$ = SUB$(Tiller$, Shoot$)
1825 IF Deviation$ = "0" THEN Tiller$ = "0" ELSE Tiller$ = Deviation$ + "0"
1826 Mediator$ = FindIntegerPart$(Tiller$, Di vi sor$)
1827 FractionalPart$ = FractionalPart$ + Mediator$
1828 NEXT i
1829 Result$ = Result$ + FractionalPart$
1830 END IF
1831 IF MiddlePosition > 0 THEN
1832 LeftPart$ = LEFT$(Result$, MiddlePosition)
1833 IF Exactness = 0 THEN
1834 Result$ = LeftPart$
1835 ELSE
1836 RightPart$ = RIGHT$(Result$, LEN(Result$) - MiddlePosition)
1837 Result$ = LeftPart$ + "." + RightPart$
1838 END IF
1839 IF DendLength <= SorLength THEN
1840 'Below lines for what captain.
1841 'Null Number = SorLength - DendLength + 1 'Bug appears here

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1842 '
1843 ' IF MiddlePosition > NullNumber THEN
1844 ' DelLength = NullNumber
1845 ' ELSEIF MiddlePosition = NullNumber THEN
1846 ' DelLength = NullNumber - 1
1847 ' ELSEIF MiddlePosition > 1 THEN
1848 ' DelLength = MiddlePosition - 1
1849 ' END IF
1850 ' Result$ = RIGHT$(Result$, LEN(Result$) - DelLength)
1851 DO WHILE LEN(Result$) >= 2
1852 IF LEFT$(Result$, 1) = "0" AND MID$(Result$, 2, 1) <> "." THEN
1853 Result$ = RIGHT$(Result$, LEN(Result$) - 1)
1854 ELSE
1855 EXIT DO
1856 END IF
1857 LOOP
1858 END IF
1859 ELSE
1860 IF MiddlePosition = 0 THEN
1861 Result$ = "0." + Result$
1862 ELSE
1863 Result$ = "0." + STRING$(ABS(MiddlePosition), "0") + Result$
1864 END IF
1865 IF Exactness = 0 THEN
1866 Result$ = "0"
1867 ELSEIF CycleLength < 0 THEN
1868 Result$ = LEFT$(Result$, 2 + Exactness)
1869 END IF
1870 END IF
1871 IF Sign = 1 THEN DIV$ = "-" + Result$ ELSE DIV$ = Result$
1872 END FUNCTION
1873
1874 FUNCTION FindIntegerPart$ (Dividend$, Divisor$)
1875 DO
1876 Counter = Counter + 1
1877 Digit$ = LTRIM$(STR$(Counter))
1878 Tiller$ = MUL$(Digit$, Divisor$)
1879 CompareCode = Compare%(Tiller$, Dividend$)
1880 LOOP WHILE Counter <= 9 AND CompareCode = -1
1881 FindIntegerPart$ = LTRIM$(STR$(Counter - CompareCode))
1882 END FUNCTION
1883
1884 FUNCTION MUL$ (Multiplicand$, Multiplier$)
1885 CandSign$ = MID$(Multiplicand$, 1, 1)
1886 ErSign$ = MID$(Multiplier$, 1, 1)
1887 CandLength = LEN(Multiplicand$)
1888 ErLength = LEN(Multiplier$)
1889 IF CandSign$ = "-" AND ErSign$ <> "-" THEN
1890 Sign = 1
1891 CandLength = CandLength - 1
1892 Multiplicand$ = RIGHT$(Multiplicand$, CandLength)
1893 END IF
1894 IF CandSign$ <> "-" AND ErSign$ = "-" THEN
1895 Sign = 1
1896 ErLength = ErLength - 1
1897 Multiplier$ = RIGHT$(Multiplier$, ErLength)
1898 END IF
1899 IF CandSign$ = "-" AND ErSign$ = "-" THEN
1900 ErLength = ErLength - 1
1901 CandLength = CandLength - 1
1902 Multiplier$ = RIGHT$(Multiplier$, ErLength)
1903 Multiplicand$ = RIGHT$(Multiplicand$, CandLength)
1904 END IF
1905 REDIM Cand%(1 TO CandLength)
1906 REDIM Er%(1 TO ErLength)
1907 CALL Convert(Cand%( ), Multiplicand$, CandLength, CandFlag, CandPointPos)
1908 CALL Convert(Er%( ), Multiplier$, ErLength, ErFlag, ErPointPos)
1909 DimSum = CandLength + ErLength - CandFlag - ErFlag
1910 PointPos = CandPointPos + ErPointPos - CandFlag - ErFlag
1911 REDIM Result%(1 TO DimSum)
1912 FOR SF = 1 TO CandLength - CandFlag
1913 FOR QB = 1 TO ErLength - ErFlag
1914 CarryFlag = 0
1915 Cycle = QB - 1 + SF
1916 Tiller = Cand%(SF) * Er%(QB)
1917 Result%(Cycle) = Tiller MOD 10 + Result%(Cycle)
1918 IF Result%(Cycle) >= 10 THEN
1919 Result%(Cycle) = Result%(Cycle) - 10
1920 CarryFlag = 1
1921 END IF
1922 NextNumPos = Cycle + 1
1923 Result%(NextNumPos) = Result%(NextNumPos) + CarryFlag + Tiller \ 10
1924 DO WHILE Result%(NextNumPos) >= 10
1925 Result%(NextNumPos) = Result%(NextNumPos) - 10
1926 NextNumPos = NextNumPos + 1
1927 Result%(NextNumPos) = Result%(NextNumPos) + 1
1928 LOOP
1929 NEXT QB

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1930 NEXT SF
1931 MUL$ = ResultFilter$(Result%(), "MUL", DimSum, PointPos, Sign)
1932 END FUNCTION
1933
1934 FUNCTION ResultFilter$(Result%(), Code$, DimLength, PointPos, Sign)
1935 SELECT CASE Code$
1936 CASE "ADD"
1937 FOR i = 1 TO DimLength - 1
1938 IF i = PointPos THEN Tiller$ = "." + Tiller$
1939 Tiller$ = LTRIM$(STR$(Result%(i))) + Tiller$
1940 NEXT i
1941 IF Result%(DimLength) <> 0 THEN
1942 Tiller$ = LTRIM$(STR$(Result%(DimLength))) + Tiller$
1943 END IF
1944 IF PointPos <> 0 THEN
1945 StrLength = LEN(Tiller$)
1946 CALL DelRightNull(Result%(), Tiller$, StrLength, PointPos)
1947 END IF
1948 IF Sign = 1 THEN Tiller$ = "-" + Tiller$
1949 CASE "SUB"
1950 FOR i = 1 TO DimLength
1951 IF i = PointPos THEN Tiller$ = "." + Tiller$
1952 Tiller$ = LTRIM$(STR$(Result%(i))) + Tiller$
1953 NEXT i
1954 IF PointPos <> 0 THEN
1955 StrLength = LEN(Tiller$)
1956 CALL DelRightNull(Result%(), Tiller$, StrLength, PointPos)
1957 CALL DelLeftNull(Result%(), Tiller$, StrLength, DimLength, PointPos)
1958 ELSE
1959 CALL DelNull(Result%(), Tiller$, DimLength)
1960 END IF
1961 IF Sign = -1 THEN Tiller$ = "-" + Tiller$
1962 CASE "MUL"
1963 FOR i = 1 TO DimLength
1964 Tiller$ = LTRIM$(STR$(Result%(i))) + Tiller$
1965 IF i = PointPos THEN Tiller$ = "." + Tiller$
1966 NEXT i
1967 IF Result%(DimLength) = 0 THEN
1968 IF PointPos = 0 THEN
1969 Tiller$ = RIGHT$(Tiller$, DimLength - 1)
1970 IF MID$(Tiller$, 1, 1) = "0" THEN Tiller$ = "0"
1971 ELSE
1972 PointPos = PointPos + 1
1973 Tiller$ = RIGHT$(Tiller$, DimLength)
1974 StrLength = LEN(Tiller$)
1975 TrueDimLength = StrLength - 1
1976 CALL DelRightNull(Result%(), Tiller$, StrLength, PointPos)
1977 CALL DelLeftNull(Result%(), Tiller$, StrLength, TrueDimLength, PointPos)
1978 END IF
1979 END IF
1980 IF Sign = 1 THEN Tiller$ = "-" + Tiller$
1981 END SELECT
1982 IF RIGHT$(Tiller$, 2) = ".0" THEN Tiller$ = LEFT$(Tiller$, LEN(Tiller$) - 2)
1983 IF Tiller$ = "-0" THEN Tiller$ = "0"
1984 ResultFilter$ = Tiller$
1985 END FUNCTION
1986
1987 FUNCTION SUB$(Minnuend$, Subtrahend$)
1988 MinuSign$ = MID$(Minnuend$, 1, 1)
1989 SubtraSign$ = MID$(Subtrahend$, 1, 1)
1990 MinuLength = LEN(Minnuend$)
1991 SubtraLength = LEN(Subtrahend$)
1992 IF MinuSign$ = "-" AND SubtraSign$ <> "-" THEN
1993 Mediator$ = RIGHT$(Minnuend$, MinuLength - 1)
1994 SUB$ = "-" + ADD$(Mediator$, Subtrahend$)
1995 EXIT FUNCTION
1996 END IF
1997 IF MinuSign$ <> "-" AND SubtraSign$ = "-" THEN
1998 Mediator$ = RIGHT$(Subtrahend$, SubtraLength - 1)
1999 SUB$ = ADD$(Minnuend$, Mediator$)
2000 EXIT FUNCTION
2001 END IF
2002 IF MinuSign$ = "-" AND SubtraSign$ = "-" THEN
2003 SWAP Minuend$, Subtrahend$
2004 MinuLength = MinuLength - 1
2005 SubtraLength = SubtraLength - 1
2006 Minuend$ = RIGHT$(Minnuend$, MinuLength)
2007 Subtrahend$ = RIGHT$(Subtrahend$, SubtraLength)
2008 END IF
2009 REDIM Minu%(1 TO MinuLength)
2010 REDIM Subtra%(1 TO SubtraLength)
2011 CALL Convert(Minu%(), Minuend$, MinuLength, MinuFlag, MinuPointPos)
2012 MinuTrueLength = MinuLength - MinuPointPos
2013 CALL Convert(Subtra%(), Subtrahend$, SubtraLength, SubtraFlag, SubtraPointPos)
2014 SubtraTrueLength = SubtraLength - SubtraPointPos
2015 IF SubtraTrueLength > MinuTrueLength THEN
2016 MainTrueLength = SubtraTrueLength
2017 ELSE

```



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2018 MainTrueLength = MinuTrueLength
2019 END IF
2020 CompareCode = Compare%(Minuend$, Subtrahend$)
2021 IF CompareCode = -1 THEN Sign = -1 ELSE Sign = 1
2022 IF MinuPointPos < SubtraPointPos THEN
2023 BigPointPos = SubtraPointPos
2024 TrueBigPointPos = BigPointPos - SubtraFlag
2025 MinuSub = MinuPointPos - MinuFlag - TrueBigPointPos
2026 ELSE
2027 BigPointPos = MinuPointPos
2028 TrueBigPointPos = BigPointPos - MinuFlag
2029 SubtraSub = SubtraPointPos - SubtraFlag - TrueBigPointPos
2030 END IF
2031 DimSum = MainTrueLength + TrueBigPointPos
2032 REDIM Result%(1 TO DimSum)
2033 FOR SF = 1 TO DimSum
2034 MinuDim = 0
2035 SubtraDim = 0
2036 MinuSub = MinuSub + 1
2037 SubtraSub = SubtraSub + 1
2038 IF MinuSub > 0 AND MinuSub <= MinuLength - MinuFlag THEN
2039 MinuDim = Minu%(MinuSub)
2040 END IF
2041 IF SubtraSub > 0 AND SubtraSub <= SubtraLength - SubtraFlag THEN
2042 SubtraDim = Subtra%(SubtraSub)
2043 END IF
2044 IF Sign = 1 THEN
2045 MinuDim = MinuDim + SubFlag
2046 ELSE
2047 SubtraDim = SubtraDim + SubFlag
2048 END IF
2049 SubSum = Sign * (MinuDim - SubtraDim)
2050 SubFlag = 0
2051 IF Sign = 1 THEN
2052 IF MinuDim >= SubtraDim THEN
2053 Result%(SF) = SubSum
2054 ELSE
2055 IF SubSum < 0 THEN SubFlag = -1
2056 Result%(SF) = SubSum + 10
2057 END IF
2058 ELSE
2059 IF MinuDim > SubtraDim THEN
2060 IF SubSum < 0 THEN SubFlag = -1
2061 Result%(SF) = SubSum + 10
2062 ELSE
2063 Result%(SF) = SubSum
2064 END IF
2065 END IF
2066 NEXT SF
2067 SUB$ = ResultFilter$(Result%(), "SUB", DimSum, BigPointPos, Sign)
2068 END FUNCTION
2069 */
2070
2071 // 124 x 7235
2072 // =
2073 //      620
2074 //      372
2075 //      248
2076 //      868
2077 // =
2078 //      897140 (3x4=12 MULs)
2079
2080 // 01,24 x 72,35
2081 // =
2082 //      840
2083 //      035
2084 //      1728
2085 //      072
2086 // =
2087 //      897140 (2x2=4 MULs)
2088
2089 // 71839 x 7426744
2090 // 0007,1839 x 0742,6744
2091 // =
2092 //      12402216
2093 //      47208
2094 //      1364538
2095 //      5194
2096 // =
2097 //      533529862216 (2x2=4 MULs)
2098
2099 // From Wikipedia, the free encyclopedia:
2100 // Quarter square multiplication:
2101 // Two quantities can be multiplied using quarter squares by employing the following identity some attribute to Babylonian mathematics (2000-1600 BC).
2102 //  $((x+y)^2)/4 - ((x-y)^2)/4 = 1/4((x^2+2xy+y^2) - (x^2-2xy+y^2)) = 1/4(4xy) = xy$ 
2103 //
2104 // n : 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

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2105 // n^2/4: 0 0 1 2 4 6 9 12 16 20 25 30 36 42 49 56 64 72 81
2106 //
2107 // If, for example, you wanted to multiply 9 by 3, you observe that the sum and difference are 12 and 6 respectively. Looking both those
values up on the table yields 36 and 9, the difference of which is 27, which is the product of 9 and 3.
2108
2109 // Kaze's note:
2110 // Mutsi, more economical than the trivial LUT:
2111 // 0..9 x 0..9 needs 10x10=100bytes LUT, while Babylonia just 9+9+1=19bytes LUT. Byte houses the max value: 81 i.e. 19x1bytes=19 bytes
2112 // 0..99 x 0..99 needs 100x100=10,000words LUT, while Babylonia just 99+99+1=199words LUT. Word houses the max value: 9,801 i.e.
199x2bytes=398 bytes
2113 // 0..999 x 0..999 needs 1000x1000=1,000,000words LUT, while Babylonia just 999+999+1=1999dwords LUT. DWord houses the max value: 998,001 i.e.
1999x4bytes=7,996 bytes
2114 // 0..9999 x 0..9999 needs 10000x10000=100,000,000words LUT, while Babylonia just 9999+9999+1=19999dwords LUT. DWord houses the max value:
99,980,001 i.e. 19999x4bytes=79,996 bytes
2115
2116 // Let's Babyloni ze 124 and 235:
2117 // 124 + 235 = 359
2118 // 124 - 235 = -111
2119 // 235 - 124 = 111
2120 // 359 BLUT 999x999 holds: 32220
2121 // 111 BLUT 999x999 holds: 3080
2122 // 3080 - 32220 = -29140
2123 // 32220 - 3080 = 29140
2124 // as it should be
2125 // 124 * 235 = 29140
2126
2127 // Let's Babyloni ze 124 and 7235:
2128 // 124 + 7235 = 7359
2129 // 124 - 7235 = -7111
2130 // 7235 - 124 = 7111
2131 // 7359 BLUT 9999x9999 holds: 13538720
2132 // 7111 BLUT 9999x9999 holds: 12641580
2133 // 13538720 - 12641580 = 897140
2134 // 12641580 - 13538720 = -897140
2135 // as it should be
2136 // 124 * 7235 = 897140
2137
2138 // Now two 4digits long numbers can be multiplied/Babyloni zed with 159,992 bytes big look-up table.
2139 // If the number is to be squared i.e. 7235^2, even better, we do all IN-ONE-STEP:
2140 // 7235 + 7235 = 14470
2141 // 7235 - 7235 = 0
2142 // 14470 BLUT 9999x9999 holds: 52345225
2143 // 0 BLUT 9999x9999 holds: 0
2144 // 52345225 - 0 = 52345225
2145 // 0 - 52345225 = -52345225
2146 // as it should be
2147 // 7235 * 7235 = 52345225
2148 // Obviously no need of any subtraction, just one addition or (7235<<1) followed by a look-up.
2149
2150 // One nasty obstacle remains, how to convert '0000'..'9999' 4bytes cells to index/value, here with ASCII2VAL function:
2151 // (BYTE1-'0')*10^3 + (BYTE2-'0')*10^2 + (BYTE3-'0')*10^1 + (BYTE4-'0')*10^0
2152 // Awful, just awful.
2153 // The "fast" alternative ASCII2VAL_LUT is too memory expensive, not fast also:
2154 // 960051513-808464432+1 big array with 10,000 useful cells = (151,587,081+1)cellsx4bytes = 606,348,328bytes, vay-vay.
2155 //
2156 // char CELLS[5]="0000\0";
2157 // //char CELLS[5]="9999\0";
2158 // printf("%s\n", CELLS);
2159 // printf("%i\n", *(unsigned int *)CELLS ); // 808464432 or 960051513
2160 //
2161 // (48*256*256*256)+(48*256*256)+(48*256)+(48) = 808464432
2162 // (48<<24)+(48<<16)+(48<<8)+(48<<0) = 808464432
2163 // (57<<24)+(57<<16)+(57<<8)+(57<<0) = 960051513
2164 //
2165 // The char '????????' sequence is:
2166 // VAL2digits_LUT(
2167 // abs_AF(
2168 // BLUT4bytes9999x9999[ abs_AF( ASCII2VAL_LUT[* (unsigned int *)&Multipl icand[(CandLength-SF+1)-4] - 808464432] - ASCII2VAL_LUT[* (unsigned int
*)&Multipl ier[(ErLength-QB+1)-4] - 808464432] ) ]
2169 // -
2170 // BLUT4bytes9999x9999[ ( ASCII2VAL_LUT[* (unsigned int *)&Multipl icand[(CandLength-SF+1)-4] - 808464432] + ASCII2VAL_LUT[* (unsigned int
*)&Multipl ier[(ErLength-QB+1)-4] - 808464432] ) ]
2171 // )
2172 // );
2173 // But here comes the second bottleneck VAL2digits function, it maps 0..99980001 values to '00000000'..'99980001'.
2174 // If again we are to "speed up" things by using LUT the requirements are heavier: (99980001+1)*8= 799,840,016bytes, vay-vay-vay.
2175 //
2176 // VAL2digits_LUT needs (99,980,001+1)slots*8bytes = 799,840,016 bytes
2177 // ASCII2VAL_LUT needs (151,587,081+1)cellsx4bytes = 606,348,328 bytes
2178 // BLUT4bytes9999x9999 needs 19,999x4bytes = 79,996 bytes
2179 // Or in other words the result of 4digits vs 4digits lies ALWAYS in L2 cache, forgetting for a moment the 1.4GB ugliness.
2180 // But the two functions converting digits2value and value2digits spoil the fun.
2181 // Bottomline: Strange, 16 primitive multiplications (digit vs digit) seem to be faster than all the mumbo-jumbo shown above.
2182
2183 /*
2184 D:\KAZE\MokujIN>MokujIN.exe
2185 Babyloni an LUT (look-up table) 9x9:
2186 n : 0 1 2 3 4 5 6 7

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2187 n^2/4: 0 0 1 2 4 6 9 12
2188 n : 8 9 10 11 12 13 14 15
2189 n^2/4: 16 20 25 30 36 42 49 56
2190 n : 16 17 18
2191 n^2/4: 64 72 81
2192 Babylonian LUT (look-up table) 99x99:
2193 n : 0 1 2 3 4 5 6 7
2194 n^2/4: 0 0 1 2 4 6 9 12
2195 n : 8 9 10 11 12 13 14 15
2196 n^2/4: 16 20 25 30 36 42 49 56
2197 n : 16 17 18 19 20 21 22 23
2198 n^2/4: 64 72 81 90 100 110 121 132
2199 n : 24 25 26 27 28 29 30 31
2200 n^2/4: 144 156 169 182 196 210 225 240
2201 n : 32 33 34 35 36 37 38 39
2202 n^2/4: 256 272 289 306 324 342 361 380
2203 n : 40 41 42 43 44 45 46 47
2204 n^2/4: 400 420 441 462 484 506 529 552
2205 n : 48 49 50 51 52 53 54 55
2206 n^2/4: 576 600 625 650 676 702 729 756
2207 n : 56 57 58 59 60 61 62 63
2208 n^2/4: 784 812 841 870 900 930 961 992
2209 n : 64 65 66 67 68 69 70 71
2210 n^2/4: 1024 1056 1089 1122 1156 1190 1225 1260
2211 n : 72 73 74 75 76 77 78 79
2212 n^2/4: 1296 1332 1369 1406 1444 1482 1521 1560
2213 n : 80 81 82 83 84 85 86 87
2214 n^2/4: 1600 1640 1681 1722 1764 1806 1849 1892
2215 n : 88 89 90 91 92 93 94 95
2216 n^2/4: 1936 1980 2025 2070 2116 2162 2209 2256
2217 n : 96 97 98 99 100 101 102 103
2218 n^2/4: 2304 2352 2401 2450 2500 2550 2601 2652
2219 n : 104 105 106 107 108 109 110 111
2220 n^2/4: 2704 2756 2809 2862 2916 2970 3025 3080
2221 n : 112 113 114 115 116 117 118 119
2222 n^2/4: 3136 3192 3249 3306 3364 3422 3481 3540
2223 n : 120 121 122 123 124 125 126 127
2224 n^2/4: 3600 3660 3721 3782 3844 3906 3969 4032
2225 n : 128 129 130 131 132 133 134 135
2226 n^2/4: 4096 4160 4225 4290 4356 4422 4489 4556
2227 n : 136 137 138 139 140 141 142 143
2228 n^2/4: 4624 4692 4761 4830 4900 4970 5041 5112
2229 n : 144 145 146 147 148 149 150 151
2230 n^2/4: 5184 5256 5329 5402 5476 5550 5625 5700
2231 n : 152 153 154 155 156 157 158 159
2232 n^2/4: 5776 5852 5929 6006 6084 6162 6241 6320
2233 n : 160 161 162 163 164 165 166 167
2234 n^2/4: 6400 6480 6561 6642 6724 6806 6889 6972
2235 n : 168 169 170 171 172 173 174 175
2236 n^2/4: 7056 7140 7225 7310 7396 7482 7569 7656
2237 n : 176 177 178 179 180 181 182 183
2238 n^2/4: 7744 7832 7921 8010 8100 8190 8281 8372
2239 n : 184 185 186 187 188 189 190 191
2240 n^2/4: 8464 8556 8649 8742 8836 8930 9025 9120
2241 n : 192 193 194 195 196 197 198
2242 n^2/4: 9216 9312 9409 9506 9604 9702 9801
2243 Babylonian LUT (look-up table) 999x999:
2244 n : 0 1 2 3 4 5 6 7
2245 n^2/4: 0 0 1 2 4 6 9 12
2246 n : 8 9 10 11 12 13 14 15
2247 n^2/4: 16 20 25 30 36 42 49 56
2248 n : 16 17 18 19 20 21 22 23
2249 n^2/4: 64 72 81 90 100 110 121 132
2250 n : 24 25 26 27 28 29 30 31
2251 n^2/4: 144 156 169 182 196 210 225 240
2252 n : 32 33 34 35 36 37 38 39
2253 n^2/4: 256 272 289 306 324 342 361 380
2254 n : 40 41 42 43 44 45 46 47
2255 n^2/4: 400 420 441 462 484 506 529 552
2256 n : 48 49 50 51 52 53 54 55
2257 n^2/4: 576 600 625 650 676 702 729 756
2258 n : 56 57 58 59 60 61 62 63
2259 n^2/4: 784 812 841 870 900 930 961 992
2260 n : 64 65 66 67 68 69 70 71
2261 n^2/4: 1024 1056 1089 1122 1156 1190 1225 1260
2262 n : 72 73 74 75 76 77 78 79
2263 n^2/4: 1296 1332 1369 1406 1444 1482 1521 1560
2264 n : 80 81 82 83 84 85 86 87
2265 n^2/4: 1600 1640 1681 1722 1764 1806 1849 1892
2266 n : 88 89 90 91 92 93 94 95
2267 n^2/4: 1936 1980 2025 2070 2116 2162 2209 2256
2268 n : 96 97 98 99 100 101 102 103
2269 n^2/4: 2304 2352 2401 2450 2500 2550 2601 2652
2270 n : 104 105 106 107 108 109 110 111
2271 n^2/4: 2704 2756 2809 2862 2916 2970 3025 3080
2272 n : 112 113 114 115 116 117 118 119
2273 n^2/4: 3136 3192 3249 3306 3364 3422 3481 3540
2274 n : 120 121 122 123 124 125 126 127

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2275	n^2/4:	3600	3660	3721	3782	3844	3906	3969	4032
2276	n :	128	129	130	131	132	133	134	135
2277	n^2/4:	4096	4160	4225	4290	4356	4422	4489	4556
2278	n :	136	137	138	139	140	141	142	143
2279	n^2/4:	4624	4692	4761	4830	4900	4970	5041	5112
2280	n :	144	145	146	147	148	149	150	151
2281	n^2/4:	5184	5256	5329	5402	5476	5550	5625	5700
2282	n :	152	153	154	155	156	157	158	159
2283	n^2/4:	5776	5852	5929	6006	6084	6162	6241	6320
2284	n :	160	161	162	163	164	165	166	167
2285	n^2/4:	6400	6480	6561	6642	6724	6806	6889	6972
2286	n :	168	169	170	171	172	173	174	175
2287	n^2/4:	7056	7140	7225	7310	7396	7482	7569	7656
2288	n :	176	177	178	179	180	181	182	183
2289	n^2/4:	7744	7832	7921	8010	8100	8190	8281	8372
2290	n :	184	185	186	187	188	189	190	191
2291	n^2/4:	8464	8556	8649	8742	8836	8930	9025	9120
2292	n :	192	193	194	195	196	197	198	199
2293	n^2/4:	9216	9312	9409	9506	9604	9702	9801	9900
2294	n :	200	201	202	203	204	205	206	207
2295	n^2/4:	10000	10100	10201	10302	10404	10506	10609	10712
2296	n :	208	209	210	211	212	213	214	215
2297	n^2/4:	10816	10920	11025	11130	11236	11342	11449	11556
2298	n :	216	217	218	219	220	221	222	223
2299	n^2/4:	11664	11772	11881	11990	12100	12210	12321	12432
2300	n :	224	225	226	227	228	229	230	231
2301	n^2/4:	12544	12656	12769	12882	12996	13110	13225	13340
2302	n :	232	233	234	235	236	237	238	239
2303	n^2/4:	13456	13572	13689	13806	13924	14042	14161	14280
2304	n :	240	241	242	243	244	245	246	247
2305	n^2/4:	14400	14520	14641	14762	14884	15006	15129	15252
2306	n :	248	249	250	251	252	253	254	255
2307	n^2/4:	15376	15500	15625	15750	15876	16002	16129	16256
2308	n :	256	257	258	259	260	261	262	263
2309	n^2/4:	16384	16512	16641	16770	16900	17030	17161	17292
2310	n :	264	265	266	267	268	269	270	271
2311	n^2/4:	17424	17556	17689	17822	17956	18090	18225	18360
2312	n :	272	273	274	275	276	277	278	279
2313	n^2/4:	18496	18632	18769	18906	19044	19182	19321	19460
2314	n :	280	281	282	283	284	285	286	287
2315	n^2/4:	19600	19740	19881	20022	20164	20306	20449	20592
2316	n :	288	289	290	291	292	293	294	295
2317	n^2/4:	20736	20880	21025	21170	21316	21462	21609	21756
2318	n :	296	297	298	299	300	301	302	303
2319	n^2/4:	21904	22052	22201	22350	22500	22650	22801	22952
2320	n :	304	305	306	307	308	309	310	311
2321	n^2/4:	23104	23256	23409	23562	23716	23870	24025	24180
2322	n :	312	313	314	315	316	317	318	319
2323	n^2/4:	24336	24492	24649	24806	24964	25122	25281	25440
2324	n :	320	321	322	323	324	325	326	327
2325	n^2/4:	25600	25760	25921	26082	26244	26406	26569	26732
2326	n :	328	329	330	331	332	333	334	335
2327	n^2/4:	26896	27060	27225	27390	27556	27722	27889	28056
2328	n :	336	337	338	339	340	341	342	343
2329	n^2/4:	28224	28392	28561	28730	28900	29070	29241	29412
2330	n :	344	345	346	347	348	349	350	351
2331	n^2/4:	29584	29756	29929	30102	30276	30450	30625	30800
2332	n :	352	353	354	355	356	357	358	359
2333	n^2/4:	30976	31152	31329	31506	31684	31862	32041	32220
2334	n :	360	361	362	363	364	365	366	367
2335	n^2/4:	32400	32580	32761	32942	33124	33306	33489	33672
2336	n :	368	369	370	371	372	373	374	375
2337	n^2/4:	33856	34040	34225	34410	34596	34782	34969	35156
2338	n :	376	377	378	379	380	381	382	383
2339	n^2/4:	35344	35532	35721	35910	36100	36290	36481	36672
2340	n :	384	385	386	387	388	389	390	391
2341	n^2/4:	36864	37056	37249	37442	37636	37830	38025	38220
2342	n :	392	393	394	395	396	397	398	399
2343	n^2/4:	38416	38612	38809	39006	39204	39402	39601	39800
2344	n :	400	401	402	403	404	405	406	407
2345	n^2/4:	40000	40200	40401	40602	40804	41006	41209	41412
2346	n :	408	409	410	411	412	413	414	415
2347	n^2/4:	41616	41820	42025	42230	42436	42642	42849	43056
2348	n :	416	417	418	419	420	421	422	423
2349	n^2/4:	43264	43472	43681	43890	44100	44310	44521	44732
2350	n :	424	425	426	427	428	429	430	431
2351	n^2/4:	44944	45156	45369	45582	45796	46010	46225	46440
2352	n :	432	433	434	435	436	437	438	439
2353	n^2/4:	46656	46872	47089	47306	47524	47742	47961	48180
2354	n :	440	441	442	443	444	445	446	447
2355	n^2/4:	48400	48620	48841	49062	49284	49506	49729	49952
2356	n :	448	449	450	451	452	453	454	455
2357	n^2/4:	50176	50400	50625	50850	51076	51302	51529	51756
2358	n :	456	457	458	459	460	461	462	463
2359	n^2/4:	51984	52212	52441	52670	52900	53130	53361	53592
2360	n :	464	465	466	467	468	469	470	471
2361	n^2/4:	53824	54056	54289	54522	54756	54990	55225	55460
2362	n :	472	473	474	475	476	477	478	479

2363	n^2/4:	55696	55932	56169	56406	56644	56882	57121	57360
2364	n :	480	481	482	483	484	485	486	487
2365	n^2/4:	57600	57840	58081	58322	58564	58806	59049	59292
2366	n :	488	489	490	491	492	493	494	495
2367	n^2/4:	59536	59780	60025	60270	60516	60762	61009	61256
2368	n :	496	497	498	499	500	501	502	503
2369	n^2/4:	61504	61752	62001	62250	62500	62750	63001	63252
2370	n :	504	505	506	507	508	509	510	511
2371	n^2/4:	63504	63756	64009	64262	64516	64770	65025	65280
2372	n :	512	513	514	515	516	517	518	519
2373	n^2/4:	65536	65792	66049	66306	66564	66822	67081	67340
2374	n :	520	521	522	523	524	525	526	527
2375	n^2/4:	67600	67860	68121	68382	68644	68906	69169	69432
2376	n :	528	529	530	531	532	533	534	535
2377	n^2/4:	69696	69960	70225	70490	70756	71022	71289	71556
2378	n :	536	537	538	539	540	541	542	543
2379	n^2/4:	71824	72092	72361	72630	72900	73170	73441	73712
2380	n :	544	545	546	547	548	549	550	551
2381	n^2/4:	73984	74256	74529	74802	75076	75350	75625	75900
2382	n :	552	553	554	555	556	557	558	559
2383	n^2/4:	76176	76452	76729	77006	77284	77562	77841	78120
2384	n :	560	561	562	563	564	565	566	567
2385	n^2/4:	78400	78680	78961	79242	79524	79806	80089	80372
2386	n :	568	569	570	571	572	573	574	575
2387	n^2/4:	80656	80940	81225	81510	81796	82082	82369	82656
2388	n :	576	577	578	579	580	581	582	583
2389	n^2/4:	82944	83232	83521	83810	84100	84390	84681	84972
2390	n :	584	585	586	587	588	589	590	591
2391	n^2/4:	85264	85556	85849	86142	86436	86730	87025	87320
2392	n :	592	593	594	595	596	597	598	599
2393	n^2/4:	87616	87912	88209	88506	88804	89102	89401	89700
2394	n :	600	601	602	603	604	605	606	607
2395	n^2/4:	90000	90300	90601	90902	91204	91506	91809	92112
2396	n :	608	609	610	611	612	613	614	615
2397	n^2/4:	92416	92720	93025	93330	93636	93942	94249	94556
2398	n :	616	617	618	619	620	621	622	623
2399	n^2/4:	94864	95172	95481	95790	96100	96410	96721	97032
2400	n :	624	625	626	627	628	629	630	631
2401	n^2/4:	97344	97656	97969	98282	98596	98910	99225	99540
2402	n :	632	633	634	635	636	637	638	639
2403	n^2/4:	99856	100172	100489	100806	101124	101442	101761	102080
2404	n :	640	641	642	643	644	645	646	647
2405	n^2/4:	102400	102720	103041	103362	103684	104006	104329	104652
2406	n :	648	649	650	651	652	653	654	655
2407	n^2/4:	104976	105300	105625	105950	106276	106602	106929	107256
2408	n :	656	657	658	659	660	661	662	663
2409	n^2/4:	107584	107912	108241	108570	108900	109230	109561	109892
2410	n :	664	665	666	667	668	669	670	671
2411	n^2/4:	110224	110556	110889	111222	111556	111890	112225	112560
2412	n :	672	673	674	675	676	677	678	679
2413	n^2/4:	112896	113232	113569	113906	114244	114582	114921	115260
2414	n :	680	681	682	683	684	685	686	687
2415	n^2/4:	115600	115940	116281	116622	116964	117306	117649	117992
2416	n :	688	689	690	691	692	693	694	695
2417	n^2/4:	118336	118680	119025	119370	119716	120062	120409	120756
2418	n :	696	697	698	699	700	701	702	703
2419	n^2/4:	121104	121452	121801	122150	122500	122850	123201	123552
2420	n :	704	705	706	707	708	709	710	711
2421	n^2/4:	123904	124256	124609	124962	125316	125670	126025	126380
2422	n :	712	713	714	715	716	717	718	719
2423	n^2/4:	126736	127092	127449	127806	128164	128522	128881	129240
2424	n :	720	721	722	723	724	725	726	727
2425	n^2/4:	129600	129960	130321	130682	131044	131406	131769	132132
2426	n :	728	729	730	731	732	733	734	735
2427	n^2/4:	132496	132860	133225	133590	133956	134322	134689	135056
2428	n :	736	737	738	739	740	741	742	743
2429	n^2/4:	135424	135792	136161	136530	136900	137270	137641	138012
2430	n :	744	745	746	747	748	749	750	751
2431	n^2/4:	138384	138756	139129	139502	139876	140250	140625	141000
2432	n :	752	753	754	755	756	757	758	759
2433	n^2/4:	141376	141752	142129	142506	142884	143262	143641	144020
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2435	n^2/4:	144400	144780	145161	145542	145924	146306	146689	147072
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2690 n : 1784 1785 1786 1787 1788 1789 1790 1791
2691 n^2/4: 795664 796556 797449 798342 799236 800130 801025 801920
2692 n : 1792 1793 1794 1795 1796 1797 1798 1799
2693 n^2/4: 802816 803712 804609 805506 806404 807302 808201 809100
2694 n : 1800 1801 1802 1803 1804 1805 1806 1807
2695 n^2/4: 810000 810900 811801 812702 813604 814506 815409 816312
2696 n : 1808 1809 1810 1811 1812 1813 1814 1815
2697 n^2/4: 817216 818120 819025 819930 820836 821742 822649 823556
2698 n : 1816 1817 1818 1819 1820 1821 1822 1823
2699 n^2/4: 824464 825372 826281 827190 828100 829010 829921 830832
2700 n : 1824 1825 1826 1827 1828 1829 1830 1831
2701 n^2/4: 831744 832656 833569 834482 835396 836310 837225 838140
2702 n : 1832 1833 1834 1835 1836 1837 1838 1839
2703 n^2/4: 839056 839972 840889 841806 842724 843642 844561 845480
2704 n : 1840 1841 1842 1843 1844 1845 1846 1847
2705 n^2/4: 846400 847320 848241 849162 850084 851006 851929 852852
2706 n : 1848 1849 1850 1851 1852 1853 1854 1855
2707 n^2/4: 853776 854700 855625 856550 857476 858402 859329 860256
2708 n : 1856 1857 1858 1859 1860 1861 1862 1863
2709 n^2/4: 861184 862112 863041 863970 864900 865830 866761 867692
2710 n : 1864 1865 1866 1867 1868 1869 1870 1871
2711 n^2/4: 868624 869556 870489 871422 872356 873290 874225 875160
2712 n : 1872 1873 1874 1875 1876 1877 1878 1879
2713 n^2/4: 876096 877032 877969 878906 879844 880782 881721 882660
2714 n : 1880 1881 1882 1883 1884 1885 1886 1887

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2715 n^2/4: 883600 884540 885481 886422 887364 888306 889249 890192
2716 n : 1888 1889 1890 1891 1892 1893 1894 1895
2717 n^2/4: 891136 892080 893025 893970 894916 895862 896809 897756
2718 n : 1896 1897 1898 1899 1900 1901 1902 1903
2719 n^2/4: 898704 899652 900601 901550 902500 903450 904401 905352
2720 n : 1904 1905 1906 1907 1908 1909 1910 1911
2721 n^2/4: 906304 907256 908209 909162 910116 911070 912025 912980
2722 n : 1912 1913 1914 1915 1916 1917 1918 1919
2723 n^2/4: 913936 914892 915849 916806 917764 918722 919681 920640
2724 n : 1920 1921 1922 1923 1924 1925 1926 1927
2725 n^2/4: 921600 922560 923521 924482 925444 926406 927369 928332
2726 n : 1928 1929 1930 1931 1932 1933 1934 1935
2727 n^2/4: 929296 930260 931225 932190 933156 934122 935089 936056
2728 n : 1936 1937 1938 1939 1940 1941 1942 1943
2729 n^2/4: 937024 937992 938961 939930 940900 941870 942841 943812
2730 n : 1944 1945 1946 1947 1948 1949 1950 1951
2731 n^2/4: 944784 945756 946729 947702 948676 949650 950625 951600
2732 n : 1952 1953 1954 1955 1956 1957 1958 1959
2733 n^2/4: 952576 953552 954529 955506 956484 957462 958441 959420
2734 n : 1960 1961 1962 1963 1964 1965 1966 1967
2735 n^2/4: 960400 961380 962361 963342 964324 965306 966289 967272
2736 n : 1968 1969 1970 1971 1972 1973 1974 1975
2737 n^2/4: 968256 969240 970225 971210 972196 973182 974169 975156
2738 n : 1976 1977 1978 1979 1980 1981 1982 1983
2739 n^2/4: 976144 977132 978121 979110 980100 981090 982081 983072
2740 n : 1984 1985 1986 1987 1988 1989 1990 1991
2741 n^2/4: 984064 985056 986049 987042 988036 989030 990025 991020
2742 n : 1992 1993 1994 1995 1996 1997 1998
2743 n^2/4: 992016 993012 994009 995006 996004 997002 998001
2744 Babylonian LUT (look-up table) 9999x9999:
2745 n : 0 1 2 3 4 5 6 7
2746 n^2/4: 0 0 1 2 4 6 9 12
2747 n : 8 9 10 11 12 13 14 15
2748 n^2/4: 16 20 25 30 36 42 49 56
2749 n : 16 17 18 19 20 21 22 23
2750 n^2/4: 64 72 81 90 100 110 121 132
2751 n : 24 25 26 27 28 29 30 31
2752 n^2/4: 144 156 169 182 196 210 225 240
2753 n : 32 33 34 35 36 37 38 39
2754 n^2/4: 256 272 289 306 324 342 361 380
2755 n : 40 41 42 43 44 45 46 47
2756 n^2/4: 400 420 441 462 484 506 529 552
2757 n : 48 49 50 51 52 53 54 55
2758 n^2/4: 576 600 625 650 676 702 729 756
2759 n : 56 57 58 59 60 61 62 63
2760 n^2/4: 784 812 841 870 900 930 961 992
2761 n : 64 65 66 67 68 69 70 71
2762 n^2/4: 1024 1056 1089 1122 1156 1190 1225 1260
2763 n : 72 73 74 75 76 77 78 79
2764 n^2/4: 1296 1332 1369 1406 1444 1482 1521 1560
2765 n : 80 81 82 83 84 85 86 87
2766 n^2/4: 1600 1640 1681 1722 1764 1806 1849 1892
2767 n : 88 89 90 91 92 93 94 95
2768 n^2/4: 1936 1980 2025 2070 2116 2162 2209 2256
2769 n : 96 97 98 99 100 101 102 103
2770 n^2/4: 2304 2352 2401 2450 2500 2550 2601 2652
2771 n : 104 105 106 107 108 109 110 111
2772 n^2/4: 2704 2756 2809 2862 2916 2970 3025 3080
2773 n : 112 113 114 115 116 117 118 119
2774 n^2/4: 3136 3192 3249 3306 3364 3422 3481 3540
2775 n : 120 121 122 123 124 125 126 127
2776 n^2/4: 3600 3660 3721 3782 3844 3906 3969 4032
2777 n : 128 129 130 131 132 133 134 135
2778 n^2/4: 4096 4160 4225 4290 4356 4422 4489 4556
2779 n : 136 137 138 139 140 141 142 143
2780 n^2/4: 4624 4692 4761 4830 4900 4970 5041 5112
2781 n : 144 145 146 147 148 149 150 151
2782 n^2/4: 5184 5256 5329 5402 5476 5550 5625 5700
2783 n : 152 153 154 155 156 157 158 159
2784 n^2/4: 5776 5852 5929 6006 6084 6162 6241 6320
2785 n : 160 161 162 163 164 165 166 167
2786 n^2/4: 6400 6480 6561 6642 6724 6806 6889 6972
2787 n : 168 169 170 171 172 173 174 175
2788 n^2/4: 7056 7140 7225 7310 7396 7482 7569 7656
2789 n : 176 177 178 179 180 181 182 183
2790 n^2/4: 7744 7832 7921 8010 8100 8190 8281 8372
2791 n : 184 185 186 187 188 189 190 191
2792 n^2/4: 8464 8556 8649 8742 8836 8930 9025 9120
2793 n : 192 193 194 195 196 197 198 199
2794 n^2/4: 9216 9312 9409 9506 9604 9702 9801 9900
2795 n : 200 201 202 203 204 205 206 207
2796 n^2/4: 10000 10100 10201 10302 10404 10506 10609 10712
2797 n : 208 209 210 211 212 213 214 215
2798 n^2/4: 10816 10920 11025 11130 11236 11342 11449 11556
2799 n : 216 217 218 219 220 221 222 223
2800 n^2/4: 11664 11772 11881 11990 12100 12210 12321 12432
2801 n : 224 225 226 227 228 229 230 231
2802 n^2/4: 12544 12656 12769 12882 12996 13110 13225 13340

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2803 n :	232	233	234	235	236	237	238	239
2804 n^2/4:	13456	13572	13689	13806	13924	14042	14161	14280
2805 n :	240	241	242	243	244	245	246	247
2806 n^2/4:	14400	14520	14641	14762	14884	15006	15129	15252
2807 n :	248	249	250	251	252	253	254	255
2808 n^2/4:	15376	15500	15625	15750	15876	16002	16129	16256
2809 n :	256	257	258	259	260	261	262	263
2810 n^2/4:	16384	16512	16641	16770	16900	17030	17161	17292
2811 n :	264	265	266	267	268	269	270	271
2812 n^2/4:	17424	17556	17689	17822	17956	18090	18225	18360
2813 n :	272	273	274	275	276	277	278	279
2814 n^2/4:	18496	18632	18769	18906	19044	19182	19321	19460
2815 n :	280	281	282	283	284	285	286	287
2816 n^2/4:	19600	19740	19881	20022	20164	20306	20449	20592
2817 n :	288	289	290	291	292	293	294	295
2818 n^2/4:	20736	20880	21025	21170	21316	21462	21609	21756
2819 n :	296	297	298	299	300	301	302	303
2820 n^2/4:	21904	22052	22201	22350	22500	22650	22801	22952
2821 n :	304	305	306	307	308	309	310	311
2822 n^2/4:	23104	23256	23409	23562	23716	23870	24025	24180
2823 n :	312	313	314	315	316	317	318	319
2824 n^2/4:	24336	24492	24649	24806	24964	25122	25281	25440
2825 n :	320	321	322	323	324	325	326	327
2826 n^2/4:	25600	25760	25921	26082	26244	26406	26569	26732
2827 n :	328	329	330	331	332	333	334	335
2828 n^2/4:	26896	27060	27225	27390	27556	27722	27889	28056
2829 n :	336	337	338	339	340	341	342	343
2830 n^2/4:	28224	28392	28561	28730	28900	29070	29241	29412
2831 n :	344	345	346	347	348	349	350	351
2832 n^2/4:	29584	29756	29929	30102	30276	30450	30625	30800
2833 n :	352	353	354	355	356	357	358	359
2834 n^2/4:	30976	31152	31329	31506	31684	31862	32041	32220
2835 n :	360	361	362	363	364	365	366	367
2836 n^2/4:	32400	32580	32761	32942	33124	33306	33489	33672
2837 n :	368	369	370	371	372	373	374	375
2838 n^2/4:	33856	34040	34225	34410	34596	34782	34969	35156
2839 n :	376	377	378	379	380	381	382	383
2840 n^2/4:	35344	35532	35721	35910	36100	36290	36481	36672
2841 n :	384	385	386	387	388	389	390	391
2842 n^2/4:	36864	37056	37249	37442	37636	37830	38025	38220
2843 n :	392	393	394	395	396	397	398	399
2844 n^2/4:	38416	38612	38809	39006	39204	39402	39601	39800
2845 n :	400	401	402	403	404	405	406	407
2846 n^2/4:	40000	40200	40401	40602	40804	41006	41209	41412
2847 n :	408	409	410	411	412	413	414	415
2848 n^2/4:	41616	41820	42025	42230	42436	42642	42849	43056
2849 n :	416	417	418	419	420	421	422	423
2850 n^2/4:	43264	43472	43681	43890	44100	44310	44521	44732
2851 n :	424	425	426	427	428	429	430	431
2852 n^2/4:	44944	45156	45369	45582	45796	46010	46225	46440
2853 n :	432	433	434	435	436	437	438	439
2854 n^2/4:	46656	46872	47089	47306	47524	47742	47961	48180
2855 n :	440	441	442	443	444	445	446	447
2856 n^2/4:	48400	48620	48841	49062	49284	49506	49729	49952
2857 n :	448	449	450	451	452	453	454	455
2858 n^2/4:	50176	50400	50625	50850	51076	51302	51529	51756
2859 n :	456	457	458	459	460	461	462	463
2860 n^2/4:	51984	52212	52441	52670	52900	53130	53361	53592
2861 n :	464	465	466	467	468	469	470	471
2862 n^2/4:	53824	54056	54289	54522	54756	54990	55225	55460
2863 n :	472	473	474	475	476	477	478	479
2864 n^2/4:	55696	55932	56169	56406	56644	56882	57121	57360
2865 n :	480	481	482	483	484	485	486	487
2866 n^2/4:	57600	57840	58081	58322	58564	58806	59049	59292
2867 n :	488	489	490	491	492	493	494	495
2868 n^2/4:	59536	59780	60025	60270	60516	60762	61009	61256
2869 n :	496	497	498	499	500	501	502	503
2870 n^2/4:	61504	61752	62001	62250	62500	62750	63001	63252
2871 n :	504	505	506	507	508	509	510	511
2872 n^2/4:	63504	63756	64009	64262	64516	64770	65025	65280
2873 n :	512	513	514	515	516	517	518	519
2874 n^2/4:	65536	65792	66049	66306	66564	66822	67081	67340
2875 n :	520	521	522	523	524	525	526	527
2876 n^2/4:	67600	67860	68121	68382	68644	68906	69169	69432
2877 n :	528	529	530	531	532	533	534	535
2878 n^2/4:	69696	69960	70225	70490	70756	71022	71289	71556
2879 n :	536	537	538	539	540	541	542	543
2880 n^2/4:	71824	72092	72361	72630	72900	73170	73441	73712
2881 n :	544	545	546	547	548	549	550	551
2882 n^2/4:	73984	74256	74529	74802	75076	75350	75625	75900
2883 n :	552	553	554	555	556	557	558	559
2884 n^2/4:	76176	76452	76729	77006	77284	77562	77841	78120
2885 n :	560	561	562	563	564	565	566	567
2886 n^2/4:	78400	78680	78961	79242	79524	79806	80089	80372
2887 n :	568	569	570	571	572	573	574	575
2888 n^2/4:	80656	80940	81225	81510	81796	82082	82369	82656
2889 n :	576	577	578	579	580	581	582	583
2890 n^2/4:	82944	83232	83521	83810	84100	84390	84681	84972

2891 n :	584	585	586	587	588	589	590	591
2892 n^2/4:	85264	85556	85849	86142	86436	86730	87025	87320
2893 n :	592	593	594	595	596	597	598	599
2894 n^2/4:	87616	87912	88209	88506	88804	89102	89401	89700
2895 n :	600	601	602	603	604	605	606	607
2896 n^2/4:	90000	90300	90601	90902	91204	91506	91809	92112
2897 n :	608	609	610	611	612	613	614	615
2898 n^2/4:	92416	92720	93025	93330	93636	93942	94249	94556
2899 n :	616	617	618	619	620	621	622	623
2900 n^2/4:	94864	95172	95481	95790	96100	96410	96721	97032
2901 n :	624	625	626	627	628	629	630	631
2902 n^2/4:	97344	97656	97969	98282	98596	98910	99225	99540
2903 n :	632	633	634	635	636	637	638	639
2904 n^2/4:	99856	100172	100489	100806	101124	101442	101761	102080
2905 n :	640	641	642	643	644	645	646	647
2906 n^2/4:	102400	102720	103041	103362	103684	104006	104329	104652
2907 n :	648	649	650	651	652	653	654	655
2908 n^2/4:	104976	105300	105625	105950	106276	106602	106929	107256
2909 n :	656	657	658	659	660	661	662	663
2910 n^2/4:	107584	107912	108241	108570	108900	109230	109561	109892
2911 n :	664	665	666	667	668	669	670	671
2912 n^2/4:	110224	110556	110889	111222	111556	111890	112225	112560
2913 n :	672	673	674	675	676	677	678	679
2914 n^2/4:	112896	113232	113569	113906	114244	114582	114921	115260
2915 n :	680	681	682	683	684	685	686	687
2916 n^2/4:	115600	115940	116281	116622	116964	117306	117649	117992
2917 n :	688	689	690	691	692	693	694	695
2918 n^2/4:	118336	118680	119025	119370	119716	120062	120409	120756
2919 n :	696	697	698	699	700	701	702	703
2920 n^2/4:	121104	121452	121801	122150	122500	122850	123201	123552
2921 n :	704	705	706	707	708	709	710	711
2922 n^2/4:	123904	124256	124609	124962	125316	125670	126025	126380
2923 n :	712	713	714	715	716	717	718	719
2924 n^2/4:	126736	127092	127449	127806	128164	128522	128881	129240
2925 n :	720	721	722	723	724	725	726	727
2926 n^2/4:	129600	129960	130321	130682	131044	131406	131769	132132
2927 n :	728	729	730	731	732	733	734	735
2928 n^2/4:	132496	132860	133225	133590	133956	134322	134689	135056
2929 n :	736	737	738	739	740	741	742	743
2930 n^2/4:	135424	135792	136161	136530	136900	137270	137641	138012
2931 n :	744	745	746	747	748	749	750	751
2932 n^2/4:	138384	138756	139129	139502	139876	140250	140625	141000
2933 n :	752	753	754	755	756	757	758	759
2934 n^2/4:	141376	141752	142129	142506	142884	143262	143641	144020
2935 n :	760	761	762	763	764	765	766	767
2936 n^2/4:	144400	144780	145161	145542	145924	146306	146689	147072
2937 n :	768	769	770	771	772	773	774	775
2938 n^2/4:	147456	147840	148225	148610	148996	149382	149769	150156
2939 n :	776	777	778	779	780	781	782	783
2940 n^2/4:	150544	150932	151321	151710	152100	152490	152881	153272
2941 n :	784	785	786	787	788	789	790	791
2942 n^2/4:	153664	154056	154449	154842	155236	155630	156025	156420
2943 n :	792	793	794	795	796	797	798	799
2944 n^2/4:	156816	157212	157609	158006	158404	158802	159201	159600
2945 n :	800	801	802	803	804	805	806	807
2946 n^2/4:	160000	160400	160801	161202	161604	162006	162409	162812
2947 n :	808	809	810	811	812	813	814	815
2948 n^2/4:	163216	163620	164025	164430	164836	165242	165649	166056
2949 n :	816	817	818	819	820	821	822	823
2950 n^2/4:	166464	166872	167281	167690	168100	168510	168921	169332
2951 n :	824	825	826	827	828	829	830	831
2952 n^2/4:	169744	170156	170569	170982	171396	171810	172225	172640
2953 n :	832	833	834	835	836	837	838	839
2954 n^2/4:	173056	173472	173889	174306	174724	175142	175561	175980
2955 n :	840	841	842	843	844	845	846	847
2956 n^2/4:	176400	176820	177241	177662	178084	178506	178929	179352
2957 n :	848	849	850	851	852	853	854	855
2958 n^2/4:	179776	180200	180625	181050	181476	181902	182329	182756
2959 n :	856	857	858	859	860	861	862	863
2960 n^2/4:	183184	183612	184041	184470	184900	185330	185761	186192
2961 n :	864	865	866	867	868	869	870	871
2962 n^2/4:	186624	187056	187489	187922	188356	188790	189225	189660
2963 n :	872	873	874	875	876	877	878	879
2964 n^2/4:	190096	190532	190969	191406	191844	192282	192721	193160
2965 n :	880	881	882	883	884	885	886	887
2966 n^2/4:	193600	194040	194481	194922	195364	195806	196249	196692
2967 n :	888	889	890	891	892	893	894	895
2968 n^2/4:	197136	197580	198025	198470	198916	199362	199809	200256
2969 n :	896	897	898	899	900	901	902	903
2970 n^2/4:	200704	201152	201601	202050	202500	202950	203401	203852
2971 n :	904	905	906	907	908	909	910	911
2972 n^2/4:	204304	204756	205209	205662	206116	206570	207025	207480
2973 n :	912	913	914	915	916	917	918	919
2974 n^2/4:	207936	208392	208849	209306	209764	210222	210681	211140
2975 n :	920	921	922	923	924	925	926	927
2976 n^2/4:	211600	212060	212521	212982	213444	213906	214369	214832
2977 n :	928	929	930	931	932	933	934	935
2978 n^2/4:	215296	215760	216225	216690	217156	217622	218089	218556

2979 n :	936	937	938	939	940	941	942	943
2980 n^2/4:	219024	219492	219961	220430	220900	221370	221841	222312
2981 n :	944	945	946	947	948	949	950	951
2982 n^2/4:	222784	223256	223729	224202	224676	225150	225625	226100
2983 n :	952	953	954	955	956	957	958	959
2984 n^2/4:	226576	227052	227529	228006	228484	228962	229441	229920
2985 n :	960	961	962	963	964	965	966	967
2986 n^2/4:	230400	230880	231361	231842	232324	232806	233289	233772
2987 n :	968	969	970	971	972	973	974	975
2988 n^2/4:	234256	234740	235225	235710	236196	236682	237169	237656
2989 n :	976	977	978	979	980	981	982	983
2990 n^2/4:	238144	238632	239121	239610	240100	240590	241081	241572
2991 n :	984	985	986	987	988	989	990	991
2992 n^2/4:	242064	242556	243049	243542	244036	244530	245025	245520
2993 n :	992	993	994	995	996	997	998	999
2994 n^2/4:	246016	246512	247009	247506	248004	248502	249001	249500
2995 n :	1000	1001	1002	1003	1004	1005	1006	1007
2996 n^2/4:	250000	250500	251001	251502	252004	252506	253009	253512
2997 n :	1008	1009	1010	1011	1012	1013	1014	1015
2998 n^2/4:	254016	254520	255025	255530	256036	256542	257049	257556
2999 n :	1016	1017	1018	1019	1020	1021	1022	1023
3000 n^2/4:	258064	258572	259081	259590	260100	260610	261121	261632
3001 n :	1024	1025	1026	1027	1028	1029	1030	1031
3002 n^2/4:	262144	262656	263169	263682	264196	264710	265225	265740
3003 n :	1032	1033	1034	1035	1036	1037	1038	1039
3004 n^2/4:	266256	266772	267289	267806	268324	268842	269361	269880
3005 n :	1040	1041	1042	1043	1044	1045	1046	1047
3006 n^2/4:	270400	270920	271441	271962	272484	273006	273529	274052
3007 n :	1048	1049	1050	1051	1052	1053	1054	1055
3008 n^2/4:	274576	275100	275625	276150	276676	277202	277729	278256
3009 n :	1056	1057	1058	1059	1060	1061	1062	1063
3010 n^2/4:	278784	279312	279841	280370	280900	281430	281961	282492
3011 n :	1064	1065	1066	1067	1068	1069	1070	1071
3012 n^2/4:	283024	283556	284089	284622	285156	285690	286225	286760
3013 n :	1072	1073	1074	1075	1076	1077	1078	1079
3014 n^2/4:	287296	287832	288369	288906	289444	289982	290521	291060
3015 n :	1080	1081	1082	1083	1084	1085	1086	1087
3016 n^2/4:	291600	292140	292681	293222	293764	294306	294849	295392
3017 n :	1088	1089	1090	1091	1092	1093	1094	1095
3018 n^2/4:	295936	296480	297025	297570	298116	298662	299209	299756
3019 n :	1096	1097	1098	1099	1100	1101	1102	1103
3020 n^2/4:	300304	300852	301401	301950	302500	303050	303601	304152
3021 n :	1104	1105	1106	1107	1108	1109	1110	1111
3022 n^2/4:	304704	305256	305809	306362	306916	307470	308025	308580
3023 n :	1112	1113	1114	1115	1116	1117	1118	1119
3024 n^2/4:	309136	309692	310249	310806	311364	311922	312481	313040
3025 n :	1120	1121	1122	1123	1124	1125	1126	1127
3026 n^2/4:	313600	314160	314721	315282	315844	316406	316969	317532
3027 n :	1128	1129	1130	1131	1132	1133	1134	1135
3028 n^2/4:	318096	318660	319225	319790	320356	320922	321489	322056
3029 n :	1136	1137	1138	1139	1140	1141	1142	1143
3030 n^2/4:	322624	323192	323761	324330	324900	325470	326041	326612
3031 n :	1144	1145	1146	1147	1148	1149	1150	1151
3032 n^2/4:	327184	327756	328329	328902	329476	330050	330625	331200
3033 n :	1152	1153	1154	1155	1156	1157	1158	1159
3034 n^2/4:	331776	332352	332929	333506	334084	334662	335241	335820
3035 n :	1160	1161	1162	1163	1164	1165	1166	1167
3036 n^2/4:	336400	336980	337561	338142	338724	339306	339889	340472
3037 n :	1168	1169	1170	1171	1172	1173	1174	1175
3038 n^2/4:	341056	341640	342225	342810	343396	343982	344569	345156
3039 n :	1176	1177	1178	1179	1180	1181	1182	1183
3040 n^2/4:	345744	346332	346921	347510	348100	348690	349281	349872
3041 n :	1184	1185	1186	1187	1188	1189	1190	1191
3042 n^2/4:	350464	351056	351649	352242	352836	353430	354025	354620
3043 n :	1192	1193	1194	1195	1196	1197	1198	1199
3044 n^2/4:	355216	355812	356409	357006	357604	358202	358801	359400
3045 n :	1200	1201	1202	1203	1204	1205	1206	1207
3046 n^2/4:	360000	360600	361201	361802	362404	363006	363609	364212
3047 n :	1208	1209	1210	1211	1212	1213	1214	1215
3048 n^2/4:	364816	365420	366025	366630	367236	367842	368449	369056
3049 n :	1216	1217	1218	1219	1220	1221	1222	1223
3050 n^2/4:	369664	370272	370881	371490	372100	372710	373321	373932
3051 n :	1224	1225	1226	1227	1228	1229	1230	1231
3052 n^2/4:	374544	375156	375769	376382	376996	377610	378225	378840
3053 n :	1232	1233	1234	1235	1236	1237	1238	1239
3054 n^2/4:	379456	380072	380689	381306	381924	382542	383161	383780
3055 n :	1240	1241	1242	1243	1244	1245	1246	1247
3056 n^2/4:	384400	385020	385641	386262	386884	387506	388129	388752
3057 n :	1248	1249	1250	1251	1252	1253	1254	1255
3058 n^2/4:	389376	390000	390625	391250	391876	392502	393129	393756
3059 n :	1256	1257	1258	1259	1260	1261	1262	1263
3060 n^2/4:	394384	395012	395641	396270	396900	397530	398161	398792
3061 n :	1264	1265	1266	1267	1268	1269	1270	1271
3062 n^2/4:	399424	400056	400689	401322	401956	402590	403225	403860
3063 n :	1272	1273	1274	1275	1276	1277	1278	1279
3064 n^2/4:	404496	405132	405769	406406	407044	407682	408321	408960
3065 n :	1280	1281	1282	1283	1284	1285	1286	1287
3066 n^2/4:	409600	410240	410881	411522	412164	412806	413449	414092

3067 n :	1288	1289	1290	1291	1292	1293	1294	1295
3068 n^2/4:	414736	415380	416025	416670	417316	417962	418609	419256
3069 n :	1296	1297	1298	1299	1300	1301	1302	1303
3070 n^2/4:	419904	420552	421201	421850	422500	423150	423801	424452
3071 n :	1304	1305	1306	1307	1308	1309	1310	1311
3072 n^2/4:	425104	425756	426409	427062	427716	428370	429025	429680
3073 n :	1312	1313	1314	1315	1316	1317	1318	1319
3074 n^2/4:	430336	430992	431649	432306	432964	433622	434281	434940
3075 n :	1320	1321	1322	1323	1324	1325	1326	1327
3076 n^2/4:	435600	436260	436921	437582	438244	438906	439569	440232
3077 n :	1328	1329	1330	1331	1332	1333	1334	1335
3078 n^2/4:	440896	441560	442225	442890	443556	444222	444889	445556
3079 n :	1336	1337	1338	1339	1340	1341	1342	1343
3080 n^2/4:	446224	446892	447561	448230	448900	449570	450241	450912
3081 n :	1344	1345	1346	1347	1348	1349	1350	1351
3082 n^2/4:	451584	452256	452929	453602	454276	454950	455625	456300
3083 n :	1352	1353	1354	1355	1356	1357	1358	1359
3084 n^2/4:	456976	457652	458329	459006	459684	460362	461041	461720
3085 n :	1360	1361	1362	1363	1364	1365	1366	1367
3086 n^2/4:	462400	463080	463761	464442	465124	465806	466489	467172
3087 n :	1368	1369	1370	1371	1372	1373	1374	1375
3088 n^2/4:	467856	468540	469225	469910	470596	471282	471969	472656
3089 n :	1376	1377	1378	1379	1380	1381	1382	1383
3090 n^2/4:	473344	474032	474721	475410	476100	476790	477481	478172
3091 n :	1384	1385	1386	1387	1388	1389	1390	1391
3092 n^2/4:	478864	479556	480249	480942	481636	482330	483025	483720
3093 n :	1392	1393	1394	1395	1396	1397	1398	1399
3094 n^2/4:	484416	485112	485809	486506	487204	487902	488601	489300
3095 n :	1400	1401	1402	1403	1404	1405	1406	1407
3096 n^2/4:	490000	490700	491401	492102	492804	493506	494209	494912
3097 n :	1408	1409	1410	1411	1412	1413	1414	1415
3098 n^2/4:	495616	496320	497025	497730	498436	499142	499849	500556
3099 n :	1416	1417	1418	1419	1420	1421	1422	1423
3100 n^2/4:	501264	501972	502681	503390	504100	504810	505521	506232
3101 n :	1424	1425	1426	1427	1428	1429	1430	1431
3102 n^2/4:	506944	507656	508369	509082	509796	510510	511225	511940
3103 n :	1432	1433	1434	1435	1436	1437	1438	1439
3104 n^2/4:	512656	513372	514089	514806	515524	516242	516961	517680
3105 n :	1440	1441	1442	1443	1444	1445	1446	1447
3106 n^2/4:	518400	519120	519841	520562	521284	522006	522729	523452
3107 n :	1448	1449	1450	1451	1452	1453	1454	1455
3108 n^2/4:	524176	524900	525625	526350	527076	527802	528529	529256
3109 n :	1456	1457	1458	1459	1460	1461	1462	1463
3110 n^2/4:	529984	530712	531441	532170	532900	533630	534361	535092
3111 n :	1464	1465	1466	1467	1468	1469	1470	1471
3112 n^2/4:	535824	536556	537289	538022	538756	539490	540225	540960
3113 n :	1472	1473	1474	1475	1476	1477	1478	1479
3114 n^2/4:	541696	542432	543169	543906	544644	545382	546121	546860
3115 n :	1480	1481	1482	1483	1484	1485	1486	1487
3116 n^2/4:	547600	548340	549081	549822	550564	551306	552049	552792
3117 n :	1488	1489	1490	1491	1492	1493	1494	1495
3118 n^2/4:	553536	554280	555025	555770	556516	557262	558009	558756
3119 n :	1496	1497	1498	1499	1500	1501	1502	1503
3120 n^2/4:	559504	560252	561001	561750	562500	563250	564001	564752
3121 n :	1504	1505	1506	1507	1508	1509	1510	1511
3122 n^2/4:	565504	566256	567009	567762	568516	569270	570025	570780
3123 n :	1512	1513	1514	1515	1516	1517	1518	1519
3124 n^2/4:	571536	572292	573049	573806	574564	575322	576081	576840
3125 n :	1520	1521	1522	1523	1524	1525	1526	1527
3126 n^2/4:	577600	578360	579121	579882	580644	581406	582169	582932
3127 n :	1528	1529	1530	1531	1532	1533	1534	1535
3128 n^2/4:	583696	584460	585225	585990	586756	587522	588289	589056
3129 n :	1536	1537	1538	1539	1540	1541	1542	1543
3130 n^2/4:	589824	590592	591361	592130	592900	593670	594441	595212
3131 n :	1544	1545	1546	1547	1548	1549	1550	1551
3132 n^2/4:	595984	596756	597529	598302	599076	599850	600625	601400
3133 n :	1552	1553	1554	1555	1556	1557	1558	1559
3134 n^2/4:	602176	602952	603729	604506	605284	606062	606841	607620
3135 n :	1560	1561	1562	1563	1564	1565	1566	1567
3136 n^2/4:	608400	609180	609961	610742	611524	612306	613089	613872
3137 n :	1568	1569	1570	1571	1572	1573	1574	1575
3138 n^2/4:	614656	615440	616225	617010	617796	618582	619369	620156
3139 n :	1576	1577	1578	1579	1580	1581	1582	1583
3140 n^2/4:	620944	621732	622521	623310	624100	624890	625681	626472
3141 n :	1584	1585	1586	1587	1588	1589	1590	1591
3142 n^2/4:	627264	628056	628849	629642	630436	631230	632025	632820
3143 n :	1592	1593	1594	1595	1596	1597	1598	1599
3144 n^2/4:	633616	634412	635209	636006	636804	637602	638401	639200
3145 n :	1600	1601	1602	1603	1604	1605	1606	1607
3146 n^2/4:	640000	640800	641601	642402	643204	644006	644809	645612
3147 n :	1608	1609	1610	1611	1612	1613	1614	1615
3148 n^2/4:	646416	647220	648025	648830	649636	650442	651249	652056
3149 n :	1616	1617	1618	1619	1620	1621	1622	1623
3150 n^2/4:	652864	653672	654481	655290	656100	656910	657721	658532
3151 n :	1624	1625	1626	1627	1628	1629	1630	1631
3152 n^2/4:	659344	660156	660969	661782	662596	663410	664225	665040
3153 n :	1632	1633	1634	1635	1636	1637	1638	1639
3154 n^2/4:	665856	666672	667489	668306	669124	669942	670761	671580

3155 n :	1640	1641	1642	1643	1644	1645	1646	1647
3156 n^2/4:	672400	673220	674041	674862	675684	676506	677329	678152
3157 n :	1648	1649	1650	1651	1652	1653	1654	1655
3158 n^2/4:	678976	679800	680625	681450	682276	683102	683929	684756
3159 n :	1656	1657	1658	1659	1660	1661	1662	1663
3160 n^2/4:	685584	686412	687241	688070	688900	689730	690561	691392
3161 n :	1664	1665	1666	1667	1668	1669	1670	1671
3162 n^2/4:	692224	693056	693889	694722	695556	696390	697225	698060
3163 n :	1672	1673	1674	1675	1676	1677	1678	1679
3164 n^2/4:	698896	699732	700569	701406	702244	703082	703921	704760
3165 n :	1680	1681	1682	1683	1684	1685	1686	1687
3166 n^2/4:	705600	706440	707281	708122	708964	709806	710649	711492
3167 n :	1688	1689	1690	1691	1692	1693	1694	1695
3168 n^2/4:	712336	713180	714025	714870	715716	716562	717409	718256
3169 n :	1696	1697	1698	1699	1700	1701	1702	1703
3170 n^2/4:	719104	719952	720801	721650	722500	723350	724201	725052
3171 n :	1704	1705	1706	1707	1708	1709	1710	1711
3172 n^2/4:	725904	726756	727609	728462	729316	730170	731025	731880
3173 n :	1712	1713	1714	1715	1716	1717	1718	1719
3174 n^2/4:	732736	733592	734449	735306	736164	737022	737881	738740
3175 n :	1720	1721	1722	1723	1724	1725	1726	1727
3176 n^2/4:	739600	740460	741321	742182	743044	743906	744769	745632
3177 n :	1728	1729	1730	1731	1732	1733	1734	1735
3178 n^2/4:	746496	747360	748225	749090	749956	750822	751689	752556
3179 n :	1736	1737	1738	1739	1740	1741	1742	1743
3180 n^2/4:	753424	754292	755161	756030	756900	757770	758641	759512
3181 n :	1744	1745	1746	1747	1748	1749	1750	1751
3182 n^2/4:	760384	761256	762129	763002	763876	764750	765625	766500
3183 n :	1752	1753	1754	1755	1756	1757	1758	1759
3184 n^2/4:	767376	768252	769129	770006	770884	771762	772641	773520
3185 n :	1760	1761	1762	1763	1764	1765	1766	1767
3186 n^2/4:	774400	775280	776161	777042	777924	778806	779689	780572
3187 n :	1768	1769	1770	1771	1772	1773	1774	1775
3188 n^2/4:	781456	782340	783225	784110	784996	785882	786769	787656
3189 n :	1776	1777	1778	1779	1780	1781	1782	1783
3190 n^2/4:	788544	789432	790321	791210	792100	792990	793881	794772
3191 n :	1784	1785	1786	1787	1788	1789	1790	1791
3192 n^2/4:	795664	796556	797449	798342	799236	800130	801025	801920
3193 n :	1792	1793	1794	1795	1796	1797	1798	1799
3194 n^2/4:	802816	803712	804609	805506	806404	807302	808201	809100
3195 n :	1800	1801	1802	1803	1804	1805	1806	1807
3196 n^2/4:	810000	810900	811801	812702	813604	814506	815409	816312
3197 n :	1808	1809	1810	1811	1812	1813	1814	1815
3198 n^2/4:	817216	818120	819025	819930	820836	821742	822649	823556
3199 n :	1816	1817	1818	1819	1820	1821	1822	1823
3200 n^2/4:	824464	825372	826281	827190	828100	829010	829921	830832
3201 n :	1824	1825	1826	1827	1828	1829	1830	1831
3202 n^2/4:	831744	832656	833569	834482	835396	836310	837225	838140
3203 n :	1832	1833	1834	1835	1836	1837	1838	1839
3204 n^2/4:	839056	839972	840889	841806	842724	843642	844561	845480
3205 n :	1840	1841	1842	1843	1844	1845	1846	1847
3206 n^2/4:	846400	847320	848241	849162	850084	851006	851929	852852
3207 n :	1848	1849	1850	1851	1852	1853	1854	1855
3208 n^2/4:	853776	854700	855625	856550	857476	858402	859329	860256
3209 n :	1856	1857	1858	1859	1860	1861	1862	1863
3210 n^2/4:	861184	862112	863041	863970	864900	865830	866761	867692
3211 n :	1864	1865	1866	1867	1868	1869	1870	1871
3212 n^2/4:	868624	869556	870489	871422	872356	873290	874225	875160
3213 n :	1872	1873	1874	1875	1876	1877	1878	1879
3214 n^2/4:	876096	877032	877969	878906	879844	880782	881721	882660
3215 n :	1880	1881	1882	1883	1884	1885	1886	1887
3216 n^2/4:	883600	884540	885481	886422	887364	888306	889249	890192
3217 n :	1888	1889	1890	1891	1892	1893	1894	1895
3218 n^2/4:	891136	892080	893025	893970	894916	895862	896809	897756
3219 n :	1896	1897	1898	1899	1900	1901	1902	1903
3220 n^2/4:	898704	899652	900601	901550	902500	903450	904401	905352
3221 n :	1904	1905	1906	1907	1908	1909	1910	1911
3222 n^2/4:	906304	907256	908209	909162	910116	911070	912025	912980
3223 n :	1912	1913	1914	1915	1916	1917	1918	1919
3224 n^2/4:	913936	914892	915849	916806	917764	918722	919681	920640
3225 n :	1920	1921	1922	1923	1924	1925	1926	1927
3226 n^2/4:	921600	922560	923521	924482	925444	926406	927369	928332
3227 n :	1928	1929	1930	1931	1932	1933	1934	1935
3228 n^2/4:	929296	930260	931225	932190	933156	934122	935089	936056
3229 n :	1936	1937	1938	1939	1940	1941	1942	1943
3230 n^2/4:	937024	937992	938961	939930	940900	941870	942841	943812
3231 n :	1944	1945	1946	1947	1948	1949	1950	1951
3232 n^2/4:	944784	945756	946729	947702	948676	949650	950625	951600
3233 n :	1952	1953	1954	1955	1956	1957	1958	1959
3234 n^2/4:	952576	953552	954529	955506	956484	957462	958441	959420
3235 n :	1960	1961	1962	1963	1964	1965	1966	1967
3236 n^2/4:	960400	961380	962361	963342	964324	965306	966289	967272
3237 n :	1968	1969	1970	1971	1972	1973	1974	1975
3238 n^2/4:	968256	969240	970225	971210	972196	973182	974169	975156
3239 n :	1976	1977	1978	1979	1980	1981	1982	1983
3240 n^2/4:	976144	977132	978121	979110	980100	981090	982081	983072
3241 n :	1984	1985	1986	1987	1988	1989	1990	1991
3242 n^2/4:	984064	985056	986049	987042	988036	989030	990025	991020

3243 n :	1992	1993	1994	1995	1996	1997	1998	1999
3244 n^2/4:	992016	993012	994009	995006	996004	997002	998001	999000
3245 n :	2000	2001	2002	2003	2004	2005	2006	2007
3246 n^2/4:	1000000	1001000	1002001	1003002	1004004	1005006	1006009	1007012
3247 n :	2008	2009	2010	2011	2012	2013	2014	2015
3248 n^2/4:	1008016	1009020	1010025	1011030	1012036	1013042	1014049	1015056
3249 n :	2016	2017	2018	2019	2020	2021	2022	2023
3250 n^2/4:	1016064	1017072	1018081	1019090	1020100	1021110	1022121	1023132
3251 n :	2024	2025	2026	2027	2028	2029	2030	2031
3252 n^2/4:	1024144	1025156	1026169	1027182	1028196	1029210	1030225	1031240
3253 n :	2032	2033	2034	2035	2036	2037	2038	2039
3254 n^2/4:	1032256	1033272	1034289	1035306	1036324	1037342	1038361	1039380
3255 n :	2040	2041	2042	2043	2044	2045	2046	2047
3256 n^2/4:	1040400	1041420	1042441	1043462	1044484	1045506	1046529	1047552
3257 n :	2048	2049	2050	2051	2052	2053	2054	2055
3258 n^2/4:	1048576	1049600	1050625	1051650	1052676	1053702	1054729	1055756
3259 n :	2056	2057	2058	2059	2060	2061	2062	2063
3260 n^2/4:	1056784	1057812	1058841	1059870	1060900	1061930	1062961	1063992
3261 n :	2064	2065	2066	2067	2068	2069	2070	2071
3262 n^2/4:	1065024	1066056	1067089	1068122	1069156	1070190	1071225	1072260
3263 n :	2072	2073	2074	2075	2076	2077	2078	2079
3264 n^2/4:	1073296	1074332	1075369	1076406	1077444	1078482	1079521	1080560
3265 n :	2080	2081	2082	2083	2084	2085	2086	2087
3266 n^2/4:	1081600	1082640	1083681	1084722	1085764	1086806	1087849	1088892
3267 n :	2088	2089	2090	2091	2092	2093	2094	2095
3268 n^2/4:	1089936	1090980	1092025	1093070	1094116	1095162	1096209	1097256
3269 n :	2096	2097	2098	2099	2100	2101	2102	2103
3270 n^2/4:	1098304	1099352	1100401	1101450	1102500	1103550	1104601	1105652
3271 n :	2104	2105	2106	2107	2108	2109	2110	2111
3272 n^2/4:	1106704	1107756	1108809	1109862	1110916	1111970	1113025	1114080
3273 n :	2112	2113	2114	2115	2116	2117	2118	2119
3274 n^2/4:	1115136	1116192	1117249	1118306	1119364	1120422	1121481	1122540
3275 n :	2120	2121	2122	2123	2124	2125	2126	2127
3276 n^2/4:	1123600	1124660	1125721	1126782	1127844	1128906	1129969	1131032
3277 n :	2128	2129	2130	2131	2132	2133	2134	2135
3278 n^2/4:	1132096	1133160	1134225	1135290	1136356	1137422	1138489	1139556
3279 n :	2136	2137	2138	2139	2140	2141	2142	2143
3280 n^2/4:	1140624	1141692	1142761	1143830	1144900	1145970	1147041	1148112
3281 n :	2144	2145	2146	2147	2148	2149	2150	2151
3282 n^2/4:	1149184	1150256	1151329	1152402	1153476	1154550	1155625	1156700
3283 n :	2152	2153	2154	2155	2156	2157	2158	2159
3284 n^2/4:	1157776	1158852	1159929	1161006	1162084	1163162	1164241	1165320
3285 n :	2160	2161	2162	2163	2164	2165	2166	2167
3286 n^2/4:	1166400	1167480	1168561	1169642	1170724	1171806	1172889	1173972
3287 n :	2168	2169	2170	2171	2172	2173	2174	2175
3288 n^2/4:	1175056	1176140	1177225	1178310	1179396	1180482	1181569	1182656
3289 n :	2176	2177	2178	2179	2180	2181	2182	2183
3290 n^2/4:	1183744	1184832	1185921	1187010	1188100	1189190	1190281	1191372
3291 n :	2184	2185	2186	2187	2188	2189	2190	2191
3292 n^2/4:	1192464	1193556	1194649	1195742	1196836	1197930	1199025	1200120
3293 n :	2192	2193	2194	2195	2196	2197	2198	2199
3294 n^2/4:	1201216	1202312	1203409	1204506	1205604	1206702	1207801	1208900
3295 n :	2200	2201	2202	2203	2204	2205	2206	2207
3296 n^2/4:	1210000	1211100	1212201	1213302	1214404	1215506	1216609	1217712
3297 n :	2208	2209	2210	2211	2212	2213	2214	2215
3298 n^2/4:	1218816	1219920	1221025	1222130	1223236	1224342	1225449	1226556
3299 n :	2216	2217	2218	2219	2220	2221	2222	2223
3300 n^2/4:	1227664	1228772	1229881	1230990	1232100	1233210	1234321	1235432
3301 n :	2224	2225	2226	2227	2228	2229	2230	2231
3302 n^2/4:	1236544	1237656	1238769	1239882	1240996	1242110	1243225	1244340
3303 n :	2232	2233	2234	2235	2236	2237	2238	2239
3304 n^2/4:	1245456	1246572	1247689	1248806	1249924	1251042	1252161	1253280
3305 n :	2240	2241	2242	2243	2244	2245	2246	2247
3306 n^2/4:	1254400	1255520	1256641	1257762	1258884	1260006	1261129	1262252
3307 n :	2248	2249	2250	2251	2252	2253	2254	2255
3308 n^2/4:	1263376	1264500	1265625	1266750	1267876	1269002	1270129	1271256
3309 n :	2256	2257	2258	2259	2260	2261	2262	2263
3310 n^2/4:	1272384	1273512	1274641	1275770	1276900	1278030	1279161	1280292
3311 n :	2264	2265	2266	2267	2268	2269	2270	2271
3312 n^2/4:	1281424	1282556	1283689	1284822	1285956	1287090	1288225	1289360
3313 n :	2272	2273	2274	2275	2276	2277	2278	2279
3314 n^2/4:	1290496	1291632	1292769	1293906	1295044	1296182	1297321	1298460
3315 n :	2280	2281	2282	2283	2284	2285	2286	2287
3316 n^2/4:	1299600	1300740	1301881	1303022	1304164	1305306	1306449	1307592
3317 n :	2288	2289	2290	2291	2292	2293	2294	2295
3318 n^2/4:	1308736	1309880	1311025	1312170	1313316	1314462	1315609	1316756
3319 n :	2296	2297	2298	2299	2300	2301	2302	2303
3320 n^2/4:	1317904	1319052	1320201	1321350	1322500	1323650	1324801	1325952
3321 n :	2304	2305	2306	2307	2308	2309	2310	2311
3322 n^2/4:	1327104	1328256	1329409	1330562	1331716	1332870	1334025	1335180
3323 n :	2312	2313	2314	2315	2316	2317	2318	2319
3324 n^2/4:	1336336	1337492	1338649	1339806	1340964	1342122	1343281	1344440
3325 n :	2320	2321	2322	2323	2324	2325	2326	2327
3326 n^2/4:	1345600	1346760	1347921	1349082	1350244	1351406	1352569	1353732
3327 n :	2328	2329	2330	2331	2332	2333	2334	2335
3328 n^2/4:	1354896	1356060	1357225	1358390	1359556	1360722	1361889	1363056
3329 n :	2336	2337	2338	2339	2340	2341	2342	2343
3330 n^2/4:	1364224	1365392	1366561	1367730	1368900	1370070	1371241	1372412

3331 n	:	2344	2345	2346	2347	2348	2349	2350	2351
3332 n^2/4:	1373584	1374756	1375929	1377102	1378276	1379450	1380625	1381800	
3333 n	:	2352	2353	2354	2355	2356	2357	2358	2359
3334 n^2/4:	1382976	1384152	1385329	1386506	1387684	1388862	1390041	1391220	
3335 n	:	2360	2361	2362	2363	2364	2365	2366	2367
3336 n^2/4:	1392400	1393580	1394761	1395942	1397124	1398306	1399489	1400672	
3337 n	:	2368	2369	2370	2371	2372	2373	2374	2375
3338 n^2/4:	1401856	1403040	1404225	1405410	1406596	1407782	1408969	1410156	
3339 n	:	2376	2377	2378	2379	2380	2381	2382	2383
3340 n^2/4:	1411344	1412532	1413721	1414910	1416100	1417290	1418481	1419672	
3341 n	:	2384	2385	2386	2387	2388	2389	2390	2391
3342 n^2/4:	1420864	1422056	1423249	1424442	1425636	1426830	1428025	1429220	
3343 n	:	2392	2393	2394	2395	2396	2397	2398	2399
3344 n^2/4:	1430416	1431612	1432809	1434006	1435204	1436402	1437601	1438800	
3345 n	:	2400	2401	2402	2403	2404	2405	2406	2407
3346 n^2/4:	1440000	1441200	1442401	1443602	1444804	1446006	1447209	1448412	
3347 n	:	2408	2409	2410	2411	2412	2413	2414	2415
3348 n^2/4:	1449616	1450820	1452025	1453230	1454436	1455642	1456849	1458056	
3349 n	:	2416	2417	2418	2419	2420	2421	2422	2423
3350 n^2/4:	1459264	1460472	1461681	1462890	1464100	1465310	1466521	1467732	
3351 n	:	2424	2425	2426	2427	2428	2429	2430	2431
3352 n^2/4:	1468944	1470156	1471369	1472582	1473796	1475010	1476225	1477440	
3353 n	:	2432	2433	2434	2435	2436	2437	2438	2439
3354 n^2/4:	1478656	1479872	1481089	1482306	1483524	1484742	1485961	1487180	
3355 n	:	2440	2441	2442	2443	2444	2445	2446	2447
3356 n^2/4:	1488400	1489620	1490841	1492062	1493284	1494506	1495729	1496952	
3357 n	:	2448	2449	2450	2451	2452	2453	2454	2455
3358 n^2/4:	1498176	1499400	1500625	1501850	1503076	1504302	1505529	1506756	
3359 n	:	2456	2457	2458	2459	2460	2461	2462	2463
3360 n^2/4:	1507984	1509212	1510441	1511670	1512900	1514130	1515361	1516592	
3361 n	:	2464	2465	2466	2467	2468	2469	2470	2471
3362 n^2/4:	1517824	1519056	1520289	1521522	1522756	1523990	1525225	1526460	
3363 n	:	2472	2473	2474	2475	2476	2477	2478	2479
3364 n^2/4:	1527696	1528932	1530169	1531406	1532644	1533882	1535121	1536360	
3365 n	:	2480	2481	2482	2483	2484	2485	2486	2487
3366 n^2/4:	1537600	1538840	1540081	1541322	1542564	1543806	1545049	1546292	
3367 n	:	2488	2489	2490	2491	2492	2493	2494	2495
3368 n^2/4:	1547536	1548780	1550025	1551270	1552516	1553762	1555009	1556256	
3369 n	:	2496	2497	2498	2499	2500	2501	2502	2503
3370 n^2/4:	1557504	1558752	1560001	1561250	1562500	1563750	1565001	1566252	
3371 n	:	2504	2505	2506	2507	2508	2509	2510	2511
3372 n^2/4:	1567504	1568756	1570009	1571262	1572516	1573770	1575025	1576280	
3373 n	:	2512	2513	2514	2515	2516	2517	2518	2519
3374 n^2/4:	1577536	1578792	1580049	1581306	1582564	1583822	1585081	1586340	
3375 n	:	2520	2521	2522	2523	2524	2525	2526	2527
3376 n^2/4:	1587600	1588860	1590121	1591382	1592644	1593906	1595169	1596432	
3377 n	:	2528	2529	2530	2531	2532	2533	2534	2535
3378 n^2/4:	1597696	1598960	1600225	1601490	1602756	1604022	1605289	1606556	
3379 n	:	2536	2537	2538	2539	2540	2541	2542	2543
3380 n^2/4:	1607824	1609092	1610361	1611630	1612900	1614170	1615441	1616712	
3381 n	:	2544	2545	2546	2547	2548	2549	2550	2551
3382 n^2/4:	1617984	1619256	1620529	1621802	1623076	1624350	1625625	1626900	
3383 n	:	2552	2553	2554	2555	2556	2557	2558	2559
3384 n^2/4:	1628176	1629452	1630729	1632006	1633284	1634562	1635841	1637120	
3385 n	:	2560	2561	2562	2563	2564	2565	2566	2567
3386 n^2/4:	1638400	1639680	1640961	1642242	1643524	1644806	1646089	1647372	
3387 n	:	2568	2569	2570	2571	2572	2573	2574	2575
3388 n^2/4:	1648656	1649940	1651225	1652510	1653796	1655082	1656369	1657656	
3389 n	:	2576	2577	2578	2579	2580	2581	2582	2583
3390 n^2/4:	1658944	1660232	1661521	1662810	1664100	1665390	1666681	1667972	
3391 n	:	2584	2585	2586	2587	2588	2589	2590	2591
3392 n^2/4:	1669264	1670556	1671849	1673142	1674436	1675730	1677025	1678320	
3393 n	:	2592	2593	2594	2595	2596	2597	2598	2599
3394 n^2/4:	1679616	1680912	1682209	1683506	1684804	1686102	1687401	1688700	
3395 n	:	2600	2601	2602	2603	2604	2605	2606	2607
3396 n^2/4:	1690000	1691300	1692601	1693902	1695204	1696506	1697809	1699112	
3397 n	:	2608	2609	2610	2611	2612	2613	2614	2615
3398 n^2/4:	1700416	1701720	1703025	1704330	1705636	1706942	1708249	1709556	
3399 n	:	2616	2617	2618	2619	2620	2621	2622	2623
3400 n^2/4:	1710864	1712172	1713481	1714790	1716100	1717410	1718721	1720032	
3401 n	:	2624	2625	2626	2627	2628	2629	2630	2631
3402 n^2/4:	1721344	1722656	1723969	1725282	1726596	1727910	1729225	1730540	
3403 n	:	2632	2633	2634	2635	2636	2637	2638	2639
3404 n^2/4:	1731856	1733172	1734489	1735806	1737124	1738442	1739761	1741080	
3405 n	:	2640	2641	2642	2643	2644	2645	2646	2647
3406 n^2/4:	1742400	1743720	1745041	1746362	1747684	1749006	1750329	1751652	
3407 n	:	2648	2649	2650	2651	2652	2653	2654	2655
3408 n^2/4:	1752976	1754300	1755625	1756950	1758276	1759602	1760929	1762256	
3409 n	:	2656	2657	2658	2659	2660	2661	2662	2663
3410 n^2/4:	1763584	1764912	1766241	1767570	1768900	1770230	1771561	1772892	
3411 n	:	2664	2665	2666	2667	2668	2669	2670	2671
3412 n^2/4:	1774224	1775556	1776889	1778222	1779556	1780890	1782225	1783560	
3413 n	:	2672	2673	2674	2675	2676	2677	2678	2679
3414 n^2/4:	1784896	1786232	1787569	1788906	1790244	1791582	1792921	1794260	
3415 n	:	2680	2681	2682	2683	2684	2685	2686	2687
3416 n^2/4:	1795600	1796940	1798281	1799622	1800964	1802306	1803649	1804992	
3417 n	:	2688	2689	2690	2691	2692	2693	2694	2695
3418 n^2/4:	1806336	1807680	1809025	1810370	1811716	1813062	1814409	1815756	

3419 n :	2696	2697	2698	2699	2700	2701	2702	2703
3420 n^2/4:	1817104	1818452	1819801	1821150	1822500	1823850	1825201	1826552
3421 n :	2704	2705	2706	2707	2708	2709	2710	2711
3422 n^2/4:	1827904	1829256	1830609	1831962	1833316	1834670	1836025	1837380
3423 n :	2712	2713	2714	2715	2716	2717	2718	2719
3424 n^2/4:	1838736	1840092	1841449	1842806	1844164	1845522	1846881	1848240
3425 n :	2720	2721	2722	2723	2724	2725	2726	2727
3426 n^2/4:	1849600	1850960	1852321	1853682	1855044	1856406	1857769	1859132
3427 n :	2728	2729	2730	2731	2732	2733	2734	2735
3428 n^2/4:	1860496	1861860	1863225	1864590	1865956	1867322	1868689	1870056
3429 n :	2736	2737	2738	2739	2740	2741	2742	2743
3430 n^2/4:	1871424	1872792	1874161	1875530	1876900	1878270	1879641	1881012
3431 n :	2744	2745	2746	2747	2748	2749	2750	2751
3432 n^2/4:	1882384	1883756	1885129	1886502	1887876	1889250	1890625	1892000
3433 n :	2752	2753	2754	2755	2756	2757	2758	2759
3434 n^2/4:	1893376	1894752	1896129	1897506	1898884	1900262	1901641	1903020
3435 n :	2760	2761	2762	2763	2764	2765	2766	2767
3436 n^2/4:	1904400	1905780	1907161	1908542	1909924	1911306	1912689	1914072
3437 n :	2768	2769	2770	2771	2772	2773	2774	2775
3438 n^2/4:	1915456	1916840	1918225	1919610	1920996	1922382	1923769	1925156
3439 n :	2776	2777	2778	2779	2780	2781	2782	2783
3440 n^2/4:	1926544	1927932	1929321	1930710	1932100	1933490	1934881	1936272
3441 n :	2784	2785	2786	2787	2788	2789	2790	2791
3442 n^2/4:	1937664	1939056	1940449	1941842	1943236	1944630	1946025	1947420
3443 n :	2792	2793	2794	2795	2796	2797	2798	2799
3444 n^2/4:	1948816	1950212	1951609	1953006	1954404	1955802	1957201	1958600
3445 n :	2800	2801	2802	2803	2804	2805	2806	2807
3446 n^2/4:	1960000	1961400	1962801	1964202	1965604	1967006	1968409	1969812
3447 n :	2808	2809	2810	2811	2812	2813	2814	2815
3448 n^2/4:	1971216	1972620	1974025	1975430	1976836	1978242	1979649	1981056
3449 n :	2816	2817	2818	2819	2820	2821	2822	2823
3450 n^2/4:	1982464	1983872	1985281	1986690	1988100	1989510	1990921	1992332
3451 n :	2824	2825	2826	2827	2828	2829	2830	2831
3452 n^2/4:	1993744	1995156	1996569	1997982	1999396	2000810	2002225	2003640
3453 n :	2832	2833	2834	2835	2836	2837	2838	2839
3454 n^2/4:	2005056	2006472	2007889	2009306	2010724	2012142	2013561	2014980
3455 n :	2840	2841	2842	2843	2844	2845	2846	2847
3456 n^2/4:	2016400	2017820	2019241	2020662	2022084	2023506	2024929	2026352
3457 n :	2848	2849	2850	2851	2852	2853	2854	2855
3458 n^2/4:	2027776	2029200	2030625	2032050	2033476	2034902	2036329	2037756
3459 n :	2856	2857	2858	2859	2860	2861	2862	2863
3460 n^2/4:	2039184	2040612	2042041	2043470	2044900	2046330	2047761	2049192
3461 n :	2864	2865	2866	2867	2868	2869	2870	2871
3462 n^2/4:	2050624	2052056	2053489	2054922	2056356	2057790	2059225	2060660
3463 n :	2872	2873	2874	2875	2876	2877	2878	2879
3464 n^2/4:	2062096	2063532	2064969	2066406	2067844	2069282	2070721	2072160
3465 n :	2880	2881	2882	2883	2884	2885	2886	2887
3466 n^2/4:	2073600	2075040	2076481	2077922	2079364	2080806	2082249	2083692
3467 n :	2888	2889	2890	2891	2892	2893	2894	2895
3468 n^2/4:	2085136	2086580	2088025	2089470	2090916	2092362	2093809	2095256
3469 n :	2896	2897	2898	2899	2900	2901	2902	2903
3470 n^2/4:	2096704	2098152	2099601	2101050	2102500	2103950	2105401	2106852
3471 n :	2904	2905	2906	2907	2908	2909	2910	2911
3472 n^2/4:	2108304	2109756	2111209	2112662	2114116	2115570	2117025	2118480
3473 n :	2912	2913	2914	2915	2916	2917	2918	2919
3474 n^2/4:	2119936	2121392	2122849	2124306	2125764	2127222	2128681	2130140
3475 n :	2920	2921	2922	2923	2924	2925	2926	2927
3476 n^2/4:	2131600	2133060	2134521	2135982	2137444	2138906	2140369	2141832
3477 n :	2928	2929	2930	2931	2932	2933	2934	2935
3478 n^2/4:	2143296	2144760	2146225	2147690	2149156	2150622	2152089	2153556
3479 n :	2936	2937	2938	2939	2940	2941	2942	2943
3480 n^2/4:	2155024	2156492	2157961	2159430	2160900	2162370	2163841	2165312
3481 n :	2944	2945	2946	2947	2948	2949	2950	2951
3482 n^2/4:	2166784	2168256	2169729	2171202	2172676	2174150	2175625	2177100
3483 n :	2952	2953	2954	2955	2956	2957	2958	2959
3484 n^2/4:	2178576	2180052	2181529	2183006	2184484	2185962	2187441	2188920
3485 n :	2960	2961	2962	2963	2964	2965	2966	2967
3486 n^2/4:	2190400	2191880	2193361	2194842	2196324	2197806	2199289	2200772
3487 n :	2968	2969	2970	2971	2972	2973	2974	2975
3488 n^2/4:	2202256	2203740	2205225	2206710	2208196	2209682	2211169	2212656
3489 n :	2976	2977	2978	2979	2980	2981	2982	2983
3490 n^2/4:	2214144	2215632	2217121	2218610	2220100	2221590	2223081	2224572
3491 n :	2984	2985	2986	2987	2988	2989	2990	2991
3492 n^2/4:	2226064	2227556	2229049	2230542	2232036	2233530	2235025	2236520
3493 n :	2992	2993	2994	2995	2996	2997	2998	2999
3494 n^2/4:	2238016	2239512	2241009	2242506	2244004	2245502	2247001	2248500
3495 n :	3000	3001	3002	3003	3004	3005	3006	3007
3496 n^2/4:	2250000	2251500	2253001	2254502	2256004	2257506	2259009	2260512
3497 n :	3008	3009	3010	3011	3012	3013	3014	3015
3498 n^2/4:	2262016	2263520	2265025	2266530	2268036	2269542	2271049	2272556
3499 n :	3016	3017	3018	3019	3020	3021	3022	3023
3500 n^2/4:	2274064	2275572	2277081	2278590	2280100	2281610	2283121	2284632
3501 n :	3024	3025	3026	3027	3028	3029	3030	3031
3502 n^2/4:	2286144	2287656	2289169	2290682	2292196	2293710	2295225	2296740
3503 n :	3032	3033	3034	3035	3036	3037	3038	3039
3504 n^2/4:	2298256	2299772	2301289	2302806	2304324	2305842	2307361	2308880
3505 n :	3040	3041	3042	3043	3044	3045	3046	3047
3506 n^2/4:	2310400	2311920	2313441	2314962	2316484	2318006	2319529	2321052

3595 n :	3400	3401	3402	3403	3404	3405	3406	3407
3596 n^2/4:	2890000	2891700	2893401	2895102	2896804	2898506	2900209	2901912
3597 n :	3408	3409	3410	3411	3412	3413	3414	3415
3598 n^2/4:	2903616	2905320	2907025	2908730	2910436	2912142	2913849	2915556
3599 n :	3416	3417	3418	3419	3420	3421	3422	3423
3600 n^2/4:	2917264	2918972	2920681	2922390	2924100	2925810	2927521	2929232
3601 n :	3424	3425	3426	3427	3428	3429	3430	3431
3602 n^2/4:	2930944	2932656	2934369	2936082	2937796	2939510	2941225	2942940
3603 n :	3432	3433	3434	3435	3436	3437	3438	3439
3604 n^2/4:	2944656	2946372	2948089	2949806	2951524	2953242	2954961	2956680
3605 n :	3440	3441	3442	3443	3444	3445	3446	3447
3606 n^2/4:	2958400	2960120	2961841	2963562	2965284	2967006	2968729	2970452
3607 n :	3448	3449	3450	3451	3452	3453	3454	3455
3608 n^2/4:	2972176	2973900	2975625	2977350	2979076	2980802	2982529	2984256
3609 n :	3456	3457	3458	3459	3460	3461	3462	3463
3610 n^2/4:	2985984	2987712	2989441	2991170	2992900	2994630	2996361	2998092
3611 n :	3464	3465	3466	3467	3468	3469	3470	3471
3612 n^2/4:	2999824	3001556	3003289	3005022	3006756	3008490	3010225	3011960
3613 n :	3472	3473	3474	3475	3476	3477	3478	3479
3614 n^2/4:	3013696	3015432	3017169	3018906	3020644	3022382	3024121	3025860
3615 n :	3480	3481	3482	3483	3484	3485	3486	3487
3616 n^2/4:	3027600	3029340	3031081	3032822	3034564	3036306	3038049	3039792
3617 n :	3488	3489	3490	3491	3492	3493	3494	3495
3618 n^2/4:	3041536	3043280	3045025	3046770	3048516	3050262	3052009	3053756
3619 n :	3496	3497	3498	3499	3500	3501	3502	3503
3620 n^2/4:	3055504	3057252	3059001	3060750	3062500	3064250	3066001	3067752
3621 n :	3504	3505	3506	3507	3508	3509	3510	3511
3622 n^2/4:	3069504	3071256	3073009	3074762	3076516	3078270	3080025	3081780
3623 n :	3512	3513	3514	3515	3516	3517	3518	3519
3624 n^2/4:	3083536	3085292	3087049	3088806	3090564	3092322	3094081	3095840
3625 n :	3520	3521	3522	3523	3524	3525	3526	3527
3626 n^2/4:	3097600	3099360	3101121	3102882	3104644	3106406	3108169	3109932
3627 n :	3528	3529	3530	3531	3532	3533	3534	3535
3628 n^2/4:	3111696	3113460	3115225	3116990	3118756	3120522	3122289	3124056
3629 n :	3536	3537	3538	3539	3540	3541	3542	3543
3630 n^2/4:	3125824	3127592	3129361	3131130	3132900	3134670	3136441	3138212
3631 n :	3544	3545	3546	3547	3548	3549	3550	3551
3632 n^2/4:	3139984	3141756	3143529	3145302	3147076	3148850	3150625	3152400
3633 n :	3552	3553	3554	3555	3556	3557	3558	3559
3634 n^2/4:	3154176	3155952	3157729	3159506	3161284	3163062	3164841	3166620
3635 n :	3560	3561	3562	3563	3564	3565	3566	3567
3636 n^2/4:	3168400	3170180	3171961	3173742	3175524	3177306	3179089	3180872
3637 n :	3568	3569	3570	3571	3572	3573	3574	3575
3638 n^2/4:	3182656	3184440	3186225	3188010	3189796	3191582	3193369	3195156
3639 n :	3576	3577	3578	3579	3580	3581	3582	3583
3640 n^2/4:	3196944	3198732	3200521	3202310	3204100	3205890	3207681	3209472
3641 n :	3584	3585	3586	3587	3588	3589	3590	3591
3642 n^2/4:	3211264	3213056	3214849	3216642	3218436	3220230	3222025	3223820
3643 n :	3592	3593	3594	3595	3596	3597	3598	3599
3644 n^2/4:	3225616	3227412	3229209	3231006	3232804	3234602	3236401	3238200
3645 n :	3600	3601	3602	3603	3604	3605	3606	3607
3646 n^2/4:	3240000	3241800	3243601	3245402	3247204	3249006	3250809	3252612
3647 n :	3608	3609	3610	3611	3612	3613	3614	3615
3648 n^2/4:	3254416	3256220	3258025	3259830	3261636	3263442	3265249	3267056
3649 n :	3616	3617	3618	3619	3620	3621	3622	3623
3650 n^2/4:	3268864	3270672	3272481	3274290	3276100	3277910	3279721	3281532
3651 n :	3624	3625	3626	3627	3628	3629	3630	3631
3652 n^2/4:	3283344	3285156	3286969	3288782	3290596	3292410	3294225	3296040
3653 n :	3632	3633	3634	3635	3636	3637	3638	3639
3654 n^2/4:	3297856	3299672	3301489	3303306	3305124	3306942	3308761	3310580
3655 n :	3640	3641	3642	3643	3644	3645	3646	3647
3656 n^2/4:	3312400	3314220	3316041	3317862	3319684	3321506	3323329	3325152
3657 n :	3648	3649	3650	3651	3652	3653	3654	3655
3658 n^2/4:	3326976	3328800	3330625	3332450	3334276	3336102	3337929	3339756
3659 n :	3656	3657	3658	3659	3660	3661	3662	3663
3660 n^2/4:	3341584	3343412	3345241	3347070	3348900	3350730	3352561	3354392
3661 n :	3664	3665	3666	3667	3668	3669	3670	3671
3662 n^2/4:	3356224	3358056	3359889	3361722	3363556	3365390	3367225	3369060
3663 n :	3672	3673	3674	3675	3676	3677	3678	3679
3664 n^2/4:	3370896	3372732	3374569	3376406	3378244	3380082	3381921	3383760
3665 n :	3680	3681	3682	3683	3684	3685	3686	3687
3666 n^2/4:	3385600	3387440	3389281	3391122	3392964	3394806	3396649	3398492
3667 n :	3688	3689	3690	3691	3692	3693	3694	3695
3668 n^2/4:	3400336	3402180	3404025	3405870	3407716	3409562	3411409	3413256
3669 n :	3696	3697	3698	3699	3700	3701	3702	3703
3670 n^2/4:	3415104	3416952	3418801	3420650	3422500	3424350	3426201	3428052
3671 n :	3704	3705	3706	3707	3708	3709	3710	3711
3672 n^2/4:	3429904	3431756	3433609	3435462	3437316	3439170	3441025	3442880
3673 n :	3712	3713	3714	3715	3716	3717	3718	3719
3674 n^2/4:	3444736	3446592	3448449	3450306	3452164	3454022	3455881	3457740
3675 n :	3720	3721	3722	3723	3724	3725	3726	3727
3676 n^2/4:	3459600	3461460	3463321	3465182	3467044	3468906	3470769	3472632
3677 n :	3728	3729	3730	3731	3732	3733	3734	3735
3678 n^2/4:	3474496	3476360	3478225	3480090	3481956	3483822	3485689	3487556
3679 n :	3736	3737	3738	3739	3740	3741	3742	3743
3680 n^2/4:	3489424	3491292	3493161	3495030	3496900	3498770	3500641	3502512
3681 n :	3744	3745	3746	3747	3748	3749	3750	3751
3682 n^2/4:	3504384	3506256	3508129	3510002	3511876	3513750	3515625	3517500

3947 n :	4808	4809	4810	4811	4812	4813	4814	4815
3948 n^2/4:	5779216	5781620	5784025	5786430	5788836	5791242	5793649	5796056
3949 n :	4816	4817	4818	4819	4820	4821	4822	4823
3950 n^2/4:	5798464	5800872	5803281	5805690	5808100	5810510	5812921	5815332
3951 n :	4824	4825	4826	4827	4828	4829	4830	4831
3952 n^2/4:	5817744	5820156	5822569	5824982	5827396	5829810	5832225	5834640
3953 n :	4832	4833	4834	4835	4836	4837	4838	4839
3954 n^2/4:	5837056	5839472	5841889	5844306	5846724	5849142	5851561	5853980
3955 n :	4840	4841	4842	4843	4844	4845	4846	4847
3956 n^2/4:	5856400	5858820	5861241	5863662	5866084	5868506	5870929	5873352
3957 n :	4848	4849	4850	4851	4852	4853	4854	4855
3958 n^2/4:	5875776	5878200	5880625	5883050	5885476	5887902	5890329	5892756
3959 n :	4856	4857	4858	4859	4860	4861	4862	4863
3960 n^2/4:	5895184	5897612	5900041	5902470	5904900	5907330	5909761	5912192
3961 n :	4864	4865	4866	4867	4868	4869	4870	4871
3962 n^2/4:	5914624	5917056	5919489	5921922	5924356	5926790	5929225	5931660
3963 n :	4872	4873	4874	4875	4876	4877	4878	4879
3964 n^2/4:	5934096	5936532	5938969	5941406	5943844	5946282	5948721	5951160
3965 n :	4880	4881	4882	4883	4884	4885	4886	4887
3966 n^2/4:	5953600	5956040	5958481	5960922	5963364	5965806	5968249	5970692
3967 n :	4888	4889	4890	4891	4892	4893	4894	4895
3968 n^2/4:	5973136	5975580	5978025	5980470	5982916	5985362	5987809	5990256
3969 n :	4896	4897	4898	4899	4900	4901	4902	4903
3970 n^2/4:	5992704	5995152	5997601	6000050	6002500	6004950	6007401	6009852
3971 n :	4904	4905	4906	4907	4908	4909	4910	4911
3972 n^2/4:	6012304	6014756	6017209	6019662	6022116	6024570	6027025	6029480
3973 n :	4912	4913	4914	4915	4916	4917	4918	4919
3974 n^2/4:	6031936	6034392	6036849	6039306	6041764	6044222	6046681	6049140
3975 n :	4920	4921	4922	4923	4924	4925	4926	4927
3976 n^2/4:	6051600	6054060	6056521	6058982	6061444	6063906	6066369	6068832
3977 n :	4928	4929	4930	4931	4932	4933	4934	4935
3978 n^2/4:	6071296	6073760	6076225	6078690	6081156	6083622	6086089	6088556
3979 n :	4936	4937	4938	4939	4940	4941	4942	4943
3980 n^2/4:	6091024	6093492	6095961	6098430	6100900	6103370	6105841	6108312
3981 n :	4944	4945	4946	4947	4948	4949	4950	4951
3982 n^2/4:	6110784	6113256	6115729	6118202	6120676	6123150	6125625	6128100
3983 n :	4952	4953	4954	4955	4956	4957	4958	4959
3984 n^2/4:	6130576	6133052	6135529	6138006	6140484	6142962	6145441	6147920
3985 n :	4960	4961	4962	4963	4964	4965	4966	4967
3986 n^2/4:	6150400	6152880	6155361	6157842	6160324	6162806	6165289	6167772
3987 n :	4968	4969	4970	4971	4972	4973	4974	4975
3988 n^2/4:	6170256	6172740	6175225	6177710	6180196	6182682	6185169	6187656
3989 n :	4976	4977	4978	4979	4980	4981	4982	4983
3990 n^2/4:	6190144	6192632	6195121	6197610	6200100	6202590	6205081	6207572
3991 n :	4984	4985	4986	4987	4988	4989	4990	4991
3992 n^2/4:	6210064	6212556	6215049	6217542	6220036	6222530	6225025	6227520
3993 n :	4992	4993	4994	4995	4996	4997	4998	4999
3994 n^2/4:	6230016	6232512	6235009	6237506	6240004	6242502	6245001	6247500
3995 n :	5000	5001	5002	5003	5004	5005	5006	5007
3996 n^2/4:	6250000	6252500	6255001	6257502	6260004	6262506	6265009	6267512
3997 n :	5008	5009	5010	5011	5012	5013	5014	5015
3998 n^2/4:	6270016	6272520	6275025	6277530	6280036	6282542	6285049	6287556
3999 n :	5016	5017	5018	5019	5020	5021	5022	5023
4000 n^2/4:	6290064	6292572	6295081	6297590	6300100	6302610	6305121	6307632
4001 n :	5024	5025	5026	5027	5028	5029	5030	5031
4002 n^2/4:	6310144	6312656	6315169	6317682	6320196	6322710	6325225	6327740
4003 n :	5032	5033	5034	5035	5036	5037	5038	5039
4004 n^2/4:	6330256	6332772	6335289	6337806	6340324	6342842	6345361	6347880
4005 n :	5040	5041	5042	5043	5044	5045	5046	5047
4006 n^2/4:	6350400	6352920	6355441	6357962	6360484	6363006	6365529	6368052
4007 n :	5048	5049	5050	5051	5052	5053	5054	5055
4008 n^2/4:	6370576	6373100	6375625	6378150	6380676	6383202	6385729	6388256
4009 n :	5056	5057	5058	5059	5060	5061	5062	5063
4010 n^2/4:	6390784	6393312	6395841	6398370	6400900	6403430	6405961	6408492
4011 n :	5064	5065	5066	5067	5068	5069	5070	5071
4012 n^2/4:	6411024	6413556	6416089	6418622	6421156	6423690	6426225	6428760
4013 n :	5072	5073	5074	5075	5076	5077	5078	5079
4014 n^2/4:	6431296	6433832	6436369	6438906	6441444	6443982	6446521	6449060
4015 n :	5080	5081	5082	5083	5084	5085	5086	5087
4016 n^2/4:	6451600	6454140	6456681	6459222	6461764	6464306	6466849	6469392
4017 n :	5088	5089	5090	5091	5092	5093	5094	5095
4018 n^2/4:	6471936	6474480	6477025	6479570	6482116	6484662	6487209	6489756
4019 n :	5096	5097	5098	5099	5100	5101	5102	5103
4020 n^2/4:	6492304	6494852	6497401	6499950	6502500	6505050	6507601	6510152
4021 n :	5104	5105	5106	5107	5108	5109	5110	5111
4022 n^2/4:	6512704	6515256	6517809	6520362	6522916	6525470	6528025	6530580
4023 n :	5112	5113	5114	5115	5116	5117	5118	5119
4024 n^2/4:	6533136	6535692	6538249	6540806	6543364	6545922	6548481	6551040
4025 n :	5120	5121	5122	5123	5124	5125	5126	5127
4026 n^2/4:	6553600	6556160	6558721	6561282	6563844	6566406	6568969	6571532
4027 n :	5128	5129	5130	5131	5132	5133	5134	5135
4028 n^2/4:	6574096	6576660	6579225	6581790	6584356	6586922	6589489	6592056
4029 n :	5136	5137	5138	5139	5140	5141	5142	5143
4030 n^2/4:	6594624	6597192	6599761	6602330	6604900	6607470	6610041	6612612
4031 n :	5144	5145	5146	5147	5148	5149	5150	5151
4032 n^2/4:	6615184	6617756	6620329	6622902	6625476	6628050	6630625	6633200
4033 n :	5152	5153	5154	5155	5156	5157	5158	5159
4034 n^2/4:	6635776	6638352	6640929	6643506	6646084	6648662	6651241	6653820

4123 n :	5512	5513	5514	5515	5516	5517	5518	5519
4124 n^2/4:	7595536	7598292	7601049	7603806	7606564	7609322	7612081	7614840
4125 n :	5520	5521	5522	5523	5524	5525	5526	5527
4126 n^2/4:	7617600	7620360	7623121	7625882	7628644	7631406	7634169	7636932
4127 n :	5528	5529	5530	5531	5532	5533	5534	5535
4128 n^2/4:	7639696	7642460	7645225	7647990	7650756	7653522	7656289	7659056
4129 n :	5536	5537	5538	5539	5540	5541	5542	5543
4130 n^2/4:	7661824	7664592	7667361	7670130	7672900	7675670	7678441	7681212
4131 n :	5544	5545	5546	5547	5548	5549	5550	5551
4132 n^2/4:	7683984	7686756	7689529	7692302	7695076	7697850	7700625	7703400
4133 n :	5552	5553	5554	5555	5556	5557	5558	5559
4134 n^2/4:	7706176	7708952	7711729	7714506	7717284	7720062	7722841	7725620
4135 n :	5560	5561	5562	5563	5564	5565	5566	5567
4136 n^2/4:	7728400	7731180	7733961	7736742	7739524	7742306	7745089	7747872
4137 n :	5568	5569	5570	5571	5572	5573	5574	5575
4138 n^2/4:	7750656	7753440	7756225	7759010	7761796	7764582	7767369	7770156
4139 n :	5576	5577	5578	5579	5580	5581	5582	5583
4140 n^2/4:	7772944	7775732	7778521	7781310	7784100	7786890	7789681	7792472
4141 n :	5584	5585	5586	5587	5588	5589	5590	5591
4142 n^2/4:	7795264	7798056	7800849	7803642	7806436	7809230	7812025	7814820
4143 n :	5592	5593	5594	5595	5596	5597	5598	5599
4144 n^2/4:	7817616	7820412	7823209	7826006	7828804	7831602	7834401	7837200
4145 n :	5600	5601	5602	5603	5604	5605	5606	5607
4146 n^2/4:	7840000	7842800	7845601	7848402	7851204	7854006	7856809	7859612
4147 n :	5608	5609	5610	5611	5612	5613	5614	5615
4148 n^2/4:	7862416	7865220	7868025	7870830	7873636	7876442	7879249	7882056
4149 n :	5616	5617	5618	5619	5620	5621	5622	5623
4150 n^2/4:	7884864	7887672	7890481	7893290	7896100	7898910	7901721	7904532
4151 n :	5624	5625	5626	5627	5628	5629	5630	5631
4152 n^2/4:	7907344	7910156	7912969	7915782	7918596	7921410	7924225	7927040
4153 n :	5632	5633	5634	5635	5636	5637	5638	5639
4154 n^2/4:	7929856	7932672	7935489	7938306	7941124	7943942	7946761	7949580
4155 n :	5640	5641	5642	5643	5644	5645	5646	5647
4156 n^2/4:	7952400	7955220	7958041	7960862	7963684	7966506	7969329	7972152
4157 n :	5648	5649	5650	5651	5652	5653	5654	5655
4158 n^2/4:	7974976	7977800	7980625	7983450	7986276	7989102	7991929	7994756
4159 n :	5656	5657	5658	5659	5660	5661	5662	5663
4160 n^2/4:	7997584	8000412	8003241	8006070	8008900	8011730	8014561	8017392
4161 n :	5664	5665	5666	5667	5668	5669	5670	5671
4162 n^2/4:	8020224	8023056	8025889	8028722	8031556	8034390	8037225	8040060
4163 n :	5672	5673	5674	5675	5676	5677	5678	5679
4164 n^2/4:	8042896	8045732	8048569	8051406	8054244	8057082	8059921	8062760
4165 n :	5680	5681	5682	5683	5684	5685	5686	5687
4166 n^2/4:	8065600	8068440	8071281	8074122	8076964	8079806	8082649	8085492
4167 n :	5688	5689	5690	5691	5692	5693	5694	5695
4168 n^2/4:	8088336	8091180	8094025	8096870	8099716	8102562	8105409	8108256
4169 n :	5696	5697	5698	5699	5700	5701	5702	5703
4170 n^2/4:	8111104	8113952	8116801	8119650	8122500	8125350	8128201	8131052
4171 n :	5704	5705	5706	5707	5708	5709	5710	5711
4172 n^2/4:	8133904	8136756	8139609	8142462	8145316	8148170	8151025	8153880
4173 n :	5712	5713	5714	5715	5716	5717	5718	5719
4174 n^2/4:	8156736	8159592	8162449	8165306	8168164	8171022	8173881	8176740
4175 n :	5720	5721	5722	5723	5724	5725	5726	5727
4176 n^2/4:	8179600	8182460	8185321	8188182	8191044	8193906	8196769	8199632
4177 n :	5728	5729	5730	5731	5732	5733	5734	5735
4178 n^2/4:	8202496	8205360	8208225	8211090	8213956	8216822	8219689	8222556
4179 n :	5736	5737	5738	5739	5740	5741	5742	5743
4180 n^2/4:	8225424	8228292	8231161	8234030	8236900	8239770	8242641	8245512
4181 n :	5744	5745	5746	5747	5748	5749	5750	5751
4182 n^2/4:	8248384	8251256	8254129	8257002	8259876	8262750	8265625	8268500
4183 n :	5752	5753	5754	5755	5756	5757	5758	5759
4184 n^2/4:	8271376	8274252	8277129	8280006	8282884	8285762	8288641	8291520
4185 n :	5760	5761	5762	5763	5764	5765	5766	5767
4186 n^2/4:	8294400	8297280	8300161	8303042	8305924	8308806	8311689	8314572
4187 n :	5768	5769	5770	5771	5772	5773	5774	5775
4188 n^2/4:	8317456	8320340	8323225	8326110	8328996	8331882	8334769	8337656
4189 n :	5776	5777	5778	5779	5780	5781	5782	5783
4190 n^2/4:	8340544	8343432	8346321	8349210	8352100	8354990	8357881	8360772
4191 n :	5784	5785	5786	5787	5788	5789	5790	5791
4192 n^2/4:	8363664	8366556	8369449	8372342	8375236	8378130	8381025	8383920
4193 n :	5792	5793	5794	5795	5796	5797	5798	5799
4194 n^2/4:	8386816	8389712	8392609	8395506	8398404	8401302	8404201	8407100
4195 n :	5800	5801	5802	5803	5804	5805	5806	5807
4196 n^2/4:	8410000	8412900	8415801	8418702	8421604	8424506	8427409	8430312
4197 n :	5808	5809	5810	5811	5812	5813	5814	5815
4198 n^2/4:	8433216	8436120	8439025	8441930	8444836	8447742	8450649	8453556
4199 n :	5816	5817	5818	5819	5820	5821	5822	5823
4200 n^2/4:	8456464	8459372	8462281	8465190	8468100	8471010	8473921	8476832
4201 n :	5824	5825	5826	5827	5828	5829	5830	5831
4202 n^2/4:	8479744	8482656	8485569	8488482	8491396	8494310	8497225	8500140
4203 n :	5832	5833	5834	5835	5836	5837	5838	5839
4204 n^2/4:	8503056	8505972	8508889	8511806	8514724	8517642	8520561	8523480
4205 n :	5840	5841	5842	5843	5844	5845	5846	5847
4206 n^2/4:	8526400	8529320	8532241	8535162	8538084	8541006	8543929	8546852
4207 n :	5848	5849	5850	5851	5852	5853	5854	5855
4208 n^2/4:	8549776	8552700	8555625	8558550	8561476	8564402	8567329	8570256
4209 n :	5856	5857	5858	5859	5860	5861	5862	5863
4210 n^2/4:	8573184	8576112	8579041	8581970	8584900	8587830	8590761	8593692

4211 n :	5864	5865	5866	5867	5868	5869	5870	5871
4212 n^2/4:	8596624	8599556	8602489	8605422	8608356	8611290	8614225	8617160
4213 n :	5872	5873	5874	5875	5876	5877	5878	5879
4214 n^2/4:	8620096	8623032	8625969	8628906	8631844	8634782	8637721	8640660
4215 n :	5880	5881	5882	5883	5884	5885	5886	5887
4216 n^2/4:	8643600	8646540	8649481	8652422	8655364	8658306	8661249	8664192
4217 n :	5888	5889	5890	5891	5892	5893	5894	5895
4218 n^2/4:	8667136	8670080	8673025	8675970	8678916	8681862	8684809	8687756
4219 n :	5896	5897	5898	5899	5900	5901	5902	5903
4220 n^2/4:	8690704	8693652	8696601	8699550	8702500	8705450	8708401	8711352
4221 n :	5904	5905	5906	5907	5908	5909	5910	5911
4222 n^2/4:	8714304	8717256	8720209	8723162	8726116	8729070	8732025	8734980
4223 n :	5912	5913	5914	5915	5916	5917	5918	5919
4224 n^2/4:	8737936	8740892	8743849	8746806	8749764	8752722	8755681	8758640
4225 n :	5920	5921	5922	5923	5924	5925	5926	5927
4226 n^2/4:	8761600	8764560	8767521	8770482	8773444	8776406	8779369	8782332
4227 n :	5928	5929	5930	5931	5932	5933	5934	5935
4228 n^2/4:	8785296	8788260	8791225	8794190	8797156	8800122	8803089	8806056
4229 n :	5936	5937	5938	5939	5940	5941	5942	5943
4230 n^2/4:	8809024	8811992	8814961	8817930	8820900	8823870	8826841	8829812
4231 n :	5944	5945	5946	5947	5948	5949	5950	5951
4232 n^2/4:	8832784	8835756	8838729	8841702	8844676	8847650	8850625	8853600
4233 n :	5952	5953	5954	5955	5956	5957	5958	5959
4234 n^2/4:	8856576	8859552	8862529	8865506	8868484	8871462	8874441	8877420
4235 n :	5960	5961	5962	5963	5964	5965	5966	5967
4236 n^2/4:	8880400	8883380	8886361	8889342	8892324	8895306	8898289	8901272
4237 n :	5968	5969	5970	5971	5972	5973	5974	5975
4238 n^2/4:	8904256	8907240	8910225	8913210	8916196	8919182	8922169	8925156
4239 n :	5976	5977	5978	5979	5980	5981	5982	5983
4240 n^2/4:	8928144	8931132	8934121	8937110	8940100	8943090	8946081	8949072
4241 n :	5984	5985	5986	5987	5988	5989	5990	5991
4242 n^2/4:	8952064	8955056	8958049	8961042	8964036	8967030	8970025	8973020
4243 n :	5992	5993	5994	5995	5996	5997	5998	5999
4244 n^2/4:	8976016	8979012	8982009	8985006	8988004	8991002	8994001	8997000
4245 n :	6000	6001	6002	6003	6004	6005	6006	6007
4246 n^2/4:	9000000	9003000	9006001	9009002	9012004	9015006	9018009	9021012
4247 n :	6008	6009	6010	6011	6012	6013	6014	6015
4248 n^2/4:	9024016	9027020	9030025	9033030	9036036	9039042	9042049	9045056
4249 n :	6016	6017	6018	6019	6020	6021	6022	6023
4250 n^2/4:	9048064	9051072	9054081	9057090	9060100	9063110	9066121	9069132
4251 n :	6024	6025	6026	6027	6028	6029	6030	6031
4252 n^2/4:	9072144	9075156	9078169	9081182	9084196	9087210	9090225	9093240
4253 n :	6032	6033	6034	6035	6036	6037	6038	6039
4254 n^2/4:	9096256	9099272	9102289	9105306	9108324	9111342	9114361	9117380
4255 n :	6040	6041	6042	6043	6044	6045	6046	6047
4256 n^2/4:	9120400	9123420	9126441	9129462	9132484	9135506	9138529	9141552
4257 n :	6048	6049	6050	6051	6052	6053	6054	6055
4258 n^2/4:	9144576	9147600	9150625	9153650	9156676	9159702	9162729	9165756
4259 n :	6056	6057	6058	6059	6060	6061	6062	6063
4260 n^2/4:	9168784	9171812	9174841	9177870	9180900	9183930	9186961	9189992
4261 n :	6064	6065	6066	6067	6068	6069	6070	6071
4262 n^2/4:	9193024	9196056	9199089	9202122	9205156	9208190	9211225	9214260
4263 n :	6072	6073	6074	6075	6076	6077	6078	6079
4264 n^2/4:	9217296	9220332	9223369	9226406	9229444	9232482	9235521	9238560
4265 n :	6080	6081	6082	6083	6084	6085	6086	6087
4266 n^2/4:	9241600	9244640	9247681	9250722	9253764	9256806	9259849	9262892
4267 n :	6088	6089	6090	6091	6092	6093	6094	6095
4268 n^2/4:	9265936	9268980	9272025	9275070	9278116	9281162	9284209	9287256
4269 n :	6096	6097	6098	6099	6100	6101	6102	6103
4270 n^2/4:	9290304	9293352	9296401	9299450	9302500	9305550	9308601	9311652
4271 n :	6104	6105	6106	6107	6108	6109	6110	6111
4272 n^2/4:	9314704	9317756	9320809	9323862	9326916	9329970	9333025	9336080
4273 n :	6112	6113	6114	6115	6116	6117	6118	6119
4274 n^2/4:	9339136	9342192	9345249	9348306	9351364	9354422	9357481	9360540
4275 n :	6120	6121	6122	6123	6124	6125	6126	6127
4276 n^2/4:	9363600	9366660	9369721	9372782	9375844	9378906	9381969	9385032
4277 n :	6128	6129	6130	6131	6132	6133	6134	6135
4278 n^2/4:	9388096	9391160	9394225	9397290	9400356	9403422	9406489	9409556
4279 n :	6136	6137	6138	6139	6140	6141	6142	6143
4280 n^2/4:	9412624	9415692	9418761	9421830	9424900	9427970	9431041	9434112
4281 n :	6144	6145	6146	6147	6148	6149	6150	6151
4282 n^2/4:	9437184	9440256	9443329	9446402	9449476	9452550	9455625	9458700
4283 n :	6152	6153	6154	6155	6156	6157	6158	6159
4284 n^2/4:	9461776	9464852	9467929	9471006	9474084	9477162	9480241	9483320
4285 n :	6160	6161	6162	6163	6164	6165	6166	6167
4286 n^2/4:	9486400	9489480	9492561	9495642	9498724	9501806	9504889	9507972
4287 n :	6168	6169	6170	6171	6172	6173	6174	6175
4288 n^2/4:	9511056	9514140	9517225	9520310	9523396	9526482	9529569	9532656
4289 n :	6176	6177	6178	6179	6180	6181	6182	6183
4290 n^2/4:	9535744	9538832	9541921	9545010	9548100	9551190	9554281	9557372
4291 n :	6184	6185	6186	6187	6188	6189	6190	6191
4292 n^2/4:	9560464	9563556	9566649	9569742	9572836	9575930	9579025	9582120
4293 n :	6192	6193	6194	6195	6196	6197	6198	6199
4294 n^2/4:	9585216	9588312	9591409	9594506	9597604	9600702	9603801	9606900
4295 n :	6200	6201	6202	6203	6204	6205	6206	6207
4296 n^2/4:	9610000	9613100	9616201	9619302	9622404	9625506	9628609	9631712
4297 n :	6208	6209	6210	6211	6212	6213	6214	6215
4298 n^2/4:	9634816	9637920	9641025	9644130	9647236	9650342	9653449	9656556

4299 n : 6216 6217 6218 6219 6220 6221 6222 6223
4300 n^2/4: 9659664 9662772 9665881 9668990 9672100 9675210 9678321 9681432
4301 n : 6224 6225 6226 6227 6228 6229 6230 6231
4302 n^2/4: 9684544 9687656 9690769 9693882 9696996 9700110 9703225 9706340
4303 n : 6232 6233 6234 6235 6236 6237 6238 6239
4304 n^2/4: 9709456 9712572 9715689 9718806 9721924 9725042 9728161 9731280
4305 n : 6240 6241 6242 6243 6244 6245 6246 6247
4306 n^2/4: 9734400 9737520 9740641 9743762 9746884 9750006 9753129 9756252
4307 n : 6248 6249 6250 6251 6252 6253 6254 6255
4308 n^2/4: 9759376 9762500 9765625 9768750 9771876 9775002 9778129 9781256
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4310 n^2/4: 9784384 9787512 9790641 9793770 9796900 9800030 9803161 9806292
4311 n : 6264 6265 6266 6267 6268 6269 6270 6271
4312 n^2/4: 9809424 9812556 9815689 9818822 9821956 9825090 9828225 9831360
4313 n : 6272 6273 6274 6275 6276 6277 6278 6279
4314 n^2/4: 9834496 9837632 9840769 9843906 9847044 9850182 9853321 9856460
4315 n : 6280 6281 6282 6283 6284 6285 6286 6287
4316 n^2/4: 9859600 9862740 9865881 9869022 9872164 9875306 9878449 9881592
4317 n : 6288 6289 6290 6291 6292 6293 6294 6295
4318 n^2/4: 9884736 9887880 9891025 9894170 9897316 9900462 9903609 9906756
4319 n : 6296 6297 6298 6299 6300 6301 6302 6303
4320 n^2/4: 9909904 9913052 9916201 9919350 9922500 9925650 9928801 9931952
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4322 n^2/4: 9935104 9938256 9941409 9944562 9947716 9950870 9954025 9957180
4323 n : 6312 6313 6314 6315 6316 6317 6318 6319
4324 n^2/4: 9960336 9963492 9966649 9969806 9972964 9976122 9979281 9982440
4325 n : 6320 6321 6322 6323 6324 6325 6326 6327
4326 n^2/4: 9985600 9988760 9991921 9995082 9998244 10001406 10004569 10007732
4327 n : 6328 6329 6330 6331 6332 6333 6334 6335
4328 n^2/4: 10010896 10014060 10017225 10020390 10023556 10026722 10029889 10033056
4329 n : 6336 6337 6338 6339 6340 6341 6342 6343
4330 n^2/4: 10036224 10039392 10042561 10045730 10048900 10052070 10055241 10058412
4331 n : 6344 6345 6346 6347 6348 6349 6350 6351
4332 n^2/4: 10061584 10064756 10067929 10071102 10074276 10077450 10080625 10083800
4333 n : 6352 6353 6354 6355 6356 6357 6358 6359
4334 n^2/4: 10086976 10090152 10093329 10096506 10099684 10102862 10106041 10109220
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4336 n^2/4: 10112400 10115580 10118761 10121942 10125124 10128306 10131489 10134672
4337 n : 6368 6369 6370 6371 6372 6373 6374 6375
4338 n^2/4: 10137856 10141040 10144225 10147410 10150596 10153782 10156969 10160156
4339 n : 6376 6377 6378 6379 6380 6381 6382 6383
4340 n^2/4: 10163344 10166532 10169721 10172910 10176100 10179290 10182481 10185672
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4342 n^2/4: 10188864 10192056 10195249 10198442 10201636 10204830 10208025 10211220
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4346 n^2/4: 10240000 10243200 10246401 10249602 10252804 10256006 10259209 10262412
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4348 n^2/4: 10265616 10268820 10272025 10275230 10278436 10281642 10284849 10288056
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4350 n^2/4: 10291264 10294472 10297681 10300890 10304100 10307310 10310521 10313732
4351 n : 6424 6425 6426 6427 6428 6429 6430 6431
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7692 n^2/4: 97851664 97861556 97871449 97881342 97891236 97901130 97911025 97920920
7693 n : 19792 19793 19794 19795 19796 19797 19798 19799
7694 n^2/4: 97930816 97940712 97950609 97960506 97970404 97980302 97990201 98000100
7695 n : 19800 19801 19802 19803 19804 19805 19806 19807
7696 n^2/4: 98010000 98019900 98029801 98039702 98049604 98059506 98069409 98079312
7697 n : 19808 19809 19810 19811 19812 19813 19814 19815
7698 n^2/4: 98089216 98099120 98109025 98118930 98128836 98138742 98148649 98158556
7699 n : 19816 19817 19818 19819 19820 19821 19822 19823
7700 n^2/4: 98168464 98178372 98188281 98198190 98208100 98218010 98227921 98237832
7701 n : 19824 19825 19826 19827 19828 19829 19830 19831
7702 n^2/4: 98247744 98257656 98267569 98277482 98287396 98297310 98307225 98317140
7703 n : 19832 19833 19834 19835 19836 19837 19838 19839
7704 n^2/4: 98327056 98336972 98346889 98356806 98366724 98376642 98386561 98396480
7705 n : 19840 19841 19842 19843 19844 19845 19846 19847
7706 n^2/4: 98406400 98416320 98426241 98436162 98446084 98456006 98465929 98475852
7707 n : 19848 19849 19850 19851 19852 19853 19854 19855
7708 n^2/4: 98485776 98495700 98505625 98515550 98525476 98535402 98545329 98555256
7709 n : 19856 19857 19858 19859 19860 19861 19862 19863
7710 n^2/4: 98565184 98575112 98585041 98594970 98604900 98614830 98624761 98634692
7711 n : 19864 19865 19866 19867 19868 19869 19870 19871
7712 n^2/4: 98644624 98654556 98664489 98674422 98684356 98694290 98704225 98714160
7713 n : 19872 19873 19874 19875 19876 19877 19878 19879
7714 n^2/4: 98724096 98734032 98743969 98753906 98763844 98773782 98783721 98793660
7715 n : 19880 19881 19882 19883 19884 19885 19886 19887
7716 n^2/4: 98803600 98813540 98823481 98833422 98843364 98853306 98863249 98873192
7717 n : 19888 19889 19890 19891 19892 19893 19894 19895
7718 n^2/4: 98883136 98893080 98903025 98912970 98922916 98932862 98942809 98952756
7719 n : 19896 19897 19898 19899 19900 19901 19902 19903
7720 n^2/4: 98962704 98972652 98982601 98992550 99002500 99012450 99022401 99032352
7721 n : 19904 19905 19906 19907 19908 19909 19910 19911
7722 n^2/4: 99042304 99052256 99062209 99072162 99082116 99092070 99102025 99111980
7723 n : 19912 19913 19914 19915 19916 19917 19918 19919
7724 n^2/4: 99121936 99131892 99141849 99151806 99161764 99171722 99181681 99191640
7725 n : 19920 19921 19922 19923 19924 19925 19926 19927
7726 n^2/4: 99201600 99211560 99221521 99231482 99241444 99251406 99261369 99271332
7727 n : 19928 19929 19930 19931 19932 19933 19934 19935
7728 n^2/4: 99281296 99291260 99301225 99311190 99321156 99331122 99341089 99351056
7729 n : 19936 19937 19938 19939 19940 19941 19942 19943
7730 n^2/4: 99361024 99370992 99380961 99390930 99400900 99410870 99420841 99430812

```

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7731 n : 19944 19945 19946 19947 19948 19949 19950 19951
7732 n^2/4: 99440784 99450756 99460729 99470702 99480676 99490650 99500625 99510600
7733 n : 19952 19953 19954 19955 19956 19957 19958 19959
7734 n^2/4: 99520576 99530552 99540529 99550506 99560484 99570462 99580441 99590420
7735 n : 19960 19961 19962 19963 19964 19965 19966 19967
7736 n^2/4: 99600400 99610380 99620361 99630342 99640324 99650306 99660289 99670272
7737 n : 19968 19969 19970 19971 19972 19973 19974 19975
7738 n^2/4: 99680256 99690240 99700225 99710210 99720196 99730182 99740169 99750156
7739 n : 19976 19977 19978 19979 19980 19981 19982 19983
7740 n^2/4: 99760144 99770132 99780121 99790110 99800100 99810090 99820081 99830072
7741 n : 19984 19985 19986 19987 19988 19989 19990 19991
7742 n^2/4: 99840064 99850056 99860049 99870042 99880036 99890030 99900025 99910020
7743 n : 19992 19993 19994 19995 19996 19997 19998
7744 n^2/4: 99920016 99930012 99940009 99950006 99960004 99970002 99980001

```

```

7745
7746 D: \_KAZE\MokujIN>
7747 */
7748
7749
7750 //int nthreads, tid;
7751 //
7752 /** Fork a team of threads with each thread having a private tid variable */
7753 // #pragma omp parallel private(tid)
7754 // {
7755 //
7756 // /* Obtain and print thread id */
7757 // tid = omp_get_thread_num();
7758 // printf("Hello World from thread = %d\n", tid);
7759 //
7760 // /* Only master thread does this */
7761 // if (tid == 0)
7762 // {
7763 // nthreads = omp_get_num_threads();
7764 // printf("Number of threads = %d\n", nthreads);
7765 // }
7766 //
7767 // } /* All threads join master thread and terminate */
7768
7769 /*
7770 for (i=0; i < N; i++) {
7771 a[i] = i;
7772 b[i] = i;
7773 }
7774
7775 #pragma omp parallel shared(a,b,c,d) private(i)
7776 {
7777 #pragma omp sections nowait
7778 {
7779
7780 #pragma omp section
7781 for (i=0; i < N; i++) {
7782 d[i] = a[i] * b[i];
7783 printf("i: d vector: %i: %f\n", i, d[i]);
7784 }
7785
7786 #pragma omp section
7787 for (i=0; i < N; i++) {
7788 c[i] = a[i] + b[i];
7789 printf("i: c vector: %i: %f\n", i, c[i]);
7790 }
7791 }
7792 }
7793 }
7794
7795 D: \_KAZE\MokujIN\MPexamples>icl /Ox OpenMP2.c /Qopenmp /Qopenmp-link:static
7796 Intel(R) C++ Compiler XE for applications running on IA-32, Version 12.1.1.258 Build 20111011
7797 Copyright (C) 1985-2011 Intel Corporation. All rights reserved.
7798 icl: command line remark #10010: option '/Qopenmp-link:static' is deprecated and will be removed in a future release. See '/help deprecated'
7799
7800 OpenMP2.c
7801 Microsoft (R) Incremental Linker Version 10.00.30319.01
7802 Copyright (C) Microsoft Corporation. All rights reserved.
7803
7804 -out: OpenMP2.exe
7805 -nodefaultlib: libiomp5mt.lib
7806 -nodefaultlib: libiomp5md.lib
7807 -defaultlib: libiomp5mt.lib
7808 -nodefaultlib: vcomp.lib
7809 -nodefaultlib: vcompd.lib
7810 OpenMP2.obj
7811 D: \_KAZE\MokujIN\MPexamples>OpenMP2.exe
7812 i: d vector: 0: 0.000000
7813 i: c vector: 0: 0.000000
7814 i: d vector: 1: 1.000000
7815 i: c vector: 1: 2.000000
7816 i: d vector: 2: 4.000000
7817 i: c vector: 2: 4.000000
7818 i: d vector: 3: 9.000000

```

```
7819 i: c vector: 3: 6.000000
7820 i: d vector: 4: 16.000000
7821 i: c vector: 4: 8.000000
7822 i: d vector: 5: 25.000000
7823 i: c vector: 5: 10.000000
7824 */
7825
7826 // MIT.Press.Using.OpenMP.Portable.Shared.Memory.Parallel.Programming.pdf
7827 // #pragma omp parallel shared(n) private(i)
7828 // {
7829 // #pragma omp for
7830 // for (i=0; i<n; i++)
7831 // printf("Thread %d executes loop iteration %d\n",
7832 // omp_get_thread_num(), i);
7833 // }
7834 // Example of a work-sharing loop - Each thread executes a subset of the total iteration space i = 0, ... , n - 1.
```