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Since Rijndael was accepted as the new Advanced Encryption Standard by the NIST, several techniques have been developed to attack it. One of the more controversial techniques is a relatively new mathematically based attack known as Extended Sparse Linearization, or XSL. Estimates for a successful attack on AES using XSL are extremely large (best estimate is 2^{100} encryptions), so no attempt to implement the attack has yet been made.

To show that the attack is viable, a reduced version of AES can be implemented and a modification of the XSL attack can be used on the reduced version. I have implemented the reduced version of AES, referred to as rAES, as well as the attack. In this document it will be shown that the attack fails. Since the attack failed on the reduced version, the result can be extended to show that it cannot be made on the full version either.

AN ANALYSIS OF A SPARSE LINEARIZATION ATTACK

ON THE ADVANCED ENCRYPTION STANDARD

by

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Approved by

____
Committee Chair

To my parents Tom and Bonnie Rednour

And

To Tavis Curry

APPROVAL PAGE

This Thesis has been approved by the following committee of the Faculty of the Graduate School at The University of North Carolina at Greensboro.

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CHAPTER I

INTRODUCTION

After investigating several cryptographic algorithms for possible research topics, the Advanced Encryption Standard (AES) was chosen. The AES was selected because it is relatively new and untested, providing the best opportunity in finding a research topic. Once the AES was chosen, the algorithm was examined in detail. The AES was implemented using Java so that the actual running of the algorithm for the encryption and decryption could be observed.

Then others' work into attacking the AES was examined. Several attack techniques have been proposed for the AES including Extended Linearization [4], Extended Sparse Linearization [4], power attacks [2], and a modification of the AES to improve the running time for Extended Sparse Linearization called the Better Encryption Standard (BES) [9]. While investigating the details of these approaches, several authors called for research into applying the XSL technique on a real system [3, 8, 11, 12], to see if it worked in an applied fashion and not just as theory. Therefore it was decided to pursue an attack that would be similar to XSL on an encryption algorithm like the AES to see if the attack works.

The Advanced Encryption Standard

In the late 1990's it became apparent to the National Institute of Standards and Technology (NIST) that the encryption standard, DES, was no longer sufficiently secure. Therefore they issued a request for an algorithm to replace DES. Once agreed upon the new standard would be referred to as the Advanced Encryption Standard. Several algorithms were submitted to become AES, and through a tiered process of elimination ultimately one was chosen. This was the submission from Joan Daemen and Vincent Rijmen and they called their algorithm Rijndael, a combination of both of their last names.

Some modifications were made that restricted the original Rijndael so the AES is not exactly the same as the original submission. For the purposes of this paper we are concerned with the final version in the AES, released by the NIST in November of 2001 [14]. The AES algorithm is a block cipher, which means that the original plaintext message is broken down into blocks of a fixed size, and then the algorithm processes the blocks individually. In the AES the block size is 128 bits. Each block is handled exactly the same way, so we need only concern ourselves with how one block is processed. The AES encryption performs several operations on the block, which are described as four steps. These steps are called SubBytes (Substitute Bytes), ShiftRows, MixColumns, and AddRoundKey. The steps are performed repeatedly on the block. Each repetition is referred to as a round. There is one deviance in the pattern of steps. In the last round the MixColumns step is not performed. Similarly, the AES decryption performs four steps, three of them are different, called InverseSubBytes, InverseShiftRows, InverseMixColumns, and the last step is the same as the encryption's AddRoundKey.

The first step of the encryption, SubBytes, breaks the 128-bit block into bytes and performs a substitution on each byte. This substitution is made using a look-up table called the SBox. For any byte, the first four bits represent the row in the table and the last four bits represent the column. The intersection of the row and column gives you the output byte. For example, the input byte 00101010 would be split into row 0010 and column 1010. For clarity the figure of the SBox below uses hexadecimal entries so we have row 2 and column A. As you can see in Figure 1, 2A maps to E5 so the output byte is 11100101.

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	63	7C	77	7B	F2	6B	6F	C5	30	01	67	2B	FE	D7	AB	76
1	CA	82	C9	7D	FA	59	47	F0	AD	D4	A2	AF	9C	A4	72	C0
2	B7	FD	93	26	36	3F	F7	CC	34	A5	E5	F1	71	D8	31	15
3	04	C7	23	C3	18	96	05	9A	07	12	80	E2	EB	27	B2	75
4	09	83	2C	1A	1B	6E	5A	A0	52	3B	D6	B3	29	E3	2F	84
5	53	D1	00	ED	20	FC	B1	5B	6A	CB	BE	39	4A	4C	58	CF
6	D0	EF	AA	FB	43	4D	33	85	45	F9	02	7F	50	3C	9F	A8
7	51	A3	40	8F	92	9D	38	F5	BC	B6	DA	21	10	FF	F3	D2
8	CD	0C	13	EC	5F	97	44	17	C4	A7	7E	3D	64	5D	19	73
9	60	81	4F	DC	22	2A	90	88	46	EE	B8	14	DE	5E	0B	DB
A	E0	32	3A	0A	49	06	24	5C	C2	D3	AC	62	91	95	E4	79
B	E7	C8	37	6D	8D	D5	4E	A9	6C	56	F4	EA	65	7A	AE	08
C	BA	78	25	2E	1C	A6	B4	C6	E8	DD	74	1F	4B	BD	8B	8A
D	70	3E	B5	66	48	03	F6	0E	61	35	57	B9	86	C1	1D	9E
E	E1	F8	98	11	69	D9	8E	94	9B	1E	87	E9	CE	55	28	DF
F	8C	A1	89	0D	BF	E6	42	68	41	99	2D	0F	B0	54	BB	16

Figure 1: The AES SBox

The second step, ShiftRows, takes the bytes in the block and mixes them within their own row. For this step, and the MixColumns step, it is simpler to understand the process if you consider the 128 bits of the block as a matrix, with four bytes per row and four bytes per column. As you can see in Figure 2, ShiftRows leaves the first row of the matrix alone, but the rest of the rows are shuffled. Each entry in the figure represents one byte, so that the top row is composed of bits 0-31 of the block, row two is bits 32-63, row three is bits 64-95, and row four is bits 96-127.

b0	b1	b2	b3
b4	b5	b6	b7
b8	b9	b10	b11
b12	b13	b14	b15

b0	b1	b2	b3
b5	b6	b7	b4
b10	b11	b8	b9
b15	b12	b13	b14

Figure 2: State matrix before and after ShiftRows.

The third step, MixColumns, performs mathematical operations on the columns of the result of the ShiftRows step. This is essentially a matrix multiplication. The input state matrix to MixColumns is multiplied by a given matrix and the result is the output of MixColumns. You can see the matrix used for the multiplication in Figure 3. For instance, the first entry in the output matrix would be calculated as follows:

$$(s_0 \cdot 02) \oplus (s_4 \cdot 03) \oplus s_8 \oplus s_{12}$$

where s_0 is the first byte from the ShiftRows output, s_4 is the fifth byte, and so on. The addition is done using a bit wise exclusive-or ($\oplus$). The matrix multiplication is done in the Galois Field GF(2^8).

02	03	01	01
01	02	03	01
01	01	02	03
03	01	01	02

Figure 3: MixColumns Matrix (in hexadecimal)

A field is a set with two binary operations, usually referred to as addition and multiplication, which operate on that set. The two operations must not have results that are outside of the set and there must be a multiplicative inverse for each element in the set [13]. A Galois Field is a finite field, which means that the set of elements of the field is finite. The set for GF(2^8) contains the integers from zero to 255.

One does not need to understand all the properties of a Galois Field in order to perform the multiplication, there a just two rules to use. First, one finds the results of multiplying the number by the powers of two. If the result is greater than 255, then an additional operation must be performed. This operation is to add the result to a given constant, and throw away the bits over eight.

For example,

$$4 \cdot 8 = 00000100 \cdot 00001000 = 00100000 = 32, \text{ but}$$

$$4 \cdot 64 = 00000100 \cdot 00100000 = 100000000$$

so we take that result and add it to the constant 100011011 as defined in the AES. Then one has $100000000 \oplus 100011011 = 00011011 = 27$.

To perform multiplications with numbers that aren't powers of two, one just use a bit-wise exclusive-or with the powers of two that make up that number. For example,

$$4 \cdot 6 = (00000100 \cdot 00000100) \oplus (00000100 \cdot 00000010) =$$

$$00010000 \oplus 00001000 = 00011000 = 24$$

which is what one would expect.

The last step is the AddRoundKey, which takes the result of the MixColumns step and performs an exclusive-or with a secret key. The secret key is where all the security of the AES lies. Without the secret key anyone could perform the above operations and get the same results. The secret key needs to be chosen then so that no one can guess it. The use of one secret key in this way makes the AES a private key system. This means that the key must be kept private. In the AES, the secret key is initially either 128, 192, or 256 bits long. An operation called ExpandRoundKey is performed on the key to generate several round keys. One round key is used in each of the AddRoundKey steps since the 4 steps are performed repeatedly. The number of times the four steps are repeated is based on the size of the initial key. Each repetition is referred to as a round. For a 128-bit key there are 10 rounds, for a 192-bit key there are 12 rounds, and for a 256-bit key there are 14 rounds. There original key is added to the plaintext before the first round, so there are actually 11, 13, and 15 keys used, respectively. Keep in mind, all the round keys are derived mathematically from the original key, so if you have either the round keys or the original key you can calculate the others.

j	1	2	3	4	5	6	7	8	9	10
$Rcon_j$	1	2	4	8	10	20	40	80	1B	36

Table 1: The Round Constants for the 10-round version of AES (in hexadecimal)

The ExpandRoundKey operation is performed only once. The operation works on a row of the original key at a time. A row is also referred to as a word, which is 32-bits long in the 128-bit key case. Therefore the original key can be expressed as four words, which we will call w_0, w_1, w_2, and w_3. We will index the round keys starting from w_4 for the first word of the first round key (so then the second round key starts at w_8.) The first three words in each round key are calculated the same way as follows:

$$w_i = w_{i-4} \oplus w_{i-1}$$

where i ranges from 0 to 44 for a 128-bit key. The last word in each round key uses a more complex calculation:

$$w_i = w_{i-4} \oplus \text{SubWord}(\text{RotWord}(w_{i-1})) \oplus Rcon_{i/4}$$

RotWord simply performs a one byte circular left shift on the word. SubWord uses the SBox to substitute each of the bytes for a new byte in the same way as described above. The $Rcon_{i/4}$ is a constant. The constants for the 128-bit key are given in Table 1.

All of the above refers to the encryption of data using the AES, but that is not very useful if you cannot perform a decryption that gives you back the original data. The decryption is very similar to the encryption, but it is not exactly the same. Essentially, all of the steps in the encryption must be performed backwards to get the plaintext again. The input to the decryption is the ciphertext. The last round key is added back to it since the inverse of exclusive-or is just another exclusive-or. Since we are undoing the last round, we do not need to perform the InverseMixColumns step yet, so we perform the InverseShiftRows step. This step just performs the shifts in the opposite direction as can be seen in Figure 4.

b0	b1	b2	b3
b4	b5	b6	b7
b8	b9	b10	b11
b12	b13	b14	b15

b0	b1	b2	b3
b7	b4	b5	b6
b10	b11	b8	b9
b13	b14	b15	b12

Figure 4: State matrix before and after InverseShiftRows.

The next step to perform is InverseSubBytes. This step works the same way as SubBytes but it uses the Inverse SBox to do the substitution. The

Inverse SBox can be seen in Figure 5. If we take the example from before you can see how the Inverse SBox reverses the SBox effect on the bits. So the input byte 11100101 would be split into row 1110 and column 0101. In hexadecimal this is row E column 5. As you can see in Figure 5, E5 maps to 2A, which is what we had input to the SBox before.

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	52	09	6A	D5	30	36	A5	38	BF	40	A3	9E	81	F3	D7	FB
1	7C	E3	39	82	9B	2F	FF	87	34	8E	43	44	C4	DE	E9	CB
2	54	7B	94	32	A6	C2	23	3D	EE	4C	95	0B	42	FA	C3	4E
3	08	2E	A1	66	28	D9	24	B2	76	5B	A2	49	6D	8B	D1	25
4	72	F8	F6	64	86	68	98	16	D4	A4	5C	CC	5D	65	B6	92
5	6C	70	48	50	FD	ED	B9	DA	5E	15	46	57	A7	8D	9D	84
6	90	D8	AB	00	8C	BC	D3	0A	F7	E4	58	05	B8	B3	45	06
7	D0	2C	1E	8F	CA	3F	0F	02	C1	AF	BD	03	01	13	8A	6B
8	3A	91	11	41	4F	67	DC	EA	97	F2	CF	CE	F0	B4	E6	73
9	96	AC	74	22	E7	AD	35	85	E2	F9	37	E8	1C	75	DF	6E
A	47	F1	1A	71	1D	29	C5	89	6F	B7	62	0E	AA	18	BE	1B
B	FC	56	3E	4B	C6	D2	79	20	9A	DB	C0	FE	78	CD	5A	F4
C	1F	DD	A8	33	88	07	C7	31	B1	12	10	59	27	80	EC	5F
D	60	51	7F	A9	19	B5	4A	0D	2D	E5	7A	9F	93	C9	9C	EF
E	A0	E0	3B	4D	AE	2A	F5	B0	C8	EB	BB	3C	83	53	99	61
F	17	2B	04	7E	BA	77	D6	26	E1	69	14	63	55	21	0C	7D

Figure 5: Inverse SBox

The third operation is to add the second to last round key to the output of the Inverse SBox. Now we are in the second to last round, so we need to perform the InverseMixColumns. InverseMixColumns works the same way as

MixColumns, but a different matrix is used for the multiplication. This matrix, shown in Figure 6, is the inverse of the MixColumns matrix.

From the second round of the decryption on all of the steps are performed, with an additional AddRoundKey done at the very end which will produce the plaintext message.

0E	0B	0D	09
09	0E	0B	0D
0D	09	0E	0B
0B	0D	09	0E

Figure 6: InverseMixColumns Matrix (in hexadecimal)

The Linearization Techniques

Once Rijndael was submitted to NIST, others began examining it for weaknesses. It was noted in [10] that Rijndael had an unusual structure that allows it to be expressed as equations because it can be broken into distinct parts. This observation led to a technique to attempt to break the encryption using these equations. One of the techniques proposed for an attack on Rijndael was Extended Linearization, or XL [4]. This technique was devised for other encryption algorithms and was applied to the AES in [4].

XL converts the operations performed on the block into linear equations. The derivation of the equations (which is the same for XL and XSL) is detailed in Chapter III. The hope is that this large system of equations can be solved, which results in obtaining the key. The system of equations is represented as a matrix since it is linear. A technique for diagonalizing the matrix, such as Gaussian Elimination, is applied to see if the system is solvable. If the system is solved then the key has been found and the encryption is cracked. If the system is not solved, an attempt to change the system so that it is solvable is made. This is done by solving the system for one term, then multiplying all of the equations by all the possible second order terms. If any new equations result, they are added to the system. Then the Gaussian Elimination is tried on the updated system. In this fashion the process repeats until the system is solved.

When analyzing the XL technique, the authors estimated that it would be better than brute force, but still outside the realm of feasibility. A second technique was designed by Courtois and Pieprzyk [4] to improve upon XL, which was termed XSL or Extended Sparse Linearization. This technique also attempts to solve a large system of linear equations to obtain the key, but it improves upon the method of increasing the number of equations to speed up the process. In both techniques the system of linear equations is considered sparse. This means that for any given equation in the system only a relatively small number of terms are present. Such a system is shown in Appendix A and you can see it is composed largely of zeroes, meaning those terms have a zero coefficient.

In XSL, once a certain number of linearly independent equations are determined for the system, the two alternating steps are used to solve the system. First, the same as XL, an algorithm to attempt to solve the matrix representing the equations is used, such as Gaussian Elimination. If the system is unsolvable, because there aren't enough equations compared to the number of terms, the T′ Method is used to increase the number of equations to enough to solve all of the terms in the system. The T′ Method is where XSL differs from XL. In this method the equations are all solved relative to two terms. This gives two equivalent systems. Next, the terms from the second system, instead of all possible terms, are used to increase the number of equations by multiplying the terms in the second system by the equations in the second system (see [16] for an example of this method). By repeating the Gaussian Elimination and T′ Method steps the hope is that eventually a solvable system will be created. For the AES the estimate given by Murphy and Robshaw for creating a solvable system is 2^{100} [9].

CHAPTER II

REDUCED AES

As was stated in the previous chapter, the estimate for the number of executions needed to find the key for the 10-round AES is 2^{100}. This is significantly less than a brute force attack, but it would still require too long to be feasible. To show whether or not there is an attack against the AES that works when applied, the running time of the attack needed to be reduced.

To decrease the running time to something that was feasible there are two choices, to modify the attack or to modify the algorithm the attack is on. For XSL the running time is tied to the size of the system of equations and the number of terms in those equations. Therefore if the number of equations and terms can be reduce then XSL should run more quickly. In order to reduce the number of equations and therefore the running time of XSL, I created a reduced version of AES, that we will call rAES. This version has all the same operations as the full version, but it manipulates four bits in place of bytes. Therefore all of the bit measurements are halved. The block size is 64 bits and the smallest key is 64 bits. The program was implemented to allow the number of rounds to be changed as well. For the 64 bit key anywhere from one to ten rounds can be executed. The hope was that the combination of reducing the block size and the number of rounds would allow the equations to be solved in a feasible amount of time.

In order to convert AES to four bits, several parts of the algorithm had to be modified. Of course all of the manipulations had to be altered to take four bits instead of a byte, but more complex changes had to be made to the SBox, the Galois Field had to be changed, and the round constants had to be recalculated. The authors of Rijndael were thorough and included their rationale for the choice of SBox and round constants, so the 4-bit version was created to also meet those criteria [13, 14]. Both the encryption and decryption steps for rAES were created. The reduced algorithm was kept as close to the full version at every opportunity in order to ensure it's behavior would be as close to equivalent as possible.

For the AES [14], the SBox was derived following three steps. The first step is to fill the SBox with the values from 00000000 through 11111111 going across the columns and then down the rows, so the first row in hexadecimal is 00, 01, 02, 03, …, 0F and the second row is 10, 11, 12, 13, ..., 1F. Next, all of the entries are changed to their multiplicative inverse over the Galois Field. Finally an equation is used to manipulate the bits of each byte. The equation exclusive-ors specific bits in each byte and adds them to a constant as follows:

$$y_i = x_i \oplus x_{(i+4) \bmod 8} \oplus x_{(i+5) \bmod 8} \oplus x_{(i+6) \bmod 8} \oplus x_{(i+7) \bmod 8} \oplus c_i$$

where x_i represents the input bits, numbered so that the byte 10010000 would have $x_7 = 1$ and $x_4 = 1$ with the other x_i equal to zero. The value y_i is the output bit that is used as part of the SBox entry for that byte and c_i is a constant, given as the hexadecimal number 63. The rationale given for this choice was so that the correlation between the input byte and the output byte could not be easily expressed as a mathematical function [13, 14]. The specific choice of which bits to use and what constant to use were chosen to prevent the SBox from having any mappings where $\mathrm{SubBytes}(x) = x$ and no mappings where $\mathrm{SubBytes}(x) = \bar{x}$ (means the 1's in x become 0's in $\bar{x}$ and the 0's in x become 1's in $\bar{x}$.) Finally, the SBox was designed so that the inverse SBox, used for decryption, would not have a case where $\mathrm{ISBox}(x) = \mathrm{SBox}(x)$.

x	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2	0	2	4	6	8	10	12	14	3	1	7	5	11	9	15	13
3	0	3	6	9	12	15	10	9	11	8	13	14	7	4	1	2
4	0	4	8	12	3	7	11	15	6	2	14	10	5	1	13	9
5	0	5	10	15	7	2	13	8	14	11	4	1	9	12	3	6
6	0	6	12	10	11	13	7	1	5	3	9	15	14	8	2	4
7	0	7	14	9	15	8	1	6	13	10	3	4	2	5	12	11
8	0	8	3	11	6	14	5	13	12	4	15	7	10	2	9	1
9	0	9	1	8	2	11	3	10	4	13	5	12	6	15	7	14
10	0	10	7	13	14	4	9	3	15	5	8	2	1	11	6	12
11	0	11	5	14	10	1	15	4	7	12	2	9	13	6	8	3
12	0	12	11	7	5	9	14	2	10	6	1	13	15	3	4	8
13	0	13	9	4	1	12	8	5	2	15	11	6	3	14	10	7
14	0	14	15	1	13	3	2	12	9	7	6	8	4	10	11	5
15	0	15	13	2	9	6	4	11	1	14	12	3	8	7	5	10

Table 2: Multiplication in $GF(2^4)$

Several different rAES SBoxes were tried, and through trial and error one was found that meet all of the above criteria. It was found by creating an SBox with a 2-bit index to the row and column and each entry is four bits. This created an SBox with 16 entries instead of 256. The entries were initialized to 0000 through 1111 with the first row being 0000, 0001, 0010, 0011 in binary and the second row being 0100, 0101, 0110, 0111. All of the multiplicative inverses were found using the Galois Field GF(2^4) instead of GF(2^8). For this Galois Field the constant 10011 was chosen to be used if the value exceeded four bits. For example, $4 \cdot 4 = 10000 \oplus 10011 = 0011 = 3$. All of the multiplications in GF(2^4) can be seen in Table 2.

The GF(2^4) containing the set from zero to 16 with the addition and multiplication operations as defined above does create a Galois Field. Since the addition is done as an exclusive-or the addition is automatically in the field. By examining Table 2 it is easy to see that all of the values are in the set. Also, all of the values in the set have a multiplicative inverse (the entries in the table that are equal to one). Therefore this is a Galois Field.

Finally the following equation was applied to get the resulting SBox:

$$y_i = x_i \oplus x_{(i+1) \bmod 4} \oplus x_{(i+3) \bmod 4} \oplus c_i$$

where in this case c_i is five. This equation and constant value were found to be a combination that allowed an SBox that met all the necessary criteria. For instance, the entry at (0, 2) was calculated as follows:

The value was initialized to 0010. The inverse of 0010 (as can be found in Table 2) is 1001. This value is then input to the equation so we have:

$$y_0 = 1 \oplus 0 \oplus 1 \oplus 1 = 1$$

$$y_1 = 0 \oplus 0 \oplus 1 \oplus 0 = 1$$

$$y_2 = 0 \oplus 1 \oplus 0 \oplus 1 = 0$$

$$y_3 = 1 \oplus 1 \oplus 0 \oplus 0 = 0$$

which gives us the result of 0011 = 3.

$$\begin{bmatrix} 1 & 1 & 0 & 1 \\ 1 & 1 & 1 & 0 \\ 0 & 1 & 1 & 1 \\ 1 & 0 & 1 & 1 \end{bmatrix} \begin{bmatrix} 1 \\ 0 \\ 0 \\ 1 \end{bmatrix} \oplus \begin{bmatrix} 1 \\ 0 \\ 1 \\ 0 \end{bmatrix} = \begin{bmatrix} 0 \\ 1 \\ 1 \\ 0 \end{bmatrix} \oplus \begin{bmatrix} 1 \\ 0 \\ 1 \\ 0 \end{bmatrix} = \begin{bmatrix} 1 \\ 1 \\ 0 \\ 0 \end{bmatrix} = 3$$

Figure 7: Matrix Representation of SBox Derivation

This example can also be done by representing the equation given above as a matrix, and representing the value as a column as seen in Figure 7. The resulting SBox and Inverse SBox can be seen in Figures 8 and 9.

	0	1	2	3
0	5	14	3	1
1	13	4	7	12
2	10	2	6	0
3	15	11	9	8

Figure 8: 4-Bit SBox

	0	1	2	3
0	11	3	9	2
1	5	0	10	6
2	15	14	8	13
3	7	4	1	12

Figure 9: 4-Bit Inverse SBox

The round constants for rAES were calculated using the same method as those for the AES, but reduced to output four bits. In the AES the round constant $Rcon_j = (RC_j, 0, 0, 0)$ where $1 \leq j \leq 10$ with each member of the list representing a byte. The value $RC_j = 2 \cdot RC_{j-1}$ and $RC_1 = 1$. All of the math is performed over the Galois Field GF(2^8). For rAES the round constant $Rcon_j = (RC_j, 0, 0, 0)$ where each member represents four bits. The value $RC_j = 2 \cdot RC_{j-1}$ and $RC_1 = 1$. All of the math is performed over the Galois Field GF(2^4). For example, the calculation for $RC_2 = 2 \cdot 1 = 2$ so $Rcon_2 = 0010000000000000$. The round constants for rAES can be seen in Table 3.

j	1	2	3	4	5	6	7	8	9	10
$Rcon_j$	1	2	4	8	3	6	12	11	5	10

Table 3: The rAES Round Constants for the 10-round version (in decimal)

The ShiftRows and InverseShiftRows for rAES work exactly the same as in the AES except each entry in the matrix shown in Figures 2 and 4 represent four bits instead of a byte (b0 represents bits 0-3, the top row represents bits 0-15, row two is bits 16-31, row three is bits 32-47, and row four is bits 48-63).

The MixColums step works the same way in rAES as it does in the AES, but each hex value in the matrix is represented as a 4-bit number instead of as a byte. All of the values in the MixColumns matrix are less than 16 so they can directly be written in four bits. The InverseMixColumns matrix is also just changed to represent all of the values as 4-bits instead of bytes. The mathematics was checked and the same values work for the InverseMixColumns even though they have been represented as only four bits.

The number of rounds was allowed to be variable in rAES. The minimum allowed is one round and the maximum is 10 for a 64-bit key, 12 for a 96-bit key, and 14 for a 128-bit key. For the one round option, the MixColumns is not performed, but for all other number of rounds the algorithm operates as normal, with the last round not having MixColumns but all the other rounds perform all of the steps. The decryption is done using the inverse steps as described above.

The rAES was designed to improve the running time of a possible attack. The design of rAES was made to follow the AES as closely as possible as can be seen in the description given above. Now an attempt to attack rAES could be made to see if there are any weaknesses. The rAES is inherently weaker than the AES, so if an attack for rAES cannot be found then a similar attack on AES would be even less effective. With the reduced version complete, the equations representing it can be found. The equations used in the attack on rAES are described in Chapter III.

CHAPTER III

APPLIED ATTACK

The Equations

In order to use an XSL-style attack on rAES, the equations that represent the steps of the algorithm had to be derived for the 4-bit version. This derivation was similar to that described in [4]. The equations from the encryption and not the decryption were found since the equations that result from the MixColumns step are simpler than those that result from the InverseMixColumns. This is because performing the multiplication in GF(2^4) on the values in the MixColumns matrix requires fewer calculations than performing them with the InverseMixColumns matrix. The manipulations performed on the bits of the plaintext can be grouped into two types, the diffusion done by the AddRoundKey, ShiftRows, and MixColumns steps, and the nonlinear step done by SubBytes. The equations for the diffusion steps are fairly straight forward to derive, but the SubBytes step was designed to try to prevent a simple representation of the manipulations on the bits being described as linear equations [13, 14].

Due to the criteria used in the design of the SBox for the AES, it was found in [4, 9, 10] that equations that are true for all the different mappings of the SBox can be found. It was found that using first order and second order terms from the SBox mappings were sufficient to describe the SBox [4]. The terms came from the input and output bits of the SBox. Similarly, such equations were found to exist for rAES. Once the SBox for rAES was created (see Fig. 7 on page 17) an algorithm to find all of the true equations for this SBox was devised. The terms for the rAES SBox are just the bits of the four bits input and four bits output, and all the possible second order combinations of the input and output bits. This creates 24 terms. Since there are 16 entries in the SBox, there are 16 possible true values for all of the terms. The terms and all possible values for the mappings can be seen in Figure 12 in Appendix A. The algorithm to find the true equations used a nested loop structure to sum under GF(2) all combinations of the terms and returned the combinations where the result was 0 or 1 for all equations. This means that no matter what the input to the SBox was, the equations would have the same result. A total of 2039 such equations were found to be true for the rAES SBox, with the equations varying in length from only five terms all the way up to 20 terms. Since there are only 24 SBox terms, we decided to use 24 of the 2039 SBox equations in the implementation. The specific equations chosen can be seen in Figure 13 in Appendix A.

Since the SBox is performed on four bits at a time and there are 64 bits in a block, it was necessary to have a different set of 24 SBox equations for each of the 16 times the SBox gets used in a single round. This gives a total of 384 SBox equations and 384 terms. Of these 384 terms, 128 are first order and the remaining 256 are second order terms.

The equations from the other three steps were more directly determined since they are already linear in nature. The equations for the first AddRoundKey step were from the bits of the input plaintext, the bits of the key, and the bits that result from using the exclusive-or operation on them. There are 64 such equations with 128 terms (the plaintext bits are known, the key and result bits are unknown). The equations are as follows:

$$r_i \oplus k_i = p_i$$

where r_i is a bit of the result of the AddRoundKey operation, k_i is a bit of the key, and p_i is a bit of the plaintext, with $0 \leq i < 64$.

The operations on the bits done by the ShiftRows, MixColumns, and second AddRoundKey steps were all combined into a single set of equations. These terms in these equations were from the bits of the output of the SBox, the bits of the second round key, and the resulting bits from after the round key was added. The locations of the SBox output bits were tracked through the ShiftRows and MixColumns steps so that the bit from the SBox that was added to a specific bit of the round key was known. This resulted in the 64 equations. To see if the technique would work even without the MixColumns step, which is what occurs if only one round is used, the equations ignoring the MixColumns manipulations on the bits were also devised. These can be seen in Figure 14 in Appendix A. In the one round case there are 64 equations with 128 unknown terms since the resulting bits from the final AddRoundKey step are the known ciphertext bits.

This gives us a total of 512 equations and 512 terms. All of the equations found above are unique, but the terms for the output bits of the first AddRoundKey are the same as the input bits to the SBox, and the output bits from the SBox are the same as the input bits to the second AddRoundKey. It was considered to attempt to solve subsets of these equations as separate systems, but the ratio of the number of terms to the number of equations for any subset is not large enough. For instance, if only the equations from the first AddRoundKey are considered we have 128 terms but only 64 equations. When solving linear systems of equations at least an equal number of equations to terms is necessary in order to uniquely solve the system using conventional methods such as Gaussian Elimination. Once the equations were determined it remained to attempt to solve the system of equations found.

<u>The Attack</u>

The system of equations described above was input to a modified version of Gaussian Elimination with Backwards Substitution. The algorithm was modified as shown in Figure 10, to optimize it for operations in GF(2). The normal version solves systems with decimal coefficients and solutions; here all the coefficients and solutions will be binary.

The modification to the Gaussian Elimination algorithm occurred to the steps shown in bold in Figure 10. Originally the multiplication, subtraction, and replacement of row j was performed in every execution of the loops over i and j. When m is zero, these steps just end up replacing row j with the same values it already had. Therefore, if m is zero, all three of these steps can be skipped. The value m can only be zero or one, and if it is one then the steps are executed.

```
Modified Gaussian Elimination
Input: Matrix representation of the system of equations
Output: Array containing the solutions for each term
m ← matrix column count – 2
solutions[m+1]
for (i ← 0; i < m; i++)
        p ← n
        for (k ← 0; k < m; k++)
                if matrix location (k,i) is one
                        p ← k
                        end loop over k
        if p ≥ m
                return false
        if p ≠ i
                switch row i of the matrix with row p of the matrix
        for (j ← i+1; j ≤ m; j++)
                m ← 0 // m is the matrix location (j,i) divided by location (i,i)
                if matrix location (j,i) is one and matrix location (i,i) is one
                        m ← 1
                        multiply row i of the matrix with m
                        subtract the above from row j of the matrix
                        replace row j of the matrix with the above
if matrix location (m,m) = 0
        return false
if matrix location (m-1,m) is one and matrix location (m-1,m-1) is one
        solutions[m] ← 1
else solutions[m] ← 0
for (i ← m-1; i ≥ 0; i--)
        sum ← 0
        for (j ← i+1; j ≤ m; j++)
                sum ← sum + matrix location (i,j) + solutions[j]
        sum ← sum mod 2 // math is over GF(2)
        sum ← matrix location (i, m+1) – sum
        sum ← sum / matrix location (i,i)
        if sum = -1
                sum ← 1 // math in GF(2)
        solutions[i] ← sum
return true
```

Figure 10: Modified Gaussian Elimination Version 1

The value m is a result of dividing two entries in the matrix, so m is only one if both entries are one. Therefore on average m is only one 25% of the time. This means that the three steps are skipped 75% of the time with this modification. Therefore the running time of the Gaussian Elimination has been optimized, though the asymptotic running time is the same. Additional modifications were made to the italicized steps because all of the math needs to be done in binary.

It turned out that the system I found to represent rAES did not work well with the T′ Method. The T′ Method relies upon each term appearing a relatively large number of times in the entire system. For our system of 512 terms, any given term was found to appear in less than 4% of the equations. This can be verified using Appendix A. This means the number of executions of the T′ Method for the rAES equations is beyond the realm of feasibility. Even though I had a system with an equal number of terms and equations, it was found that the system was not solvable in its initial state. In the light of this observation, a different approach was taken to attempt to solve the system of equations.

For only one round of rAES, the number of equations that could be determined was much larger than the number of terms needed to solve the system, since typically an equal number of terms and equations are required. Therefore, the number of equations was increased to over 512.

The Gaussian Elimination algorithm was modified to allow for a non-square matrix as can be seen in Figure 11. The constant n was added to the algorithm to represent the number of equations in the system. Before, the number was the same as the number of terms so only one constant, m, was required. In the situations where the number of equations and not the number of terms was needed, n has been substituted for m. Essentially this means that all of the equations will be checked to try to find a subset of them that will allow all 512 terms to be solved.

This technique essentially has the same end effect as the T′ Method, but achieves it in a different manner. In the T′ Method the number of total equations is increased each time the T′ Method is executed, using our technique the number of equations starts out larger than the number of terms. Then all that was required was to run the second modified version of Gaussian Elimination on the matrix.

The additional equations came from two sources, the SBox Equations found previously, and new equations from the ExpandRoundKey. There were 2039 SBox equations found and so far only 24 of them have been used in the attack. That leaves 2015 left to try. Initially, the shortest 24 equations were used, now the longest 24 equations will be added to increase the total to 48 SBox equations over 24 SBox terms. The second set of SBox equations can be seen in Figure 15 in Appendix A. The ExpandRoundKey step, as described on page 7, uses exclusive-or, circular shifts, and the SBox to manipulate the bits. The first set of equations used for the SubBytes step was used for the SBox part of the ExpandRoundKey equations. Only one out of every four words is passed through the SBox, the other three words per round key just use the exclusive-or operation. The equations for the ExpandRoundKey are combinations of the SBox equations using the ExpandRoundKey terms, and the equations shown in Figure 16 in Appendix A.

```
Modified Gaussian Elimination
Input: Matrix representation of the system of equations
Output: Array containing the solutions for each term
n ← matrix row count – 1
m ← matrix column count – 2
solutions[m+1]
for (i ← 0; i < m; i++)
        p ← n
        for (k ← 0; k < n; k++)
                if matrix location (k,i) is one
                        p ← k
                        end loop over k
        if p ≥ n
                return false
        if p ≠ i
                switch row i of the matrix with row p of the matrix
        for (j ← i+1; j ≤ n; j++)
                m ← 0 // m is the matrix location (j,i) divided by location (i,i)
                if matrix location (j,i) is one and matrix location (i,i) is one
                        m ← 1
                        multiply row i of the matrix with m
                        subtract the above from row j of the matrix
                        replace row j of the matrix with the above
if matrix location (m,m) = 0
        return false
if matrix location (m-1,m) is one and matrix location (m-1,m-1) is one
        solutions[m] ← 1
else solutions[m] ← 0
for (i ← m-1; i ≥ 0; i--)
        sum ← 0
        for (j ← i+1; j ≤ n; j++)
                sum ← sum + matrix location (i,j) + solutions[j]
        sum ← sum mod 2 // math is over GF(2)
        sum ← matrix location (i, m+1) – sum
        sum ← sum / matrix location (i,i)
        if sum = -1
                sum ← 1 // math in GF(2)
        solutions[i] ← sum
return true
```

Figure 11: Modified Gaussian Elimination Version 2

The additional 24 SBox equations were added per each four bits. This resulted in an addition of another 384 equations, bringing the total to 896 equations with the terms remaining at 512. There are 64 equations from the creation of the 64-bit round key. There are 96 additional SBox equations from the round key expansion. This gives a total of 1056 equations. The RotWord and SubBytes parts of the ExpandRoundKey step produce some additional terms, 16 to be exact. This increases the number of terms to 528. There are also a separate set of second order SBox terms for the ExpandRoundKey which increases the total number of terms to 592. Therefore the system used in the attack had 1056 equations describing 592 terms.

CHAPTER IV

RESULTS

Initially, the code was run on the 512 term, 512 equation system. It was found that this system was not sufficient to get solutions for all the terms. When run using the first modified version of the Gaussian Elimination algorithm it was able to diagonalize the matrix down to term 133 as shown in Appendix A. The code was run on several keys using the same plaintext (the word “plaintext” was used since it completely filled one block). For any key the matrix could only be diagonalized to the same term. Term 133, as can be seen in Table 4 of Appendix A, is j_2 which is the third bit of the round key. Since it was apparent that more equations related to the round keys were needed, those equations were added to the code next.

With the round key equations added in, the system was then 592 terms and 672 equations. When the code was run with these changes, using the second modified version of the Gaussian Elimination algorithm, the matrix was diagonalized down to term 267, r_2y_3, the second order term of the third bit of the input to the SBox and the fourth bit of the output from the SBox. Again, this situation occurred for any key used. The point where the diagonalization stops is shown in an example execution of the attack on page 81.

Now, it seemed that more SBox equations were needed to create a solvable system, so the second set of SBox equations was added. This increased the number of equations to 1056, leaving the number of terms at 592. Unexpectedly, doubling the number of SBox equations had no effect on the results of the Gaussian Elimination. It was still only able to diagonalize the matrix to term 267. Despite having nearly twice as many equations as terms, the system was found to be unsolvable. Increasing the number of equations from 672 to 1056 had no effect on the solvability of the system. Considering these results it was decided that attempting to include more of the SBox equations would not help the situation.

In order to see if there was a pattern in the terms that could not be diagonalized by the Gaussian Elimination, the code was modified to not break when a term was found that could not be diagonalized. Instead that term was added to the matrix in the correct location and just set to zero. A statement noting that a term could not be diagonalized was output each time this occurred. When this was done it was found that the same terms in the SBox equations were not diagonalizable. These terms were $x_2 y_3$, $x_3 y_0$, $x_3 y_1$, $x_3 y_2$, and $x_3 y_3$ through term 319, then in the next set of SBox equations it increased to be $x_2 y_1$, $x_2 y_2$, $x_2 y_3$, $x_3 y_0$, $x_3 y_1$, $x_3 y_2$, and $x_3 y_3$ and continued in that pattern until term 383. From term 384 on the pattern was $x_2 y_0$, $x_2 y_1$, $x_2 y_2$, $x_2 y_3$, $x_3 y_0$, $x_3 y_1$, $x_3 y_2$, and $x_3 y_3$. There were also later terms that were found to be undiagonalizable.

CHAPTER V

CONCLUSIONS

General Conclusions

The attack on rAES failed. Despite having a sparse system of linear equations with nearly twice as many equations as terms the system was unsolvable, so the key could not be retrieved. This result is good news for the AES. As noted previously, if the attack on rAES fails, an attack on the AES would be even less likely to be successful.

In the process of attempting to attack rAES, some interesting side results were found. Based on the experimental results, the solution of the linear system of equations representing the steps in rAES is not dependent on the plaintext choice or the key choice. Logically, this makes sense, because the solution for an equation equal to one gives you no more information about the terms than an equation equal to zero. This is important because it means that the security of rAES is the same no matter how cleverly the plaintext is chosen. It follows that the strength of AES against this type of attack is also independent of the plaintext choice or key choice.

The improvements to the Gaussian Elimination to optimize it for equations in GF(2) improve the running time, but do not reduce the number of executions of any of the loops. Therefore it would not affect the general execution estimates given by others in [4, 9].

Future Work

The fact that specific terms in the SBox equations were the ones that were unsolvable indicates that some rules for selecting the SBox equations could be devised. If such a rule or set of rules could be found, then the entire system of equations could be solvable.

Using the all available equations instead of the T′ Method reduces the running time to only one execution of the Gaussian Elimination algorithm instead of approximately 2^{100} or more. Since the key and plaintext appear to have no effect on the solvability of the system, if a set of equations could be found that was solvable, then only one execution of the Gaussian Elimination would be needed. The running time would then be $O(n^2)$, where n is the number of equations in the system. The results indicate that finding a set of equations to solve even one round was not possible. The advantage is if a system could be found that was solvable, it would only need to be found once. Then the only work required is to set the specific plaintext and ciphertext bits and run the Gaussian Elimination on the matrix using the predetermined equations.

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APPENDIX A

ADDITIONAL TABLES AND FIGURES

Mapping:

Terms:		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0	x_0	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
1	x_1	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1
2	x_2	0	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1
3	x_3	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
4	y_0	1	0	1	1	1	0	1	0	0	0	0	0	1	1	1	0
5	y_1	0	1	1	0	0	0	1	0	1	1	1	0	1	1	0	0
6	y_2	1	1	0	0	1	1	1	1	0	0	1	0	1	0	0	0
7	y_3	0	1	0	0	1	0	0	1	1	0	0	0	1	1	1	1
8	x_0y_0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0
9	x_0y_1	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0
10	x_0y_2	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0
11	x_0y_3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	1
12	x_1y_0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	1	0
13	x_1y_1	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0
14	x_1y_2	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0
15	x_1y_3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1
16	x_2y_0	0	0	0	0	1	0	1	0	0	0	0	0	1	1	1	0
17	x_2y_1	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0
18	x_2y_2	0	0	0	0	1	1	1	1	0	0	0	0	1	0	0	0
19	x_2y_3	0	0	0	0	1	0	0	1	0	0	0	0	1	1	1	1
20	x_3y_0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0
21	x_3y_1	0	0	0	0	0	0	0	0	1	1	1	0	1	1	0	0
22	x_3y_2	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
23	x_3y_3	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1

Figure 12: All SBox Terms and Mappings

$$x_0y_0 + x_1y_0 + x_1y_1 + x_3y_0 + x_3y_2 = 0$$
$$x_0y_2 + x_0y_3 + x_1y_3 + x_2y_0 + x_2y_2 = 0$$
$$x_1y_3 + x_2y_0 + x_2y_1 + x_2y_3 + x_3y_0 = 0$$
$$y_1 + x_0y_0 + x_0y_3 + x_1y_0 + x_1y_3 + x_3y_1 = 0$$
$$y_3 + x_0y_1 + x_2y_3 + x_3y_1 + x_3y_2 = 0$$
$$y_3 + x_0y_2 + x_1y_2 + x_2y_2 + x_3y_2 + x_3y_3 = 0$$
$$y_0 + y_2 + x_0y_2 + x_1y_0 + x_2y_1 + x_3y_2 = 0$$
$$x_2 + x_1y_2 + x_1y_3 + x_2y_1 + x_2y_2 + x_3y_2 = 0$$
$$x_2 + y_1 + x_0y_1 + x_1y_1 + x_2y_2 + x_3y_3 = 0$$
$$x_2 + y_3 + x_0y_2 + x_1y_3 + x_2y_1 + x_3y_3 = 0$$
$$x_0 + x_1 + y_1 + x_0y_2 + x_0y_3 + x_3y_3 = 0$$
$$x_0 + x_3 + x_0y_0 + x_0y_1 + x_2y_0 + x_2y_2 + x_3y_1 = 0$$
$$x_0 + x_3 + y_1 + x_0y_1 + x_0y_2 + x_1y_0 = 0$$
$$x_1 + x_3 + x_0y_1 + x_0y_3 + x_1y_0 + x_3y_3 = 0$$
$$x_0 + x_1 + x_2 + x_0y_1 + x_1y_1 + x_1y_3 + x_2y_0 = 0$$
$$x_0 + x_2 + x_3 + y_3 + x_0y_0 + x_1y_2 + x_3y_0 = 0$$
$$x_0 + y_0 + y_1 + x_0y_1 + x_1y_0 + x_3y_0 = 1$$
$$x_1 + y_2 + x_1y_2 + x_3y_1 + x_3y_2 = 1$$
$$x_1 + y_2 + y_3 + x_0y_1 + x_1y_2 + x_2y_3 = 1$$
$$x_3 + y_0 + x_0y_2 + x_3y_0 = 1$$
$$x_3 + y_0 + x_0y_3 + x_2y_1 + x_2y_2 + x_2y_3 = 1$$
$$x_3 + y_2 + x_0y_0 + x_1y_1 + x_2y_1 = 1$$
$$x_3 + y_2 + x_1y_0 + x_2y_1 + x_3y_0 + x_3y_2 = 1$$
$$x_2 + x_3 + y_0 + y_3 + x_2y_0 + x_2y_3 + x_3y_3 = 1$$

Figure 13: SBox Equations - Set One

$y_i \oplus j_i = c_i$ for $0 \leq i < 16$
$y_m \oplus j_i = c_i$ for $16 \leq i < 28$, and $20 \leq m < 31$
$y_m \oplus j_i = c_i$ for $28 \leq i < 32$, and $16 \leq m < 20$
$y_m \oplus j_i = c_i$ for $32 \leq i < 40$, and $40 \leq m < 48$
$y_m \oplus j_i = c_i$ for $40 \leq i < 48$, and $32 \leq m < 40$
$y_m \oplus j_i = c_i$ for $48 \leq i < 52$, and $60 \leq m < 64$
$y_m \oplus j_i = c_i$ for $52 \leq i < 64$, and $48 \leq m < 60$

Figure 14: Equations after the SBox
Where y_i and y_m are the bits output from the SBox adjusted for the ShiftRows, j_i are the bits of the second round key, and c_i are the bits of the ciphertext.

$$x_0 + x_1 + y_0 + y_2 + y_3 + x_0y_1 + x_0y_2 + x_0y_3 + x_1y_0 + x_1y_1 + x_2y_0 + x_2y_1 + x_2y_2 + x_2y_3 + x_3y_0 + x_3y_2 + x_3y_3 = 0$$

$$x_0 + x_1 + y_0 + y_1 + y_2 + y_3 + x_0y_0 + x_0y_1 + x_0y_2 + x_1y_1 + x_1y_3 + x_2y_0 + x_2y_1 + x_2y_2 + x_2y_3 + x_3y_0 + x_3y_1 + x_3y_2 + x_3y_3 = 0$$

$$x_0 + x_2 + y_1 + y_2 + y_3 + x_0y_0 + x_0y_1 + x_0y_2 + x_0y_3 + x_1y_0 + x_1y_1 + x_1y_3 + x_2y_1 + x_2y_2 + x_2y_3 + x_3y_0 + x_3y_3 = 1$$

$$x_0 + x_3 + y_0 + y_1 + y_2 + y_3 + x_0y_0 + x_0y_1 + x_0y_2 + x_1y_0 + x_1y_1 + x_1y_2 + x_1y_3 + x_2y_0 + x_2y_2 + x_2y_3 + x_3y_2 + x_3y_3 = 0$$

$$x_0 + x_3 + y_0 + y_1 + y_2 + y_3 + x_0y_0 + x_0y_1 + x_0y_3 + x_1y_0 + x_1y_1 + x_1y_2 + x_1y_3 + x_2y_0 + x_2y_1 + x_3y_0 + x_3y_2 + x_3y_3 = 0$$

$$x_0 + x_3 + y_0 + y_1 + y_2 + y_3 + x_0y_0 + x_0y_2 + x_0y_3 + x_1y_0 + x_1y_1 + x_1y_3 + x_2y_0 + x_2y_1 + x_2y_2 + x_2y_3 + x_3y_0 + x_3y_1 + x_3y_2 = 0$$

$$x_1 + x_3 + y_0 + y_2 + y_3 + x_0y_0 + x_1y_0 + x_1y_1 + x_1y_3 + x_2y_0 + x_2y_1 + x_2y_2 + x_2y_3 + x_3y_0 + x_3y_1 + x_3y_2 + x_3y_3 = 0$$

$$x_0 + x_1 + x_2 + y_1 + y_3 + x_0y_0 + x_0y_1 + x_0y_2 + x_0y_3 + x_1y_0 + x_1y_1 + x_1y_2 + x_2y_0 + x_2y_2 + x_3y_1 + x_3y_2 + x_3y_3 = 0$$

$$x_0 + x_1 + x_2 + y_1 + y_3 + x_0y_0 + x_0y_1 + x_1y_0 + x_1y_1 + x_1y_2 + x_2y_0 + x_2y_1 + x_2y_3 + x_3y_0 + x_3y_1 + x_3y_2 + x_3y_3 = 0$$

$$x_0 + x_1 + x_2 + y_1 + y_3 + x_0y_0 + x_0y_1 + x_0y_2 + x_0y_3 + x_1y_0 + x_1y_1 + x_1y_2 + x_1y_3 + x_2y_1 + x_2y_2 + x_2y_3 + x_3y_0 + x_3y_1 + x_3y_2 + x_3y_3 = 0$$

$$x_0 + x_1 + x_2 + y_0 + y_1 + y_2 + y_3 + x_0y_0 + x_0y_1 + x_0y_3 + x_1y_1 + x_1y_2 + x_1y_3 + x_2y_2 + x_2y_3 + x_3y_0 + x_3y_1 + x_3y_3 = 0$$

$$x_0 + x_1 + x_2 + y_0 + y_1 + y_2 + y_3 + x_0y_1 + x_0y_3 + x_1y_0 + x_1y_2 + x_2y_0 + x_2y_1 + x_2y_2 + x_3y_0 + x_3y_1 + x_3y_2 + x_3y_3 = 0$$

$$x_0 + x_1 + x_3 + y_0 + y_1 + x_0y_0 + x_0y_1 + x_0y_2 + x_0y_3 + x_1y_0 + x_1y_1 + x_1y_2 + x_1y_3 + x_2y_0 + x_2y_1 + x_2y_2 + x_3y_0 + x_3y_1 + x_3y_2 = 1$$

$$x_0 + x_1 + x_3 + y_0 + y_1 + y_3 + x_0y_0 + x_0y_2 + x_0y_3 + x_1y_0 + x_1y_1 + x_1y_2 + x_1y_3 + x_2y_0 + x_2y_1 + x_2y_2 + x_2y_3 + x_3y_0 = 1$$

$$x_0 + x_2 + x_3 + y_0 + y_2 + y_3 + x_0y_0 + x_0y_1 + x_0y_2 + x_0y_3 + x_1y_0 + x_1y_3 + x_2y_0 + x_2y_1 + x_2y_3 + x_3y_0 + x_3y_1 + x_3y_2 + x_3y_3 = 0$$

$$x_0 + x_2 + x_3 + y_0 + y_1 + y_2 + y_3 + x_0y_0 + x_0y_2 + x_0y_3 + x_1y_0 + x_1y_1 + x_1y_2 + x_2y_0 + x_2y_3 + x_3y_0 + x_3y_1 = 0$$

$$x_1 + x_2 + x_3 + y_0 + y_2 + x_0y_0 + x_0y_1 + x_0y_2 + x_0y_3 + x_1y_0 + x_1y_1 + x_1y_2 + x_2y_0 + x_2y_1 + x_2y_2 + x_2y_3 + x_3y_2 + x_3y_3 = 0$$

$$x_1 + x_2 + x_3 + y_0 + y_1 + y_2 + x_0y_1 + x_0y_2 + x_1y_1 + x_1y_2 + x_1y_3 + x_2y_0 + x_2y_1 + x_2y_2 + x_2y_3 + x_3y_1 + x_3y_2 + x_3y_3 = 0$$

$$x_1 + x_2 + x_3 + y_0 + y_1 + y_2 + x_0y_0 + x_0y_1 + x_0y_2 + x_1y_0 + x_1y_2 + x_1y_3 + x_2y_0 + x_2y_1 + x_2y_2 + x_2y_3 + x_3y_0 + x_3y_1 + x_3y_3 = 0$$

$$x_1 + x_2 + x_3 + y_0 + y_2 + y_3 + x_0y_0 + x_0y_2 + x_0y_3 + x_1y_0 + x_1y_1 + x_1y_2 + x_1y_3 + x_2y_2 + x_2y_3 + x_3y_0 + x_3y_1 + x_3y_3 = 0$$

$$x_1 + x_2 + x_3 + y_0 + y_1 + y_2 + y_3 + x_0y_0 + x_0y_1 + x_0y_2 + x_0y_3 + x_1y_0 + x_2y_1 + x_2y_2 + x_2y_3 + x_3y_0 + x_3y_1 + x_3y_2 = 0$$

$$x_1 + x_2 + x_3 + y_0 + y_1 + y_2 + y_3 + x_0y_0 + x_0y_2 + x_1y_0 + x_1y_2 + x_1y_3 + x_2y_0 + x_2y_1 + x_2y_2 + x_3y_0 + x_3y_2 + x_3y_3 = 0$$

$$x_0 + x_1 + x_2 + x_3 + y_0 + x_0y_0 + x_0y_2 + x_0y_3 + x_1y_0 + x_1y_2 + x_1y_3 + x_2y_0 + x_2y_1 + x_3y_0 + x_3y_1 + x_3y_2 + x_3y_3 = 1$$

$$x_0 + x_1 + x_2 + x_3 + y_2 + x_0y_2 + x_1y_0 + x_1y_1 + x_1y_2 + x_1y_3 + x_2y_0 + x_2y_1 + x_2y_2 + x_2y_3 + x_3y_0 + x_3y_1 + x_3y_2 + x_3y_3 = 1$$

Figure 15: SBox Equations – Set Two

$0 = k_0 + z_0 + j_0$
$0 = k_1 + z_1 + j_1$
$0 = k_2 + z_2 + j_2$
$1 = k_3 + z_3 + j_3$
$0 = k_t + z_t + j_t$ for $4 \le t < 15$
$0 = j_u + k_u + j_v$ for $16 \le u < 64$ and $0 \le v < 48$

Figure 16: ExpandRoundKey Equations
Where j_i with $0 \le i < 64$ are the bits of the first round key and z_m with $0 \le m < 16$ are the bits of the output of the SubBytes operation

Terms from Before SBox	r0	k0	r1	k1	r2	k2	r3	k3	r4	k4	r5	k5	r6	k6	r7	k7
Location in the Matrix	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Terms from Before SBox, cont…	r8	k8	r9	k9	r10	k10	r11	k11	r12	k12	r13	k13	r14	k14	r15	k15
Location in the Matrix	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Terms from Before SBox, cont…	r16	k16	r17	k17	r18	k18	r19	k19	r20	k20	r21	k21	r22	k22	r23	k23
Location in the Matrix	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
Terms from Before SBox, cont…	r24	k24	r25	k25	r26	k26	r27	k27	r28	k28	r29	k29	r30	k30	r31	k31
Location in the Matrix	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
Terms from Before SBox, cont…	r32	k32	r33	k33	r34	k34	r35	k35	r36	k36	r37	k37	r38	k38	r39	k39
Location in the Matrix	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
Terms from Before SBox, cont…	r40	k40	r41	k41	r42	k42	r43	k43	r44	k44	r45	k45	r46	k46	r47	k47
Location in the Matrix	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
Terms from Before SBox, cont…	r48	k48	r49	k49	r50	k50	r51	k51	r52	k52	r53	k53	r54	k54	r55	k55
Location in the Matrix	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111
Terms from Before SBox, cont…	r56	k56	r57	k57	r58	k58	r59	k59	r60	k60	r61	k61	r62	k62	r63	k63
Location in the Matrix	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127
Terms from After SBox	y0	j0	y1	j1	y2	j2	y3	j3	y4	j4	y5	j5	y6	j6	y7	j7
Location in the Matrix	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143
Terms from After SBox, cont…	y8	j8	y9	j9	y10	j10	y11	j11	y12	j12	y13	j13	y14	j14	y15	j15
Location in the Matrix	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159
Terms from After SBox, cont…	y16	j16	y17	j17	y18	j18	y19	j19	y20	j20	y21	j21	y22	j22	y23	j23
Location in the Matrix	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175
Terms from After SBox, cont…	y24	j24	y25	j25	y26	j26	y27	j27	y28	j28	y29	j29	y30	j30	y31	j31
Location in the Matrix	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191
Terms from After SBox, cont…	y32	j32	y33	j33	y34	j34	y35	j35	y36	j36	y37	j37	y38	j38	y39	j39
Location in the Matrix	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207
Terms from After SBox, cont…	y40	j40	y41	j41	y42	j42	y43	j43	y44	j44	y45	j45	y46	j46	y47	j47
Location in the Matrix	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223
Terms from After SBox, cont…	y48	j48	y49	j49	y50	j50	y51	j51	y52	j52	y53	j53	y54	j54	y55	j55
Location in the Matrix	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239
Terms from After SBox, cont…	y56	j56	y57	j57	y58	j58	y59	j59	y60	j60	y61	j61	y62	j62	y63	j63
Location in the Matrix	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255

Table 4: Matrix Terms - First Half
Above are the terms used in the system of equations, they are numbered in the order they are stored in the matrix shown in the sample data.

Second Order SBox Terms	r0y0	r0y1	r0y2	r0y3	r1y0	r1y1	r1y2	r1y3	r2y0	r2y1	r2y2	r2y3	r3y0	r3y1	r3y2	r3y3
Location in the Matrix	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271
Second Order SBox Terms, cont...	r4y4	r4y5	r4y6	r4y7	r5y4	r5y5	r5y6	r5y7	r6y4	r6y5	r6y6	r6y7	r7y4	r7y5	r7y6	r7y7
Location in the Matrix	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287
Second Order SBox Terms, cont...	r8y8	r8y9	r8y10	r8y11	r9y8	r9y9	r9y10	r9y11	r10y8	r10y9	r10y10	r10y11	r11y8	r11y9	r11y10	r11y11
Location in the Matrix	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303
Second Order SBox Terms, cont...	r12y12	r12y13	r12y14	r12y15	r13y12	r13y13	r13y14	r13y15	r14y12	r14y13	r14y14	r14y15	r15y12	r15y13	r15y14	r15y15
Location in the Matrix	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319
Second Order SBox Terms, cont...	r16y16	r16y17	r16y18	r16y19	r17y16	r17y17	r17y18	r17y19	r18y16	r18y17	r18y18	r18y19	r19y16	r19y17	r19y18	r19y19
Location in the Matrix	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335
Second Order SBox Terms, cont...	r20y20	r20y21	r20y22	r20y23	r21y20	r21y21	r21y22	r21y23	r22y20	r22y21	r22y22	r22y23	r23y20	r23y21	r23y22	r23y23
Location in the Matrix	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351
Second Order SBox Terms, cont...	r24y24	r24y25	r24y26	r24y27	r25y24	r25y25	r25y26	r25y27	r26y24	r26y25	r26y26	r26y27	r27y24	r27y25	r27y26	r27y27
Location in the Matrix	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367
Second Order SBox Terms, cont...	r28y28	r28y29	r28y30	r28y31	r29y28	r29y29	r29y30	r29y31	r30y28	r30y29	r30y30	r30y31	r31y28	r31y29	r31y30	r31y31
Location in the Matrix	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383
Second Order SBox Terms, cont...	r32y32	r32y33	r32y34	r32y35	r33y32	r33y33	r33y34	r33y35	r34y32	r34y33	r34y34	r34y35	r35y32	r35y33	r35y34	r35y35
Location in the Matrix	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399
Second Order SBox Terms, cont...	r36y36	r36y37	r36y38	r36y39	r37y36	r37y37	r37y38	r37y39	r38y36	r38y37	r38y38	r38y39	r39y36	r39y37	r39y38	r39y39
Location in the Matrix	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415
Second Order SBox Terms, cont...	r40y40	r40y41	r40y42	r40y43	r41y40	r41y41	r41y42	r41y43	r42y40	r42y41	r42y42	r42y43	r43y40	r43y41	r43y42	r43y43
Location in the Matrix	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431
Second Order SBox Terms, cont...	r44y44	r44y45	r44y46	r44y47	r45y44	r45y45	r45y46	r45y47	r46y44	r46y45	r46y46	r46y47	r47y44	r47y45	r47y46	r47y47
Location in the Matrix	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447
Second Order SBox Terms, cont...	r48y48	r48y49	r48y50	r48y51	r49y48	r49y49	r49y50	r49y51	r50y48	r50y49	r50y50	r50y51	r51y48	r51y49	r51y50	r51y51
Location in the Matrix	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463
Second Order SBox Terms, cont...	r52y52	r52y53	r52y54	r52y55	r53y52	r53y53	r53y54	r53y55	r54y52	r54y53	r54y54	r54y55	r55y52	r55y53	r55y54	r55y55
Location in the Matrix	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479
Second Order SBox Terms, cont...	r56y56	r56y57	r56y58	r56y59	r57y56	r57y57	r57y58	r57y59	r58y56	r58y57	r58y58	r58y59	r59y56	r59y57	r59y58	r59y59
Location in the Matrix	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495
Second Order SBox Terms, cont...	r60y60	r60y61	r60y62	r60y63	r61y60	r61y61	r61y62	r61y63	r62y60	r62y61	r62y62	r62y63	r63y60	r63y61	r63y62	r63y63
Location in the Matrix	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511
Output of the SubBytes Operation in the ExpandRoundKey Step	z0	z1	z2	z3	z4	z5	z6	z7	z8	z9	z10	z11	z12	z13	z14	z15
Location in the Matrix	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527
Second Order SBox Terms for the ExpandRoundKey Step	k52z0	k52z1	k52z2	k52z3	k53z0	k53z1	k53z2	k53z3	k54z0	k54z1	k54z2	k54z3	k55z0	k55z1	k55z2	k55z3
Location in the Matrix	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543
Second Order SBox Terms for the ExpandRoundKey Step, cont...	k56z4	k56z5	k56z6	k56z7	k57z4	k57z5	k57z6	k57z7	k58z4	k58z5	k58z6	k58z7	k59z4	k59z5	k59z6	k59z7
Location in the Matrix	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559
Second Order SBox Terms for the ExpandRoundKey Step, cont...	k60z8	k60z9	k60z10	k60z11	k61z8	k61z9	k61z10	k61z11	k62z8	k62z9	k62z10	k62z11	k63z8	k63z9	k63z10	k63z11
Location in the Matrix	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575
Second Order SBox Terms for the ExpandRoundKey Step, cont...	k48z12	k48z13	k48z14	k48z15	k49z12	k49z13	k49z14	k49z15	k50z12	k50z13	k50z14	k50z15	k51z12	k51z13	k51z14	k51z15
Location in the Matrix	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591

Table 5: Matrix Terms - Second Half

Above are the terms used in the system of equations, they are numbered in the order they are stored in the matrix shown in the sample data.

APPENDIX B

INPUT DATA

The following 27 pages contain an example of the matrix input to the Gaussian Elimination. There are ten bits per each column of the table. If all the bits in a cell were zero, only one zero is shown instead of ten.

This example had the following data from the execution of rAES:

The plaintext is:

0111000001101100011000010110100101101110011101000110010101111000

The ciphertext is:

1011100010110111110110000111100011100101100101011011100110100010

The key is:

1000111110100100011111110000101100110100100101011110100011000001

	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150-159	160-169	170-179	180-189	190-199
0	1100000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0011000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0000110000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0000001100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0000000011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	1100000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0011000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0000110000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0000001100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0000000011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	1100000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0011000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0000110000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0000001100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0000000011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	1100000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0011000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0000110000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0000001100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0000000011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	1100000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0011000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0000110000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0000001100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0000000011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	1100000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0011000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0000110000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0000001100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0000000011	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	1100000000	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0011000000	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0000110000	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0000001100	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0000000011	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	1100000000	0	0	0	0	0	0	0	0	0	0	0	0
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37	0	0	0	0	0	0	0	0000110000	0	0	0	0	0	0	0	0	0	0	0	0
38	0	0	0	0	0	0	0	0000001100	0	0	0	0	0	0	0	0	0	0	0	0
39	0	0	0	0	0	0	0	0000000011	0	0	0	0	0	0	0	0	0	0	0	0
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54	0	0	0	0	0	0	0	0	0	0	0000000011	0	0	0	0	0	0	0	0	0
55	0	0	0	0	0	0	0	0	0	0	0	1100000000	0	0	0	0	0	0	0	0
56	0	0	0	0	0	0	0	0	0	0	0	0011000000	0	0	0	0	0	0	0	0
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61	0	0	0	0	0	0	0	0	0	0	0	0	0011000000	0	0	0	0	0	0	0
62	0	0	0	0	0	0	0	0	0	0	0	0	0000110000	0	0	0	0	0	0	0
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66	0	0	0	0	0	0	0	0	0	0	0	0	0	0011000000	0	0	0	0	0	0
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68	0	0	0	0	0	0	0	0	0	0	0	0	0	0000001100	0	0	0	0	0	0
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76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0011000000	0	0	0	0
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108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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127	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
128	1010100000	0	0	0	0	0	0	0	0	0	0	0	0	1000100000	0	0	0	0	0	0
129	1010000000	0	0	0	0	0	0	0	0	0	0	0	0000000010	1010100000	0	0	0	0	0	0

	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150-159	160-169	170-179	180-189	190-199
130	1000001000	0	0	0	0	0	0	0	0	0	0	0	0000000010	1010100000	0	0	0	0	0	0
131	1010001000	0	0	0	0	0	0	0	0	0	0	0	0000000010	1000000000	0	0	0	0	0	0
132	1000101000	0	0	0	0	0	0	0	0	0	0	0	0000000010	0010100000	0	0	0	0	0	0
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143	0010101000	0	0	0	0	0	0	0	0	0	0	0	0000000010	1010100000	0	0	0	0	0	0
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145	1000100000	0	0	0	0	0	0	0	0	0	0	0	0	1010100000	0	0	0	0	0	0
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163	1000001000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
164	1000001000	0	0	0	0	0	0	0	0	0	0	0	0	1000000000	0	0	0	0	0	0
165	0010001000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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176	0000000010	1010000000	0	0	0	0	0	0	0	0	0	0	0	0000000010	0010000000	0	0	0	0	0
177	0000000010	1000000000	0	0	0	0	0	0	0	0	0	0	0	0000001010	1010000000	0	0	0	0	0
178	0000000010	0000100000	0	0	0	0	0	0	0	0	0	0	0	0000001010	1010000000	0	0	0	0	0
179	0000000010	1000100000	0	0	0	0	0	0	0	0	0	0	0	0000001010	0	0	0	0	0	0
180	0000000010	0010100000	0	0	0	0	0	0	0	0	0	0	0	0000001000	1010000000	0	0	0	0	0
181	0	1010100000	0	0	0	0	0	0	0	0	0	0	0	0000001010	1000000000	0	0	0	0	0
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183	0000000010	0000100000	0	0	0	0	0	0	0	0	0	0	0	0000001010	1010000000	0	0	0	0	0
184	0000000010	0000100000	0	0	0	0	0	0	0	0	0	0	0	0000001010	1010000000	0	0	0	0	0
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187	0000000010	1000100000	0	0	0	0	0	0	0	0	0	0	0	0000001010	0010000000	0	0	0	0	0
188	0	1010100000	0	0	0	0	0	0	0	0	0	0	0	0000001000	1000000000	0	0	0	0	0
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192	0000000010	1010100000	0	0	0	0	0	0	0	0	0	0	0	0	1000000000	0	0	0	0	0
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211	0000000010	0000100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150-159	160-169	170-179	180-189	190-199
260	0	0000001000	0010000000	0	0	0	0	0	0	0	0	0	0	0	0000001000	0	0	0	0	0
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351	0	0	0	0000001000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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354	0	0	0	0010100000	0	0	0	0	0	0	0	0	0	0	0	0	0010000000	0	0	0
355	0	0	0	0010000010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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357	0	0	0	0000100010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
358	0	0	0	0010101000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
359	0	0	0	0010001010	0	0	0	0	0	0	0	0	0	0	0	0	0000001000	0	0	0
360	0	0	0	0010001000	0	0	0	0	0	0	0	0	0	0	0	0	0010000000	0	0	0
361	0	0	0	0000100000	0	0	0	0	0	0	0	0	0	0	0	0	0000100000	0	0	0
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364	0	0	0	0000000010	0	0	0	0	0	0	0	0	0	0	0	0	1000000000	0	0	0
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366	0	0	0	0000000010	0	0	0	0	0	0	0	0	0	0	0	0	0000100000	0	0	0
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368	0	0	0	0	1010100000	0	0	0	0	0	0	0	0	0	0	0	0	1000100000	0	0
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370	0	0	0	0	1000001000	0	0	0	0	0	0	0	0	0	0	0	0000000010	1010100000	0	0
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372	0	0	0	0	1000101000	0	0	0	0	0	0	0	0	0	0	0	0000000010	0010100000	0	0
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374	0	0	0	0	0010101000	0	0	0	0	0	0	0	0	0	0	0	0000000010	0010100000	0	0
375	0	0	0	0	1000001000	0	0	0	0	0	0	0	0	0	0	0	0000000010	1010100000	0	0
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	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150-159	160-169	170-179	180-189	190-199
390	0	0	0	0	1010101000	0	0	0	0	0	0	0	0	0	0	0	0000000010	0	0	0
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	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150-159	160-169	170-179	180-189	190-199
520	0	0	0	0	0	0	0000100000	1000000000	0	0	0	0	0	0	0	0	0	0	0	0010101010
521	0	0	0	0	0	0	0000101010	0	0	0	0	0	0	0	0	0	0	0	0	0010101010
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697	0	0	0	0	0	0	0	0	0	1000000000	0	0	0	0	0	0	0	0	0	0
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705	0	0	0	0	0	0	0	0	0	0000001010	0	0	0	0	0	0	0	0	0	0
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721	0	0	0	0	0	0	0	0	0	0000001000	1000000000	0	0	0	0	0	0	0	0	0
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	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150-159	160-169	170-179	180-189	190-199
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872	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
873	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
874	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
875	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
876	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
877	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
878	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
879	0	0	0	0	0	0	0	0	0	0	0	0	0000100000	0	0	0	0	0	0	0
880	0	0	0	0	0	0	0	0	0	0	0	0	0000100000	0	0	0	0	0	0	0
881	0	0	0	0	0	0	0	0	0	0	0	0	0000100000	0	0	0	0	0	0	0
882	0	0	0	0	0	0	0	0	0	0	0	0	1010000000	0	0	0	0	0	0	0
883	0	0	0	0	0	0	0	0	0	0	0	0	1000001000	0	0	0	0	0	0	0
884	0	0	0	0	0	0	0	0	0	0	0	0	1000001000	0	0	0	0	0	0	0
885	0	0	0	0	0	0	0	0	0	0	0	0	0010001000	0	0	0	0	0	0	0
886	0	0	0	0	0	0	0	0	0	0	0	0	1010100000	0	0	0	0	0	0	0
887	0	0	0	0	0	0	0	0	0	0	0	0	1000101000	0	0	0	0	0	0	0
888	0	0	0	0	0	0	0	0	0	0	0	0	1000100000	0	0	0	0	0	0	0
889	0	0	0	0	0	0	0	0	0	0	0	0	0010000000	0	0	0	0	0	0	0
890	0	0	0	0	0	0	0	0	0	0	0	0	0010000000	0	0	0	0	0	0	0
891	0	0	0	0	0	0	0	0	0	0	0	0	0000001000	0	0	0	0	0	0	0
892	0	0	0	0	0	0	0	0	0	0	0	0	0000001000	0	0	0	0	0	0	0
893	0	0	0	0	0	0	0	0	0	0	0	0	0000001000	0	0	0	0	0	0	0
894	0	0	0	0	0	0	0	0	0	0	0	0	0000001000	0	0	0	0	0	0	0
895	0	0	0	0	0	0	0	0	0	0	0	0	0000101000	0	0	0	0	0	0	0
896	0100000000	0	0	0	0	0	0	0	0	0	0	0	0000000001	0	0	0	0	0	0	0
897	0001000000	0	0	0	0	0	0	0	0	0	0	0	0	0100000000	0	0	0	0	0	0
898	0000010000	0	0	0	0	0	0	0	0	0	0	0	0	0001000000	0	0	0	0	0	0
899	0000000100	0	0	0	0	0	0	0	0	0	0	0	0	0000010000	0	0	0	0	0	0
900	0000000001	0	0	0	0	0	0	0	0	0	0	0	0	0000000100	0	0	0	0	0	0
901	0	0100000000	0	0	0	0	0	0	0	0	0	0	0	0000000001	0	0	0	0	0	0
902	0	0001000000	0	0	0	0	0	0	0	0	0	0	0	0	0100000000	0	0	0	0	0
903	0	0000010000	0	0	0	0	0	0	0	0	0	0	0	0	0001000000	0	0	0	0	0
904	0	0000000100	0	0	0	0	0	0	0	0	0	0	0	0	0000010000	0	0	0	0	0
905	0	0000000001	0	0	0	0	0	0	0	0	0	0	0	0	0000000100	0	0	0	0	0
906	0	0	0100000000	0	0	0	0	0	0	0	0	0	0	0	0000000001	0	0	0	0	0
907	0	0	0001000000	0	0	0	0	0	0	0	0	0	0	0	0	0100000000	0	0	0	0
908	0	0	0000010000	0	0	0	0	0	0	0	0	0	0	0	0	0001000000	0	0	0	0
909	0	0	0000000100	0	0	0	0	0	0	0	0	0	0	0	0	0000010000	0	0	0	0

	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150-159	160-169	170-179	180-189	190-199
910	0	0	0000000001	0	0	0	0	0	0	0	0	0	0	0	0	0000000100	0	0	0	0
911	0	0	0	0100000000	0	0	0	0	0	0	0	0	0	0	0	0000000001	0	0	0	0
912	0	0	0	0001000000	0	0	0	0	0	0	0	0	0000000001	0	0	0	0100000000	0	0	0
913	0	0	0	0000010000	0	0	0	0	0	0	0	0	0	0100000000	0	0	0001000000	0	0	0
914	0	0	0	0000000100	0	0	0	0	0	0	0	0	0	0001000000	0	0	0000010000	0	0	0
915	0	0	0	0000000001	0	0	0	0	0	0	0	0	0	0000010000	0	0	0000000100	0	0	0
916	0	0	0	0	0100000000	0	0	0	0	0	0	0	0	0000000100	0	0	0000000001	0	0	0
917	0	0	0	0	0001000000	0	0	0	0	0	0	0	0	0000000001	0	0	0	0100000000	0	0
918	0	0	0	0	0000010000	0	0	0	0	0	0	0	0	0	0100000000	0	0	0001000000	0	0
919	0	0	0	0	0000000100	0	0	0	0	0	0	0	0	0	0001000000	0	0	0000010000	0	0
920	0	0	0	0	0000000001	0	0	0	0	0	0	0	0	0	0000010000	0	0	0000000100	0	0
921	0	0	0	0	0	0100000000	0	0	0	0	0	0	0	0	0000000100	0	0	0000000001	0	0
922	0	0	0	0	0	0001000000	0	0	0	0	0	0	0	0	0000000001	0	0	0	0100000000	0
923	0	0	0	0	0	0000010000	0	0	0	0	0	0	0	0	0	0100000000	0	0	0001000000	0
924	0	0	0	0	0	0000000100	0	0	0	0	0	0	0	0	0	0001000000	0	0	0000010000	0
925	0	0	0	0	0	0000000001	0	0	0	0	0	0	0	0	0	0000010000	0	0	0000000100	0
926	0	0	0	0	0	0	0100000000	0	0	0	0	0	0	0	0	0000000100	0	0	0000000001	0
927	0	0	0	0	0	0	0001000000	0	0	0	0	0	0	0	0	0000000001	0	0	0	0100000000
928	0	0	0	0	0	0	0000010000	0	0	0	0	0	0	0	0	0	0100000000	0	0	0001000000
929	0	0	0	0	0	0	0000000100	0	0	0	0	0	0	0	0	0	0001000000	0	0	0000010000
930	0	0	0	0	0	0	0000000001	0	0	0	0	0	0	0	0	0	0000010000	0	0	0000000100
931	0	0	0	0	0	0	0	0100000000	0	0	0	0	0	0	0	0	0000000100	0	0	0000000001
932	0	0	0	0	0	0	0	0001000000	0	0	0	0	0	0	0	0	0000000001	0	0	0
933	0	0	0	0	0	0	0	0000010000	0	0	0	0	0	0	0	0	0	0100000000	0	0
934	0	0	0	0	0	0	0	0000000100	0	0	0	0	0	0	0	0	0	0001000000	0	0
935	0	0	0	0	0	0	0	0000000001	0	0	0	0	0	0	0	0	0	0000010000	0	0
936	0	0	0	0	0	0	0	0	0100000000	0	0	0	0	0	0	0	0	0000000100	0	0
937	0	0	0	0	0	0	0	0	0001000000	0	0	0	0	0	0	0	0	0000000001	0	0
938	0	0	0	0	0	0	0	0	0000010000	0	0	0	0	0	0	0	0	0	0100000000	0
939	0	0	0	0	0	0	0	0	0000000100	0	0	0	0	0	0	0	0	0	0001000000	0
940	0	0	0	0	0	0	0	0	0000000001	0	0	0	0	0	0	0	0	0	0000010000	0
941	0	0	0	0	0	0	0	0	0	0100000000	0	0	0	0	0	0	0	0	0000000100	0
942	0	0	0	0	0	0	0	0	0	0001000000	0	0	0	0	0	0	0	0	0000000001	0
943	0	0	0	0	0	0	0	0	0	0000010000	0	0	0	0	0	0	0	0	0	0100000000
944	0	0	0	0	0	0	0	0	0	0000000100	0	0	0	0	0	0	0	0	0	0001000000
945	0	0	0	0	0	0	0	0	0	0000000001	0	0	0	0	0	0	0	0	0	0000010000
946	0	0	0	0	0	0	0	0	0	0	0100000000	0	0	0	0	0	0	0	0	0000000100
947	0	0	0	0	0	0	0	0	0	0	0001000000	0	0	0	0	0	0	0	0	0000000001
948	0	0	0	0	0	0	0	0	0	0	0000010000	0	0	0	0	0	0	0	0	0
949	0	0	0	0	0	0	0	0	0	0	0000000100	0	0	0	0	0	0	0	0	0
950	0	0	0	0	0	0	0	0	0	0	0000000001	0	0	0	0	0	0	0	0	0
951	0	0	0	0	0	0	0	0	0	0	0	0100000000	0	0	0	0	0	0	0	0
952	0	0	0	0	0	0	0	0	0	0	0	0001000000	0	0	0	0	0	0	0	0
953	0	0	0	0	0	0	0	0	0	0	0	0000010000	0	0	0	0	0	0	0	0
954	0	0	0	0	0	0	0	0	0	0	0	0000000100	0	0	0	0	0	0	0	0
955	0	0	0	0	0	0	0	0	0	0	0	0000000001	0	0	0	0	0	0	0	0
956	0	0	0	0	0	0	0	0	0	0	0	0	0100000000	0	0	0	0	0	0	0
957	0	0	0	0	0	0	0	0	0	0	0	0	0001000000	0	0	0	0	0	0	0
958	0	0	0	0	0	0	0	0	0	0	0	0	0000010000	0	0	0	0	0	0	0
959	0	0	0	0	0	0	0	0	0	0	0000010101	0	0000000100	0	0	0	0	0	0	0
960	0	0	0	0	0	0	0	0	0	0	0000010100	0	0	0	0	0	0	0	0	0
961	0	0	0	0	0	0	0	0	0	0	0000010000	0100000000	0	0	0	0	0	0	0	0
962	0	0	0	0	0	0	0	0	0	0	0000010100	0100000000	0	0	0	0	0	0	0	0
963	0	0	0	0	0	0	0	0	0	0	0000010001	0100000000	0	0	0	0	0	0	0	0
964	0	0	0	0	0	0	0	0	0	0	0000000101	0100000000	0	0	0	0	0	0	0	0
965	0	0	0	0	0	0	0	0	0	0	0000000101	0100000000	0	0	0	0	0	0	0	0
966	0	0	0	0	0	0	0	0	0	0	0000010000	0100000000	0	0	0	0	0	0	0	0
967	0	0	0	0	0	0	0	0	0	0	0000010000	0100000000	0	0	0	0	0	0	0	0
968	0	0	0	0	0	0	0	0	0	0	0000010101	0	0	0	0	0	0	0	0	0
969	0	0	0	0	0	0	0	0	0	0	0000010101	0	0	0	0	0	0	0	0	0
970	0	0	0	0	0	0	0	0	0	0	0000010100	0100000000	0	0	0	0	0	0	0	0
971	0	0	0	0	0	0	0	0	0	0	0000000101	0100000000	0	0	0	0	0	0	0	0
972	0	0	0	0	0	0	0	0	0	0	0000000101	0100000000	0	0	0	0	0	0	0	0
973	0	0	0	0	0	0	0	0	0	0	0000000101	0100000000	0	0	0	0	0	0	0	0
974	0	0	0	0	0	0	0	0	0	0	0000000101	0100000000	0	0	0	0	0	0	0	0
975	0	0	0	0	0	0	0	0	0	0	0000010101	0100000000	0	0	0	0	0	0	0	0
976	0	0	0	0	0	0	0	0	0	0	0000010001	0	0	0	0	0	0	0	0	0
977	0	0	0	0	0	0	0	0	0	0	0000000100	0100000000	0	0	0	0	0	0	0	0
978	0	0	0	0	0	0	0	0	0	0	0000010101	0	0	0	0	0	0	0	0	0
979	0	0	0	0	0	0	0	0	0	0	0000010101	0	0	0	0	0	0	0	0	0
980	0	0	0	0	0	0	0	0	0	0	0000010001	0100000000	0	0	0	0	0	0	0	0
981	0	0	0	0	0	0	0	0	0	0	0000010101	0100000000	0	0	0	0	0	0	0	0
982	0	0	0	0	0	0	0	0	0	0	0000010100	0	0	0	0	0	0	0	0	0
983	0	0	0	0	0	0	0	0	0	0	0	0001010100	0	0	0	0	0	0	0	0
984	0	0	0	0	0	0	0	0	0	0	0	0001010000	0	0	0	0	0	0	0	0
985	0	0	0	0	0	0	0	0	0	0	0	0001000001	0	0	0	0	0	0	0	0
986	0	0	0	0	0	0	0	0	0	0	0	0001010001	0	0	0	0	0	0	0	0
987	0	0	0	0	0	0	0	0	0	0	0	0001000101	0	0	0	0	0	0	0	0
988	0	0	0	0	0	0	0	0	0	0	0	0000010101	0	0	0	0	0	0	0	0
989	0	0	0	0	0	0	0	0	0	0	0	0000010101	0	0	0	0	0	0	0	0
990	0	0	0	0	0	0	0	0	0	0	0	0001000001	0	0	0	0	0	0	0	0
991	0	0	0	0	0	0	0	0	0	0	0	0001000001	0	0	0	0	0	0	0	0
992	0	0	0	0	0	0	0	0	0	0	0	0001010100	0	0	0	0	0	0	0	0
993	0	0	0	0	0	0	0	0	0	0	0	0001010100	0	0	0	0	0	0	0	0
994	0	0	0	0	0	0	0	0	0	0	0	0001010001	0	0	0	0	0	0	0	0
995	0	0	0	0	0	0	0	0	0	0	0	0000010101	0	0	0	0	0	0	0	0
996	0	0	0	0	0	0	0	0	0	0	0	0000010101	0	0	0	0	0	0	0	0
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999	0	0	0	0	0	0	0	0	0	0	0	0001010101	0	0	0	0	0	0	0	0
1000	0	0	0	0	0	0	0	0	0	0	0	0001000100	0	0	0	0	0	0	0	0
1001	0	0	0	0	0	0	0	0	0	0	0	0000010001	0	0	0	0	0	0	0	0
1002	0	0	0	0	0	0	0	0	0	0	0	0001010100	0	0	0	0	0	0	0	0
1003	0	0	0	0	0	0	0	0	0	0	0	0001010100	0	0	0	0	0	0	0	0
1004	0	0	0	0	0	0	0	0	0	0	0	0001000101	0	0	0	0	0	0	0	0
1005	0	0	0	0	0	0	0	0	0	0	0	0001010101	0	0	0	0	0	0	0	0
1006	0	0	0	0	0	0	0	0	0	0	0	0001010000	0	0	0	0	0	0	0	0
1007	0	0	0	0	0	0	0	0	0	0	0	0	0101010000	0	0	0	0	0	0	0
1008	0	0	0	0	0	0	0	0	0	0	0	0	0101000000	0	0	0	0	0	0	0
1009	0	0	0	0	0	0	0	0	0	0	0	0	0100000100	0	0	0	0	0	0	0
1010	0	0	0	0	0	0	0	0	0	0	0	0	0101000100	0	0	0	0	0	0	0
1011	0	0	0	0	0	0	0	0	0	0	0	0	0100010100	0	0	0	0	0	0	0
1012	0	0	0	0	0	0	0	0	0	0	0	0	0001010100	0	0	0	0	0	0	0
1013	0	0	0	0	0	0	0	0	0	0	0	0	0001010100	0	0	0	0	0	0	0
1014	0	0	0	0	0	0	0	0	0	0	0	0	0100000100	0	0	0	0	0	0	0
1015	0	0	0	0	0	0	0	0	0	0	0	0	0100000100	0	0	0	0	0	0	0
1016	0	0	0	0	0	0	0	0	0	0	0	0	0101010000	0	0	0	0	0	0	0
1017	0	0	0	0	0	0	0	0	0	0	0	0	0101010000	0	0	0	0	0	0	0
1018	0	0	0	0	0	0	0	0	0	0	0	0	0101000100	0	0	0	0	0	0	0
1019	0	0	0	0	0	0	0	0	0	0	0	0	0001010100	0	0	0	0	0	0	0
1020	0	0	0	0	0	0	0	0	0	0	0	0	0001010100	0	0	0	0	0	0	0
1021	0	0	0	0	0	0	0	0	0	0	0	0	0001010100	0	0	0	0	0	0	0
1022	0	0	0	0	0	0	0	0	0	0	0	0	0001010100	0	0	0	0	0	0	0
1023	0	0	0	0	0	0	0	0	0	0	0	0	0101010100	0	0	0	0	0	0	0
1024	0	0	0	0	0	0	0	0	0	0	0	0	0100010000	0	0	0	0	0	0	0
1025	0	0	0	0	0	0	0	0	0	0	0	0	0001000100	0	0	0	0	0	0	0
1026	0	0	0	0	0	0	0	0	0	0	0	0	0101010000	0	0	0	0	0	0	0
1027	0	0	0	0	0	0	0	0	0	0	0	0	0101010000	0	0	0	0	0	0	0
1028	0	0	0	0	0	0	0	0	0	0	0	0	0100010100	0	0	0	0	0	0	0
1029	0	0	0	0	0	0	0	0	0	0	0	0	0101010100	0	0	0	0	0	0	0
1030	0	0	0	0	0	0	0	0	0	0	0	0	0101000000	0	0	0	0	0	0	0
1031	0	0	0	0	0	0	0	0	0	0000000101	0100000000	0	0	0	0	0	0	0	0	0
1032	0	0	0	0	0	0	0	0	0	0000000101	0	0	0	0	0	0	0	0	0	0
1033	0	0	0	0	0	0	0	0	0	0000000100	0001000000	0	0	0	0	0	0	0	0	0
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1035	0	0	0	0	0	0	0	0	0	0000000100	0101000000	0	0	0	0	0	0	0	0	0
1036	0	0	0	0	0	0	0	0	0	0000000001	0101000000	0	0	0	0	0	0	0	0	0
1037	0	0	0	0	0	0	0	0	0	0000000001	0101000000	0	0	0	0	0	0	0	0	0
1038	0	0	0	0	0	0	0	0	0	0000000100	0001000000	0	0	0	0	0	0	0	0	0
1039	0	0	0	0	0	0	0	0	0	0000000100	0001000000	0	0	0	0	0	0	0	0	0

	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150-159	160-169	170-179	180-189	190-199
1040	0	0	0	0	0	0	0	0	0	0000000101	0100000000	0	0	0	0	0	0	0	0	0
1041	0	0	0	0	0	0	0	0	0	0000000101	0100000000	0	0	0	0	0	0	0	0	0
1042	0	0	0	0	0	0	0	0	0	0000000101	0001000000	0	0	0	0	0	0	0	0	0
1043	0	0	0	0	0	0	0	0	0	0000000001	0101000000	0	0	0	0	0	0	0	0	0
1044	0	0	0	0	0	0	0	0	0	0000000001	0101000000	0	0	0	0	0	0	0	0	0
1045	0	0	0	0	0	0	0	0	0	0000000001	0101000000	0	0	0	0	0	0	0	0	0
1046	0	0	0	0	0	0	0	0	0	0000000001	0101000000	0	0	0	0	0	0	0	0	0
1047	0	0	0	0	0	0	0	0	0	0000000101	0101000000	0	0	0	0	0	0	0	0	0
1048	0	0	0	0	0	0	0	0	0	0000000100	0100000000	0	0	0	0	0	0	0	0	0
1049	0	0	0	0	0	0	0	0	0	0000000001	0001000000	0	0	0	0	0	0	0	0	0
1050	0	0	0	0	0	0	0	0	0	0000000101	0100000000	0	0	0	0	0	0	0	0	0
1051	0	0	0	0	0	0	0	0	0	0000000101	0100000000	0	0	0	0	0	0	0	0	0
1052	0	0	0	0	0	0	0	0	0	0000000100	0101000000	0	0	0	0	0	0	0	0	0
1053	0	0	0	0	0	0	0	0	0	0000000101	0101000000	0	0	0	0	0	0	0	0	0
1054	0	0	0	0	0	0	0	0	0	0000000101	0	0	0	0	0	0	0	0	0	0

	200-209	210-219	220-229	230-239	240-249	250-259	260-269	270-279	280-289	290-299	300-309	310-319	320-329	330-339	340-349	350-359	360-369	370-379	380-389	390-399
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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96	0000000010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
97	0	1000000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
98	0	0010000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
99	0	0000100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100	0100000000	0000001000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
101	0001000000	0000000010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
102	0000010000	0	1000000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
103	0000000100	0	0010000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104	0000000001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105	0	0100000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
106	0	0001000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
107	0	0000010000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
108	1000000000	0000000100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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111	0000001000	0	0001000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
112	0	0	0000010000	0	0000000010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
113	0	0	0000000100	0	0	1000000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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118	0	0	0000000010	0000000100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
119	0	0	0	1000000001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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128	0	0	0	0	0	0000001111	1111011111	1100000000	0	0	0	0	0	0	0	0	0	0	0	0
129	0	0	0	0	0	0000001110	0101111111	1100000000	0	0	0	0	0	0	0	0	0	0	0	0

	200-209	210-219	220-229	230-239	240-249	250-259	260-269	270-279	280-289	290-299	300-309	310-319	320-329	330-339	340-349	350-359	360-369	370-379	380-389	390-399
130	0	0	0	0	0	0000001011	1101111111	1000000000	0	0	0	0	0	0	0	0	0	0	0	0
131	0	0	0	0	0	0000001111	1111111011	1000000000	0	0	0	0	0	0	0	0	0	0	0	0
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143	0	0	0	0	0	0000001010	1011111010	1100000000	0	0	0	0	0	0	0	0	0	0	0	0
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151	0	0	0	0	0	0000000111	1100111110	1100000000	0	0	0	0	0	0	0	0	0	0	0	0
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162	0	0	0	0	0	0000000011	0	0100000000	0	0	0	0	0	0	0	0	0	0	0	0
163	0	0	0	0	0	0000001100	0000101001	0	0	0	0	0	0	0	0	0	0	0	0	0
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167	0	0	0	0	0	0000001000	0010000010	0	0	0	0	0	0	0	0	0	0	0	0	0
168	0	0	0	0	0	0000000100	1000000010	0	0	0	0	0	0	0	0	0	0	0	0	0
169	0	0	0	0	0	0	0010000001	1000000000	0	0	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0000000100	0010000100	0	0	0	0	0	0	0	0	0	0	0	0	0
171	0	0	0	0	0	0000000010	0000000010	0	0	0	0	0	0	0	0	0	0	0	0	0
172	0	0	0	0	0	0000000001	0000011100	0	0	0	0	0	0	0	0	0	0	0	0	0
173	0	0	0	0	0	0000001000	0100010000	0	0	0	0	0	0	0	0	0	0	0	0	0
174	0	0	0	0	0	0	1000010010	1000000000	0	0	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0000100100	0100000000	0	0	0	0	0	0	0	0	0	0	0	0
176	0	0	0	0	0	0	0	0011111111	0111111100	0	0	0	0	0	0	0	0	0	0	0
177	0	0	0	0	0	0	0	0011100101	1111111100	0	0	0	0	0	0	0	0	0	0	0
178	0	0	0	0	0	0	0	0010111101	1111111000	0	0	0	0	0	0	0	0	0	0	0
179	0	0	0	0	0	0	0	0011111111	1110111000	0	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0011111001	1101111100	0	0	0	0	0	0	0	0	0	0	0
181	0	0	0	0	0	0	0	0011101011	1111110100	0	0	0	0	0	0	0	0	0	0	0
182	0	0	0	0	0	0	0	0010111111	0011110100	0	0	0	0	0	0	0	0	0	0	0
183	0	0	0	0	0	0	0	0011101111	1011001100	0	0	0	0	0	0	0	0	0	0	0
184	0	0	0	0	0	0	0	0011011111	1100101100	0	0	0	0	0	0	0	0	0	0	0
185	0	0	0	0	0	0	0	0011010111	0011110100	0	0	0	0	0	0	0	0	0	0	0
186	0	0	0	0	0	0	0	0001011010	1110111100	0	0	0	0	0	0	0	0	0	0	0
187	0	0	0	0	0	0	0	0010111111	1111100000	0	0	0	0	0	0	0	0	0	0	0
188	0	0	0	0	0	0	0	0011111110	1111001100	0	0	0	0	0	0	0	0	0	0	0
189	0	0	0	0	0	0	0	0001100111	1111011100	0	0	0	0	0	0	0	0	0	0	0
190	0	0	0	0	0	0	0	0011111000	0111111000	0	0	0	0	0	0	0	0	0	0	0
191	0	0	0	0	0	0	0	0010101011	1110101100	0	0	0	0	0	0	0	0	0	0	0
192	0	0	0	0	0	0	0	0000101111	1111111100	0	0	0	0	0	0	0	0	0	0	0
193	0	0	0	0	0	0	0	0011111101	0111100100	0	0	0	0	0	0	0	0	0	0	0
194	0	0	0	0	0	0	0	0010001101	1111111100	0	0	0	0	0	0	0	0	0	0	0
195	0	0	0	0	0	0	0	0011111110	1010011100	0	0	0	0	0	0	0	0	0	0	0
196	0	0	0	0	0	0	0	0011001110	1101111100	0	0	0	0	0	0	0	0	0	0	0
197	0	0	0	0	0	0	0	0010111110	1001110000	0	0	0	0	0	0	0	0	0	0	0
198	0	0	0	0	0	0	0	0010111011	1100111100	0	0	0	0	0	0	0	0	0	0	0
199	0	0	0	0	0	0	0	0001111100	1111101100	0	0	0	0	0	0	0	0	0	0	0
200	0	0	0	0	0	0	0	0010001100	0000101000	0	0	0	0	0	0	0	0	0	0	0
201	0	0	0	0	0	0	0	0000110001	1010000000	0	0	0	0	0	0	0	0	0	0	0
202	0	0	0	0	0	0	0	0000000001	1101100000	0	0	0	0	0	0	0	0	0	0	0
203	0	0	0	0	0	0	0	0010011001	0000010000	0	0	0	0	0	0	0	0	0	0	0
204	0	0	0	0	0	0	0	0001000000	0001011000	0	0	0	0	0	0	0	0	0	0	0
205	0	0	0	0	0	0	0	0000100010	0010001100	0	0	0	0	0	0	0	0	0	0	0
206	0	0	0	0	0	0	0	0000101000	0100001000	0	0	0	0	0	0	0	0	0	0	0
207	0	0	0	0	0	0	0	0000000011	0110001000	0	0	0	0	0	0	0	0	0	0	0
208	0	0	0	0	0	0	0	0001000100	0010000100	0	0	0	0	0	0	0	0	0	0	0
209	0	0	0	0	0	0	0	0000100001	0100000100	0	0	0	0	0	0	0	0	0	0	0
210	0	0	0	0	0	0	0	0000110000	0000000100	0	0	0	0	0	0	0	0	0	0	0
211	0	0	0	0	0	0	0	0011000000	1010010000	0	0	0	0	0	0	0	0	0	0	0
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213	0	0	0	0	0	0	0	0001011000	0000000100	0	0	0	0	0	0	0	0	0	0	0
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217	0	0	0	0	0	0	0	0000000010	0000011000	0	0	0	0	0	0	0	0	0	0	0
218	0	0	0	0	0	0	0	0001000010	0001000000	0	0	0	0	0	0	0	0	0	0	0
219	0	0	0	0	0	0	0	0000100000	0000100000	0	0	0	0	0	0	0	0	0	0	0
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223	0	0	0	0	0	0	0	0	1001000100	0	0	0	0	0	0	0	0	0	0	0
224	0	0	0	0	0	0	0	0	0000000011	1111110111	1111000000	0	0	0	0	0	0	0	0	0
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226	0	0	0	0	0	0	0	0	0000000010	1111011111	1110000000	0	0	0	0	0	0	0	0	0
227	0	0	0	0	0	0	0	0	0000000011	1111111110	1110000000	0	0	0	0	0	0	0	0	0
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230	0	0	0	0	0	0	0	0	0000000010	1111110011	1101000000	0	0	0	0	0	0	0	0	0
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234	0	0	0	0	0	0	0	0	0000000001	0110101110	1111000000	0	0	0	0	0	0	0	0	0
235	0	0	0	0	0	0	0	0	0000000010	1111111111	1000000000	0	0	0	0	0	0	0	0	0
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237	0	0	0	0	0	0	0	0	0000000001	1001111111	0111000000	0	0	0	0	0	0	0	0	0
238	0	0	0	0	0	0	0	0	0000000011	1110000111	1110000000	0	0	0	0	0	0	0	0	0
239	0	0	0	0	0	0	0	0	0000000010	1010111110	1011000000	0	0	0	0	0	0	0	0	0
240	0	0	0	0	0	0	0	0	0	1011111111	1111000000	0	0	0	0	0	0	0	0	0
241	0	0	0	0	0	0	0	0	0000000011	1111010111	1001000000	0	0	0	0	0	0	0	0	0
242	0	0	0	0	0	0	0	0	0000000010	0011011111	1111000000	0	0	0	0	0	0	0	0	0
243	0	0	0	0	0	0	0	0	0000000011	1111101010	0111000000	0	0	0	0	0	0	0	0	0
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245	0	0	0	0	0	0	0	0	0000000010	1111101001	1100000000	0	0	0	0	0	0	0	0	0
246	0	0	0	0	0	0	0	0	0000000010	1110111100	1111000000	0	0	0	0	0	0	0	0	0
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248	0	0	0	0	0	0	0	0	0000000010	0011000000	1010000000	0	0	0	0	0	0	0	0	0
249	0	0	0	0	0	0	0	0	0	1100011010	0	0	0	0	0	0	0	0	0	0
250	0	0	0	0	0	0	0	0	0	0000011101	1000000000	0	0	0	0	0	0	0	0	0
251	0	0	0	0	0	0	0	0	0000000010	0110010000	0100000000	0	0	0	0	0	0	0	0	0
252	0	0	0	0	0	0	0	0	0000000001	0000000001	0110000000	0	0	0	0	0	0	0	0	0
253	0	0	0	0	0	0	0	0	0	1000100010	0011000000	0	0	0	0	0	0	0	0	0
254	0	0	0	0	0	0	0	0	0	1010000100	0010000000	0	0	0	0	0	0	0	0	0
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256	0	0	0	0	0	0	0	0	0000000001	0001000010	0001000000	0	0	0	0	0	0	0	0	0
257	0	0	0	0	0	0	0	0	0	1000010100	0001000000	0	0	0	0	0	0	0	0	0
258	0	0	0	0	0	0	0	0	0	1100000000	0001000000	0	0	0	0	0	0	0	0	0
259	0	0	0	0	0	0	0	0	0000000011	0000001010	0100000000	0	0	0	0	0	0	0	0	0

	200-209	210-219	220-229	230-239	240-249	250-259	260-269	270-279	280-289	290-299	300-309	310-319	320-329	330-339	340-349	350-359	360-369	370-379	380-389	390-399
260	0	0	0	0	0	0	0	0	0000000001	1010000000	0	0	0	0	0	0	0	0	0	0
261	0	0	0	0	0	0	0	0	0000000001	0110000000	0001000000	0	0	0	0	0	0	0	0	0
262	0	0	0	0	0	0	0	0	0000000001	0001011000	0	0	0	0	0	0	0	0	0	0
263	0	0	0	0	0	0	0	0	0000000010	0000100000	1000000000	0	0	0	0	0	0	0	0	0
264	0	0	0	0	0	0	0	0	0000000001	0010000000	1000000000	0	0	0	0	0	0	0	0	0
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266	0	0	0	0	0	0	0	0	0000000001	0000100001	0	0	0	0	0	0	0	0	0	0
267	0	0	0	0	0	0	0	0	0	1000000000	1000000000	0	0	0	0	0	0	0	0	0
268	0	0	0	0	0	0	0	0	0	0100000111	0	0	0	0	0	0	0	0	0	0
269	0	0	0	0	0	0	0	0	0000000010	0001000100	0	0	0	0	0	0	0	0	0	0
270	0	0	0	0	0	0	0	0	0	0010000100	1010000000	0	0	0	0	0	0	0	0	0
271	0	0	0	0	0	0	0	0	0	0000001001	0001000000	0	0	0	0	0	0	0	0	0
272	0	0	0	0	0	0	0	0	0	0	0000111111	1101111111	0	0	0	0	0	0	0	0
273	0	0	0	0	0	0	0	0	0	0	0000111001	0111111111	0	0	0	0	0	0	0	0
274	0	0	0	0	0	0	0	0	0	0	0000101111	0111111110	0	0	0	0	0	0	0	0
275	0	0	0	0	0	0	0	0	0	0	0000111111	1111101110	0	0	0	0	0	0	0	0
276	0	0	0	0	0	0	0	0	0	0	0000111110	0111011111	0	0	0	0	0	0	0	0
277	0	0	0	0	0	0	0	0	0	0	0000111010	1111111101	0	0	0	0	0	0	0	0
278	0	0	0	0	0	0	0	0	0	0	0000101111	1100111101	0	0	0	0	0	0	0	0
279	0	0	0	0	0	0	0	0	0	0	0000111011	1110110011	0	0	0	0	0	0	0	0
280	0	0	0	0	0	0	0	0	0	0	0000110111	1111001011	0	0	0	0	0	0	0	0
281	0	0	0	0	0	0	0	0	0	0	0000110101	1100111101	0	0	0	0	0	0	0	0
282	0	0	0	0	0	0	0	0	0	0	0000010110	1011101111	0	0	0	0	0	0	0	0
283	0	0	0	0	0	0	0	0	0	0	0000101111	1111111000	0	0	0	0	0	0	0	0
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285	0	0	0	0	0	0	0	0	0	0	0000011001	1111110111	0	0	0	0	0	0	0	0
286	0	0	0	0	0	0	0	0	0	0	0000111110	0001111110	0	0	0	0	0	0	0	0
287	0	0	0	0	0	0	0	0	0	0	0000101010	1111101011	0	0	0	0	0	0	0	0
288	0	0	0	0	0	0	0	0	0	0	0000001011	1111111111	0	0	0	0	0	0	0	0
289	0	0	0	0	0	0	0	0	0	0	0000111111	0101111001	0	0	0	0	0	0	0	0
290	0	0	0	0	0	0	0	0	0	0	0000100011	0111111111	0	0	0	0	0	0	0	0
291	0	0	0	0	0	0	0	0	0	0	0000111111	1010100111	0	0	0	0	0	0	0	0
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293	0	0	0	0	0	0	0	0	0	0	0000101111	1010011100	0	0	0	0	0	0	0	0
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295	0	0	0	0	0	0	0	0	0	0	0000011111	0011111011	0	0	0	0	0	0	0	0
296	0	0	0	0	0	0	0	0	0	0	0000100011	0000001010	0	0	0	0	0	0	0	0
297	0	0	0	0	0	0	0	0	0	0	0000001100	0110100000	0	0	0	0	0	0	0	0
298	0	0	0	0	0	0	0	0	0	0	0	0111011000	0	0	0	0	0	0	0	0
299	0	0	0	0	0	0	0	0	0	0	0000100110	0100000100	0	0	0	0	0	0	0	0
300	0	0	0	0	0	0	0	0	0	0	0000010000	0000010110	0	0	0	0	0	0	0	0
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302	0	0	0	0	0	0	0	0	0	0	0000001010	0001000010	0	0	0	0	0	0	0	0
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305	0	0	0	0	0	0	0	0	0	0	0000001000	0101000001	0	0	0	0	0	0	0	0
306	0	0	0	0	0	0	0	0	0	0	0000001100	0000000001	0	0	0	0	0	0	0	0
307	0	0	0	0	0	0	0	0	0	0	0000110000	0010100100	0	0	0	0	0	0	0	0
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310	0	0	0	0	0	0	0	0	0	0	0000010001	0110000000	0	0	0	0	0	0	0	0
311	0	0	0	0	0	0	0	0	0	0	0000100000	1000001000	0	0	0	0	0	0	0	0
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313	0	0	0	0	0	0	0	0	0	0	0	1000000110	0	0	0	0	0	0	0	0
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316	0	0	0	0	0	0	0	0	0	0	0000000100	0001110000	0	0	0	0	0	0	0	0
317	0	0	0	0	0	0	0	0	0	0	0000100001	0001000000	0	0	0	0	0	0	0	0
318	0	0	0	0	0	0	0	0	0	0	0000000010	0001001010	0	0	0	0	0	0	0	0
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321	0	0	0	0	0	0	0	0	0	0	0	0	1110010111	1111110000	0	0	0	0	0	0
322	0	0	0	0	0	0	0	0	0	0	0	0	1011110111	1111100000	0	0	0	0	0	0
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338	0	0	0	0	0	0	0	0	0	0	0	0	1000110111	1111110000	0	0	0	0	0	0
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340	0	0	0	0	0	0	0	0	0	0	0	0	1100111011	0111110000	0	0	0	0	0	0
341	0	0	0	0	0	0	0	0	0	0	0	0	1011111010	0111000000	0	0	0	0	0	0
342	0	0	0	0	0	0	0	0	0	0	0	0	1011101111	0011110000	0	0	0	0	0	0
343	0	0	0	0	0	0	0	0	0	0	0	0	0111110011	1110110000	0	0	0	0	0	0
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345	0	0	0	0	0	0	0	0	0	0	0	0	0011000110	1000000000	0	0	0	0	0	0
346	0	0	0	0	0	0	0	0	0	0	0	0	0000000111	0110000000	0	0	0	0	0	0
347	0	0	0	0	0	0	0	0	0	0	0	0	1001100100	0001000000	0	0	0	0	0	0
348	0	0	0	0	0	0	0	0	0	0	0	0	0100000000	0101100000	0	0	0	0	0	0
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354	0	0	0	0	0	0	0	0	0	0	0	0	0011000000	0000010000	0	0	0	0	0	0
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356	0	0	0	0	0	0	0	0	0	0	0	0	0110100000	0	0	0	0	0	0	0
357	0	0	0	0	0	0	0	0	0	0	0	0	0101100000	0000010000	0	0	0	0	0	0
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359	0	0	0	0	0	0	0	0	0	0	0	0	1000001000	0010000000	0	0	0	0	0	0
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368	0	0	0	0	0	0	0	0	0	0	0	0	0	0000001111	1111011111	1100000000	0	0	0	0
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	200-209	210-219	220-229	230-239	240-249	250-259	260-269	270-279	280-289	290-299	300-309	310-319	320-329	330-339	340-349	350-359	360-369	370-379	380-389	390-399
390	0	0	0	0	0	0	0	0	0	0	0	0	0	0000001011	1011110011	1100000000	0	0	0	0
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509	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000000010	0001000100	0	0
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511	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000001001	0001000000	0
512	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000111111	1101111111
513	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000111001	0111111111
514	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000101111	0111111110
515	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000111111	1111101110
516	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000111110	0111011111
517	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000111010	1111111101
518	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000101111	1100111101
519	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000111011	1110110011

	200-209	210-219	220-229	230-239	240-249	250-259	260-269	270-279	280-289	290-299	300-309	310-319	320-329	330-339	340-349	350-359	360-369	370-379	380-389	390-399
520	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000110111	1111001011
521	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000110101	1100111101
522	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000010110	1011101111
523	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000101111	1111111000
524	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000111111	1011110011
525	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000011001	1111110111
526	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000111110	0001111110
527	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000101010	1111101011
528	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000001011	1111111111
529	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000111111	0101111001
530	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000100011	0111111111
531	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000111111	1010100111
532	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000110011	1011011111
533	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000101111	1010011100
534	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000101110	1111001111
535	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000011111	0011111011
536	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000100011	0000001010
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539	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000100110	0100000100
540	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000010000	0000010110
541	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000001000	1000100011
542	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000001010	0001000010
543	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1101100010
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546	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000001100	0000000001
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548	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000011010	0
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550	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000010001	0110000000
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560	0010001000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
561	1010101000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
562	1010101000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
563	1010000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
564	1000101000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
565	1010100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
566	1000101000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
567	1010101000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
568	1010101000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
569	1010101000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
570	1010101000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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575	1010101000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
576	0000100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
577	0010101000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
578	1000101000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
579	0010001000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
580	0010001000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
581	1010101000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
582	1000000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
583	1000101000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
584	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
585	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
586	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
587	0010000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
588	0000001000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
589	0000001000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
590	1000100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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592	0010000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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594	0010000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
595	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
596	0010000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
597	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
598	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
599	0000001000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
600	0010000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
601	0000100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
602	0000101000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
603	1000000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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605	0000100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
606	0000100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
607	1000001000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
608	0	1000100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
609	0000000010	1010100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610	0000000010	1010100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
611	0000000010	1000000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
612	0000000010	0010100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
613	0000000010	1010000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
614	0000000010	0010100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
615	0000000010	1010100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
616	0000000010	1010100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
617	0000000010	1010100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
618	0000000010	1010100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
619	0000000010	1000100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
620	0000000010	0010000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
621	0000000010	1010000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
622	0000000010	1010100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
623	0000000010	1010100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
624	0	0010000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
625	0	1010100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
626	0000000010	0010100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
627	0	1000100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
628	0	1000100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
629	0000000010	1010100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
630	0000000010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
631	0000000010	0010100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
632	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
633	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
634	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
635	0	1000000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
636	0	0000100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
637	0	0000100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
638	0000000010	0010000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
639	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
640	0	1000000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
641	0	0000100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
642	0	1000000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	200-209	210-219	220-229	230-239	240-249	250-259	260-269	270-279	280-289	290-299	300-309	310-319	320-329	330-339	340-349	350-359	360-369	370-379	380-389	390-399
650	0	0010100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
651	0000000010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
652	0000000010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
653	0	0010000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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655	0000000010	0000100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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668	0	0000001000	1000000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
669	0	0000001010	1000000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
670	0	0000001010	1010000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
671	0	0000001010	1010000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
672	0	0	1000000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
673	0	0000000010	1010000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
674	0	0000001000	1010000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
675	0	0000000010	0010000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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683	0	0000000010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
684	0	0	0010000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
685	0	0	0010000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
686	0	0000001000	1000000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
687	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
688	0	0000000010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
689	0	0	0010000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
690	0	0000000010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
691	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
692	0	0000000010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
693	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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696	0	0000000010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
697	0	0	1000000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
698	0	0	1010000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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705	0	0	0000101010	1000000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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719	0	0	0000101010	1000000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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721	0	0	0000001010	1000000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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726	0	0	0000100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
727	0	0	0000100010	1000000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
728	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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778	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
779	0	0	0	0000100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	200-209	210-219	220-229	230-239	240-249	250-259	260-269	270-279	280-289	290-299	300-309	310-319	320-329	330-339	340-349	350-359	360-369	370-379	380-389	390-399
780	0	0	0	0000000010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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860	0	0	0	0	0000000010	0010000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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862	0	0	0	0	0000000010	1010100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
863	0	0	0	0	0000000010	1010100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
864	0	0	0	0	0	0010000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
865	0	0	0	0	0	1010100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
866	0	0	0	0	0000000010	0010100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
867	0	0	0	0	0	1000100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
868	0	0	0	0	0	1000100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
869	0	0	0	0	0000000010	1010100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
870	0	0	0	0	0000000010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
871	0	0	0	0	0000000010	0010100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
872	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
873	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
874	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
875	0	0	0	0	0	1000000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
876	0	0	0	0	0	0000100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
877	0	0	0	0	0	0000100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
878	0	0	0	0	0000000010	0010000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
879	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
880	0	0	0	0	0	1000000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
881	0	0	0	0	0	0000100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
882	0	0	0	0	0	1000000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
883	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
884	0	0	0	0	0	1000000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
885	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
886	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
887	0	0	0	0	0	0000100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
888	0	0	0	0	0	1000000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
889	0	0	0	0	0	0010000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
890	0	0	0	0	0	0010100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
891	0	0	0	0	0000000010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
892	0	0	0	0	0000000010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
893	0	0	0	0	0	0010000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
894	0	0	0	0	0	0010000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
895	0	0	0	0	0000000010	0000100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
896	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
897	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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899	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
900	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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903	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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908	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	200-209	210-219	220-229	230-239	240-249	250-259	260-269	270-279	280-289	290-299	300-309	310-319	320-329	330-339	340-349	350-359	360-369	370-379	380-389	390-399
910	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
911	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
912	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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929	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
932	0100000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
933	0001000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
934	0000010000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
935	0000000100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
936	0000000001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937	0	0100000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
938	0	0001000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
939	0	0000010000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
940	0	0000000100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
941	0	0000000001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
942	0	0	0100000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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945	0	0	0000000100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
946	0	0	0000000001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
947	0	0	0	0100000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
948	0100000000	0	0	0001000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
949	0001000000	0	0	0000010000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
950	0000010000	0	0	0000000100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
951	0000000100	0	0	0000000001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
952	0000000001	0	0	0	0100000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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966	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
967	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
968	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
969	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
972	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
973	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
979	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
980	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
982	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
983	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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985	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
986	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
987	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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995	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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997	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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1006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1008	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1009	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1016	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1017	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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1019	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1021	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1022	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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1024	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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1027	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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1037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1038	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1039	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	200-209	210-219	220-229	230-239	240-249	250-259	260-269	270-279	280-289	290-299	300-309	310-319	320-329	330-339	340-349	350-359	360-369	370-379	380-389	390-399
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	400-409	410-419	420-429	430-439	440-449	450-459	460-469	470-479	480-489	490-499	500-509	510-519	520-529	530-539	540-549	550-559	560-569	570-579	580-589	590-592
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563	1111111111	1011100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	001
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	200-209	210-219	220-229	230-239	240-249	250-259	260-269	270-279	280-289	290-299	300-309	310-319	320-329	330-339	340-349	350-359	360-369	370-379	380-389	390-399
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584	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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1052	0	0	0	0	0	0	0	0	0	0	0	0	0	0000011110	0	0	0	0000001011	1110100111	000
1053	0	0	0	0	0	0	0	0	0	0	0	0	0	0000010000	0	0	0	0000001011	1011110011	110
1054	0	0	0	0	0	0	0	0	0	0	0	0	0	0000010110	0	0	0	0000000111	1100111110	110

APPENDIX C

OUTPUT DATA

The following 28 pages contain an example of the matrix output from the Gaussian Elimination. There are ten bits per each column of the table. If all the bits in a cell were zero, only one zero is shown instead of ten.

This example had the following data from the execution of rAES:

The plaintext is:

0111000001101100011000010110100101101110011101000110010101111000

The ciphertext is:

1011100010110111110110000111100011100101100101011011100110100010

The key is:

1000111110100100011111110000101100110100100101011110100011000001

	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150-159	160-169	170-179	180-189
0	1100000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0110100000	0	0	0	0	0	0	0	0	0	0	0	0	1000100000	0	0	0	0	0
2	0011000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0001101000	0	0	0	0	0	0	0	0	0	0	0	0000000010	0010000000	0	0	0	0	0
4	0000110000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0000010000	0	0	0	0	0	0	0	0	0	0	0	0000000010	0010000000	0	0	0	0	0
6	0000001100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0000000100	0	0	0	0	0	0	0	0	0	0	0	0	0010100000	0	0	0	0	0
8	0000000011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0000000001	1010000000	0	0	0	0	0	0	0	0	0	0	0	0000000010	0010000000	0	0	0	0
10	0	1100000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0110100000	0	0	0	0	0	0	0	0	0	0	0	0000001000	1000000000	0	0	0	0
12	0	0011000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0001000000	0	0	0	0	0	0	0	0	0	0	0	0000001000	1000000000	0	0	0	0
14	0	0000110000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0000010000	0	0	0	0	0	0	0	0	0	0	0	0	1010000000	0	0	0	0
16	0	0000001100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0000000110	1000000000	0	0	0	0	0	0	0	0	0	0	0	0000001000	1000000000	0	0	0
18	0	0000000011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0000000001	1010000000	0	0	0	0	0	0	0	0	0	0	0	0000100010	0	0	0	0
20	0	0	1100000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0100000000	0	0	0	0	0	0	0	0	0	0	0	0000100010	0	0	0	0
22	0	0	0011000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0001000000	0	0	0	0	0	0	0	0	0	0	0	0000000010	1000000000	0	0	0
24	0	0	0000110000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0000011010	0	0	0	0	0	0	0	0	0	0	0	0	0000100010	0	0	0
26	0	0	0000001100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0000000110	1000000000	0	0	0	0	0	0	0	0	0	0	0	0010001000	0	0	0
28	0	0	0000000011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0000000001	0	0	0	0	0	0	0	0	0	0	0	0	0010001000	0	0	0
30	0	0	0	1100000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0100000000	0	0	0	0	0	0	0	0	0	0	0	0000001010	0	0	0
32	0	0	0	0011000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0001101000	0	0	0	0	0	0	0	0	0	0	0	0	0010001000	0	0
34	0	0	0	0000110000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0000011010	0	0	0	0	0	0	0	0	0	0	0	0	1000100000	0	0
36	0	0	0	0000001100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	0	0	0	0000000100	0	0	0	0	0	0	0	0	0	0	0	0	1000100000	0	0
38	0	0	0	0000000011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39	0	0	0	0000000001	0	0	0	0	0	0	0	0	0	0	0	0	0000101000	0	0
40	0	0	0	0	1100000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41	0	0	0	0	0110100000	0	0	0	0	0	0	0	0	0	0	0	0	1000100000	0
42	0	0	0	0	0011000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	0	0	0	0	0001101000	0	0	0	0	0	0	0	0	0	0	0	0000000010	0010000000	0
44	0	0	0	0	0000110000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	0	0	0	0	0000010000	0	0	0	0	0	0	0	0	0	0	0	0000000010	0010000000	0
46	0	0	0	0	0000001100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47	0	0	0	0	0000000100	0	0	0	0	0	0	0	0	0	0	0	0	0010100000	0
48	0	0	0	0	0000000011	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49	0	0	0	0	0000000001	1010000000	0	0	0	0	0	0	0	0	0	0	0	0000000010	0010000000
50	0	0	0	0	0	1100000000	0	0	0	0	0	0	0	0	0	0	0	0	0
51	0	0	0	0	0	0110100000	0	0	0	0	0	0	0	0	0	0	0	0000001000	1000000000
52	0	0	0	0	0	0011000000	0	0	0	0	0	0	0	0	0	0	0	0	0
53	0	0	0	0	0	0001000000	0	0	0	0	0	0	0	0	0	0	0	0000001000	1000000000
54	0	0	0	0	0	0000110000	0	0	0	0	0	0	0	0	0	0	0	0	0
55	0	0	0	0	0	0000010000	0	0	0	0	0	0	0	0	0	0	0	0	1010000000
56	0	0	0	0	0	0000001100	0	0	0	0	0	0	0	0	0	0	0	0	0
57	0	0	0	0	0	0000000110	1000000000	0	0	0	0	0	0	0	0	0	0	0	0000001000
58	0	0	0	0	0	0000000011	0	0	0	0	0	0	0	0	0	0	0	0	0
59	0	0	0	0	0	0000000001	1010000000	0	0	0	0	0	0	0	0	0	0	0	0000100010
60	0	0	0	0	0	0	1100000000	0	0	0	0	0	0	0	0	0	0	0	0
61	0	0	0	0	0	0	0100000000	0	0	0	0	0	0	0	0	0	0	0	0000100010
62	0	0	0	0	0	0	0011000000	0	0	0	0	0	0	0	0	0	0	0	0
63	0	0	0	0	0	0	0001000000	0	0	0	0	0	0	0	0	0	0	0	0000000010
64	0	0	0	0	0	0	0000110000	0	0	0	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0000011010	0	0	0	0	0	0	0	0	0	0	0	0
66	0	0	0	0	0	0	0000001100	0	0	0	0	0	0	0	0	0	0	0	0
67	0	0	0	0	0	0	0000000110	1000000000	0	0	0	0	0	0	0	0	0	0	0
68	0	0	0	0	0	0	0000000011	0	0	0	0	0	0	0	0	0	0	0	0
69	0	0	0	0	0	0	0000000001	0	0	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	1100000000	0	0	0	0	0	0	0	0	0	0	0
71	0	0	0	0	0	0	0	0100000000	0	0	0	0	0	0	0	0	0	0	0
72	0	0	0	0	0	0	0	0011000000	0	0	0	0	0	0	0	0	0	0	0
73	0	0	0	0	0	0	0	0001101000	0	0	0	0	0	0	0	0	0	0	0
74	0	0	0	0	0	0	0	0000110000	0	0	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0	0000011010	0	0	0	0	0	0	0	0	0	0	0
76	0	0	0	0	0	0	0	0000001100	0	0	0	0	0	0	0	0	0	0	0
77	0	0	0	0	0	0	0	0000000100	0	0	0	0	0	0	0	0	0	0	0
78	0	0	0	0	0	0	0	0000000011	0	0	0	0	0	0	0	0	0	0	0
79	0	0	0	0	0	0	0	0000000001	0	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	1100000000	0	0	0	0	0	0	0	0	0	0
81	0	0	0	0	0	0	0	0	0110100000	0	0	0	0	0	0	0	0	0	0
82	0	0	0	0	0	0	0	0	0011000000	0	0	0	0	0	0	0	0	0	0
83	0	0	0	0	0	0	0	0	0001101000	0	0	0	0	0	0	0	0	0	0
84	0	0	0	0	0	0	0	0	0000110000	0	0	0	0	0	0	0	0	0	0
85	0	0	0	0	0	0	0	0	0000010000	0	0	0	0	0	0	0	0	0	0
86	0	0	0	0	0	0	0	0	0000001100	0	0	0	0	0	0	0	0	0	0
87	0	0	0	0	0	0	0	0	0000000100	0	0	0	0	0	0	0	0	0	0
88	0	0	0	0	0	0	0	0	0000000011	0	0	0	0	0	0	0	0	0	0
89	0	0	0	0	0	0	0	0	0000000001	1010000000	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0	1100000000	0	0	0	0	0	0	0	0	0
91	0	0	0	0	0	0	0	0	0	0110100000	0	0	0	0	0	0	0	0	0
92	0	0	0	0	0	0	0	0	0	0011000000	0	0	0	0	0	0	0	0	0
93	0	0	0	0	0	0	0	0	0	0001000000	0	0	0	0	0	0	0	0	0
94	0	0	0	0	0	0	0	0	0	0000110000	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0000010000	0	0	0	0	0	0	0	0	0
96	0	0	0	0	0	0	0	0	0	0000001100	0	0	0	0	0	0	0	0	0
97	0	0	0	0	0	0	0	0	0	0000000110	1000000000	0	0	0	0	0	0	0	0
98	0	0	0	0	0	0	0	0	0	0000000011	0	0	0	0	0	0	0	0	0
99	0	0	0	0	0	0	0	0	0	0000000001	1010000000	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0	1100000000	0	0	0	0	0	0	0	0
101	0	0	0	0	0	0	0	0	0	0	0100000000	0	0	0	0	0	0	0	0
102	0	0	0	0	0	0	0	0	0	0	0011000000	0	0	0	0	0	0	0	0
103	0	0	0	0	0	0	0	0	0	0	0001000000	0	0	0	0	0	0	0	0
104	0	0	0	0	0	0	0	0	0	0	0000110000	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0	0000011010	0	0	0	0	0	0	0	0
106	0	0	0	0	0	0	0	0	0	0	0000001100	0	0	0	0	0	0	0	0
107	0	0	0	0	0	0	0	0	0	0	0000000110	1000000000	0	0	0	0	0	0	0
108	0	0	0	0	0	0	0	0	0	0	0000000011	0	0	0	0	0	0	0	0
109	0	0	0	0	0	0	0	0	0	0	0000000001	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0	0	1100000000	0	0	0	0	0	0	0
111	0	0	0	0	0	0	0	0	0	0	0	0100000000	0	0	0	0	0	0	0
112	0	0	0	0	0	0	0	0	0	0	0	0011000000	0	0	0	0	0	0	0
113	0	0	0	0	0	0	0	0	0	0	0	0001101000	0	0	0	0	0	0	0
114	0	0	0	0	0	0	0	0	0	0	0	0000110000	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0	0	0000011010	0	0	0	0	0	0	0
116	0	0	0	0	0	0	0	0	0	0	0	0000001100	0	0	0	0	0	0	0
117	0	0	0	0	0	0	0	0	0	0	0	0000000100	0	0	0	0	0	0	0
118	0	0	0	0	0	0	0	0	0	0	0	0000000011	0	0	0	0	0	0	0
119	0	0	0	0	0	0	0	0	0	0	0	0000000001	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0	0	0	1100000000	0	0	0	0	0	0
121	0	0	0	0	0	0	0	0	0	0	0	0	0110100000	0	0	0	0	0	0
122	0	0	0	0	0	0	0	0	0	0	0	0	0011000000	0	0	0	0	0	0
123	0	0	0	0	0	0	0	0	0	0	0	0	0001101000	0	0	0	0	0	0
124	0	0	0	0	0	0	0	0	0	0	0	0	0000110000	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0	0	0	0000010000	0	0	0	0	0	0
126	0	0	0	0	0	0	0	0	0	0	0	0	0000001100	0	0	0	0	0	0
127	0	0	0	0	0	0	0	0	0	0	0	0	0000000100	0	0	0	0	0	0
128	0	0	0	0	0	0	0	0	0	0	0	0	0000000011	0	0	0	0	0	0

	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150-159	160-169	170-179	180-189
129	0	0	0	0	0	0	0	0	0	0	0	0	0000000001	1010000000	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0	0	0	0	1000000000	0	0	0	0	0
131	0	0	0	0	0	0	0	0	0	0	0	0	0	0100000000	0	0	0	0	0
132	0	0	0	0	0	0	0	0	0	0	0	0	0	0010000000	0	0	0	0	0
133	0	0	0	0	0	0	0	0	0	0	0	0	0	0001000000	0	0	0	0	0
134	0	0	0	0	0	0	0	0	0	0	0	0	0	0000100000	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0	0	0	0	0000010000	0	0	0	0	0
136	0	0	0	0	0	0	0	0	0	0	0	0	0	0000001010	1000000000	0	0	0	0
137	0	0	0	0	0	0	0	0	0	0	0	0	0	0000000110	1000000000	0	0	0	0
138	0	0	0	0	0	0	0	0	0	0	0	0	0	0000000010	0	0	0	0	0
139	0	0	0	0	0	0	0	0	0	0	0	0	0	0000000001	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1000000000	0	0	0	0
141	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0100000000	0	0	0	0
142	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0010000000	0	0	0	0
143	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0001000000	0	0	0	0
144	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000110000	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000011010	0	0	0	0
146	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000001000	0	0	0	0
147	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000000100	0	0	0	0
148	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000000010	0	0	0	0
149	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000000001	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1000000000	0	0	0
151	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0100000000	0	0	0
152	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0011000000	0	0	0
153	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0001101000	0	0	0
154	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000100000	0	0	0
155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000010000	0	0	0
156	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000001000	0	0	0
157	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000000100	0	0	0
158	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000000010	0	0	0
159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000000001	0	0	0
160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1000000000	0	0000010000
161	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0100000010	0	0
162	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0010100000	0	0000010000
163	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0001000000	1000000000	0
164	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000100000	0	0000010000
165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000010000	0010000000	0
166	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000001000	0	0
167	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000000100	0000100000	0
168	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000000010	1010000000	0
169	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000000001	0000001000	0
170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1000000000	0
171	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0100000010	0
172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0010000000	0
173	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0001000000	1000000000
174	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000100000	0
175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000010000	0010000000
176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000001010	1000000000
177	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000000100	0000100000
178	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000000010	0
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	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150-159	160-169	170-179	180-189
387	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150-159	160-169	170-179	180-189
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762	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
763	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
764	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
765	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
766	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
767	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
768	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
769	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
770	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
771	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
772	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
773	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150-159	160-169	170-179	180-189
774	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
776	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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784	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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786	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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799	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150-159	160-169	170-179	180-189
903	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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954	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
960	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
962	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
964	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
965	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
966	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
967	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
968	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
969	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
972	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
973	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
975	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
976	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
979	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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986	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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991	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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993	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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995	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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997	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1008	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1009	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1016	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1017	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1018	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1019	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1021	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1022	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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1024	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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1028	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1029	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1030	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1031	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150-159	160-169	170-179	180-189
1032	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1033	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1034	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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1038	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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1049	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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1051	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1052	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1053	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	190-199	200-209	210-219	220-229	230-239	240-249	250-259	260-269	270-279	280-289	290-299	300-309	310-319	320-329	330-339	340-349	350-359	360-369	370-379
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0000001111	1111011111	1100000000	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0000000100	0010100000	0100000000	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0000000001	1010100000	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0000000001	1010000100	0100000000	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0011111111	0111111100	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0001000010	1000000100	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0000011010	1000000000	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0000011010	0001000100	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0000000011	1111110111	1111000000	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0000000001	0000101000	0001000000	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0110101000	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0110100001	0001000000	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0000111111	1101111111	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0000010000	1010000001	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0000000110	1010000000	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0000000110	1000010001	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	1111111101	1111110000	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0100001010	0000010000	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	0	0	0	0	0	0	0	0	0	0	0	0	0	0001101010	0	0	0	0	0
38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39	0	0	0	0	0	0	0	0	0	0	0	0	0	0001101000	0100010000	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000001111	1111011111	1100000000	0	0
42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000000100	0010100000	0100000000	0	0
44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000000001	1010100000	0	0	0
46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000000001	1010000100	0100000000	0	0
48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0011111111	0111111100	0
50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0001000010	1000000100	0
52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000011010	1000000000	0
54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000011010	0001000100	0
56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57	1000000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000000011	1111110111
58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000000001	0000101000
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0110101000
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63	1000000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0110100001
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65	0000100010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67	0010001000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69	0010001000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71	0000001010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73	0	0010001000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75	0	1000100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77	0	1000100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79	0	0000101000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81	0	0	1000100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83	0	0000000010	0010000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	0	0000000010	0010000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87	0	0	0010100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89	0	0	0000000010	0010000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91	0	0	0000001000	1000000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
93	0	0	0000001000	1000000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
95	0	0	0	1010000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
97	0	0	0	0000001000	1000000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
99	0	0	0	0000100010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
101	0	0	0	0000100010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
103	0	0	0	0000000010	1000000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0000100010	0	0	0	0	0	0	0	0	0	0	0	0	0	0
106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
107	0	0	0	0	0010001000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
109	0	0	0	0	0010001000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111	0	0	0	0	0000001010	0	0	0	0	0	0	0	0	0	0	0	0	0	0
112	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
113	0	0	0	0	0	0010001000	0	0	0	0	0	0	0	0	0	0	0	0	0
114	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	1000100000	0	0	0	0	0	0	0	0	0	0	0	0	0
116	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
117	0	0	0	0	0	1000100000	0	0	0	0	0	0	0	0	0	0	0	0	0
118	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
119	0	0	0	0	0	0000101000	0	0	0	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
121	0	0	0	0	0	0	1000100000	0	0	0	0	0	0	0	0	0	0	0	0
122	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
123	0	0	0	0	0	0000000010	0010000000	0	0	0	0	0	0	0	0	0	0	0	0
124	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0000000010	0010000000	0	0	0	0	0	0	0	0	0	0	0	0
126	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
127	0	0	0	0	0	0	0010100000	0	0	0	0	0	0	0	0	0	0	0	0
128	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	190-199	200-209	210-219	220-229	230-239	240-249	250-259	260-269	270-279	280-289	290-299	300-309	310-319	320-329	330-339	340-349	350-359	360-369	370-379
129	0	0	0	0	0	0	0000000101	1110101000	0100000000	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0000001010	1001011111	0	0	0	0	0	0	0	0	0	0	0
131	0	0	0	0	0	0	0000001010	1001011111	0	0	0	0	0	0	0	0	0	0	0
132	0	0	0	0	0	0	0000001111	0101011001	1100000000	0	0	0	0	0	0	0	0	0	0
133	0	0	0	0	0	0	0000001111	0101011001	1100000000	0	0	0	0	0	0	0	0	0	0
134	0	0	0	0	0	0	0000001111	1101101111	0	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0000001111	1101101111	0	0	0	0	0	0	0	0	0	0	0
136	0	0	0	0	0	0	0	0	0001011110	1010000100	0	0	0	0	0	0	0	0	0
137	0	0	0	0	0	0	0	0	0001011110	1010000100	0	0	0	0	0	0	0	0	0
138	0	0	0	0	0	0	0	0	0010101001	0111110000	0	0	0	0	0	0	0	0	0
139	0	0	0	0	0	0	0	0	0010101001	0111110000	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0011110101	0110011100	0	0	0	0	0	0	0	0	0
141	0	0	0	0	0	0	0	0	0011110101	0110011100	0	0	0	0	0	0	0	0	0
142	0	0	0	0	0	0	0	0	0011111101	1011110000	0	0	0	0	0	0	0	0	0
143	0	0	0	0	0	0	0	0	0011111101	1011110000	0	0	0	0	0	0	0	0	0
144	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0000000001	0111101010	0001000000	0	0	0	0	0	0	0
146	0	0	0	0	0	0	0	0	0	0000000010	1010010111	1100000000	0	0	0	0	0	0	0
147	0	0	0	0	0	0	0	0	0	0000000010	1010010111	1100000000	0	0	0	0	0	0	0
148	0	0	0	0	0	0	0	0	0	0000000011	1101010110	0111000000	0	0	0	0	0	0	0
149	0	0	0	0	0	0	0	0	0	0000000011	1101010110	0111000000	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0000000011	1111011011	1100000000	0	0	0	0	0	0	0
151	0	0	0	0	0	0	0	0	0	0000000011	1111011011	1100000000	0	0	0	0	0	0	0
152	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
153	0	0	0	0	0	0	0	0	0	0	0	0000010111	1010100001	0	0	0	0	0	0
154	0	0	0	0	0	0	0	0	0	0	0	0000101010	0101111100	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0	0	0000101010	0101111100	0	0	0	0	0	0
156	0	0	0	0	0	0	0	0	0	0	0	0000111101	0101100111	0	0	0	0	0	0
157	0	0	0	0	0	0	0	0	0	0	0	0000111101	0101100111	0	0	0	0	0	0
158	0	0	0	0	0	0	0	0	0	0	0	0000111111	0110111100	0	0	0	0	0	0
159	0	0	0	0	0	0	0	0	0	0	0	0000111111	0110111100	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
161	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
162	0	0	0	0	0	0	0	0	0	0	0	0	0	0101111010	1000010000	0	0	0	0
163	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
164	0	0	0	0	0	0	0	0	0	0	0	0	0	1111011111	0111010000	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
166	0	0	0	0	0	0	0	0	0	0	0	0	0	1111110110	1111000000	0	0	0	0
167	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
168	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000000101	1110101000	0100000000	0	0
169	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000001010	1001011111	0	0	0
171	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000001111	0101011001	1100000000	0	0
173	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
174	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000001111	1101101111	0	0	0
175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0001011110	1010000100	0
177	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
178	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0010101001	0111110000	0
179	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0011110101	0110011100	0
181	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
182	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0011111101	1011110000	0
183	1000000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
184	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000000001	0111101010
185	0	0	0	0	0	0	0	0	0	0	0	0	0	0000001010	1110100000	0	0	0	0
186	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000000010	1010010111
187	0	0	0	0	0	0	0	0	0	0	0	0	0	1010100101	1111000000	0	0	0	0
188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000000011	1101010110
189	0	0	0	0	0	0	0	0	0	0	0	0	0	1111010101	1001110000	0	0	0	0
190	1000000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000000011	1111011011
191	0100000000	0	0	0	0	0	0	0	0	0	0	0	0	1111110110	1111000000	0	0	0	0
192	0010000000	0000000001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
193	0001000000	0000000010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
194	0000101000	0000000001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
195	0000010000	0	1000000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
196	0000001000	0	0001000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
197	0000000100	0	0010000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
198	0000000010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
199	0000000001	0	0000100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200	0	1000000000	0000000100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
201	0	0100000000	0000001000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
202	0	0010100000	0000000100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
203	0	0001000000	0000000010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
204	0	0000100000	0	0100000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
205	0	0000010000	0	1000000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
206	0	0000001000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
207	0	0000000100	0	0010000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
208	0	0000000010	1010000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
209	0	0000000001	0001000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
210	0	0	1000000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
211	0	0	0100000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
212	0	0	0010000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
213	0	0	0001000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
214	0	0	0000100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
215	0	0	0000010000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
216	0	0	0000001010	1000000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
217	0	0	0000000100	0100000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
218	0	0	0000000010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
219	0	0	0000000001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
220	0	0	0	1000000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
221	0	0	0	0100000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
222	0	0	0	0010000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
223	0	0	0	0001000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
224	0	0	0	0000100000	0001000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
225	0	0	0	0000010000	0	0000000010	0	0	0	0	0	0	0	0	0	0	0	0	0
226	0	0	0	0000001010	0001000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
227	0	0	0	0000000100	0	0	1000000000	0	0	0	0	0	0	0	0	0	0	0	0
228	0	0	0	0000000010	0000000100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
229	0	0	0	0000000001	0	0	0010000000	0	0	0	0	0	0	0	0	0	0	0	0
230	0	0	0	0	1000000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
231	0	0	0	0	0100000000	0	0000100000	0	0	0	0	0	0	0	0	0	0	0	0
232	0	0	0	0	0010000000	0100000000	0	0	0	0	0	0	0	0	0	0	0	0	0
233	0	0	0	0	0001000100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
234	0	0	0	0	0000101000	0100000000	0	0	0	0	0	0	0	0	0	0	0	0	0
235	0	0	0	0	0000010000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
236	0	0	0	0	0000001000	0000010000	0	0	0	0	0	0	0	0	0	0	0	0	0
237	0	0	0	0	0000000100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
238	0	0	0	0	0000000010	0	0	0	0	0	0	0	0	0	0	0	0	0	0
239	0	0	0	0	0000000001	0	0	0	0	0	0	0	0	0	0	0	0	0	0
240	0	0	0	0	0	1000000001	0	0	0	0	0	0	0	0	0	0	0	0	0
241	0	0	0	0	0	0100010000	0	0	0	0	0	0	0	0	0	0	0	0	0
242	0	0	0	0	0	0010100001	0	0	0	0	0	0	0	0	0	0	0	0	0
243	0	0	0	0	0	0001000000	0	0	0	0	0	0	0	0	0	0	0	0	0
244	0	0	0	0	0	0000100000	0001000000	0	0	0	0	0	0	0	0	0	0	0	0
245	0	0	0	0	0	0000010000	0	0	0	0	0	0	0	0	0	0	0	0	0
246	0	0	0	0	0	0000001000	0	0	0	0	0	0	0	0	0	0	0	0	0
247	0	0	0	0	0	0000000100	0	0	0	0	0	0	0	0	0	0	0	0	0
248	0	0	0	0	0	0000000010	1010000000	0	0	0	0	0	0	0	0	0	0	0	0
249	0	0	0	0	0	0000000001	0001000000	0	0	0	0	0	0	0	0	0	0	0	0
250	0	0	0	0	0	0	1000000000	0	0	0	0	0	0	0	0	0	0	0	0
251	0	0	0	0	0	0	0100000000	0	0	0	0	0	0	0	0	0	0	0	0
252	0	0	0	0	0	0	0010000000	0	0	0	0	0	0	0	0	0	0	0	0
253	0	0	0	0	0	0	0001000000	0	0	0	0	0	0	0	0	0	0	0	0
254	0	0	0	0	0	0	0000100000	0	0	0	0	0	0	0	0	0	0	0	0
255	0	0	0	0	0	0	0000010000	0	0	0	0	0	0	0	0	0	0	0	0
256	0	0	0	0	0	0	0000001101	1111100111	1100000000	0	0	0	0	0	0	0	0	0	0
257	0	0	0	0	0	0	0000000110	0010001101	0100000000	0	0	0	0	0	0	0	0	0	0

	190-199	200-209	210-219	220-229	230-239	240-249	250-259	260-269	270-279	280-289	290-299	300-309	310-319	320-329	330-339	340-349	350-359	360-369	370-379
258	0	0	0	0	0	0	0000000011	0001101000	0	0	0	0	0	0	0	0	0	0	0
259	0	0	0	0	0	0	0000000001	1000001110	1000000000	0	0	0	0	0	0	0	0	0	0
260	0	0	0	0	0	0	0	1110100100	1100000000	0	0	0	0	0	0	0	0	0	0
261	0	0	0	0	0	0	0	0101001010	1000000000	0	0	0	0	0001001011	0010101111	1101101111	0	0	0
262	0	0	0	0	0	0	0	0011000110	1100000000	0	0	0	0	0	0	0	0	0	0
263	0	0	0	0	0	0	0	0001110110	0	0	0	0	0	0	0	0	0	0	0
264	0	0	0	0	0	0	0	0000100100	0100000000	0	0	0	0	0	0	0	0	0	0
265	0	0	0	0	0	0	0	0000011110	0100000000	0	0	0	0	0000110000	1010010000	0010101110	1000000000	0	0
266	0	0	0	0	0	0	0	0000001011	0100000000	0	0	0	0	0100101011	0010111010	1001011111	0	0	0
267	0	0	0	0	0	0	0	0	0	0	1100000111	1000000000	0	0	0	0	0	0	0
268	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
269	0	0	0	0	0	0	0	0	0	0000000001	1000111110	1101000000	0	0	0	0	0	0	0
270	0	0	0	0	0	0	0	0	0	0000000011	1011111110	0111000000	0	0	0	0	0	0	0
271	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
272	0	0	0	0	0	0	0	0	0000110001	1010000000	0	0	0	0	0	0	0	0	0
273	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
274	0	0	0	0	0	0	0	0	0010001100	0000101000	0	0	0	0	0	0	0	0	0
275	0	0	0	0	0	0	0	0	0	0000000001	1000111110	1101000000	0	0	0	0	0	0	0
276	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
277	0	0	0	0	0	0	0	0	0	0000000010	0011000000	1010000000	0	0	0	0	0	0	0
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279	0	0	0	0	0	0	0	0	0	0	0	0000010100	1001001101	0	0	0	0	0	0
280	0	0	0	0	0	0	0	0	0	0	0	0000011000	1000110101	0	0	0	0	0	0
281	0	0	0	0	0	0	0	0	0	0	0	0000110111	1110011111	0	0	0	0	0	0
282	0	0	0	0	0	0	0	0	0	0	0	0000010100	1001001101	0	0	0	0	0	0
283	0	0	0	0	0	0	0	0	0	0	0	0000101111	0110101010	0	0	0	0	0	0
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285	0	0	0	0	0	0	0	0	0	0	0	0000100011	0000001010	0	0	0	0	0	0
286	0	0	0	0	0	0	0	0	0	0	0	0000111011	1000111111	0	0	0	0	0	0
287	0	0	0	0	0	0	0	0	0	0	0	0000101111	0110101010	0	0	0	0	0	0
288	0	0	0	0	0	0	0	0	0	0	0	0000011000	1111101101	0	0	0	0	0	0
289	0	0	0	0	0	0	0	0	0	0	0	0000101111	0110101010	0	0	0	0	0	0
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292	0	0	0	0	0	0	0	0	0	0	0	0000001100	0110100000	0	0	0	0	0	0
293	0	0	0	0	0	0	0	0	0	0	0	0000111011	1000111111	0	0	0	0	0	0
294	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
295	0	0	0	0	0	0	0	0	0	0	0	0000001100	0001111000	0	0	0	0	0	0
296	0	0	0	0	0	0	0	0	0	0	0	0000100011	0000001010	0	0	0	0	0	0
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304	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	190-199	200-209	210-219	220-229	230-239	240-249	250-259	260-269	270-279	280-289	290-299	300-309	310-319	320-329	330-339	340-349	350-359	360-369	370-379
387	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0001110110	0	0	0
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449	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000110001	1010000000	0
450	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0011011111	1001111100	0
451	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0011011110	0100011100	0
452	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0011011111	1001111100	0
453	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
454	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0011101110	0011111100	0
455	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0010001100	0000101000	0
456	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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458	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
459	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000110000	0111100000	0
460	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
461	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0001100011	1110110100	0
462	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0011101111	1110011100	0
463	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
464	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
465	0	0	0	0	0	0	0	0	0	0000000010	1111000111	0010000000	0	0	0	0	0	0	0
466	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
467	0	0	0	0	0	0	0	0	0	0	1100011010	0	0	0	0	0	0	0	0
468	0	0	0	0	0	0	0	0	0001100010	0011010100	0	0	0	0	0	0	0	0	0
469	0	0	0	0	0	0	0	0	0001010010	0100110100	0	0	0	0	0	0	0	0	0
470	0	0	0	0	0	0	0	0	0011101110	0011111100	0	0	0	0	0	0	0	0	0
471	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000000001	0100100100
472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000000001	1000100011
473	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000000011	0111111001
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494	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000000011	0111111001
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498	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000000011	0111111001
499	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000000011	0111100100
500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000000011	0111111001
501	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
502	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000000011	1011100011
503	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000000010	0011000000
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	190-199	200-209	210-219	220-229	230-239	240-249	250-259	260-269	270-279	280-289	290-299	300-309	310-319	320-329	330-339	340-349	350-359	360-369	370-379
516	0	0	0	0	0	0	0	0	0011011111	1001111100	0	0	0	0	0	0	0	0	0
517	0	0	0	0	0	0	0	0	0000110001	1010000000	0	0	0	0	0	0	0	0	0
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564	0	0	0	0	0	0	0	0	0000000001	1101100000	0	0	0	0	0	0	0	0	0
565	0	0	0	0	0	0	0	0	0010111101	1010101000	0	0	0	0	0	0	0	0	0
566	0	0	0	0	0	0	0	0	0011011111	1001111100	0	0	0	0	0	0	0	0	0
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621	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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623	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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639	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
640	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
641	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
642	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
643	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
644	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	190-199	200-209	210-219	220-229	230-239	240-249	250-259	260-269	270-279	280-289	290-299	300-309	310-319	320-329	330-339	340-349	350-359	360-369	370-379
645	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
646	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
647	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
648	0	0	0	0	0	0	0	0	0011011111	1001111100	0	0	0	0	0	0	0	0	0
649	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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655	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
656	0	0	0	0	0	0	0	0	0	0000000001	1000100011	0101000000	0	0	0	0	0	0	0
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658	0	0	0	0	0	0	0	0	0001010010	0100110100	0	0	0	0	0	0	0	0	0
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703	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
704	0	0	0	0	0	0	0	0	0000000001	1101100000	0	0	0	0	0	0	0	0	0
705	0	0	0	0	0	0	0	0	0000110000	0111100000	0	0	0	0	0	0	0	0	0
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707	0	0	0	0	0	0	0	0	0011101110	0011111100	0	0	0	0	0	0	0	0	0
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709	0	0	0	0	0	0	0	0	0	0000000011	0111111001	1111000000	0	0	0	0	0	0	0
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744	0	0	0	0	0	0	0	0	0	0000000010	0011000000	1010000000	0	0	0	0	0	0	0
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752	0	0	0	0	0	0	0	0	0011011110	0100011100	0	0	0	0	0	0	0	0	0
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756	0	0	0	0	0	0	0	0	0	0000000001	0100100100	1101000000	0	0	0	0	0	0	0
757	0	0	0	0	0	0	0	0	0	0000000010	1111011010	1010000000	0	0	0	0	0	0	0
758	0	0	0	0	0	0	0	0	0	0000000011	1011100011	1111000000	0	0	0	0	0	0	0
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773	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	190-199	200-209	210-219	220-229	230-239	240-249	250-259	260-269	270-279	280-289	290-299	300-309	310-319	320-329	330-339	340-349	350-359	360-369	370-379
774	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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799	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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818	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
819	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
820	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
821	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
822	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
823	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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839	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
840	0	0	0	0	0	0	0	0	0	0000000011	0111111001	1111000000	0	0	0	0	0	0	0
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845	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
846	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
847	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
848	0	0	0	0	0	0	0	0	0	0	0000011101	1000000000	0	0	0	0	0	0	0
849	0	0	0	0	0	0	0	0	0	0	1100000111	1000000000	0	0	0	0	0	0	0
850	0	0	0	0	0	0	0	0	0	0	1100000111	1000000000	0	0	0	0	0	0	0
851	0	0	0	0	0	0	0	0	0	0000000011	1011100011	1111000000	0	0	0	0	0	0	0
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900	0	0	0	0	0	0	0	0	0000001110	1001001100	0	0	0	0	0	0	0	0	0
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	190-199	200-209	210-219	220-229	230-239	240-249	250-259	260-269	270-279	280-289	290-299	300-309	310-319	320-329	330-339	340-349	350-359	360-369	370-379
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904	0	0	0	0	0	0	0	0	0	0	0011101001	0011000000	0	0	0	0	0	0	0
905	0	0	0	0	0	0	0	0	0	0000000011	1000111011	0111000000	0	0	0	0	0	0	0
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917	0	0	0	0	0	0	0	0	0010101001	0111110000	0	0	0	0	0000000100	1010110010	1110101001	0111110000	0
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1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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1003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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1013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1016	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1017	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1018	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1019	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1021	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1022	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1023	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1024	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1027	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1028	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1029	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1030	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1031	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	190-199	200-209	210-219	220-229	230-239	240-249	250-259	260-269	270-279	280-289	290-299	300-309	310-319	320-329	330-339	340-349	350-359	360-369	370-379
1032	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1033	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1034	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1035	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1036	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1038	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1039	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1040	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1041	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1042	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1043	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1044	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1045	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1046	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1047	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1048	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1049	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1050	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1051	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1052	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1053	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	380-389	390-399	400-409	410-419	420-429	430-439	440-449	450-459	460-469	470-479	480-489	490-499	500-509	510-519	520-529	530-539	540-549	550-559	560-569
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57	1111000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59	0001000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63	0001000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65	0000111111	1101111111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67	0000010000	1010000001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69	0000000110	1010000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71	0000000110	1000010001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73	0	0	1111111101	1111110000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75	0	0	0100001010	0000010000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77	0	0	0001101010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79	0	0	0001101000	0100010000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81	0	0	0	0000001111	1111011111	1100000000	0	0	0	0	0	0	0	0	0	0	0	0	0
82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83	0	0	0	0000000100	0010100000	0100000000	0	0	0	0	0	0	0	0	0	0	0	0	0
84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	0	0	0	0000000001	1010100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87	0	0	0	0000000001	1010000100	0100000000	0	0	0	0	0	0	0	0	0	0	0	0	0
88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89	0	0	0	0	0	0011111111	0111111100	0	0	0	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91	0	0	0	0	0	0001000010	1000000100	0	0	0	0	0	0	0	0	0	0	0	0
92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
93	0	0	0	0	0	0000011010	1000000000	0	0	0	0	0	0	0	0	0	0	0	0
94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0000011010	0001000100	0	0	0	0	0	0	0	0	0	0	0	0
96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
97	0	0	0	0	0	0	0000000011	1111110111	1111000000	0	0	0	0	0	0	0	0	0	0
98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
99	0	0	0	0	0	0	0000000001	0000101000	0001000000	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
101	0	0	0	0	0	0	0	0110101000	0	0	0	0	0	0	0	0	0	0	0
102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
103	0	0	0	0	0	0	0	0110100001	0001000000	0	0	0	0	0	0	0	0	0	0
104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0000111111	1101111111	0	0	0	0	0	0	0	0	0
106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
107	0	0	0	0	0	0	0	0	0000010000	1010000001	0	0	0	0	0	0	0	0	0
108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
109	0	0	0	0	0	0	0	0	0000000110	1010000000	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111	0	0	0	0	0	0	0	0	0000000110	1000010001	0	0	0	0	0	0	0	0	0
112	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
113	0	0	0	0	0	0	0	0	0	0	1111111101	1111110000	0	0	0	0	0	0	0
114	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0	0100001010	0000010000	0	0	0	0	0	0	0
116	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
117	0	0	0	0	0	0	0	0	0	0	0001101010	0	0	0	0	0	0	0	0
118	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
119	0	0	0	0	0	0	0	0	0	0	0001101000	0100010000	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
121	0	0	0	0	0	0	0	0	0	0	0	0000001111	1111011111	1100000000	0	0	0	0	0
122	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
123	0	0	0	0	0	0	0	0	0	0	0	0000000100	0010100000	0100000000	0	0	0	0	0
124	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0	0	0000000001	1010100000	0	0	0	0	0	0
126	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
127	0	0	0	0	0	0	0	0	0	0	0	0000000001	1010000100	0100000000	0	0	0	0	0
128	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	380-389	390-399	400-409	410-419	420-429	430-439	440-449	450-459	460-469	470-479	480-489	490-499	500-509	510-519	520-529	530-539	540-549	550-559	560-569
129	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
131	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
132	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
133	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
134	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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137	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
138	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
139	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
141	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
142	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
143	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
146	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
147	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
148	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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151	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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183	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
184	0001000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
185	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
186	1100000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
187	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
188	0111000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
189	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
190	1100000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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192	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
193	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
194	0000010111	1010100001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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197	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
198	0000111111	0110111100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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201	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
202	0	0	0101111010	1000010000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
206	0	0	1111110110	1111000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
207	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
208	0	0	0	0000000101	1110101000	0100000000	0	0	0	0	0	0	0	0	0	0	0	0	0
209	0000111101	1111011101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
210	0	0	0	0000001010	1001011111	0	0	0	0	0	0	0	0	0	0	0	0	0	0
211	0000101010	0101111100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
212	0	0	0	0000001111	0101011001	1100000000	0	0	0	0	0	0	0	0	0	0	0	0	0
213	0000111101	0101100111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
214	0	0	0	0000001111	1101101111	0	0	0	0	0	0	0	0	0	0	0	0	0	0
215	0000111111	0110111100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
216	0	0	0	0	0	0001011110	1010000100	0	0	0	0	0	0	0	0	0	0	0	0
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218	0	0	0	0	0	0010101001	0111110000	0	0	0	0	0	0	0	0	0	0	0	0
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235	0	0	0	0	0	0	0000000010	1010010111	1100000000	0	0	0	0	0	0	0	0	0	0
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237	0	0	0	0	0	0	0000000011	1101010110	0111000000	0	0	0	0	0	0	0	0	0	0
238	0	0	0	0	0	0	0	0	0000111111	0110111100	0	0	0	0	0	0	0	0	0
239	0	0	0	0	0	0	0000000011	1111011011	1100000000	0	0	0	0	0	0	0	0	0	0
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242	0	0	0	0	0	0	0	0	0	0	0101111010	1000010000	0	0	0	0	0	0	0
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	380-389	390-399	400-409	410-419	420-429	430-439	440-449	450-459	460-469	470-479	480-489	490-499	500-509	510-519	520-529	530-539	540-549	550-559	560-569
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339	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	380-389	390-399	400-409	410-419	420-429	430-439	440-449	450-459	460-469	470-479	480-489	490-499	500-509	510-519	520-529	530-539	540-549	550-559	560-569
387	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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471	1101000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
472	0101000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
473	1111000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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475	1010000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
476	0010000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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478	1111000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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483	1000000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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485	1111000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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488	1010000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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490	1000000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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498	1111000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
499	0111000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
500	1111000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	380-389	390-399	400-409	410-419	420-429	430-439	440-449	450-459	460-469	470-479	480-489	490-499	500-509	510-519	520-529	530-539	540-549	550-559	560-569
516	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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521	0000110111	1110011111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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523	0000101111	0110101010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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528	0000011000	1111101101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
529	0000101111	0110101010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530	0000110111	1110011111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
531	0	0111011000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
532	0000001100	0110100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
533	0000111011	1000111111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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535	0000001100	0001111000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
536	0000100011	0000001010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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541	0000110111	1110011111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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543	0000111011	1000111111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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545	0000001100	0110100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
546	0000110111	1110011111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
547	0000110111	1001000111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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621	0	0	0	0000001000	1100000010	1000000000	0	0	0	0	0	0	0	0	0	0	0	0	0
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629	0	0	0	0000001110	1110001111	1100000000	0	0	0	0	0	0	0	0	0	0	0	0	0
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712	0	0	0	0	0	0	0000000001	1000100011	0101000000	0	0	0	0	0	0	0	0	0	0
713	0	0	0	0	0	0	0000000011	0111111001	1111000000	0	0	0	0	0	0	0	0	0	0
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715	0	0	0	0	0	0	0000000010	1111011010	1010000000	0	0	0	0	0	0	0	0	0	0
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719	0	0	0	0	0	0	0000000010	1111011010	1010000000	0	0	0	0	0	0	0	0	0	0
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721	0	0	0	0	0	0	0000000010	1111011010	1010000000	0	0	0	0	0	0	0	0	0	0
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723	0	0	0	0	0	0	0	0000011101	1000000000	0	0	0	0	0	0	0	0	0	0
724	0	0	0	0	0	0	0	1100011010	0	0	0	0	0	0	0	0	0	0	0
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903	0	0	0	0	0	0	0	0	0	0	0	0	0	0000000001	0	0	0	0	0
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908	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000100000	0	0	0	0
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