Determining the Nonexistent Terms of Non-linear Multivariate Polynomials: How to Break Grain-128 More Efficiently

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Abstract. In this paper, we propose a reduction technique that can be used to determine the density of IV terms of a complex multivariable boolean polynomial. Using this technique, we revisit the dynamic cube attack on Grain-128. Based on choosing one more nullified state bit and one more dynamic bit, we are able to obtain the IV terms of degree 43 with various of complicated reduction techniques for polynomials, so that the nonexistent IV terms can be determined. As a result, we improve the time complexity of the best previous attack on Grain-128 by a factor of 2^{16} . Moreover, our attack applies to all keys.

Keywords: Stream ciphers, Grain-128, Polynomial reduction, Dynamic cube attack

1 Introduction

Most cryptanalytic problems of symmetric ciphers can be reduced to the problem of solving large non-linear multivariate polynomial systems. This problem is NPcomplete [6]. Solving the system using linearization or relinearization methods directly will result in space and time complexities that are beyond the power of current computers. As a result, algebraic attacks such as cube attack [3], cube tester [5,1] and dynamic cube attack [4] were proposed in order to reduce the complexities.

Stream cipher Grain-128 [7] is a refined version of Grain scheme, one of the finalists of eSTREAM Project. The output bit is a high degree boolean function in initial vector (IV) bits and key bits. Since the proposal of Grain-128, a number of cryptanalytic results have been presented in the literatures. Fischer et. al.

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applied the statistical analysis to recover the key of reduced Grain-128 up to 180 out of 256 iterations with a complexity slightly better than brute force [5]. They pointed out that Grain-128 may be immune to this attack due to the very high degree of the polynomial of the output bit. Knellwolf et al. proposed the conditional differential cryptanalysis on NLFSR-based stream ciphers including Grain scheme ciphers [8]. Conditional differential cryptanalysis exploited the message modification technique introduced in [10,9], which controlled the diffusion by controlling the plaintexts. It was applied to recover 3 bits' key of the Grain-128 reduced to 213 rounds with a probability up to 0.59 and distinguish Grain-128 reduced to 215 rounds from random primitives [8]. Another message controlling method is to nullify some state bits which may be more important than the others for reducing the degree or enhancing the sparsity. After nullifying some state bits, the representation of the output bit with IV bits can be simplified; and the output bit becomes nonrandom. This technique is called dynamic cube attack which combines the conditional differential and cube tester. With dynamic cube attack, Dinur and Shamir [4] proposed two key-recovery attacks on reduced-round Grain-128 for arbitrary keys and an attack on the full Grain-128 that holds for 2^{-10} of the key space. Furthermore, Dinur et al. [2] improved the dynamic cube attack on full Grain-128, and tested the main component with a dedicated hardware. Their experimental results showed that for about 7.5% of the keys, the proposed attack beat the exhaustive search by a factor of 2^{38} .

In this paper, we further improve the attack in [2] by obtaining the nonexistent IV terms. The time complexity of our attack is about 2^{74} cipher executions, which is applicable to all keys of Grain128.

Our Contributions. The contributions of this paper are five fold. Firstly, we exploit the nullification technique introduced in [2] and improve the nullification by a better choice of nullified state bits and dynamic IV bits. Secondly, we propose IV controlling techniques to reduce the IV terms of high degrees. Thirdly, we give several reduction techniques for boolean functions in order to reduce the number of terms we need to process. The primary techniques are those to remove the repeated terms and covered terms. Fourthly, with the aforementioned techniques, we mathematically compute the IV terms of degree 43. The major difference between our attack and the previous dynamic cube attacks is that we focus on obtaining the IV terms mathematically instead of choosing the suitable (sub)cubes with testing technique. Finally, we present an attack with a complexity 2^{16} faster than the best result before. In this way, our method not only improves the previous attacks but also can naturally be applied to all keys with the same complexity. So the successful ratio of our attack is 100%.

Due to the difference, we also simplified the attack procedure of the dynamic cube attack. Briefly, our attack can be decomposed to the following phases:

1. Determine the dynamic variables, state/IV bits to be nullified, as well as the key bits to be guessed. Calculate the IV terms of degree 43 afterwards. The cube can be chosen freely from those disappeared IV terms. This is the preprocessing phase of the attack. However, most of the dedicated work in this paper contributes to this phase. In this phase, we exploit various of techniques to obtain the exact IV terms. We exploit two algorithms to remove the repeated and covered terms, which help reduce the polynomial dramatically. We also use IV representation to calculate the IV terms of degree 43.

2. Guess the key bits, and get the output bits with IVs chosen according to the principle in the previous phase. The summation of the output bits over the cube can be used as a distinguisher since for the correct key the summation will always be 0, while for wrong keys 0 and 1 are supposed to occur with the same probability. This is the only on-line phase of our attack.

The detail of our attack will be demonstrated in the rest of the paper. In Section 2, the outline of Grain-128 and basic concepts of cube attacks, cube tester and dynamic cube attack will be introduced. In Section 3, we present a couple of methods to control the IV terms and reduction techniques in order to reduce the number of terms to be processed. The preprocessing phase is introduced in Section 3 as well. Section 4 will give the on-line phase of the attack. Finally, Section 5 summarizes the paper.

2 Preliminaries

In this section, we will first briefly introduce Grain-128. Then the techniques related to our work will be introduced, including cube attack/tester, dynamic cube attack and nullification technique.

2.1 Outline of Grain-128

The state of Grain-128 is represented by a 128-bit LFSR and a 128-bit NLFSR. The feedback function of the LFSR and NLFSR are defined as

 $\begin{aligned} s_{i+128} = & s_i + s_{i+7} + s_{i+38} + s_{i+70} + s_{i+81} + s_{i+96}, \\ b_{i+128} = & s_i + b_i + b_{i+26} + b_{i+56} + b_{i+91} + b_{i+96} + b_{i+3}b_{i+67} + b_{i+11}b_{i+13} + b_{i+17}b_{i+18} + b_{i+27}b_{i+59} + b_{i+40}b_{i+48} + b_{i+61}b_{i+65} + b_{i+68}b_{i+84}. \end{aligned}$

The output function is

$$z_{i} = b_{i+2} + b_{i+15} + b_{i+36} + b_{i+45} + b_{i+64} + b_{i+73} + b_{i+89} + s_{i+93} + b_{i+12}s_{i+8} + s_{i+13}s_{i+20} + b_{i+95}s_{i+42} + s_{i+60}s_{i+79} + b_{i+12}b_{i+95}s_{i+95}.$$

During the initialization step, the 128-bit key is loaded into the NLFSR and 96 bits of IV are loaded into the LFSR, with the other IV bits setting to 1. The state runs 256 rounds with the output feeding back, and the first output bit is z_{257} . For the detail of Grain-128, we refer to [7].

The output bit z_{257} is a boolean function over IV bits and key bits. We define in this paper the degree of the polynomial in terms of the IV variables, since the key bits are constant though they are unknown in our attack. Next, we will give some more definitions used throughout the paper. Assuming that there are n IV bits, i.e., v_1, v_2, \ldots, v_n and m key bits, i.e., k_1, k_2, \ldots, k_m , the output bit x can be illustrated as

$$x = \sum_{I,J} t_I g_I(k),\tag{1}$$

where t_I is the multiplication of all the IV bits whose indices are in I, i.e., it can be represented by $t_I = \prod_{i \in I} v_i$, I and J are subsets of $\{1, 2, ..., n\}$ and $\{1, 2, ..., m\}$ respectively. $g_I(k)$ is defined as the coefficient function, which is a function over key bits:

$$g_I(k) = \prod_{l_1 \in J_1} k_{l_1} + \prod_{l_2 \in J_2} k_{l_2} + \dots + \prod_{l_p \in J_p} k_{l_p},$$
(2)

where J_1, J_2, \ldots, J_p are subsets of $\{1, 2, \ldots, m\}$. In the rest of the paper, we will call it coefficient for short, when there is no ambiguity. Each $t_I \prod_{l_j \in J_j} k_{l_j}$ in (1) is a term of x, and t_I is called an IV term. Note that any term has a unique IV term. But an IV term may occur in a large number of terms because $g_I(k)$ is probably very complicated.

2.2 Cube Attack and Cube Tester

Cube attack [3] exploits the IV terms whose coefficient is linear over key bits, and then retrieves the keys once enough independent linear functions are obtained, by solving linear equations. A methodology is proposed [3,1] to test if a coefficient is linear and which key bits are involved.

Even if the coefficient is nonlinear but only involves a small number of key bits (where the degree on key bits is low), the coefficient can also be obtained by the technique called cube tester [1]. This technique is constitute of two steps: First testing which key bits are involved in the coefficient, and then determining the specific expression (if it is linear, then the first step is enough).

2.3 Dynamic Cube Attack

In [4], Dinur and Shamir proposed the dynamic cube attack to recover the secret key by exploiting distinguishers obtained from cube testers, with application to Grain-128.

In dynamic cube attack, some dynamic bits in the IV that are determined by key bits are chosen in order to nullify some state bits that will greatly simplify the output function. Then one expects to acquire certain nonrandom property which can be exploited by cube tester. The nonrandom property can be used as a distinguisher for key recovery.

As mentioned in Section 1, the attack in [2] is an improvement of that in [4]. The dynamic cube attacks introduced and exploited in [4,2] are based on the nullification technique. The major difference between the two work is the different choices of nullified bits⁷. As a consequence, we will detail the nullification technique in the next subsection.

2.4 Nullification Technique

For Grain-128, the first output bit z_{257} can be represented by state bits as

$$\begin{split} z_{257} = & b_{269} b_{352} s_{352} + b_{352} s_{299} + s_{317} s_{336} + s_{270} s_{277} + b_{269} s_{265} + s_{350} + b_{346} + \\ & b_{330} + b_{321} + b_{302} + b_{293} + b_{272} + b_{259}. \end{split}$$

The most significant term of its ANF (algebraic normal form) is $b_{269}b_{352}s_{352}$. In fact, the terms resulted from $b_{269}b_{352}s_{352}$ are much more than those from the other terms. Similarly, the most significant terms of the ANF of b_{269} , b_{352} and s_{352} are $b_{153}b_{236}s_{236}$, $b_{236}b_{319}s_{319}$ and $b_{236}b_{319}s_{319}$ respectively. The common factor is b_{236} , so b_{269} , b_{352} , s_{352} and z_{257} can be simplified if nullifying b_{236} . But b_{236} is too complicated, i.e.,

$$\begin{split} b_{236} = & b_{120} b_{203} s_{203} + b_{203} s_{150} + b_{176} b_{192} + s_{168} s_{187} + b_{169} b_{173} + b_{148} b_{156} + b_{135} b_{167} + \\ & b_{125} b_{126} + b_{119} b_{121} + b_{111} b_{175} + s_{121} s_{128} + b_{120} s_{116} + b_{204} + s_{201} + b_{199} \\ & + b_{197} + b_{181} + b_{172} + b_{164} + b_{153} + b_{144} + b_{134} + b_{123} + b_{110} + b_{108} + 1. \end{split}$$

Nullifying b_{236} needs too many guessed key bits, so the scheme in [4] retrieved a subset of 2^{-10} of all possible keys by fixing 10 key bits to be zero.

Another approach is to simplify b_{236} by nullifying b_{203} , which is adopted by [2]. b_{203} is still too complicated to be nullified directly, i.e.,

$$\begin{split} b_{203} = & b_{87} b_{170} s_{170} + b_{170} s_{117} + b_{143} b_{159} + s_{135} s_{154} + b_{136} b_{140} + b_{115} b_{123} + b_{102} b_{134} \\ & + b_{92} b_{93} + b_{86} b_{88} + b_{78} b_{142} + s_{88} s_{95} + b_{87} s_{83} + b_{171} + s_{168} + b_{166} + b_{164} + b_{148} + b_{139} + b_{131} + b_{120} + b_{111} + b_{101} + b_{90} + b_{77} + b_{75} + s_{75}. \end{split}$$

In order to nullify b_{203} , one should first nullify b_{170} , b_{159} , b_{138} , s_{135} , b_{136} , b_{134} , b_{133} , and b_{131} . All of these bits but b_{170} can be nullified directly by choosing IV bits. We know that

 $b_{170} = b_{54}b_{137}s_{137} + b_{137}s_{84} + b_{110}b_{126} + s_{102}s_{121} + b_{103}b_{107} + b_{82}b_{90} + b_{69}b_{101} + b_{59}b_{60} + b_{53}b_{55} + b_{45}b_{109} + s_{55}s_{62} + b_{54}s_{50} + b_{138} + s_{135} + b_{133} + b_{131} + b_{115} + b_{106} + b_{98} + b_{87} + b_{78} + b_{68} + b_{57} + b_{44} + b_{42} + s_{42}.$

In order to nullify b_{170} , b_{137} can be nullified first by setting s_9 to be a dynamic value.

In fact, b_{170} can be nullified directly as well since it is not too complicated. However, nullification of b_{137} can not only nullify b_{170} but also simplify b_{253} which

⁷ The authors also experimentally verified the main component of the attack by a dedicated hardware in [2]

 Table 1. Nullification Scheme in [2]

nullification	$b_{131}, b_{133}, b_{134}, s_{135}, b_{136}, b_{137}, b_{138}, b_{145}, b_{153}, b_{159}, b_{170}, b_{176}, b_{203}$
dynamic bits	$s_3, s_5, s_6, s_{77}, s_8, s_9, s_{10}, s_{17}, s_{25}, s_{31}, s_{42}, s_{83}, s_1$

contributes a lot to the degree and IV terms. The term $b_{143}b_{159}$ can be nullified by nullifying either b_{143} or b_{159} . The authors chose to nullify b_{159} because it can help reduce b_{275} whose ANF significant term is $b_{159}b_{242}s_{242}$. b_{145} , b_{153} and b_{176} are also nullified in order to simplify s_{261} , b_{269} and b_{292} . The nullified state bits and dynamic IV bits of [2] are shown in Table 1.

3 Obtaining the IV terms of Boolean Polynomials

In this paper, the main purpose is to obtain all the IV terms of degree 43. In order to achieve this goal, we first propose new nullification (Section 3.1) and IV choosing (Section 3.2) techniques. Then term reduction techniques (Section 3.3) are also presented to remove the terms that will not contribute to the IV terms of degree 43 in the polynomial. With these techniques, we are able to obtain the exact IV terms of degree 43 in the output bit in Section 3.4.

3.1 Nullification of State Bits

Motivated by the nullification technique in [4,2], we choose to nullify some state bits. Following, we will introduce how to obtain the nullification scheme.

Step 1:We obtain the exact representations of b_i and s_i $(0 \le i \le 222)$ and hence obtain the exact degree. Then we estimate degrees of the other state bits b_i and s_i for $i \in [223, 320]$.

Step 2: We substitute the state terms and preserve the high degree state terms, and then calculate the frequency of occurrence of each state bit involved. Step 3: Nullify the high frequency state bits and set them to 0, then the corresponding terms will disappear. As a result, the nullification of these state bits decreases the degree and terms of high degree dramatically.

Step 4: Then we substitute again and repeat the procedure above.

From the process of choosing nullified state bits, after nullifying one state bits in **Step 3**, **Step 1** is repeated again because the degree of state bits may change due to the change of dynamic bits. Then we obtain the nullification scheme of state bits, which are shown in Table 2. Finally we can determine the dynamic IV bits and the corresponding key bits that have to be guessed during the on-line attack The dynamic IV bits are shown in Table 2 as well. The more details of the nullification are shown in Table 8 in Appendix A.

3.2 IV Choosing Techniques

After the nullifications shown in Table 2, there are 82 IV bits left, which probably leads to a very high degree of the output bit polynomial. Thus in this subsection we will show how to choose some IV bits to reduce the degree and make some IV terms disappear as well.

IV Nullification Technique For Grain-128, the output is generated by iteration of IV and key bits, some IV or key bits tend to (dis)appear simultaneously in high degree terms. For example, for state bits in the first 32 initialization rounds, the only degree 2 terms are $s_{i+13}s_{i+20}$ and $s_{i+60}s_{i+79}$. Choosing to nullify s_{i+13} may result in disappearance of s_{i+20} .

Furthermore, the degrees of some state bits are decreased to 1 by nullifying some IV bits of the terms. However, some state bits may have higher degrees due to the higher-degree dynamic bits. As a result, the high frequency IV bits in the high frequency state bits and terms are chosen to be nullified, in order to make as many dynamic bits disappear as possible.

The other nullified IV bits can be chosen as follows.

Step 1: We substitute the state terms with previous state bits and preserve the high degree terms, of which sum of the degrees of state bits involved in state terms is high.

Step 2: Repeat **Step 1** until we can obtain the IV terms using IV representation, which will be introduced in Section 3.3.

Step 3: Calculate the frequency of IV bits in high degree IV terms and set the high frequency IV bit(s) with zeros.

Step 4: Update the degree of state bits and repeat Step 1-Step 3.

In addition, the IV nullification is an iterative process since nullifying any IV bit may result in changing the degree of many state bits.

In summary, carefully choosing the nullified IV bits will result in the disappearance of many IV terms.

Hence, totally 36 IV bits are nullified (set to zeros) and degrees of all state bits can be updated. There are remaining 46 IV bits and we consider the nonexistent IV terms in the 46-bit set.

Exploit the Low-frequency IV Bits Since some IV bits will disappear in high degree terms after setting some other IV bits to zero, IV terms with these IV bits such as s_{80} will be sparse in high degree terms. We call these common IV bits that lead to sparse terms *low-frequency bits*.

In order to find out the *low-frequency bits*, we execute the following steps.

Step 1: We substitute the state terms with previous state bits and preserve the high degree terms.

Step 2: Repeat **Step 1** until we can obtain the IV terms using IV representation.

Step 3: Calculate the frequency of IV bits in high degree IV terms and choose the IV bit(s) of low frequency.

nullification	$b_{131}, b_{133}, b_{134}, s_{135}, b_{136}, b_{137}, b_{138}, b_{143}, b_{145}, b_{153}, b_{159}, b_{170}, b_{176}, b_{203}$
dynamic bits	$s_3, s_5, s_6, s_{77}, s_8, s_9, s_{10}, s_{15}, s_{17}, s_{25}, s_{31}, s_{42}, s_{83}, s_1$

Step 4: Repeat *Step 1-Step 3*. Note that the state terms that do not contain the *low-frequency bits* can be discarded directly.

We find out at least 7 of them, which are listed in Table 5 along with the corresponding state bits in the first 32 rounds.

3.3 Reduction Techniques for Polynomial Terms

We presented the methods to reduce the boolean function of the output bit in Section 3.1 and Section 3.2. However, the specific IV terms that appear are under consideration, so that distinguishers can be deduced. Thus we propose in this subsection the manners to obtain the IV terms of boolean functions of Grain-128.

We first introduce an important property for Grain-128 as follows.

Property 1. Let $b_{i+128} = b'_{i+128} + z_i$ and $s_{i+128} = s'_{i+128} + z_i$, then $b_{i+128}s_{i+128} = b'_{i+128}s'_{i+128} + z_i(b'_{i+128} + s'_{i+128}) + z_i$, where z_i is the feedback bit, b'_{i+128} and s'_{i+128} are the state bits before the feedback of z_i .

Property 1 holds because there is a collision, i.e., $z_i \cdot z_i = z_i$

Degree estimation of state bits After the nullification and IV choosing scheme introduced in Section 3.1 and Section 3.2, we first estimate the degree of some state bits. Degrees of some state bits are shown in Table 3, which can be obtained directly on PC by obtaining their boolean function in IV bits and key bits. In fact, the exact degree of state bits before round 150 can be obtained, while the others can be estimated by substitution.

In addition to the degrees of the state bits, another observation of the degree reduction of the multiplication of two state bits can be also obtained, that is we can obtain $\deg(b_i) + \deg(s_i) - \deg(b_is_i)$, which is shown in Table 4. This degree reduction is resulted from Property 1. Hence, some state terms involving b_is_i that are in Table 4 can be discarded by increasing the degree threshold by the degree reduction. So Table 4 can help to discard state terms in advance.

Remove the Repeated Terms We know that it is much easier to illustrate the output with the state bits than using the key and IV bits directly. Moreover, the state bits can be expressed by earlier ones that are simpler functions of the IV and key bits. As a consequence, we can iteratively express the output bits.

Table 3. Degree of partial state bits

i	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146
$\deg(b_i)$	1	2	1	0	1	0	0	1	0	0	0	1	2	2	2	0	1	0	1
$\deg(s_i)$	1	2	2	1	1	1	1	0	1	1	1	1	2	1	2	0	1	1	1
i	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165
$\deg(b_i)$	1	1	1	0	2	1	0	2	2	1	1	1	0	2	2	3	3	2	2
$\deg(s_i)$	1	1	1	1	2	1	1	2	2	1	1	1	0	2	2	3	3	2	2
i	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184
$\deg(b_i)$	2	2	2	1	0	1	2	3	3	3	0	2	2	2	2	2	2	2	3
$\deg(s_i)$	1	2	2	1	1	1	2	3	3	3	2	2	2	2	2	2	2	2	3
i	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203
$\deg(b_i)$	2	2	2	3	2	2	2	2	3	3	5	4	3	3	3	3	3	3	0
$\deg(s_i)$	2	2	2	3	2	2	2	2	3	3	5	4	3	3	3	3	3	3	2
i	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222
$\deg(b_i)$	3	3	5	4	4	3	4	4	4	3	3	4	3	5	4	4	4	5	5
$\deg(s_i)$	3	3	5	4	4	3	4	4	4	3	3	4	3	5	4	4	4	5	4

Table 4. $\deg(b_i) + \deg(s_i) - \deg(b_i s_i)$

i	129	140	142	151	154	155	160	161	162	163	164	165	167
$\deg(b_i) + \deg(s_i) - \deg(b_i s_i)$	1	1	1	1	1	1	1	1	1	2	1	1	1
i	168	172	173	174	175	180	181	182	183	184	188	193	194
$\deg(b_i) + \deg(s_i) - \deg(b_i s_i)$	1	1	1	2	2	1	1	1	1	1	1	2	1
i	195	196	197	198	199	206							
$\deg(b_i) + \deg(s_i) - \deg(b_i s_i)$	2	3	1	1	1	1							

During this procedure, we will try to reduce the complexity of the polynomial by removing the so called **repeated terms** (RT).

Two terms are repeated terms if they are the same by ignoring s_i ($i \in [96, 127]$) (which are all 1s). It is obvious that the boolean addition of two RT is zero.

The collision which is shown in Property 1 can result in a number of repeated terms when substituting the terms of z_i . Actually we find that the repeated term are mostly caused from collisions. Property 1 is trivial, however, it helps a lot when we remove the RT with computer program but not manually before our RT removing algorithm, which is shown in Algorithm 1.

Suppose that there are *n* terms, the complexity of Algorithm 1 is O(n).

Identifying the IV Terms of Degree 43 Removing the RT is not enough since the number of terms still increases dramatically, which pushes us to reduce the terms furthermore.

Table 5. Low frequency bits

low-frequency bits	corresponding state bits
s_0	$b_{128}, s_{128}, b_{160}, s_{160}$
s_2	b_{130}, s_{130}
s_{37}	$b_{157}, s_{157}, s_{158}$
\$43	\$133
s_{60}	$b_{146}, s_{146}, s_{150}$
s_{80}	$b_{129}, s_{129}, s_{138}, b_{148}, s_{148}$
s_{90}	$s_{137}, s_{148}, s_{158}$

Algorithm 1 Repeated-term Removing Algorithm
Input: The vector T with n terms, i.e., T_1, T_2, \ldots, T_n .
Output: Updated T with m terms, where $m \leq n$.
1: Initialize an empty Hash Set H .
2: for $i \leftarrow 1: n$ do
3: Compute the Hash value of T_i , i.e., $H(T_i)$
4: if $H.contains(T_i)$ is true then
5: $H.delete(T_i)$
6: else
7: $H.insert(T_i)$
8: end if
9: end for

IV representation. Replacing the terms with their corresponding IV terms is called *IV representation*. Due to the neglect of the key information, using IV representation will result in repeated IV terms.

Repeated IV terms. When two IV terms are the same, then one of them can be removed directly, which is shown in Algorithm 2. Supposing there are n IV terms ,the complexity of Algorithm 2 is O(n).

Algorithm 2 Repeated-IV term Removing Algorithm
Input: The vector T with n IV terms, i.e., T_1, T_2, \ldots, T_n .
Output: Updated T with m IV terms, where $m \leq n$.
1: Initialize an empty Hash set H .
2: for $i \leftarrow 1: n$ do
3: Compute the Hash value of T_i , i.e., $H(T_i)$.
4: if $H.contains(T_i)$ is false then
5: $H.insert(T_i)$.
6: end if
7: end for

Covered IV terms. In addition to repeated IV terms, we give the definition of covered IV terms: If $I \subseteq J$, then IV term $s_1 = \prod_{i \in I} v_i$ is said to be covered

by IV term $s_2 = \prod_{j \in J}$, where I and J are subsets of $\{0, 1, \dots, 95\}$ respectively. So repeated IV terms are special cases of covered IV terms.

Covered IV terms will show up frequently using IV representation, so we develop an algorithm to remove the covered IV terms, which is shown in Algorithm 3.

Algorithm 3 Covered-(IV)term Removing Algorithm

```
Input: The vector T of n terms, i.e., T_1, T_2, \ldots, T_n.
Output: Updated T with m terms, where m \leq n.
 1: for i \leftarrow 1: n-1 do
 2:
       if T_i \neq 0 then
 3:
           for j \leftarrow i+1:n do
 4:
              if T_j \neq 0 then
                 if (T_i \text{ is covered by } T_j) then
 5:
 6:
                    T_i \leftarrow 0
 7:
                    i \leftarrow i + 1
 8:
                 else if (T_i \text{ is covered by } T_i) then
 9:
                    T_i \leftarrow 0
10:
                    j \leftarrow j + 1
                 end if
11:
12:
              end if
13:
           end for
14:
        end if
15: end for
16: m \leftarrow 1
17: for i \leftarrow 1: n do
        if T_i \neq 0 then
18:
19:
           T_m \leftarrow T_i
20:
           m \leftarrow m + 1
21:
        end if
22: end for
```

Here we give an example to illustrate the use of IV representation, repeated IV term removing and covered IV term removing. Assume that $x_1 = v_0(k_1 + k_0k_2) + v_0v_1k_2$, $x_2 = v_1k_0 + v_1v_2k_1$, then the IV representations of x_1 and x_2 are $\hat{x}_1 = v_0 + v_0v_1$ and $\hat{x}_2 = v_1 + v_1v_2$ respectively. After removing the repeated IV terms of $\hat{x}_1\hat{x}_2 = v_0v_1 + v_0v_1v_2 + v_0v_1 + v_0v_1v_2$ using Algorithm 2, the resultant IV terms are v_0v_1 and $v_0v_1v_2$, so that the existent IV terms can be determined. When only the highest degree is under consideration, then Algorithm 3 can be used. After removing the covered IV terms, $\hat{x}_1 = v_0v_1$, $\hat{x}_2 = v_1v_2$. Then $\hat{x}_1\hat{x}_2 = v_0v_1v_2$. So the highest degree of x_1x_2 is 3, within the IV term $v_0v_1v_2$. Using the IV representation and Algorithm 3, only 1 IV multiplication is needed for this concrete example, while 4 IV multiplication and 6 key multiplication are needed in the trivial way.

Since the coefficient function on key bits is usually quite complicated, the proposed method reduces the computing complexity dramatically, which enables us to obtain the IV terms of degree 43. From the observation of Grain-128, we believe there are nonexistent IV terms of some degrees. For example, there are nonexistent IV terms of degree 42 and 44. We choose to determine nonexistent IV terms of degree 43 for two reasons: 1) there are enough nonexistent IV terms that can be used as distinguishers for degree 43 with consideration of the density while there may be no enough distinguishers of degree more than 43; 2) the computing complexity of obtaining the nonexistent IV terms of degree 43 is within our computing ability while it is much more complicated to determine the nonexistent IV terms of degree lower than 43.

The computational complexity of Algorithm 3 is $O(n^2)$ if there are n IV terms. This is the worst-case complexity; while for Grain-128 the complexity will be much lower due to the fact that an higher degree term may cover a larger number of lower degree ones. Normally, processing 30 million IV terms by Algorithm 3 only needs about several minutes on a single core, which is quite efficient.

It is obvious that Algorithm 2 will not lose any information of IV terms. Now we have to make sure that the above method does not lose any information about the degree, i.e., the degree of the original polynomial will be bounded by the deduced degree.

Property 2. The degree of the multiplication of two state bits is strictly bounded by the estimated one deduced by *IV representation* and Algorithm 3.

Proof. This proof is composed of two steps. First, we need to prove that IV representation of the state bits with Algorithm 3 will guarantee the keeping of the IV terms with the highest degree. Then, we need to prove that applying Algorithm 3 on the multiplication of two IV-represented state bits will guarantee the keeping of the IV terms with the highest degree. It is obvious right for the latter one, we just need to prove the former one.

Consider state terms $A = a_1 + a_2 + \cdots + a_m$ and $B = b_1 + b_2 + \cdots + b_n$, where a_i and b_j are IV terms. Assuming that a_{i_1} is covered by a_{i_2} , then $a_{i_1}B$ will be covered by $a_{i_2}B$. Hence, a_{i_1} can be removed from A, which is done by Algorithm 3. The removal of IV terms in B is similar. \Box

This property can be easily extended to the multiplication of multiple state bits, which holds by iteratively using Property 2.

Actually, Algorithm 3 can be used to remove the so called **covered terms** (CT), where CT is defined as follows:

Let state terms

$$t_1 = \prod_{i_1 \in I_1} b_{i_1} \prod_{i_2 \in I_2} b_{i_2} \prod_{i_3 \in I_3} s_{i_3}$$

and

$$t_2 = \prod_{j_1 \in J_1} b_{j_1} \prod_{j_2 \in J_2} b_{j_2} \prod_{j_3 \in J_3} s_{j_3},$$

where $I_1, J_1 \subseteq [0, 127], I_2, J_2 \subseteq [128, 352], I_3, J_3 \subseteq [0, 95] \bigcup [128, 352]$. Term t_1 is covered by t_2 if $I_2 \subseteq J_2$ and $I_3 \subseteq J_3$.

If the degree of a state term can be bounded by a bound using *IV representation*, then IV terms produced by the covered state terms will also be covered and hence will be removed using Algorithm 3. So covered state terms can be removed first. As a result, the state terms are partitioned into two sets, of which degrees of state terms in the first one are bounded by our bound while degrees of state terms in the other may be higher. Of course, most state terms will be in the first set. Algorithm 3 can be applied to the first set and most terms would be dropped off.

When there are billions of terms, removing the covered terms by executing Algorithm 3 on all terms with a single core is difficult as well, so we remove the covered terms in parallel. Here we propose a partition scheme that guarantees all covered terms can be removed. A term covers another if only the degree of the first is no less than that of the second. So the terms can be partitioned into different sets according to their degrees. First we apply Algorithm 3 to the highest degree terms, and remove the second highest degree terms that are covered by the highest ones. Then we operate Algorithm 3 on second highest degree terms, and so on, until all covered terms are removed. Normally, operating Algorithm 3 on 10 million state terms needs just several minutes in a single core when analyzing Grain-128. This is because a state term may cover a large number of state terms. Therefore, these terms will be set to 0 after a scan of all the state terms.

For state terms in the second set, we need to substitute the terms and remove the repeated terms using Algorithm 1 until the IV terms can be obtained using IV representation. Combined with Algorithm 2, all IV terms of degree 43 can be obtained.

3.4 Preprocessing Phase of the Proposed Attack

Now we are ready to describe the preprocessing phase of our attack, using the techniques proposed in the previous three subsections.

- 1. We deduce the key bits to be guessed (the number is 40), as well as the corresponding dynamic IV bits, to nullify the state bits shown in Table 2. The nullified IV bits and low-frequency bits shown in Table 6 are also chosen.
- 2. Iteratively express the output bit and discard the terms whose degrees are likely to be below certain threshold. Algorithm 1 is then used to remove the repeated terms. Note that there is no information lost in Algorithm 1. Not all state terms can be preserved in each substitution because there are large quantities of state terms. We just preserve high degree state terms, which depends on the storage and computing ability. Repeat this step until the IV multiplication can be executed, i.e., we express the state terms until all the state bits involved in the state terms are within the range of [0, 159].
- 3. Use IV representation, combined with Algorithm 2 and Algorithm 3 to obtain the existent IV terms of degree 43. Whether Algorithm 2 or Algorithm 3 is

Table 6. Nullified and low-frequency IV bits.

I nummed bus	$s_{14}, s_{16}, s_{20}, s_{22}, s_{23}, s_{24}, s_{28}, s_{30}, s_{32}, s_{33}, s_{35}, s_{36}, s_{38}, s_{41}, s_{44}, s_{50}, s_{51}, s_{53}$	
		$s_{55}, s_{56}, s_{61}, s_{64}, s_{67}, s_{68}, s_{69}, s_{70}, s_{71}, s_{75}, s_{76}, s_{79}, s_{81}, s_{82}, s_{84}, s_{85}, s_{86}, s_{94}$
	low-frequency bits	$s_0, s_2, s_{37}, s_{43}, s_{60}, s_{80}, s_{90}$

used depends on the real data. In fact, we use Algorithm 3 heuristically first to obtain the covered IV terms. If the resulted IV terms are of degree no more than 43, then finish; otherwise, Algorithm 2 is used to obtain the IV terms. This step may be repeated over the high degree state terms that deduce high degree IV terms.

4. We process the other state terms that have not been preserved. In fact, few of them can deduce IV terms of degree more than 43. We deduce the IV terms by heuristic similar to that in **Step 3** over state terms: we use Algorithm 3 first, if there are IV terms of degree more than 43, then we replace it with Algorithm 2. Note that most remaining state terms can not deduce IV terms of degree more than 43.

In Step 2, we will remove as many repeated terms as possible within our computing and storage ability. After Step 2, a large number of state terms are discarded. However, most of the terms are of degrees lower than our bound, which is actually proved by using Algorithm 3.

The preprocessing process is quite complicated, so we use a computer cluster with 740 nodes (8880 cores in total) to do most of the time consuming work. A dynamic number of cores are used (which are between 600 and 4000), depending on the specific program to be paralleled. Finally, we can determine all the IV terms that may appear, which are shown in Appendix B. The IV terms in Appendix B occur with probability 1/2 while the others do not occur with probability 1 in z_{257} .

3.5 Example

In this section, we use an example to illustrate the process of obtaining the nonexistent IV terms, with the same nullification and IV choosing schemes in previous sections. In order to exploit the nullification and IV choosing schemes, we choose to obtain the nonexistent IV terms of z_{191} , where the result is very easy to verify in a single core.

We express z_{191} as the following formula

 $z_{191} = b_{193} + b_{206} + b_{227} + b_{236} + b_{255} + b_{264} + b_{280} + s_{284} + b_{203}s_{199} + s_{204}s_{211} + b_{286}s_{233} + s_{251}s_{270} + b_{203}b_{286}s_{286}.$

Due to the nullification, b_{203} is nullified,

 $z_{191} = b_{193} + b_{206} + b_{227} + b_{236} + b_{255} + b_{264} + b_{280} + s_{284} + s_{204}s_{211} + b_{286}s_{233} + s_{251}s_{270}.$

Table 7. Nonexistent IV terms of degree 11 in z_{191}

2008100800	2000300800	2000500800	2000900800	2000110800	2000120800	2000140800	4000500800
2000180800	2000101800	2000102800	2000104800	2000108800	2000100900	2000100A00	4000900800
2000100C00	2000100810	2000100820	2000100840	2000100880	2000100801	2000100802	4000110800
2000100804	C000100800	4100100800	4200100800	4400100800	4800100800	4010100800	4000120800
4020100800	4040100800	4080100800	4001100800	4002100800	4004100800	4008100800	4000180800

If we consider the nonexistent IV terms of degree more than 11, then the other state terms except $b_{264} + b_{280} + s_{284} + b_{286}s_{233} + s_{251}s_{270}$ can be discarded directly because their degrees are less than 11, under the degree estimation in Table 3. After that, we substitute again and preserve the state terms that are of degree more than 11. Then we discard those state terms that can not deduce the low-frequency bits which are shown in Table 5. The number of state terms drops dramatically. We substitute again and preserve the state terms that are of degree more than 11 and that can deduce the low-frequency bits. After all the state bits are within the range of $[b_0, b_{159}]$ and $[s_0, s_{159}]$, we use IV representation, combined with Algorithm 3 and 2, to obtain the nonexistent IV terms. Here, we use Algorithm 3 to conduct the IV terms for convenience and find out the existent IV terms of degree more than 11 are very sparse. The highest degree is 15 and there are only 70 existent IV terms of degree 15. Furthermore, there is a large number of nonexistent IV terms of degree 11. For example, we choose the 40 nonexistent IV terms as distinguishers in Table 7. Each hexadecimal number in this table indicates a multiplication of 43 IV bits. Let $H = H_0 H_1 H_2 H_3 H_4 H_5 H_6 H_7 H_8 H_9$, where H_i is a hexadecimal number with the range of [0, 15]. As there are 39 bits, so H_9 is within the range of [0, 7]. Define h_{ij} as the *j*-th lowest bit of H_i . Let S be the vector whose elements are 4, 7, 11, $12,\,13,\,18,\,19,\,21,\,26,\,27,\,29,\,34,\,39,\,40,\,45,\,46,\,47,\,48,\,49,\,52,\,54,\,57,\,58,\,59,\,62,$ 63, 65, 66, 72, 73, 74, 78, 87, 88, 89, 91, 92, 93 and 95 sequently, then the cube defined by *H* is $v_0 v_2 v_{37} v_{43} v_{60} v_{80} v_{90} \prod_{i \in [0,9]} v_{S_{i*4+i}}^{h_{ij}}$.

4 On-line Phase of the Attack

In this section, we will introduce the on-line phase of our attack on Grain-128 and analyze its complexity. Actually, the on-line phase of our attack is much simpler than the preprocessing phase.

Since we determine that totally 2581 IV terms of degree 43 are possible to be existent, which means there are $C_{46-7}^{43-7} - 2581 = 6558$ nonexistent IV terms. The density of IV terms is about 28%. We choose cubes from these nonexistent IV terms. It is known that summing over each of the cubes, the output will be always zero, which results in distinguishers for key recovery. Since for the correct key guess the summation is always 0, while for the wrong ones the summation could be 0 or 1 with random probability. On average, 40 cubes are needed to get the correct key.

Thus, in this phase, we first guess the 40 key bits and choose the dynamic bits to nullify partial state bits. We sum over the output bits with the first chosen cube. If the result is 1, then we conclude that the guess is wrong. About half of the keys will be discarded in this way. For the remaining keys, we repeat the procedure with the second cube. And so on. Then after all the 40 cubes are used, it is supposed that only the correct key will be kept. Because there are more than 6000 nonexistent IV terms, there are enough such distinguishers.

Time Complexity: Sum over the first cube needs $2^{40} \cdot 2^{43} = 2^{83}$ bit operations. After the first sum, about half wrong key guesses are dropped off, that is $(2^{40} - 1)/2$ wrong key guesses and 1 right key remain. So there are $(2^{40} - 1)/2 + 1$ guesses for the second sum and the time complexity for the second sum is $((2^{40} - 1)/2 + 1) \cdot 2^{43}$. Generally, there are $(2^{40} - 1)/2^{n-1} + 1$ key guesses for the *n*-th sum over a nonexistent IV term. So the time complexity for the *n*-th sum is $2^{43}((2^{40} - 1)/2^{n-1} + 1)$. Totally, the time complexity is

$$\sum_{n=1}^{40} 2^{43} ((2^{40} - 1)/2^{n-1} + 1) \approx 2^{84}.$$

According to the estimation in [2], one encryption needs at least 1000 bit operations, which is equivalent to 2^{10} Grain-128 encryptions. So the attack needs about 2^{74} cipher executions.

Data Complexity: The data complexity is $2^{14} \cdot 43 \cdot 2^{43} \approx 2^{62.4}$.

After recovering the 40 key bits, there are various of methods to recover the remaining key bits. For example, b_{236} can be easily nullified with 23 key guesses. Nonexistent IV terms of lower dimensions can be obtained using the techniques in Section 3. For example, nonexistent IV terms of dimension 42 can be chosen as distinguishers. Then the complexity to recover these bits is about $23 \cdot 2^{23} \cdot 2^{42} \approx 2^{72}$ bit operations. Then the other key bits can be recovered by guessing with a complexity of 2^{65} . As a result, the complexity of our attack is dominated by the recovery of the first 40 bits.

5 Conclusion

In this paper, we improved the attack on full-round Grain-128. Our attack is based on the knowledge that a lot of IV terms will disappear, after nullifying some state bits and IV bits. In addition, we find out the low-frequency IV bits and exploit them in the high degree terms. We also propose a method to cancel the terms with lower degree, and exploit the IV representation to obtain the IV terms with much lower complexity. Then the nonexistent IV terms are used as distinguishers so that we improved the attack in [2] by a factor of 2^{16} . Our attack is not based on any key information, so we can attack Grain-128 with any arbitrary selected keys. Although the nonexistent IV terms can be tested by cube tester technique on super computers, our method can also work for higher dimensions, in which case the computing complexities for cube tester are beyond our ability.

In this paper, we have various of strategies in choosing IV bits such as choosing the low-frequency IV bits, so that the IV terms of degree 43 are very sparse. We believe that attacker can enhance the sparsity with lower degree, which is much more complicated, where more nullified IV bits and low-frequency IV bits should be exploited. So finding the lowest degree for sparse IV terms is an open problem for further research. In addition, we exploit the methods to the cryptanalysis of Trivium and find the nullification technique does not work, where nullification one state bits may result in the increased degrees of many state bits and hence the boolean polynomial of the output bit is more complicated. So how to use bit controlling technique to reduce the polynomials of Trivium will be next research point.

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A The details of nullifications

The nullification detail is shown in Table 8. The first column is the state bits to be nullified and the second column is the corresponding equation. The third column is the subkey bits guessed for nullifications. For example, in order to nullify b_{131} , we just need to set s_3 to $b_{15}b_{98} + \underline{b_{98}}s_{45} + b_{71}b_{87} + s_{63}s_{82} + b_{64}b_{68} + b_{43}b_{51} + b_{30}b_{62} + b_{20}b_{21} + b_{14}b_{16} + b_{6}b_{70} + s_{16}s_{23} + \underline{b_{15}}s_{11} + b_{99} + b_{94} + b_{92} + b_{76} + b_{67} + b_{59} + b_{48} + b_{39} + b_{29} + b_{18} + b_5 + b_3 + 1$, where b_{98} and b_{15} underlined are the key bits guessed. Besides these two bits, one expression on key bits indicated

by *, that is $b_{15}b_{98} + b_{71}b_{87} + b_{64}b_{68} + b_{43}b_{51} + b_{30}b_{62} + b_{20}b_{21} + b_{14}b_{16} + b_6b_{70} + b_{99} + b_{94} + b_{92} + b_{76} + b_{67} + b_{59} + b_{48} + b_{39} + b_{29} + b_{18} + b_5 + b_3$ should be guessed. Hence, three bits need to be guessed to nullify b_{131} . Totally, 40 bits should be guessed for nullifying the state bits in Table 2.

B All IV terms of degree 43 in z_{257}

The resulted IV terms that may appear are shown in Table 9, 10, 11, 12, 13and 14. The expression follows that in Section 3.5.

Table 8. Nullification equations

llified bi	itsEquations for nullification	Subkey bits gues
	$s_1 = b_{115}b_{123} + b_{92}b_{93} + b_{86}b_{88} + s_{88}s_{95} + \underline{b_{87}}s_{83} + b_{111}b_{127} + b_{104}b_{108} + b_{83}b_{91} + b_{48}b_{111}b_{127} + b_{104}b_{108} + b_{111}b_{128} + b_{111}b_{128} + b_{111}b_{118} +$	$b_{87}, b_{52}, b_{115}, b_{97}$
	$+b_{60}b_{61}+b_{54}b_{56}+b_{46}b_{110}+s_{56}s_{63}+b_{107}+b_{99}+b_{88}+b_{79}+b_{58}+b_{45}+b_{43}+s_{14}s_{21}$	b ₁₃ , *
b_{203}	$+s_{43} + b_{52}s_{48} + b_{113} + b_{104} + b_{85} + b_{55} + b_{42} + s_{78} + s_{47} + s_{40} + b_{106}b_{122} + b_{99}b_{103} + b_{50}b_{100} + b_{100}b_{100} + b_{100}b_{10} + b_{100}b_{$	
	$+b_{78}b_{86} + b_{65}b_{97} + b_{55}b_{56} + b_{49}b_{51} + b_{41}b_{105} + b_{50}s_{46} + b_{102} + b_{83} + b_{64} + b_{53} + b_{96}s_{43}$	
$+b_{40} + b_{104}b_{120} + b_{97}b_{101} + b_{76}b_{84} + b_{63}b_{95} + b_{53}b_{54} + b_{47}b_{49} + b_{104}b_{104}b_{120} + b_{104}b_{120} + b_{104}b_{120$	$+b_{40}+b_{104}b_{120}+b_{97}b_{101}+b_{76}b_{84}+b_{63}b_{95}+b_{53}b_{54}+b_{47}b_{49}+b_{39}b_{103}+b_{120}+s_{3}b_{13}b_{96}$	
	$+b_{101} + b_{90} + b_{125} + b_{109} + b_{100} + b_{92} + b_{81} + b_{72} + b_{62} + b_{51} + b_{36} + b_{77} + b_{75} + s_{82}$	
	$+s_{75} + b_{32}b_{115} + b_{115}s_{62} + b_{88}b_{104} + s_{80} + b_{81}b_{85} + b_{60}b_{68} + b_{47}b_{79} + b_{37}b_{38} + s_{39} + s_{80}$	
	$+b_{31}b_{33} + b_{23}b_{87} + b_{111} + b_{109} + b_{93} + b_{84} + b_{76} + b_{65} + b_{56} + b_{46} + b_{70}b_{102} + b_{16}$	
	$ b_{35} + b_{22} + b_{20} + b_{100}s_{47} + s_{18}s_{25} + b_{17}s_{13} + b_{78} + b_{50} + b_{41} + b_{13}s_{9} + s_{94} + b_{90} + b_{65} $	
	$+b_{20} + b_7 + s_{101} + s_{86} + s_{43} + s_{12} + s_5 b_{15} b_{98} + b_{98} s_{45} + b_{15} s_{11} + b_{92} + b_{67} + b_{46} + b_{37}$	
	$+b_{18} + b_{39} + s_{73} + s_{10} + 1$	
	$s_{83} = s_{48} + b_{48} + b_{74} + b_{104} + s_{11} + b_{11} + b_{37} + b_{67} + b_{14}b_{78} + b_{22}b_{24} + b_{28}b_{29} + b_{38}b_{70}$	$b_{23}, b_{111}, b_{16}b_{17}$
	$+b_{51}b_{59} + b_{72}b_{76} + b_{79}b_{95} + b_{13} + b_{26} + b_{47} + b_{56} + b_{75} + b_{100} + s_{19}b_{23} + b_{23}b_{106} + b_{16}$	$b_{25}, b_{99}b_{116}, *$
	$+b_{42} + b_{72} + b_{19}b_{83} + b_{27}b_{29} + b_{33}b_{34} + b_{43}b_{75} + b_{56}b_{64} + b_{77}b_{81} + b_{84}b_{100} + b_{18} + b_{31}$	25, 0990116, *
	$+b_{52} + b_{61} + b_{80} + b_{89} + b_{105} + b_{28}b_{111} + s_{58}b_{111} + b_{51}b_{115} + b_{59}b_{61} + b_{65}b_{66} + b_{75}b_{107}$	
^b 176	$+ b_{52} + b_{61} + b_{80} + b_{89} + b_{105} + b_{28} + b_{111} + b_{53} + b_{116} + b_{51} + b_{51$	
0176		
	$+b_{15}b_{17}b_{116} + b_{21}b_{22}b_{116} + b_{31}b_{63}b_{116} + b_{44}b_{52}b_{116} + b_{65}b_{69}b_{116} + b_{72}b_{88}b_{116} + b_{6}b_{116}$	
	$+b_{19}b_{116} + b_{40}b_{116} + b_{49}b_{116} + b_{68}b_{116} + b_{77}b_{116} + b_{93} + b_{93}b_{116} + s_{12}\underline{b_{16}b_{116}} + b_{16}b_{99}b_{116} + b_{16}b_{99}b_{116} + b_{16}b_{16}b_{16} + $	5
	$+b_{116} + s_{46} \\ b_{99} \\ b_{116} + b_{50} + b_{63} + b_{121} + s_{13} + b_{15} + b_{28} + b_{49} + b_{58} + b_{77} + b_{86} + s_{21} \\ b_{25} \\ b_{15} \\ b_{16} \\ b_{16}$	
	$+b_{25}b_{108} + s_{73}s_{92}$	
b_{170}	$s_{42} = b_{110}b_{126} + b_{103}b_{107} + b_{82}b_{90} + b_{69}b_{101} + b_{59}b_{60} + b_{53}b_{55} + b_{45}b_{109} + s_{55}s_{62} + b_{54}s_{50}$	*
	$+b_{115} + b_{106} + b_{98} + b_{87} + b_{78} + b_{68} + b_{57} + b_{44} + b_{42} + 1$	
	$s_{31} = b_{43}b_{126} + \underline{b_{126}}s_{73} + b_{99}b_{115} + s_{91} + b_{92}b_{96} + b_{71}b_{79} + b_{58}b_{90} + b_{48}b_{49} + b_{42}b_{44}$	b ₄₃ ,b ₁₂₆ , *
b_{159}	$+b_{34}b_{98} + s_{44}s_{51} + \underline{b_{43}}s_{39} + b_{127} + b_{122} + b_{120} + b_{104} + b_{95} + b_{87} + b_{76} + b_{67} + b_{57} + b_{46}$	
	$+b_{33} + b_{31} + 1$	
	$s_{25} = b_{37}b_{120} + b_{120}s_{67} + b_{93}b_{109} + s_{85} + b_{86}b_{90} + b_{65}b_{73} + b_{52}b_{84} + b_{42}b_{43} + b_{36}b_{38} + b_{121}b_{120} + b_{120}s_{67} $	*
b_{153}	$+b_{28}b_{92} + s_{38}s_{45} + b_{37}s_{33} + b_{116} + b_{114} + b_{98} + b_{89} + b_{81} + b_{70} + b_{61} + b_{51} + b_{40} + b_{27}$	
	$+b_{25} + 1$	
	$s_{17} = b_{29}b_{112} + \underline{b_{112}}s_{59} + b_{85}b_{101} + s_{77} + b_{78}b_{82} + b_{57}b_{65} + b_{44}b_{76} + b_{34}b_{35}$	$b_{29}, b_{112}, *$
b_{145}	$+b_{28}b_{30} + b_{20}b_{84} + s_{30}s_{37} + \underline{b_{29}}s_{25} + b_{113} + b_{108} + b_{106} + b_{90}$	
	$+b_{81} + b_{73} + b_{62} + b_{53} + b_{43} + b_{32} + b_{19} + b_{17} + 1$	
	$s_{15} = b_{27}b_{110} + \underline{b_{110}}s_{57} + b_{83}b_{99} + s_{75}s_{94} + b_{76}b_{80} + b_{55}b_{63} + b_{42}b_{74} + b_{32}b_{33}$	$b_{27}, b_{110}, *$
b_{143}	$+b_{26}b_{28} + b_{18}b_{82} + s_{28}s_{35} + \underline{b_{27}}s_{23} + b_{111} + b_{106} + b_{104} + b_{88} + b_{79}$	
	$+b_{71} + b_{60} + b_{51} + b_{41} + b_{30} + b_{17} + b_{15} + 1$	
	$s_{10} = b_{22}b_{105} + \underline{b_{105}}s_{52} + b_{78}b_{94} + s_{70}s_{89} + b_{71}b_{75} + b_{50}b_{58} + b_{37}b_{69} + b_{27}b_{28}$	b ₂₂ , b ₁₀₅ , *
b_{138}	$+b_{21}b_{23} + b_{13}b_{77} + s_{23}s_{30} + \underline{b_{22}}s_{18} + b_{106} + b_{101} + b_{99} + b_{83} + b_{74}$	
	$+b_{66} + b_{55} + b_{46} + b_{36} + b_{25} + b_{12} + b_{10} + 1$	
	$s_9 = b_{21}b_{104} + b_{104}s_{51} + b_{77}b_{93} + s_{69}s_{88} + b_{70}b_{74} + b_{49}b_{57} + b_{36}b_{68} + b_{26}b_{27}$	b ₂₁ , *
b_{137}	$+b_{20}b_{22} + b_{12}b_{76} + s_{22}s_{29} + b_{21}s_{17} + b_{105} + b_{100} + b_{98} + b_{82} + b_{73}$	
	$+b_{65} + b_{54} + b_{45} + b_{35} + b_{24} + b_{11} + b_9 + 1$	
	$s_8 = b_{20}b_{103} + b_{103}s_{50} + b_{76}b_{92} + s_{68}s_{87} + b_{69}b_{73} + b_{48}b_{56} + b_{35}b_{67} + b_{25}b_{26}$	*
b_{136}	$+b_{19}b_{21} + b_{11}b_{75} + s_{21}s_{28} + b_{20}s_{16} + b_{104} + b_{99} + b_{97} + b_{81} + b_{72} + b_{64}$	
	$+b_{53} + b_{44} + b_{34} + b_{23} + b_{10} + b_8 + 1$	
	$s_{77} = b_{19}b_{102} + \underline{b_{102}}s_{49} + s_{67}s_{86} + s_{20}s_{27} + \underline{b_{19}}s_{15} + b_{96} + s_{88}$	b ₁₉ , b ₁₀₂ , *
s_{135}	$+b_{80} + s_7 + b_{71} + b_{52} + s_{45} + b_{43} + b_{22} + s_{14} + b_{9}$	
	$s_{6} = b_{18}b_{101} + b_{101}s_{48} + b_{74}b_{90} + s_{66}s_{85} + b_{67}b_{71} + b_{46}b_{54} + b_{33}b_{65} + b_{23}b_{24}$	b ₁₀₁ , *
b_{134}	$+b_{17}b_{19} + b_{9}b_{73} + s_{19}s_{26} + b_{18}s_{14} + b_{102} + b_{97} + b_{95} + b_{79} + b_{70} + b_{62}$	1017
1.54	$\begin{array}{c} +b_{11}+b_{12}+b_{23}+b_{13}+b_{13}+b_{23}+b_{13}+b_{13}+b_{14}+b_{102}+b_{37}+b_{35}+b_{79}+b_{70}+b_{62}\\ +b_{51}+b_{42}+b_{32}+b_{21}+b_{8}+b_{6}+1\end{array}$	
	$s_{5} = b_{17}b_{100} + b_{100}s_{47} + b_{73}b_{89} + s_{65}s_{84} + b_{66}b_{70} + b_{45}b_{53} + b_{32}b_{64} + b_{22}b_{23}$	b ₁₇ , b ₁₀₀ , *
b133		, ~00, ~
-133	$+b_{16}b_{18} + b_{8}b_{72} + s_{18}s_{25} + b_{17}s_{13} + b_{101} + b_{96} + b_{94} + b_{78} + b_{69} + b_{61}$	
	$+b_{50} + b_{41} + b_{31} + b_{20} + b_7 + b_5 + 1$	bur bra
h	$s_3 = b_{15}b_{98} + b_{98}s_{45} + b_{71}b_{87} + s_{63}s_{82} + b_{64}b_{68} + b_{43}b_{51} + b_{30}b_{62} + b_{20}b_{21}$	b ₁₅ , b ₉₈ , *
b_{131}	$+b_{14}b_{16} + b_{6}b_{70} + s_{16}s_{23} + b_{15}s_{11} + b_{99} + b_{94} + b_{92} + b_{76} + b_{67}$	
	$+b_{59} + b_{48} + b_{39} + b_{29} + b_{18} + b_5 + b_3 + 1$	

 $\frac{1}{1} = \frac{1}{1} = \frac{1}$

Table 9. IV terms of degree 43 in z_{257} -part 1

FFFFFFDFB6	FFBFFFFB6	FFFFFFDBB7	FFFFFFDFA7	FFDFFFDFB7	FFBFFFFBB7
FFBFFFFA7	FF9FFFFB7	BFFFFFDFB7	FDFFFFDFB7	BFBFFFFB7	FDBFFFFB7
FFFFFFD7B7	FFBFFFF7B7	FFFFBFDFB7	FFFFFDDFB7	FFBFBFFFB7	FFBFFDFFB7
FFBFFFDFB7	FFFFFFDFB3	F7FFFFDFB7	FEFFFFDFB7	FFBFFFFB3	F7BFFFFB7
FEBFFFFFB7 FFFFFFDEB7	EFFFFFDFB7 7FFFFFDFB7	EFBFFFFFB7 FFBFFFFF97	FFFFFFDF97 FFBFDFFFB7	FFFFDFDFB7	FFEFFFDFB7
7FBFFFFFB7	BFEFFFEFF7	9FFFFFFFF7	9FEFFFFF7	DFEFFFEFF7	FFBFFFFEB7 BFFDFFEFF7
BFEDFFFFF7	9FFDFFFFF7	DFFDFFEFF7	DFEDFFFF7	FFEFFFFEF6	FFEFFFFCF7
FFFFFFF6F6	FFFFBFFFF6	FFFFFDFEF6	FFFFFFFFFFFFF	F7FFFFFFFF6	FEFFFFFFFF6
FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	FFFFFFFEE6	FFFDFFFEF6	FFBFFFFEF6	FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	FDFFFFFFF6
FFFFFFFFFFFFFFF	FFFFDFFEF6	FFFFF7FEF6	FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	FFFFFFECF7	FFFFFFFFCE7
FFFDFFFCF7	F7FFFFFCF7	FEFFFFFCF7	FFFFFFF4F7	FFFFBFFCF7	FFFFDFFCF7
FFFFFDFCF7	FFBFFFFCF7	FFEDFFEFF7	FFFFFFFC77	FFEFDFFDF7	FFEFFFFDF3
7FEFFFFDF7	FFEFFFF9F7	EFEFFFFDF7	F7EFFFFDF7	FFEFFFF5F7	FFEFBFFDF7
FEEFFFFDF7	FFEDFFFDF7	FFAFFFFDF7	FFEFFFFDE7	FFCFFFFDF7	FFEFFDFDF7
7FFFFFFDF3	FFFFFFF9F3	EFFFFFFDF3	FFFFFFF5F3	FFFFBFFDF3	FFDFFFFDF3
FFFFFDFDF3	FEFFFFFDF3	FFFFFFFDE3	FFFDFFFDF3	FFBFFFFDF3	FFFFDFFDF3
7FFFFFFDE7	7FFDFFFDF7	77FFFFFDF7	7EFFFFFDF7	FFFFFFF9E7	FFFDFFF9F7
F7FFFFF9F7	FEFFFFF9F7	EFFFFFFDE7	EFFDFFFDF7	E7FFFFFDF7	EEFFFFFDF7
FFFDFFF5F7	FFFDBFFDF7	FFFDFDFDF7	7FFFFFF5F7	FFFFFFF1F7	EFFFFFF5F7
7FFFBFFDF7	FFFFBFF9F7	EFFFBFFDF7	7FFFDFFDF7	7FFFFDFDF7	7FBFFFFDF7
FFFFDFF9F7	FFFFFDF9F7	FFBFFFF9F7	EFFFDFFDF7	EFFFFDFDF7	EFBFFFFDF7
F7FFFFF5F7	FEFFFFF5F7	F7FFBFFDF7	FEFFBFFDF7	FFFDFFFDE7	FFDFFFFDE7
FFDDFFFDF7	FFBDFFFDF7	F6FFFFDF7	F7FDFFFDF7	FEFDFFFDF7	F7BFFFFDF7
FEBFFFFDF7	F7FFFFFDE7	FEFFFFFDE7	F7DFFFFDF7	FEDFFFFDF7	F7FFFDFDF7
FEFFFDFDF7	F7FFDFFDF7	FFFFDFF5F7	FFFFFF5E7	FFDFFFF5F7	FFBFFFF5F7
FFFF9FFDF7	FFFFBFFDE7	FFDFBFFDF7	FFBFBFFDF7	FEFFDFFDF7	FFFDDFFDF7
FFBFDFFDF7	FFFFDFFDE7	FFDFDFFDF7	FFFFDDFDF7	FFFFFDFDE7	FFDFFDFDF7
FFBFFFFDE7	FF9FFFFDF7	FFBFFDFDF7	FFEFFFEEF7	FFEDFFFEF7	FFFDFFEEF7 FBFFFFEEF7
FBFDFFFEF7	DFFFFFEEF7 FBFFFFFAF7	EBFFFFFFF7	FBFFFFF6F7	FBFFFFFFFF	FBFFFFEE7
FBDFFFFFF7	FBFFFDFEF7	FBBFFFFEF7	F3FFFFFFFF	FAFFFFFFF7	FBFFBFFEF7
DBFFFFFFF7	F9FFFFFFFF	FBFFFFDEF7	FBFFFFFED7	FBFFF7FEF7	BFFFDFFEF7
BFEFFFFFF7	BFFFFFEEF7	BFFDFFFEF7	BFFFFFFAF7	AFFFFFFFFF	BFFFFFF6F7
BFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	BFFFFFFEE7	BFDFFFFEF7	BFFFFDFEF7	BFBFFFFEF7	B7FFFFFFFF
BEFFFFFFF7	BFFFBFFEF7	9FFFFFFFFF7	BDFFFFFFF7	BFFFFFDEF7	BFFFFFFED7
BFFFF7FEF7	FFEFDFFEF7	FFFFDFEEF7	FFFDDFFEF7	DFFFDFFEF7	FFFFFFFF76
FFFFF7FF76	7FEFFFFEF7	7FFFFFEEF7	7FFDFFFEF7	FFEFFFFAF7	FFFFFFEAF7
FFFDFFFAF7	7FFFFFFAF7	EFEFFFFEF7	EFFFFFEEF7	EFFDFFFEF7	6FFFFFFFF7
EFFFFFFAF7	FFEFFFF6F7	FFFFFFE6F7	FFFDFFF6F7	FFEFBFFEF7	FFFFBFEEF7
FFFDBFFEF7	FFDFFFFEF3	FFFFFDFEF3	FFEFFFFEF3	FFFFFFEEF3	FFFFFFFEE3
FFFDFFFEF3	FFEFFFFEE7	FFDFFDFEF7	FFCFFFFEF7	FFEFFDFEF7	FFFFFFEEE7
FFDFFFEEF7	FFFFFDEEF7	FFFDFFFEE7	FFDFFFFEE7	FFFFFDFEE7	FFDDFFFEF7
FFFDFDFEF7	FFFFFFF6F3	FFFFFFF6E7	FFDFFFF6F7	FFFFFDF6F7	7FFFFFF6F7
FFFFFFF2F7	EFFFFFF6F7	7FFFFFFFF3	7FFFFFFEE7	7FDFFFFEF7	7FFFFDFEF7
FFFFFFFAF3	FFFFFFFAE7	FFDFFFFAF7	FFFFFDFAF7	EFFFFFFFF3	EFFFFFFEE7
EFDFFFFF7	EFFFFDFEF7	FFFFFFFCF6	FFAFFFFFF7	FFBFFFEEF7	FFBDFFFEF7
F6FFFFFFF7	F7EFFFFFF7	FEEFFFFEF7	F7FFFFEEF7	FEFFFFEEF7	F7FDFFFEF7
FEFDFFFEF7	F7BFFFFFF7 F7FFFFFAF7	FEBFFFFEF7	7FBFFFFFF7	77FFFFFFF7 E7FFFFFFF7	7EFFFFFFF7 EEFFFFFFFF7
FFBFFFFAF7 FFBFFFF6F7	F7FFFFFFFF	FEFFFFFAF7 FEFFFFF6F7	EFBFFFFEF7 FFBFFFFEF3	E7FFFFFEF7 FFBFFFFEE7	FF9FFFFEF7
FFBFFDFEF7	F7FFFFFFFF	FEFFFFFFFF	F7FFFFFEE7	FEFFFFFEE7	F7DFFFFEF7
FEDFFFFFF7	F7FFFDFEF7	FEFFFDFEF7	7FFFBFFEF7	FFFFBFFAF7	EFFFBFFEF7
5FFFFFFFFFF	DFFFFFFAF7	CFFFFFFFFF	FFFFBFF6F7	DFFFFFF6F7	FFFFBFFEF3
FFFFBFFEE7	FFDFBFFEF7	FFFFBDFEF7	DFFFBFFEF7	DFFFFFFFFF	DFFFFFFEE7
DFDFFFFEF7	DFFFFDFEF7	FFBFBFFEF7	F7FFBFFEF7	FEFFBFFEF7	DFBFFFFEF7
D7FFFFFFF7	DEFFFFFFF7	FDEFFFFFF7	FDFFFFEEF7	FDFDFFFEF7	FFEFFFDEF7
FFFFFFCEF7	FFFDFFDEF7	FFEFFFFED7	FFFFFFEED7	FFFDFFFED7	FFEFF7FEF7
FFFFF7EEF7	FFFDF7FEF7	DDFFFFFEF7	DFFFFFDEF7	DFFFFFFED7	DFFFF7FEF7
7DFFFFFFF7	FDFFFFFAF7	EDFFFFFFF7	FDFFFFF6F7	FDFFBFFEF7	FDFFFFFFF3
FDFFFFFEE7	FDDFFFFEF7	FDFFFDFEF7	FDFFFFFCF7	FFFFFFDCF7	FFFFFFFCD7
FFFFF7FCF7	FDBFFFFEF7	F5FFFFFFF7	FCFFFFFFF7	FFEFFFEFF6	FFEDFFFF6
FFFDFFEFF6	DFEFFFFF6	DFFFFFEFF6	DFFDFFFF6	7FFFDFFEF7	7FFFFFDEF7
7FFFFFFED7	FFFFDFFAF7	FFFFFFDAF7	FFFFFFFAD7	EFFFDFFEF7	EFFFFFDEF7
EFFFFFED7	7FFFF7FEF7	FFFFF7FAF7	EFFFF7FEF7	FFFFDFF6F7	FFFFFFD6F7
FFFFFF6D7	FFFF9FFEF7	FFFFBFDEF7	FFFFBFFED7	FFFFDFFEF3	FFFFDFFEE7
FFDFDFFEF7	FFFFDDFEF7	FFFFFFDEF3	FFFFFFED3	FFFFFFDEE7	FFDFFFDEF7
FFFFFDDEF7	FFFFFFFEC7	FFDFFFFED7	FFFFFDFED7	FFFFF7F6F7	FFFFB7FEF7
FFFFF7FEF3	FFFFF7FEE7	FFDFF7FEF7	FFFFF5FEF7	FFBFFFDEF7	FFBFDFFEF7
FFBFFFFED7 FEFFFFFED7	F7FFDFFEF7 FFBFF7FEF7	FEFFDFFEF7 F7FFF7FEF7	F7FFFFDEF7 FEFFF7FEF7	FEFFFFDEF7 FDFFDFFEF7	F7FFFFFED7 FDFFFFDEF7
		FIFFF(FEF)			
FDFFFFFED7	FFFFDFDEF7		FFFFDFFED7	FFFFD7FEF7	FDFFF7FEF7

Table 10. IV terms of degree 43 in z_{257} -part 2

FFFFF7DEF7	FFFFF7FED7	FBEFFFFF6	FBFFFFEFF6	FBFDFFFF6	DBFFFFFF6
FBFFDFFFF6	FBFFFFFBF6	FBFFFFF7F6	FBFFBFFFF6	FBFFFFFFF2	FBFFFFFE6
FBDFFFFF6	FBFFFDFFF6	FBBFFFFFF6	F3FFFFFF6	FAFFFFFF6	7BFFFFFF6
BBFFFFFFF6	EBFFFFFFF6	F9FFFFFF6	FBFFFFDFF6	FBFFFFFD6	FBFFF7FFF6
FFEFDFFFF6	FFFFDFEFF6	FFFDDFFFF6	DFFFDFFF6	FFFFDFFBF6	FFFFDFF7F6
FFFF9FFF6	FFFFDFFF2	FFFFDFFFE6	FFDFDFFFF6	FFFFDDFFF6	FFBFDFFFF6
F7FFDFFFF6	FEFFDFFFF6	7FFFDFFFF6	BFFFDFFF6	EFFFDFFFF6	FFEFFFFBF6
FFFFFFEBF6	FFFDFFFBF6	FFEFFFF7F6	FFFFFFE7F6	FFFDFFF7F6	FFEFBFFFF6
FFFFBFEFF6	FFFDBFFFF6	FFDFFFFF2	FFFFFDFFF2	FFEFFFFF2	FFFFFFFFF2
FFFFFFFE2	FFFDFFFFF2	FFEFFFFE6	FFDFFDFFF6	FFCFFFFF6	FFEFFDFFF6
FFFFFFEFE6	FFDFFFEFF6	FFFFFDEFF6	FFFDFFFE6	FFDFFFFE6	FFFFFDFFE6
FFDDFFFF6	FFFDFDFFF6	FFFFFFF7F2	FFFFFFF7E6	FFDFFFF7F6	FFFFFDF7F6
FFFFFF3F6	FFFFFFFFFF	FFFFFFBE6	FFDFFFFBF6	FFFFFDFBF6	FFAFFFFF6
FFBFFFEFF6 FEFFFFEFF6	FFBDFFFF6 F7FDFFFFF6	F6FFFFFF6 FEFDFFFFF6	F7EFFFFF6 F7BFFFFFF6	FEEFFFFF6 FEBFFFFFF6	F7FFFFFF6 7FEFFFFFF6
7FFFFFFFFF6	7FFDFFFFF6	BFEFFFFF6	BFFFFFFFFF6	BFFDFFFFF6	EFEFFFFFF6
EFFFFFFFFF6	EFFDFFFFF6	6FFFFFFFF6	7FBFFFFFF6	77FFFFFFF6	7EFFFFFFF6
EFBFFFFF6	E7FFFFFFF6	EEFFFFFFFF6	FFBFFFFBF6	F7FFFFFFFFFF	FEFFFFFFFFFF
BFBFFFFF6	B7FFFFFFF6	BEFFFFFFF6	7FFFFFFFFFF	3FFFFFFFF6	BFFFFFFBF6
EFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	AFFFFFFFF6	FFBFFFF7F6	F7FFFFF7F6	FEFFFFF7F6	FFBFFFFFF2
FFBFFFFFE6	FF9FFFFF6	FFBFFDFFF6	F7FFFFFFF2	FEFFFFFFF	F7FFFFFFE6
FEFFFFFE6	F7DFFFFFF6	FEDFFFFF6	F7FFFDFFF6	FEFFFDFFF6	7FFFFFF7F6
BFFFFFF7F6	EFFFFFF7F6	7FFFFFFFF	7FFFFFFE6	7FDFFFFFF6	7FFFFDFFF6
BFFFFFFFF2	BFFFFFFFE6	BFDFFFFFF6	BFFFFDFFF6	EFFFFFFFF2	EFFFFFFFE6
EFDFFFFFF6	EFFFFDFFF6	FFFFBFFBF6	DFFFFFFBF6	FFFFBFF7F6	DFFFFFF7F6
FFFFBFFFF2	FFFFBFFFE6	FFDFBFFFF6	FFFFBDFFF6	DFFFBFFFF6	DFFFFFFFF2
DFFFFFFFE6	DFDFFFFFF6	DFFFFDFFF6	FFBFBFFFF6	F7FFBFFFF6	FEFFBFFFF6
DFBFFFFF6	D7FFFFFF6	DEFFFFFF6	7FFFBFFFF6	BFFFBFFFF6	EFFFBFFFF6
5FFFFFFF6	9FFFFFFF6	CFFFFFFF6	FDEFFFFF6	FDFFFFFF6	FDFDFFFF6
FFEFFFDFF6	FFFFFFCFF6	FFFDFFDFF6	FFEFFFFD6	FFFFFFFFFD6	FFFDFFFFD6
FFEFF7FFF6	FFFFF7EFF6	FFFDF7FFF6	DDFFFFFF6	DFFFFFDFF6	DFFFFFFFD6
DFFFF7FFF6	FDFFDFFFF6	FFFFDFDFF6	FFFFDFFFD6	FFFFD7FFF6	FDFFFFFBF6
FFFFFFDBF6	FFFFFFFBD6	FFFFF7FBF6	FDFFFFF7F6	FFFFFFD7F6	FFFFFFF7D6
FFFFF7F7F6	FDFFBFFFF6	FFFFBFDFF6	FFFFBFFFD6	FFFFB7FFF6	FDFFFFFF2
FDFFFFFE6	FDDFFFFFF6	FDFFFDFFF6	FFFFFFDFF2	FFFFFFFD2	FFFFFFDFE6
FFDFFFDFF6	FFFFFDDFF6	FFFFFFFFC6	FFDFFFFD6	FFFFFDFFD6	FFFFF7FFF2
FFFFF7FFE6	FFDFF7FFF6	FFFFF5FFF6	FFBFFFDFF6	FFBFFFFD6	FDBFFFFF6
F5FFFFFF6	FCFFFFFF6	F7FFFFDFF6	FEFFFFDFF6	F7FFFFFD6	FEFFFFFD6
FFBFF7FFF6	F7FFF7FFF6	FEFFF7FFF6	7DFFFFFF6	7FFFFFDFF6	FDFFFFDFF6
FFFFFFDFD6	FDFFFFFD6	7FFFFFFD6	7FFFF7FFF6	BDFFFFFF6	BFFFFFDFF6
BFFFFFFD6	BFFFF7FFF6	EDFFFFFF6	EFFFFFDFF6	EFFFFFFD6	EFFFF7FFF6
FDFFF7FFF6	FFFFF7DFF6	FFFFF7FFD6	FBFFFFFE77	FBFFF7FF77	BFFFFFFE77
BFFFF7FF77	7FFFFFFE77	7FFFF7FF77	BBFFDFFFF7	3BFFFFFF7	BBFFFFFBF7
ABFFFFFF7 BBFFFDFF7	BBFFFFF7F7 BBBFFFFFF7	BBFFBFFFF7 B3FFFFFFF7	BBFFFFFF3 BAFFFFFFF7	BBFFFFFFF7 B9FFFFFFF7	BBDFFFFFF7 BBFFFFDFF7
BBFFFFFFD7	BBFFF7FFF7	FFEFFFFE77	FFFFFFEE77	FFFDFFFE77	FFFFFFFA77
EFFFFFFF77	FFEFF7FF77	FFFFF7EF77	FFFDF7FF77	FFFFF7FB77	EFFFF7FF77
FFFFFFF677	FFFFFFFF73	FFFFFFFE67	FFDFFFFE77	FFFFFDFE77	FFFFF7F777
FFFFF7FF73	FFFFF7FF67	FFDFF7FF77	FFFFF5FF77	FFBFFFFE77	F7FFFFFF77
FEFFFFF77	FFBFF7FF77	F7FFF7FF77	FEFFF7FF77	FFFFBFFE77	DFFFFFFE77
FFFFB7FF77	DFFFF7FF77	FDFFFFFE77	FDFFF7FF77	FFFFDFFE77	FFFFFFDE77
FFFFFFFE57	FFFFD7FF77	FFFFF7DF77	FFFFF7FF57	FFFFF7FE77	FFEFDFFFE7
FFEFDFFF3	FFEFDFEFF7	FFEDDFFFF7	FFCFDFFFF7	FFEFDDFFF7	FFFDDFEFF7
FFEFDFF7F7	FFEFDFFBF7	FFAFDFFFF7	F7EFDFFFF7	FEEFDFFFF7	FFEF9FFFF7
					SDDDDDDD
DFEFDFFF7	DFFFDFEFF7	DFFDDFFFF7	7FEFFFEFF7	7FEDFFFFF7	7FFDFFEFF7
DFEFDFFF7 FFEFFFEBF7		DFFDDFFFF7 FFFDFFEBF7	7FEFFFEFF7 EFEFFFEFF7	7FEDFFFFF7 EFEDFFFFF7	EFFDFFEFF7
	DFFFDFEFF7				
FFEFFFEBF7 6FEFFFFFF7 FFEFBFEFF7	DFFFDFEFF7 FFEDFFFBF7 6FFFFFEFF7 FFEDBFFFF7	FFFDFFEBF7 6FFDFFFFF7 FFFDBFEFF7	EFEFFFEFF7 FFEFFFE7F7 FFDFFDFFF3	EFEDFFFF7 FFEDFFF7F7 FFCFFFFFF3	EFFDFFEFF7 FFFDFFE7F7 FFDFFFEFF3
FFEFFFEBF7 6FEFFFFFF7 FFEFBFEFF7 FFFDFFFFE3	DFFFDFEFF7 FFEDFFFBF7 6FFFFFFF7 FFEDBFFFF7 FFDFFFFF83	FFFDFFEBF7 6FFDFFFF7 FFFDBFEFF7 FFDDFFFFF3	EFEFFFEFF7 FFEFFFE7F7 FFDFFDFFF3 FFEFFDFFF3	EFEDFFFF7 FFEDFFF7F7 FFCFFFFFF3 FFFFFDEFF3	EFFDFFEFF7 FFFDFFE7F7 FFDFFFEFF3 FFEFFFEFF3
FFEFFFEBF7 6FEFFFFF7 FFEFBFEFF7 FFFDFFFE3 FFFFFDFFE3	DFFFDFEFF7 FFEDFFFBF7 6FFFFFEFF7 FFEDBFFFF7 FFDFFFFF83 FFEFFFFF83	FFFDFFEBF7 6FFDFFFF7 FFFDBFEFF7 FFDDFFFF3 FFFDFDFFF3	EFEFFFEFF7 FFEFFFE7F7 FFDFFDFFF3 FFEFFDFFF3 FFEDFFFF3	EFEDFFFF7 FFEDFFF7F7 FFCFFFFFF7 FFFFFFFF73 FFFFFFFFF5	EFFDFFEFF7 FFFDFFE7F7 FFDFFFEFF3 FFEFFFEFF3 FFFDFFEFF3
FFEFFFEBF7 6FEFFFFF7 FFEFBFEFF7 FFFDFFFE3 FFFFFDFFE3 FFCFFDFFF7	DFFFDFEFF7 FFEDFFFFFF7 FFEDFFFFF7 FFDFFFFF53 FFEFFFFF53 FFEFFFF57 FFFFF57	FFFDFFEBF7 6FFDFFFF7 FFFDBFEFF7 FFDDFFFF73 FFFDFDFFF7 FFDFFDEFF7	EFEFFFEF7 FFEFFFE7F7 FFDFFDFFF3 FFEFFDFFF3 FFEDFFFF7 FFCFFFEFF7	EFEDFFFF77 FFEDFFF7F77 FFCFFFFF753 FFFFFFDEFF3 FFFFFFEFE3 FFEFFDEFF7	EFFDFFEFF7 FFFDFFE7F7 FFDFFFEFF3 FFEFFFEFF3 FFFDFFEFF3 FFFDFFEFF3
FFEFFFEBF7 6FEFFFFF7 FFEFBFEFF7 FFFFFFE3 FFFFFFF7 FFCFFDFFF7 FFEDFFF7	DFFFDFEFF7 FFEDFFFFF7 FFDFFFF7 FFDFFFF73 FFEFFFFF23 FFEFFFFF23 FFEFFFF77 FFDFFF77 FFDFFF777	FFFDFFEBF7 6FFDFFFF7 FFFDBFEFF7 FFDDFFFFF3 FFFDFFDEFF7 FFCFFFFFF7 FFCFFFFFF7	EFEFFFEF7 FFEFFF77 FFDFFDFF73 FFEFFDFFF3 FFEDFFFF3 FFCFFFEF77 FFEFFDFFF7	EFEDFFFF7 FFEDFF777 FFCFFFFF73 FFFFFDEFF3 FFFFFEFE3 FFEFFDEF77 FFDDFDFFF7	EFFDFFEF7 FFFDFFE77 FFDFFEF73 FFFFFFF7 FFFDFFEF73 FFFDFFF77 FFCDFFF77
FFEFFFEBF7 6FEFFFFF7 FFEFBFEF7 FFFDFFF3 FFFFDFFF3 FFCFFDFFF7 FFEDFFFF7 FFEDFFFF7	DFFFDFEFF7 FFEDFFFFF7 FFEDFFFF7 FFEDFFFFF3 FFEFFFFF53 FFEFFFFF57 FFFFFFF7 FFFFFFF7 FFFFFFF7 FFFFFF7 FFFFFF	FFFDFFEBF7 6FFDFFFF7 FFFDBFEFF7 FFDDFFFF3 FFFDFDFFF53 FFDFFDEFF7 FFCFFFFF7 FFDFFFFF7 FFDFFFFF7	EFEFFFEF7 FFEFFF77 FFDFFDFF73 FFEFFDFF73 FFEFFFF73 FFEFFFFF77 FFEFFDFF77 FFFFFDFF77 FFFFFDFF77	EFEDFFFF77 FFEDFFF777 FFCFFFF73 FFFFFDEF73 FFFFFFF75 FFEFF0EFF7 FFDDFDFF77 FFDDFFF77	EFFDFFEF7 FFFDFFEF77 FFDFFFEF73 FFFDFFEF73 FFFDFDFFF7 FFFDFDFFF7 FFFDFDFF77
FFEFFFEBF7 6FEFFFFF7 FFEFBFFF7 FFFFFFF53 FFFFFFF7 FFEDFFFF7 FFEDFFF773	DFFFDFEFF7 FFEDFFFBF7 FFEDFFFFF3 FFEFFFFF3 FFEFFFFF53 FFEFFFFF7 FFDFFFF7 FFFFFFF73 FFFFFF73	FFFDFFEBF7 6FFDFFFF7 FFDDFFFF7 FFDDFFFF7 FFDFDFFF7 FFCFFFF7 FFDFFEF7 FFDFFFF773	EFEFFFE77 FFEFFFF73 FFEFFDFFF3 FFEFFDFFF3 FFEFFDFFF7 FFEFFDFF77 FFFFFDFF77 FFFFFF773	$\begin{array}{c} \text{EFEDFFFF7}\\ \text{FFEDFF77}\\ \text{FFCFFFF3}\\ \text{FFFFFEF3}\\ \text{FFFFFEF3}\\ \text{FFFFFFF7}\\ \text{FFDDFDF77}\\ \text{FFDDFDFF77}\\ \text{FFDDFDFFF77}\\ \text{FFFFFF723} \end{array}$	EFFDFFEFF7 FFDFFEFF3 FFEFFFEFF3 FFFDFFEFF3 FFFDFDFFE7 FFCDFFFF7 FFFDFDEFF77 FFFDFFF7F3
FFEFFFEBF7 6FEFFFFF7 FFFDFFFF2 FFFDFFFE3 FFFFFFF7 FFEDFFFF7 FFEDFFFF7 FFEFFF7757 FFEFFF7757	$\begin{array}{c} \text{DFFFDFEFF7} \\ \text{FFEDFFFFF7} \\ \text{FFFFFFF7} \\ \text{FFDFFFF77} \\ \text{FFDFFFF77} \\ \text{FFDFFFF77} \\ \text{FFDFFDF7777} \\ \text{FFFFFF7777} \\ \text{FFFFF77777} \\ \end{array}$	FFFDFFEBF7 6FFDFFFF7 FFDDFFFF7 FFDDFFFF3 FFFDFDFFF7 FFCFFFF77 FFCFFFF773 FFCFFF777	$\begin{array}{c} \text{EFEFFFEF7}\\ \text{FFEFFDFF3}\\ \text{FFEFFDFF3}\\ \text{FFEFFDFF73}\\ \text{FFEFFFF7}\\ \text{FFEFFFF7}\\ \text{FFFFFF73}\\ \text{FFFFFF73}\\ \text{FFFFFF73}\\ \text{FFFFF777}\\ \end{array}$	EFEDFFFF7 FFEDFFF7 FFFFFDEFF3 FFFFFDEFF3 FFFFFDEFF3 FFEFFDEFF7 FFDDFDFFF7 FFDFFF7E3 FFFFFF7E3 FFFFFF7E3	EFFDFFEF7 FFDFFEF73 FFEFFEF73 FFFFFFF7 FFFDFFE77 FFFDFFF77 FFFDFFF77 FFFDFFF773 FFDFFF773
$\begin{array}{c} FFEFFEBF7\\ 6FEFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF$	$\begin{array}{c} \text{DFFFDFEFF7} \\ FEDFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF$	FFFDFFEBF7 FFFDFFFF7 FFDFFFF7 FFDFFFF7 FFDFFFF7 FFDFFFF77 FFCFFFF777 FFDFFF777 FFDFFF777	$\begin{array}{l} \texttt{EFEFFEFF7}\\ \texttt{FEFFFEF77}\\ \texttt{FFDFFFF73}\\ \texttt{FFEFFDFFF73}\\ \texttt{FFCFFFFFF77}\\ \texttt{FFCFFFFFF77}\\ \texttt{FFFFFDFF77}\\ \texttt{FFFFFDFF77}\\ \texttt{FFFFFF777}\\ \texttt{FFFFFF777}\\ \texttt{FFFFFDF777}\\ \texttt{FFFFFDF777}\\ \texttt{FFFFFDF777}\\ \end{array}$	EFEDFFFF7F7 FFEDFFF7F7 FFFFFFF7F7 FFFFFFFF7F7 FFFFFFF7F7 FFDFF77 FFFFFF777 FFFFFF777 FFFFFF777 FFFFFF	EFFDFFEFF7 FFDFFEFF3 FFEFFFFFFFFF7 FFFDFFEFF3 FFFDFFEFF7 FFFDFFFF7 FFFDFFF77F3 FFFDFFF77F3 FFFDFFF7F7 FFFDFFF7F7
$\begin{array}{c} FFEFFFEF7\\ FFEFFFFF7\\ FFEFFFFF7\\ FFFDFFFF7\\ FFEDFFFF23\\ FFFFFFF77\\ FFEDFFF777\\ FFEFFF777\\ FFFFF777\\ FFFFF777\\ FFFFF777\\ FFFFF777\\ FFFFF7777\\ FFFF7777\\ FFFF7777\\ FFFF7777\\ FFFF7777\\ FFF7777\\ FFF7777\\ FFF7777\\ FFF7777\\ FFF7777\\ FFF7777\\ FFF7777\\ FF77777\\ FF777777\\ FF777777\\ FF777777\\ FF777777\\ FF777777\\ FF777777\\ FF7777777\\ FF77777777$	$\begin{array}{c} \text{DFFFDFEFF7} \\ \text{FFDFFFFF7} \\ \text{FFDFFFF7} \\ \text{FFDFFFF2} \\ \text{FFDFFFF2} \\ \text{FFDFFF2} \\ \text{FFDFFF2} \\ \text{FFDFFF2} \\ \text{FFFFF77} \\ \text{FFFF777} \\ \text{FFFF777} \\ \text{FFFF7777} \\ \text{FFFF77777} \\ \text{FFFF777777} \\ FFFF777777777777777777777777777777777$	$FFFDFFEBF7\\ 6FFDFFFF7\\ FFFDFFFF7\\ FFDDFFFF73\\ FFDFDFFF73\\ FFDFFDFFF777\\ FFDFFFF773\\ FFDFFF777\\ FFDFFF777\\ FFDFFF777\\ FFDFFF777\\ FFDFFF787\\ FFDFF787\\ FFDF787\\ FFDF787$ FFDF787\\ FFDF787\\ FFDF787\\ FFDF787 FFDF787\\ FFDF787 FFDF787\\ FFDF787	$\begin{array}{l} \texttt{EFEFFEFF7}\\ \texttt{FEFFFE777}\\ \texttt{FFEFFFF77}\\ \texttt{FFEFFF77}\\ \texttt{FFEFFF77}\\ \texttt{FFEFFF777}\\ \texttt{FFFFFE773}\\ \texttt{FFFFFF7777}\\ \texttt{FFFFF7777}\\ \texttt{FFFFF7777}\\ \texttt{FFFFF77777}\\ \texttt{FFFFF7777777}\\ FFFFF77777777777777777777777777777777$	EFEDFFFF7 FFEDFFF77 FFFFFFF73 FFFFFFF75 FFFFFFF75 FFEFFDFF77 FFDDFFF777 FFDDFF777 FFFFFF7573	$\begin{array}{l} \mbox{EFFDFFEFF7}\\ \mbox{FFDFFEF78}\\ \mbox{FFDFFEF78}\\ \mbox{FFDFFEF78}\\ \mbox{FFDFFFF77}\\ \mbox{FFDFFF777}\\ \mbox{FFDFFF777}\\ \mbox{FFDFFF777}\\ \mbox{FFEFFFF878}\\ \mbox{FFEFFF878}\\ \mbox{FFEFFF8788}\\ \mbox{FFEFFF878}\\ \mbox{FFEFF878}\\ \mbox{FFEFF878}\\ \mbox{FFEFF878}\\ \mbox{FFEFF878}\\ \mbox{FFEFF878}\\ \mbox{FFEFF878}\\ \mbox{FFEFF878}\\ \mbox{FFEF878}\\ \mbox{FFEF878}\\ \mbox{FFEF878}\\ \mbox{FFEF878}\\ \mbox{FFE788}\\ \mbox{FFE7888}\\ \mbox{FFE7888}\\ \mbox{FFE7888}\\ \mbox{FFE788}\\ \mbox$
$\begin{array}{c} FFEFFFEBF7\\ FFEFBFF7FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF$	$\begin{array}{c} DFFFDFEFF\\ FFEDFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF$	FFFDFFEBF7 6FFDDFFFF7 FFDDFFFF3 FFDDFDFFF3 FFDFDFDFFF7 FFCFFFFF7F3 FFCFFF7F3 FFCFFF7F3 FFCFFF7F7 FFDFFF7F7 FFFDFF753 FFFDFFF8F3	$\begin{array}{l} \texttt{EFEFFFEFF7}\\ \texttt{FFEFFFF77}\\ \texttt{FFEFFF77}\\ \texttt{FFEFFF777}\\ \texttt{FFEFFF777}\\ \texttt{FFFFFF777}\\ \texttt{FFFFF7777}\\ \texttt{FFFFF7777}\\ \texttt{FFFFF7777}\\ \texttt{FFFFF57777}\\ \texttt{FFFFF57777}\\ \texttt{FFFFF57777}\\ \texttt{FFFFF57777}\\ \texttt{FFFFF57777}\\ \texttt{FFFFF57777}\\ \texttt{FFFFF57777}\\ \texttt{FFFFF577777}\\ \texttt{FFFFF577777}\\ \texttt{FFFFF577777}\\ \texttt{FFFFF5777777}\\ FFFFF577777777777777777777777777777777$	EFEDFFFF7 FFEDFFFF7 FFFFFFF73 FFFFFEFF3 FFFFFEFF7 FFDFFFF77 FFDFFF7753 FFFFFF7753 FFFFFF7753 FFFFFF7753 FFFFFF7753 FFFFFF7753	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
$\begin{array}{c} FFEFFFEF7\\ FFEFBFF7\\ FFFDFFFE3\\ FFFFDFFF53\\ FFFFDFFF7\\ FFEDFFF7F7\\ FFEDFFF7F7\\ FFEFFF7F7\\ FFFFFE3F7\\ FFFFFE3F7\\ FFFFFE3F7\\ FFFFFE3F7\\ FFFFFE3F7\\ FFFFFE3F7\\ FFFFFE3F7\\ FFFFFDF3F7\\ FFFFFD5F7\\ FFFFFF5\\ FFFFFD5F7\\ FFFFFD5F7\\ FFFFFD5F7\\ FFFFFD5F7\\ FFFFFD5F7\\ FFFFFD5F7\\ FFFFF5\\ FFFF5\\ FFFF5\\ FFFF5\\ FFFF5\\ FFFF5\\ FFFF5\\ FFFF5\\ FFFF5\\ FFF5\\ FFFF5\\ FFF5\\ FFFF5\\ FFF5\\ FFF5\\ FFF5\\ FFF5\\ FFF5\\ FFF5\\ FFF5\\ FFF5\\ FFF5\\ FF5\\ $	$\begin{array}{c} \text{DFFFDFEFF7} \\ FEDFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF$	FFFDFFEBF7 6FFDFFFFF7 FFDDFFFF7 FFDDFFFFF7 FFDFFFFF7 FFCFFFFF77 FFCFFFF777 FFCFFF777 FFFDFFF777 FFFDFFF3F7 FFFDFFF3F7 FFFDFFF857	$\begin{array}{l} \texttt{EFEFFEF7}\\ \texttt{FEFFFF7}\\ \texttt{FFEFFF7}\\ \texttt{FFFFFF7}\\ \texttt{FFFFFF7}\\ \texttt{FFFFFF7}\\ \texttt{FFFFFF77}\\ \texttt{FFFFFF77}\\ \texttt{FFFFF777}\\ \texttt{FFFFF777}\\ \texttt{FFFFF777}\\ \texttt{FFFFF777}\\ \texttt{FFFFF777}\\ \texttt{FFFFF777}\\ \texttt{FFFFF777}\\ \texttt{FFFFF577}\\ \texttt{FFFFF5777}\\ \texttt{FFFFF5777}\\ \texttt{FFFFF5777}\\ \texttt{FFFFF5757}\\ \texttt{FFFFF57577}\\ \texttt{FFFFF575777}\\ \texttt{FFFFF575777}\\ \texttt{FFFFF575777}\\ \texttt{FFFFF5757777}\\ \texttt{FFFFF5757777}\\ \texttt{FFFF757577777}\\ FFFFF575777777777777777777777777777777$	EFEDFFFF7 FFEDFFF77 FFCFFFF73 FFFFFEF83 FFFFFEF83 FFFFFEF83 FFFFFF77 FFFFF773 FFFFF777 FFFFF777 FFFFF777 FFFFF778 FFDFF777 FFFFF778 FFDFF787	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
$FFEFFFEBF7\\FFEFBFF7\\FFEDFFFF7\\FFEDFFF7\\FFEDFFF7\\FFEDFFF77\\FFEDFFF777\\FFEFF777\\FFFF777\\FFFFF777\\FFFFF777\\FFFFF777\\FFFFF777\\FFFFFF$	$\begin{array}{c} DFFFDFEFF\\ FFEDFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF$	$FFFDFFEBF7\\ FFFDBFEF7\\ FFDDFFFF7\\ FFDFDFFF73\\ FFDFDFDFF73\\ FFDFFDFFF77\\ FFDFFFF773\\ FFDFFF773\\ FFDFFF773\\ FFDFFF777\\ FFDFFF777\\ FFFDFFF377\\ FFFDFFF873\\ FFFDFFF857\\ FFFDFFF857\\ FFFDFFF857\\ FFFDFF857\\ FFFDF7585\\ FFFDF757\\ FFFDF7585\\ FFF057585\\ FFF057585\\ FFF057585\\ FFF057585\\ FFF057585\\ FFF057585\\ FFF057585\\ FF5057585\\ FF5057585$	$\begin{array}{l} \texttt{EFEFFFEF7}\\ \texttt{FEFFFF7}\\ \texttt{FFEFFF7}\\ \texttt{FEFFFF7}\\ \texttt{FEFFFF7}\\ \texttt{FFFFFF77}\\ \texttt{FFFFFF77}\\ \texttt{FFFFFF77}\\ \texttt{FFFFF777}\\ \texttt{FFFFFF777}\\ \texttt{FFFFFF777}\\ \texttt{FFFFFF777}\\ \texttt{FFFFFF777}\\ \texttt{FFFFFF777}\\ \texttt{FFFFFF777}\\ \texttt{FFFFF7777}\\ \texttt{FFFFF7777}\\ \texttt{FFFFF77777}\\ FFFFF77777777777777777777777777777777$	EFEDFFFF7 FFEDFFF77 FFFFFFF73 FFFFFEF53 FFFFFEF53 FFFFFF577 FFDDFFF775 FFDFFF753 FFFFFF753 FFFFF757 FFFFF5587 FFFFF5827	$\begin{array}{l} \hline & \mbox{FFDFFEFF7} \\ \hline & \mbox{FFDFFEFF3} \\ \hline & \mbox{FFDFFEFF3} \\ \hline & \mbox{FFDFFFFF77} \\ \hline & \mbox{FFDFFFF77} \\ \hline & \mbox{FFDFFF77} \\ \hline & \mbox{FFDFFFF77} \\ \hline & \mbox{FFDFFFF877} \\ \hline & \mbox{FFDFFFF877} \\ \hline & \mbox{FFDFFFF877} \\ \hline & \mbox{FFDFFFF877} \\ \hline & \mbox{FFDFFF787} \\ \hline & \mbox{FFDFFF7877} \\ \hline \hline & \mbox{FFDFFF7877} \\ \hline \end{array}$
$\begin{array}{c} FFEFFFEF7\\ FFEFBFF7\\ FFFDFFFE3\\ FFFFDFFF53\\ FFFFDFFF7\\ FFEDFFF7F7\\ FFEFFF7F7\\ FFFFFF7F7\\ FFFFFE3F7\\ FFFFFE3F7\\ FFFFFE3F7\\ FFFFFE3F7\\ FFFFFE3F7\\ FFFFFE3F7\\ FFFFFE3F7\\ FFFFFDF3F7\\ FFFFFD5F7\\ FFFFFF5\\ FFFFFD5F7\\ FFFFFD5F7\\ FFFFFD5F7\\ FFFFFD5F7\\ FFFFFD5F7\\ FFFFFD5F7\\ FFFFF5\\ FFFF5\\ FFFFF5\\ FFFF5\\ FFFF5\\ FFFF5\\ FFFF5\\ FFFF5\\ FFFF5\\ FFF5\\ FFFF5\\ FFF5\\ FFF5\\ FFF5\\ FFF5\\ FFF5\\ FFF5\\ FF5\\ FFF5\\ FF5\\ FF5\\$	$\begin{array}{l} DFFFDFEFF\\ FFEDFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF$	FFFDFFEBF7 6FFDFFFFF7 FFDDFFFF7 FFDDFFFFF7 FFDFFFFF7 FFCFFFFF77 FFCFFFF777 FFCFFF777 FFFDFFF777 FFFDFFF3F7 FFFDFFF3F7 FFFDFFF857	$\begin{array}{l} \texttt{EFEFFEF7}\\ \texttt{FEFFFF7}\\ \texttt{FFEFFF7}\\ \texttt{FFFFFF7}\\ \texttt{FFFFFF7}\\ \texttt{FFFFFF7}\\ \texttt{FFFFFF77}\\ \texttt{FFFFFF77}\\ \texttt{FFFFF777}\\ \texttt{FFFFF777}\\ \texttt{FFFFF777}\\ \texttt{FFFFF777}\\ \texttt{FFFFF777}\\ \texttt{FFFFF777}\\ \texttt{FFFFF777}\\ \texttt{FFFFF577}\\ \texttt{FFFFF5777}\\ \texttt{FFFFF5777}\\ \texttt{FFFFF5757}\\ \texttt{FFFFF5757}\\ \texttt{FFFFF55777}\\ \texttt{FFFFF55777}\\ \texttt{FFFFF557777}\\ \texttt{FFFFF557777}\\ \texttt{FFFFF557777}\\ \texttt{FFFFF557777}\\ \texttt{FFFFF5577777}\\ \texttt{FFFFF5577777}\\ \texttt{FFFFF55777777}\\ FFFF5577777777777777777777777777777777$	EFEDFFFF7 FFEDFFF77 FFCFFFF73 FFFFFEF83 FFFFFEF83 FFFFFEF83 FFFFFF77 FFFFF773 FFFFF777 FFFFF777 FFFFF777 FFFFF778 FFDFF777 FFFFF778 FFDFF787	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$

Table 11. IV terms of degree 43 in z_{257} -part 3

FEEFFFEFF7	F6FDFFFF7	F7EDFFFFF7	FEEDFFFF7	F7FDFFEFF7	FEFDFFEFF7
F6BFFFFF7	F7BFFFEFF7	FEBFFFEFF7	F7BDFFFFF7	FEBDFFFFF7	FFAFFFFBF7
FFBFFFEBF7	FFBDFFFBF7	F6FFFFBF7	F7EFFFFBF7	FEEFFFFBF7	F7FFFFEBF7
FEFFFFEBF7	F7FDFFFBF7	FEFDFFFBF7	F7BFFFFBF7	FEBFFFFBF7	FFAFFFF7F7
FFBFFFE7F7	FFBDFFF7F7	F6FFFFF7F7	F7EFFFF7F7	FEEFFFF7F7	F7FFFFE7F7
FEFFFFE7F7	F7FDFFF7F7	FEFDFFF7F7	F7BFFFF7F7	FEBFFFF7F7	FF9FFFFF3
FFBFFDFFF3	FFAFFFFF3	FFBFFFEFF3	FFBFFFFE3	FFBDFFFFF3	FFAFFFFE7
FF9FFDFFF7	FF8FFFFF7	FFAFFDFFF7	FFBFFFEFE7	FF9FFFEFF7	FFBFFDEFF7
FFBDFFFFE7	FF9FFFFE7	FFBFFDFFE7	FF9DFFFFF7	FFBDFDFFF7	F7DFFFFF3
FEDFFFFF3	F6FFFFFF3	F7FFFDFFF3	FEFFFDFFF3	F7EFFFFF3	FEEFFFFF3
F7FFFFFFF3	FEFFFFFFF3	F7FFFFFE3	FEFFFFFE3	F7FDFFFFF3	FEFDFFFF3
F7BFFFFF3	FEBFFFFF3	F6FFFFFE7	F7EFFFFF7	FEEFFFFFE7	F6DFFFFF7
F6FFFDFFF7	F7DFFDFFF7	FEDFFDFFF7	F7CFFFFF7	FECFFFFF7	F7EFFDFFF7
FEEFFDFFF7	F7FFFFEFE7	FEFFFFEFE7	F7DFFFEFF7	FEDFFFEFF7	F7FFFDEFF7
FEFFFDEFF7	F7FDFFFFE7	FEFDFFFFE7	F7DFFFFFE7	FEDFFFFFE7	F7FFFDFFE7
FEFFFDFFE7	F7DDFFFFF7	FEDDFFFFF7	F7FDFDFFF7	FEFDFDFFF7	F7BFFFFE7
FEBFFFFFE7	F79FFFFF7	FE9FFFFF7	F7BFFDFFF7	FEBFFDFFF7	FFBFFFF7F3
FFBFFFF7E7	FF9FFFF7F7	FFBFFDF7F7	F7FFFFF7F3	FEFFFFF7F3	F7FFFFF7E7
FEFFFFF7E7	F7DFFFF7F7	FEDFFFF7F7	F7FFFDF7F7	FEFFFDF7F7	FFBFFFF3F7
F7FFFFF3F7	FEFFFFF3F7	FFBFFFFBF3	FFBFFFFBE7	FF9FFFFBF7	FFBFFDFBF7
F7FFFFBF3	FEFFFFFBF3	F7FFFFFBE7	FEFFFFFBE7	F7DFFFFBF7	FEDFFFFBF7
F7FFFDFBF7	FEFFFDFBF7	FFEFBFFBF7	FFFFBFEBF7	FFFDBFFBF7	5FEFFFFF7
5FFFFFEFF7	5FFDFFFF7	DFEFFFFBF7	DFFFFFEBF7	DFFDFFFBF7	CFEFFFFF7
CFFFFFFFF7	CFFDFFFF7	4FFFFFFF7	FFEFBFF7F7	FFFFBFE7F7	FFFDBFF7F7
DFEFFFF7F7	DFFFFFE7F7	DFFDFFF7F7	FFDFBFFFF3	FFFFBDFFF3	FFEFBFFFF3
FFFFBFEFF3	FFFFBFFFE3	FFFDBFFFF3	FFEFBFFFE7	FFDFBDFFF7	FFCFBFFFF7
FFEFBDFFF7	FFFFBFEFE7	FFDFBFEFF7	FFFFBDEFF7	FFFDBFFFE7	FFDFBFFFE7
FFFFBDFFE7	FFDDBFFFF7	FFFDBDFFF7	DFEFBFFFF7	DFFFBFEFF7	DFFDBFFFF7
DFDFFFFF3	DFFFFDFFF3	DFEFFFFF3	DFFFFFEFF3	DFFFFFFE3	DFFDFFFF3
DFEFFFFFE7	DFDFFDFFF7	DFCFFFFF7	DFEFFDFFF7	DFFFFFEFE7	DFDFFFEFF7
DFFFFDEFF7	DFFDFFFFE7	DFDFFFFFE7	DFFFFDFFE7	DFDDFFFFF7	DFFDFDFFF7
DFFFBFFFF3	DFFFBFFFE7	DFDFBFFFF7	DFFFBDFFF7	FFFFBFF7F3	FFFFBFF7E7
FFDFBFF7F7	FFFFBDF7F7	DFFFBFF7F7	DFFFFFF7F3	DFFFFFF7E7	DFDFFFF7F7
DFFFFDF7F7	FFFFBFF3F7	DFFFFFF3F7	FFFFBFFBF3	FFFFBFFBE7	FFDFBFFBF7
FFFFBDFBF7	DFFFBFFBF7	DFFFFFBF3	DFFFFFBE7	DFDFFFFBF7	DFFFFDFBF7
DFFFFFFDF6	FFAFBFFFF7	FFBFBFEFF7	FFBDBFFFF7	F6FFBFFFF7	F7EFBFFFF7
FEEFBFFFF7	F7FFBFEFF7	FEFFBFEFF7	F7FDBFFFF7	FEFDBFFFF7	F7BFBFFFF7
FEBFBFFFF7	DFAFFFFF7	DFBFFFEFF7	DFBDFFFFF7	D6FFFFFF7	D7EFFFFF7
DEEFFFFF7 DEBFFFFFF7	D7FFFFEFF7 FFBFBFFBF7	DEFFFFEFF7 F7FFBFFBF7	D7FDFFFF7 FEFFBFFBF7	DEFDFFFF7	D7BFFFFF7
	FFBFBFF7F7			DFBFFFFBF7	D7FFFFFBF7
DEFFFFFBF7 DEFFFFF7F7	FFBFBFFFF3	F7FFBFF7F7 FFBFBFFFE7	FEFFBFF7F7 FF9FBFFFF7	DFBFFFF7F7 FFBFBDFFF7	D7FFFFF7F7 F7FFBFFFF3
FEFFBFFFF3	F7FFBFFFFF7	FFBFBFFE7 FEFFBFFFE7	F7DFBFFFF7	FFBFBDFFF7 FEDFBFFFF7	F7FFBDFFF7
FEFFBDFFF7	DFBFBFFFF7	D7FFBFFFF7	DEFFBFFFF7	DFBFFFFF3	DFBFFFFFF7
DF9FFFFF7	DFBFFDFFF7	D7FFFFFFF3	DEFFFFFF7	D7FFFFFFFF	DEFFFFFE7
D7DFFFFFF7	DEDFFFFF7	D7FFFDFFF7	DEFFFDFFF7	FDEFFFEFF7	FDEDFFFFF7
FDFDFFEFF7	FFEFFFCFF7	FFEDFFDFF7	FFFDFFCFF7	FFEFFFEFD7	FFEDFFFFD7
	FFEFF7EFF7	FFEDF7FFF7	FFFDF7EFF7	DDEFFFFF7	DDFFFFEFF7
	DFEFFFDFF7	DFFFFFCFF7	DFFDFFDFF7	DFEFFFFFD7	DFFFFFEFD7
DFFDFFFFD7	DFEFF7FFF7	DFFFF7EFF7	DFFDF7FFF7	FDEFFFFDF7	FDFFFFEDF7
FDFDFFFDF7	FFEFFFDDF7	FFFFFFCDF7	FFFDFFDDF7	FFEFFFFDD7	FFFFFFEDD7
FFFDFFFDD7	FFEFF7FDF7	FFFFF7EDF7	FFFDF7FDF7	DDFFFFFDF7	DFFFFFDDF7
DFFFFFFDD7	DFFFF7FDF7	FBFFDFFFE7	FBFFDFFFF3	FBEFDFFFF7	FBFFDFEFF7
FBFDDFFFF7	FBDFDFFFF7	FBFFDDFFF7	FBFFDFF7F7	7BFFDFFFF7	FBFFDFFBF7
EBFFDFFFF7	FBBFDFFFF7	F3FFDFFFF7	FAFFDFFFF7	FBFF9FFFF7	DBFFDFFFF7
FFFFDFEBF7	FFFDDFFBF7	FFFFDFE7F7	FFFDDFF7F7	FFFF9FEFF7	FFFD9FFFF7
FFDFDFFFF3	FFFFDDFFF3	FFFFDFEFF3	FFFFDFFE3	FFFDDFFFF3	FFDFDDFFF7
FFFFDFEFE7	FFDFDFEFF7	FFFFDDEFF7	FFFDDFFFE7	FFDFDFFFE7	FFFFDDFFE7
FFDDDFFFF7	FFFDDDFFF7	FFFFDFF7F3	FFFFDFF7E7	FFDFDFF7F7	FFFFDDF7F7
FFFFDFF3F7	FFFFDFFBF3	FFFFDFFBE7	FFDFDFFBF7	FFFFDDFBF7	FFBFDFEFF7
FFBDDFFFF7	F6FFDFFFF7	F7FFDFEFF7	FEFFDFEFF7	F7FDDFFFF7	FEFDDFFFF7
F7BFDFFFF7	FEBFDFFFF7	FFBFDFFBF7	F7FFDFFBF7	FEFFDFFBF7	FFBFDFF7F7
F7FFDFF7F7	FEFFDFF7F7	FFBFDFFFF3	FFBFDFFFE7	FF9FDFFFF7	FFBFDDFFF7
	FEFFDFFF3	F7FFDFFFE7	FEFFDFFFE7	F7DFDFFFF7	FEDFDFFFF7
F7FFDFFFF3			DFFFDFFBF7	FFFF9FF7F7	DFFFDFF7F7
F7FFDFFFF3 F7FFDDFFF7	FEFFDDFFF7	FFFF9FFBF7			
	FEFFDDFFF7 FFFF9FFFE7	FFFF9FFBF7 FFDF9FFFF7	FFFF9DFFF7	DFFF9FFF7	DFFFDFFFF3
F7FFDDFFF7			FFFF9DFFF7 FFBF9FFFF7	DFFF9FFF7 F7FF9FFFF7	DFFFDFFF3 FEFF9FFFF7
F7FFDDFFF7 FFFF9FFFF3	FFFF9FFFE7	FFDF9FFFF7			
F7FFDDFFF7 FFFF9FFFF3 DFFFDFFFE7	FFFF9FFFE7 DFDFDFFFF7	FFDF9FFFF7 DFFFDDFFF7	FFBF9FFFF7	F7FF9FFFF7	FEFF9FFF7
F7FFDDFFF7 FFF9FFFF3 DFFFDFFFE7 DFBFDFFFF7	FFFF9FFFF7 DFDFDFFFF7 D7FFDFFFF7	FFDF9FFFF7 DFFFDDFFF7 DEFFDFFFF7	FFBF9FFFF7 7BEFFFFFF7	F7FF9FFFF7 7BFFFFEFF7	FEFF9FFFF7 7BFDFFFFF7
F7FFDDFFF7 FFFF9FFFF3 DFFFDFFFE7 DFBFDFFFF7 FBEFFFFBF7	FFFF9FFFE7 DFDFDFFFF7 D7FFDFFFF7 FBFFFFEBF7	FFDF9FFFF7 DFFFDDFFF7 DEFFDFFFF7 FBFDFFFBF7	FFBF9FFFF7 7BEFFFFFF7 7BFFFFFBF7	F7FF9FFFF7 7BFFFFEFF7 EBEFFFFFF7	FEFF9FFFF7 7BFDFFFFF7 EBFFFFEFF7

Table 12. IV terms of degree 43 in z_{257} -part 4

FBEFFDFFF7	FBFFFFEFE7	FBDFFFEFF7	FBFFFDEFF7	FBFDFFFFE7	FBDFFFFFE7
FBFFFDFFE7	FBDDFFFFF7	FBFDFDFFF7	FBFFFFF7F3	FBFFFFF7E7	FBDFFFF7F7
FBFFFDF7F7	7BFFFFF7F7	FBFFFFF3F7	EBFFFFF7F7	7BFFFFFF3	7BFFFFFFF7
7BDFFFFF7	7BFFFDFFF7	FBFFFFFBF3	FBFFFFFBE7	FBDFFFFBF7	FBFFFDFBF7
EBFFFFFF3	EBFFFFFFE7	EBDFFFFF7	EBFFFDFFF7	FBFFFFFDF6	FBAFFFFF7
FBBFFFEFF7	FBBDFFFFF7	F2FFFFFF7	F3EFFFFF7	FAEFFFFF7	F3FFFFEFF7
FAFFFFFF7	F3FDFFFFF7	FAFDFFFFF7	F3BFFFFFF7	FABFFFFF7	7BBFFFFFF7
73FFFFFF7	7AFFFFFF7	FBBFFFFBF7	F3FFFFFBF7	FAFFFFFBF7	EBBFFFFFF7
E3FFFFFF7	EAFFFFFF7	FBBFFFF7F7	F3FFFFF7F7	FAFFFFF7F7	FBBFFFFF3
FBBFFFFFE7	FB9FFFFF7	FBBFFDFFF7	F3FFFFFFF3	FAFFFFFF3	F3FFFFFFE7
FAFFFFFFF7	F3DFFFFFF7	FADFFFFF7	F3FFFDFFF7	FAFFFDFFF7	7BFFBFFFF7
FBFFBFFBF7	EBFFBFFFF7	5BFFFFFF7	DBFFFFFBF7	CBFFFFFF7	FBFFBFF7F7
DBFFFFF7F7	FBFFBFFFF3	FBFFBFFFE7	FBDFBFFFF7	FBFFBDFFF7	DBFFBFFFF7
DBFFFFFF3	DBFFFFFFE7	DBDFFFFFF7	DBFFFDFFF7	FBBFBFFFF7	F3FFBFFFF7
FAFFBFFF7	DBBFFFFF7	D3FFFFFF7	DAFFFFFF7	F9EFFFFF7	F9FFFFFF7
F9FDFFFFF7	FBEFFFDFF7	FBFFFFCFF7	FBFDFFDFF7 FBFDF7FFF7	FBEFFFFD7	FBFFFFEFD7
FBFDFFFFD7	FBEFF7FFF7	FBFFF7EFF7		D9FFFFFF7	DBFFFFDFF7
DBFFFFFFD7 79FFFFFFF7	DBFFF7FF7 7BFFFFDFF7	F9FFDFFFF7 7BFFFFFFD7	FBFFDFDFF7 7BFFF7FFF7	FBFFDFFFD7 F9FFFFFBF7	FBFFD7FFF7 FBFFFFDBF7
FBFFFFFBD7	FBFFF7FBF7	E9FFFFFFF7	EBFFFFDFF7	EBFFFFFFD7	EBFFF7FFF7
F9FFFFF7F7	FBFFFFD7F7	FBFFFFF7D7	FBFFF7F7F7	F9FFBFFFF7	FBFFBFDFF7
FBFFBFFFD7	FBFFB7FFF7	F9FFFFFFF	F9FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	F9DFFFFFF7	F9FFFDFFF7
FBFFFFDFF3	FBFFFFFFD3	FBFFFFDFE7	FBDFFFDFF7	FBFFFDDFF7	FBFFFFFFC7
FBDFFFFFD7	FBFFFDFFD7	FBFFF7FFF3	FBFFF7FFE7	FBDFF7FFF7	FBFFF5FFF7
F9FFFFFDF7	FBFFFFDDF7	FBFFFFFDD7	FBFFF7FDF7	FBBFFFDFF7	FBBFFFFFD7
F9BFFFFF7	F1FFFFFF7	F8FFFFFF7	F3FFFFDFF7	FAFFFFDFF7	F9FFFFDFF7
FBFFFFDFD7	F9FFFFFD7	F3FFFFFFD7	FAFFFFFD7	FBBFF7FFF7	F3FFF7FFF7
FAFFF7FFF7	F9FFF7FFF7	FBFFF7DFF7	FBFFF7FFD7	FDEFDFFF7	FDFFDFEFF7
FDFDDFFFF7	DDFFDFFF7	FDFFDFFBF7	FDFFDFF7F7	FDFF9FFF7	FDFFDFFF3
FDFFDFFE7	FDDFDFFFF7	FDFFDDFFF7	FDBFDFFFF7	F5FFDFFFF7	FCFFDFFFF7
FDEFFFFBF7	FDFFFFEBF7	FDFDFFFBF7	FDEFFFF7F7	FDFFFFE7F7	FDFDFFF7F7
FDEFBFFFF7	FDFFBFEFF7	FDFDBFFFF7	FDDFFFFF3	FDFFFDFFF3	FDEFFFFF3
FDFFFFFF3	FDFFFFFE3	FDFDFFFFF3	FDEFFFFF7	FDDFFDFFF7	FDCFFFFF7
FDEFFDFFF7	FDFFFFEFE7	FDDFFFEFF7	FDFFFDEFF7	FDFDFFFFE7	FDDFFFFFE7
FDFFFDFFE7	FDDDFFFFF7	FDFDFDFFF7	FDFFFFF7F3	FDFFFFF7E7	FDDFFFF7F7
FDFFFDF7F7 FDAFFFFFF7	FDFFFFF3F7	FDFFFFFBF3 FDBDFFFFF7	FDFFFFFBE7 F4FFFFFFF7	FDDFFFFBF7 F5EFFFFFF7	FDFFFDFBF7 FCEFFFFFF7
F5FFFFFFF7	FDBFFFEFF7 FCFFFFEFF7	FDBDFFFFF7 F5FDFFFFF7	F4FFFFFF7 FCFDFFFFF7	F5BFFFFF7	FCEFFFFF7 FCBFFFFFF7
FDBFFFFBF7			FDBFFFF7F7	F5FFFFF7F7	
FDBFFFFBF7 FDBFFFFFF3	F5FFFFFBF7	FCFFFFFBF7	FDBFFFF7F7 FDBFFDFFF7	F5FFFFF7F7 F5FFFFFF7F7	FCFFFFF7F7
FDBFFFFF3	F5FFFFFBF7 FDBFFFFFFF7	FCFFFFFBF7 FD9FFFFFF7	FDBFFDFFF7	F5FFFFFF3	FCFFFFF7F7 FCFFFFFFF3
FDBFFFFFF3 F5FFFFFFF7	F5FFFFFBF7 FDBFFFFFFFF7 FCFFFFFFFF7	FCFFFFFBF7 FD9FFFFFF7 F5DFFFFFF7	FDBFFDFFF7 FCDFFFFFF7		FCFFFFF7F7 FCFFFFFFF3 FCFFFDFFF7
FDBFFFFFF3 F5FFFFFFF7 FDFFBFFBF7	F5FFFFBF7 FDBFFFFFF7 FCFFFFFFF7 DDFFFFFFF7	FCFFFFFBF7 FD9FFFFFF7	FDBFFDFFF7 FCDFFFFFF7 DDFFFFF7F7	F5FFFFFFF3 F5FFFDFFF7 FDFFBFFFF3	FCFFFFF7F7 FCFFFFFFF3 FCFFFDFFF7 FDFFBFFFE7
FDBFFFFF3 F5FFFFFF7 FDFFBFFBF7 FDDFBFFFF7	F5FFFFFBF7 FDBFFFFFFFF7 FCFFFFFFFF7	FCFFFFFBF7 FD9FFFFFF7 F5DFFFFFF7 FDFFBFF7F7	FDBFFDFFF7 FCDFFFFFF7	F5FFFFFF7 F5FFFDFFF7 FDFFBFFFF3 DDFFFFFFF7	FCFFFFF7F7 FCFFFFFFF3 FCFFFDFFF7
FDBFFFFFF3 F5FFFFFFF7 FDFFBFFBF7	F5FFFFBF7 FDBFFFFFF7 FCFFFFFF7 DDFFFFFBF7 FDFFBDFFF7 FDBFBFFFF7	FCFFFFBF7 FD9FFFFFF7 F5DFFFFF7 FDFFBFF7F7 DDFFBFFFF7	FDBFFDFFF7 FCDFFFFFF7 DDFFFFF77 DDFFFFFF73 FCFFBFFFF77	F5FFFFFFF3 F5FFFDFFF7 FDFFBFFFF3	FCFFFFF77 FCFFFFFF73 FCFFFDFFF7 FDFFBFFFF7 DDDFFFFF77
FDBFFFFF3 F5FFFFFF7 FDFFBFFBF7 FDDFBFFFF7 DDFFFDFFF7	F5FFFFFBF7 FDBFFFFFF7 FCFFFFFFF7 DDFFFFFFFF7 FDFFBDFFF7	FCFFFFFBF7 FD9FFFFF77 F5DFFFFF77 FDFFBFF7F77 DDFFBFFFF77 F5FFBFFFF7	FDBFFDFFF7 FCDFFFFFF7 DDFFFFFF77 DDFFFFFF73	F5FFFFFFF3 F5FFFDFFF7 FDFFBFFFF53 DDFFFFFFF7 DDBFFFFFF7	FCFFFFF7F7 FCFFFFFF73 FCFFFDFFF7 FDFFBFFFF7 DDDFFFFFF7 D5FFFFFF7
FDBFFFFF3 F5FFFFFF7 FDFFBFFBF7 FDDFBFFFF7 DDFFFDFFF7 DCFFFFFF77	F5FFFFFFF7 FDBFFFFFF7 DDFFFFFF7 DDFFFFFFF7 FDFFBDFFF7 FDBFBFFF7 FFFFDFFDF6	FCFFFFFBF7 FD9FFFFF7 FDFFFFF7 DDFFBFFF77 DDFFBFFF77 75FFBFFF77 7FEFDFFF77	FDBFFDFFF7 FCDFFFFF777 DDFFFFF777 DDFFFFFF73 FCFFBFFFF7 7FFFDFEFF7	F5FFFFFF7 F5FFFDFFF7 FDFFBFFFF3 DDFFFFFFF7 DDBFFFFFF7 7FFDDFFFF7	FCFFFFF777 FCFFFFF73 FCFFFDFF77 FDFFBFFF77 DDDFFFFF77 D5FFFFF77 FFFFF77 FFFFDFDF77
FDBFFFFF3 F5FFFFFF7 FDFBFFFF7 DDFFFFFF7 DDFFFDFFF7 FFFFFF7 FFFDFCFF7 FFFDFFF7 FFFF7F7	F5FFFFBF7 FDFFFFFFF7 FDFFFFFFF7 FDFFBDFF7 FDFFBF77 FFFFDF57 FFFDF57 FFFFDFF77 FFFFD7FF77 FFFF77	$\begin{array}{c} {\rm FCFFFFBF7} \\ {\rm FD9FFFFF7} \\ {\rm F5DFFFF77} \\ {\rm FDFFBFFF77} \\ {\rm FDFFBFFF77} \\ {\rm F5FFBFFF77} \\ {\rm FFEFDFFF77} \\ {\rm FFEFDFFF77} \\ {\rm FFEFDFFF77} \\ {\rm FFFFD7FFF77} \\ {\rm FFFFD7FFF77} \\ \end{array}$	FDBFFDFFF7 FCDFFFFF77 DDFFFFF77 FCFFBFFFF77 FFFDFEF77 FFFDFEF77 FFFDFEF77 5FFFDFFF77	F5FFFFFF3 F5FFFDFFF7 FDFFFFF7 DDFFFFFF7 DDFFFFFF7 FFFDDFFFF7 FFFDDFFF77 EFFDDFFFF7 DFFFD7 DFFFDFFF7	FCFFFFF77 FCFFFFF7 FCFFFDFFF7 DDDFFFFF7 D5FFFFF7 FFEFDFDFF7 BFEFDFFF7 GFFFDFFF77 DFFFD7
FDBFFFFF3 F5FFFFF7 FDFFBFF7 DDFFFFFF7 DCFFFFFF7 FFFFFFF7 FFFFFFF7 FFFFFF7 FFFFFF	$F5FFFFBF7\\FDBFFFFFF7\\FDFFFFFF77\\FDFFBDFF77\\FDBFBF7FFF77\\FDF70F777\\FFF70F777\\FFF70F777\\FFF70FF77\\FFFF77\\FFF77\\FFF77\\FFF77\\FFF77\\FF777\\FF777\\FF777\\F777$ F777F777F777F777F777F777F777F777F777F777F7777F777F777F777F777F777F7777F777F7777F7777F77777F7777F7777F777777	$\begin{array}{c} \text{FCFFFFBF7}\\ \text{FDFFFF7}\\ \text{FDFFFF7}\\ \text{FDFFBFF77}\\ \text{FDFFBFF77}\\ \text{FFFFF7}\\ \text{FFFDFFF7}\\ \text{FFFDFFF77}\\ \text{FFFDFFF77}\\ \text{FFFD07FFF7}\\ \text{FFFD07FF77}\\ \end{array}$	FDBFFDFFF7 FCDFFFFF77 DDFFFFF77 DDFFFFF77 FCFFBFFF77 7FFFDFEF77 FFFFDFEF77 5FFFDFEF77 7FFFDFFF77 7FFFDFFF77	F5FFFFFF3 F5FFFDFFF7 DDFFFFFF7 DDFFFFFF7 7FFDDFFFF7 FFFDDFFF7 EFFDDFFF7 DFFFDFDFF7 FFFFDFDFF7 FFFFDFDFF7	FCFFFF77 FCFFFFF7 FCFFFFFF7 DDFFFFF7 D5FFFFF7 FFFFDFFF7 BFEFDFFF7 BFEFDFFF7 DFFFDFFF7 DFFFDFFF7 FFFDFFFD7
FDBFFFFF3 F5FFFFF7 FDFBFFBF7 DDFFFDFF77 DCFFFFFF7 FFFFDFCFF7 FFFFDFCFF7 3FFFDFFF7 3FFFDFFF7	F5FFFFBF7 FDBFFFFF7 DDFFFFFF7 FDFFBDFFF7 FDFFBFFF7 FFFDFDFFF7 FFFDFFF7 FFFFD7EFF7 CFFFDFFF7 BFFFDFFF7	FCFFFFBF7 FD9FFFF7 FDFFFFF7 DDFFBFF7F7 FDFFFF7 F5FFBFFF7 FFEFDFFF7 FFEFDFFF7 FFFD07FFF7 DFFFD7FFF7 DFFF07FFF7	FDBFFDFFF7 FCDFFFFF77 DDFFFFF777 DDFFFFF777 7FFFDFEF77 7FFFDFEF77 FFFFDFEF77 5FFFDFEF77 5FFFDFFF77 AFFFDFFF77	$\begin{array}{c} F5FFFFF7\\ F5FFFDFF7\\ DDFFFFF7\\ DDFFFFF7\\ TFDDFFF77\\ FFDDFFF77\\ FFFDDFFF77\\ EFFDDFFF77\\ FFFFDFF77\\ FFFFDFDFF77\\ FFFFDFDF77\\ FFFFD7FBF7\\ FFFFD7FBF7\end{array}$	FCFFFF7F7 FCFFFDFF7 FDFFBFFF7 DDDFFFFFF7 D5FFFFFF7 FFEFDFFF7 BFEFDFFF7 GFFFDFFF7 FFFDFFF7 FFFFDFFBD7 FFFFFF77
FDBFFFFFF F5FFFFFFF FDFFBFFFF DDFFFFFF DDFFFFFF DCFFFFFFF BFFFDFFFF BFFFDFFFF FFFFDFFFF FFFFDFFFF 3FFFDFFFF7 FFFFDFFF7	$\begin{array}{c} F5FFFFBF7\\ FDBFFFFFF7\\ DDFFFFFF7\\ DDFFFFF7\\ FDFFBFF77\\ FFFDFF0FF77\\ FFFFDFF77\\ FFFFDFF77\\ FFFFD7EFF77\\ FFFFD7EFF77\\ BFFFDFFF77\\ BFFFDFFF77\\ FFFFDFF777\\ \end{array}$	$\begin{array}{c} FCFFFFFF7\\ FD9FFFF7\\ FDFFFF7\\ FDFFFFF7\\ FDFFFFF7\\ FFFFF7\\ FFFFF7\\ FFFDFFF7\\ FFFD7FF7\\ FFFD7FF7\\ FFFD7FF7\\ FFFD7FF7\\ FFFDFF77\\ FFFFF77\\ FFFFF77\\ FFFFF77\\ FFFFF77\\ FFFFF77\\ FFFF77\\ FFFF77\\ FFF77\\ FFF77\\ FFF77\\ FFF77\\ FFF77\\ FF77\\ FF77\\$	FDBFFDFF7 FCDFFFFF7F7 DDFFFFF7F7 DDFFFFF7F7 FCFFBFFF7 FFFDFEFF7 FFFDFEFF7 EFFFDFEFF7 FFFDFFF77 AFFFDFFF77 AFFFDFF777	$\begin{array}{l} \texttt{F5FFFFF5}\\ \texttt{F5FFFF7}\\ \texttt{F5FFFF7}\\ \texttt{DDFFFFF7}\\ \texttt{DDFFFFF7}\\ \texttt{DDFFFFF7}\\ \texttt{FFDDFFF7}\\ \texttt{FFFDDFFF7}\\ \texttt{EFFDDFFF7}\\ \texttt{DFFFDFDFF7}\\ \texttt{FFFD7BF7}\\ \texttt{FFFD7BF7}\\ \texttt{FFFFD7FF7}\\ \end{array}$	FCFFFF777 FCFFFDFF77 FDFFBFFF7 DDDFFFFF77 FFFF77 FFFDFFF77 FFFDFFF77 FFFDFFB07 FFFF777 FFFF9FDFF777
FDBFFFFF3 F5FFBFFF7 FDFFBFFFF7 DDFFFDFFF7 DCFFFFFF7 FFFFDFFF7 FFFFDFFF7 9FFFDFFF7 3FFFDFFF7 FFFFDFFF7 FFFFDFFF7 FFFFDF77	$\begin{array}{l} \textbf{F5FFFFBF}\\ \textbf{FDBFFFFF}\\ \textbf{FCFFFFFF}\\ \textbf{DFFFFFF}\\ \textbf{DFFBDFFF}\\ \textbf{FFDFFFFF}\\ \textbf{FFFDFFFF}\\ \textbf{FFFDDFFF7}\\ \textbf{BFFDDFFF7}\\ \textbf{BFFDFFFF7}\\ \textbf{FFFDFFFF7}\\ \textbf{FFFDFFFF7}\\ \textbf{FFFDFFF77}\\ \textbf{FFFDFFF77}\\ \textbf{FFFFDFFF77}\\ \textbf{FFFFFF77}\\ \textbf{FFFFF777}\\ \textbf{FFFFF777}\\ \textbf{FFFFF777}\\ \textbf{FFFFF7777}\\ \textbf{FFFFF7777}\\ \textbf{FFFF7777}\\ \textbf{FFFF77777}\\ \textbf{FFFF77777777}\\ FFFF777777777777777777777777777777777$	FCFFFFBF7 FD9FFFF7 FDFFFF7 FDFFBFF7F7 DFFBFFF7 F5FFBFFF7 FFFDFFF77 EFFFDFFF77 EFFFDFFF77 BFFFDFFF77 BFFFDFF777	FDBFFDFFF7 FCDFFFFF7F7 DDFFFFF7F7 DDFFFFF7F7 FFFDFEFF7 FFFDFEFF7 FFFDFEFF7 7FFFDFFF77 7FFFDFFFF7 FFFDFFF77 7FFFDFFF77 7FFFDFFF78	$\begin{array}{c} F5FFFFF7\\ F5FFF0FF7\\ DDFFFFF7\\ DDFFFFF7\\ DDFFFF77\\ FFDDFFF77\\ FFFDDFFF77\\ FFFDDFFF77\\ FFFF0F0FF77\\ FFFF0FF77\\ 7FFF0FFF77\\ 7FFF0FFF77\\ \end{array}$	FCFFFFF7F7 FCFFFDFFF7 FCFFFDFFF7 DDFFFFFF7 D5FFFFFF7 FFEFDFFF7 6FFFDFFF77 GFFFDFFF77 FFFFDFFFD77F7 FFFFDFFF77 FFFF9FDFF777 FFFF9FDFF777
FDBFFFFFF F5FFFFFFF FDDFBFFFFF DDFBFFFFF DDFFFFFFF FFFFDFFFF FFFFDFFFF FFFDFFFF FFFFDFFFF FFFFDFFFF FFFFDFFFF FFFF9FFFFD FFFF9FFFF	F5FFFFB7 FDBFFFFF7 DDFFFFF7 FDFFBDFFF7 FDFFBDFFF7 FFFDFDFF77 FFFFDFF77 FFFFDFFF7 FFFFDFFF7 FFFFDFF77 FFFFDFF77 FFFFFF7	FCFFFFBF7 FD9FFFF7 FDFFFFF7 DDFFBFF77 FDFFFF77 FFFDFFF77 FFFDDFFF77 FFFDD7FFF7 DFFFDFFF	PDBFFDFFF7 FCDFFFFF77 DDFFFFF777 DDFFFFF777 DDFFFFFFF77 FFFDFEFF7 FFFDFEFF7 FFFDFEFF7 5FFDFFF77 5FFFDFFF77 FFFDFFF77 FFFDFFF73 FFFFDFFF73 FFFFDFFF73	$\begin{array}{c} \texttt{F5FFFFF5}\\ \texttt{F5FFFFF7}\\ \texttt{F0FFBFFF7}\\ \texttt{DDFFFFF7}\\ \texttt{DDFFFFF7}\\ \texttt{DDFFFF77}\\ \texttt{FFDDFFF77}\\ \texttt{FFFDDFFF77}\\ \texttt{DFFFDFDFF77}\\ \texttt{DFFFDFDFF77}\\ \texttt{FFFFD7BF7}\\ \texttt{FFFF0FBF77}\\ \texttt{FFFF0FFF77}\\ \texttt{FFFF0FFF77}\\ \texttt{FFFF0FFF77}\\ \texttt{FFFDFFF77}\\ \texttt{FFFDFFF77}\\ \texttt{FFFDFFF77}\\ \texttt{FFFDFFF77}\\ \texttt{FFFDFFF77}\\ \texttt{FFDFFDFF77}\\ \texttt{FDFFDFF77}\\ \texttt{FFDFFDFF77}\\ \texttt{FFDFFDFF77}\\ \texttt{FDFFDFF77}\\ \texttt{FDFFDF77}\\ \texttt{FDFFDF77}\\ \texttt{FDFFDF77}\\ \texttt{FDFDF77}\\ \texttt{FDFDF77}\\ \texttt{FDFDF77}\\ \texttt{FDF77}\\ \texttt{FDF777}\\ \texttt{FDF777}\\ \texttt{FD777}\\ \texttt{FD777}\\ \texttt{FD7777}\\ \texttt{FD7777}\\ \texttt{FD7777}\\ \texttt{FD7777}\\ \texttt{FD77777}\\ \texttt{FD77777}\\ \texttt{FD77777}\\ \texttt{FD777777}\\ FD777777777777777777777777777777777777$	FCFFFF777 FCFFFDFF77 FDFFBFFF77 DDFFFFFF77 D5FFFFFF77 BFEFDFFF77 BFEFDFFF77 DFFFDFFF77 FFFFDFFF77 FFFF9FDFF777 FFF9FDFF777 FFFF9FDFF77 FFFF9DDFF77
FDBFFFFF3 F5FFFFF7 FDDFBFFB7 DDFFFFFF7 DDFFFFF7 DCFFFFFF7 BFFFDFFF7 FFFFD7FF7 3FFFDFFF7 FFFFDFFF7 FFFF9FFF7 7FFF9FFF7 7FFFDFFF7	$\begin{array}{c} \texttt{F5}\texttt{FFFFBF7}\\ \texttt{FD}\texttt{F}\texttt{FFFFFF}\\ \texttt{F}\texttt{F}\texttt{F}\texttt{FFFFFF}\\ \texttt{F}\texttt{F}\texttt{F}\texttt{F}\texttt{F}\texttt{F}\texttt{F}\texttt{F}\texttt{F}\\ \texttt{F}\texttt{F}\texttt{F}\texttt{F}\texttt{F}\texttt{F}\texttt{F}\texttt{F}\\ \texttt{F}\texttt{F}\texttt{F}\texttt{F}\texttt{F}\texttt{F}\texttt{F}\\ \texttt{F}\texttt{F}\texttt{F}\texttt{F}\texttt{F}\texttt{F}\\ \texttt{F}\texttt{F}\texttt{F}\texttt{F}\texttt{F}\texttt{F}\\ \texttt{F}\texttt{F}\texttt{F}\texttt{F}\texttt{F}\\ \texttt{F}\texttt{F}\texttt{F}\texttt{F}\texttt{F}\\ \texttt{F}\texttt{F}\texttt{F}\texttt{F}\\ \texttt{F}\texttt{F}\texttt{F}\texttt{F}\\ \texttt{F}\texttt{F}\texttt{F}\texttt{F}\\ \texttt{F}\\ \texttt{F}\texttt{F}\texttt{F}\texttt{F}\\ \texttt{F}\\ \texttt{F}\\ \texttt{F}\texttt{F}\\ \texttt{F}\\ \texttt$	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	FDBFFDFFF7 FCDFFFFF77 DDFFFFFF77 DDFFFFFF77 FCFBFFF77 FFFDFEFF7 FFFDFFF77 FFFDFFF77 FFFDFFF77 AFFFDFFF77 FFFDFFF77 FFFDFFF73 FFFFDFFF73	$F5FFFFFF7\\F5FFF0FFF7\\DDFFFFF7\\DDFFFFF7\\DDFFFF7\\FFF0DFFF7\\EFF0DFFF7\\EFF0DFFF7\\FFF0FF7\\FFF0FBF7\\FFF0FBF7\\FFF0FFF7\\FFF0FFF7\\FFF0FFF7\\FFF0FFF7\\FFD0FFF7\\FFD0FFF7\\FFD0FFF7\\FF0FF7\\FF0FF7\\FF0FF7\\FF0\\FF7\\FF0\\FF7\\FF0\\FF7\\FF0\\FF7\\FF0\\FF7\\FF7$	$\begin{array}{c} FCFFFFF7F7\\ FCFFFDFFF7\\ FCFFFDFFF7\\ D5FFFFF7\\ D5FFFFF77\\ D5FFFFF77\\ FFFDFFF77\\ FFFDFFF77\\ FFFFDFFF77\\ FFFFDFF777\\ FFFFDFF777\\ FFFFDFF777\\ FFFFDFF77\\ FFFFDDFF77\\ FFFFFF77\\ FFFFFF77\\ FFFFF77\\ FFFF77\\ FFFF77\\ FFFF77\\ FFFF77\\ FFF77\\ FF77\\ FF77\\$
FDBFFFFF5 F5FFFFF7 FDFFBFFBF7 DDFFFDFF77 DCFFFFFF7 FFFFDFFF7 FFFFDFFF7 GFFFDFFF7 GFFFDFFF7 FFFFDFFF7 FFFFDFFF7 FFFFDFFF7 FFFFDFFF7 FFFFDFFF7 FFFFDFFF7 FFFFDFFF7	$\begin{array}{l} \texttt{F5}\texttt{FFFFBF7}\\ \texttt{FDBFFFFF7}\\ \texttt{FCFFFFF7}\\ \texttt{FCFFFFF7}\\ \texttt{FFFDFF7}\\ \texttt{FFFDFF7}\\ \texttt{FFFDFF77}\\ \texttt{FFFDDFF77}\\ \texttt{BFFDFF77}\\ \texttt{FFFDFF77}\\ \texttt{FFFDFF77}\\ \texttt{FFFDFF77}\\ \texttt{FFFFDFF77}\\ \texttt{FFFFDFF77}\\ \texttt{FFFFDFF77}\\ \texttt{FFFDFF77}\\ \texttt{FFF77}\\ \texttt{FF77}\\ \texttt{F77}\\ F77$	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	FDBFFDFFF FCDFFFFFF7 DDFFFFF77 DDFFFFFF77 7FFDFEF77 7FFDFEF77 7FFFDFFF77 7FFFDFFF77 7FFFDFFF77 7FFFDFFF77 7FFFDFFF77 7FFFDFFF77 8FFFDFFF77 7FFFDFFF77 8FFFDFFF77 8FFFDFFF77 8FFFDFFF77 8FFFDFFF77 8FFFDFFF77 8FFFDFFF77 8FFFDFFF77	$\begin{array}{l} \texttt{F5FFFFFF}\\ \texttt{F5FFFFFF}\\ \texttt{F5FFFFFF}\\ \texttt{F0FFBFFFF}\\ \texttt{D0FFFFFFF}\\ \texttt{FFDDFFFF7}\\ \texttt{FFFDDFFF7}\\ \texttt{FFFDDFFF7}\\ \texttt{FFFDFFFF7}\\ \texttt{FFFFDFFF7}\\ \texttt{FFFFDFFF7}\\ \texttt{FFFF0FFFF7}\\ \texttt{FFFF0FFFF7}\\ \texttt{FFFDFFFF7}\\ \texttt{FFFDFFFF7}\\ \texttt{FFFDFFFF7}\\ \texttt{BFFFDFFF77}\\ \texttt{BFFFDFFF77}\\ \texttt{FFFFFFF7}\\ \texttt{FFFFFF77}\\ \texttt{FFFFFF77}\\ \texttt{FFFFFF77}\\ \texttt{FFFFFF77}\\ \texttt{FFFFFF77}\\ \texttt{FFFFFF77}\\ \texttt{FFFFFF77}\\ \texttt{FFFFF77}\\ \texttt{FFFFF77}\\ \texttt{FFFFF77}\\ \texttt{FFFFF77}\\ \texttt{FFFFF77}\\ \texttt{FFFFF77}\\ \texttt{FFFFF77}\\ \texttt{FFFFF77}\\ \texttt{FFFF77}\\ \texttt{FFFF77}\\ \texttt{FFFF77}\\ \texttt{FFFF77}\\ \texttt{FFFF77}\\ \texttt{FFFF77}\\ \texttt{FFF77}\\ \texttt{FFF77}\\ \texttt{FFF77}\\ \texttt{FFF77}\\ \texttt{FFF77}\\ \texttt{FFF77}\\ \texttt{FFF77}\\ \texttt{FFF77}\\ \texttt{FF77}\\ \texttt{F77}\\ $	FCFFFFFFF FCFFFDFFF7 FDFFBFFFF7 DDDFFFFFF7 DDFFFFFF7 FFFDFFF7 6FFFDFFF7 6FFFDFFF7 FFFFDFFB7 FFFFDFFF7 FFFFDFFF7 FFFFDFFF7 FFFFDDFFF7 FFFFDDFFF7
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Table 13. IV terms of degree 43 in z_{257} -part 5

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EFEFFFFET EFDFFFFT EFEFFFTT EFFFFFTT EFFFFTT EFFFFTT EFFFFTT EFFFFTT EFFFFTT EFFFFTT EFFFFTT EFFFTTT EFFFTTT EFFFTTT EFFFTTT EFFFTTT EFFFTTT EFFFTTT EFFFTTT EFFFTTT EFFFTTTT EFFFTTTTT EFFFTTTT EFFFTTTTT EFFFTTTTT EFFFTTTTT EFFFTTTTT EFFFTTTTT EFFFTTTTT EFFFTTTTT EFFFTTTTTTT EFFFTTTTTT EFFFTTTTTT EFFFTTTTT EFFFTTTTT EFFFTTTTT EFFFTTTTT EFFFTTTTT EFFFTTTTT EFFFTTTTT EFFFTTTTTT EFFFTTTTTT EFFFTTTTTT EFFFTTTTTT EFFFTTTTTT EFFFTTTTT EFFFTTTTT EFFFTTTTT EFFFTTTTT <td>DFDFFF</td>	DFDFFF
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77EFFFFF7 7EEFFFFF7 7TEFFFFF7 7EFFFFF7 7EFFFFF7 7EFFFFF7 7EFFFF7 7EFFFF7 7EFFFF7 7EFFFF7 7EFFFF7 7EFFFF7 7EFFF77 7EFFF77 7EFF77 7EFF77 7EFF77 7EFF77 7EFF77 7EFF77 7EFF77 7EF777 7EF7777 7EF77777 7EF77777 7EF77777 7EF77777 7EF77777 7EF77777 7EF77777 7EF77777 7E777777 7E777777 7E777777777 7E777777 7E777777777 7E7777777 F	
77BFFFFF77EBFFFFF77EBFFFDF7FEBFFDF7FEBFFFD7FEBF6FFFDF7F7EFFFF7F7EFFFF7FEFFFF77FEFFFF77FFFFEDFFFF7F6FFFF77F7FFFF77FFFFF77FFFF77FFFF77F7FFF77F8FFF77F7FFF77F7FFF77F7FF777F7F777F7F777F87777F77777F77777F77777F77777F77777F77777F777777F777777F7777777F7777777F777777F8777777F77777777F7777777777F7777777777F777777F8777777777777F777777777777777777777777777777777777	DFFFFF7
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EEDFFDFF7F6FFFFD7F7EFFFFD7F7EFFFFD7FEFF7FDFFF7FEFFFFFF7FFFFF7FFFFF7FFFF7FDFF77FEFFFFF77FFFF77FFFF77FFFB7EFFFF77EEFFFF77FFFF77FFFF77FFF77FF777B7EFFFF77EEFF7777FF777FF777FF777FF777F7F77FEF7777FF7777FF7777FF7777FF7777FF7777FF7777FF77777FF77777FF77777FF777777FF777777FF777777FF777777777777F7777777777FF77777777777777777777777777777777777	DFFDFF7
F7DDFFFD7FEDDFFFT0BFDFFFF7BEDFFFF7BEDFFFF7B6FB7BFFFF7BEBFFFF77BFFFFF77BEFFFF77BFFFF77BFFB7BFFFF77BEBFFFF77EFFFF77EFFFF77EEFFF77EEFFF77E7DFFF77EEEFF777EEFFF777EEFF777EEFF777EEFF777E7DFF777EEEF7777EEFF777EEF7777EEF7777EEF7777FEBF7777FF777FEBF7777FEF7777FEF77777FEF77777FEF7777FF7777FF77777FF777777FF7777777FF77777777777777777777777777777777777	FFFEFD7
BEEFFFFFFBEEFFFFFFBEFFFFFFBEFFFFFFBEFFFFFFBTBFFFFF7BEEFFFFFF7EFFFFFF7EFFFFF7EFFBTBFFFF7BEBFFFF77EFFFFF77EFFFF77EFFFF77ETEFFFF77EEEFFFF77FFFF77FFFF77EFFF777FEFF7777EEEFFF777FFF777FFF777FF777FEF77777FF7777FF7777FF7777FF7777FF77777FF7777FF77777FF7777FF7777FF77777FF77777FF77777FF77777FF77777FF77777FF77777FF77777FF77777FF77777FF77777FF77777FF77777FF77777FF77777FF77777FF77777FF777777FF77777FF77777FF77777777777777777777777777777777777	FFFFFF7
BBFFFFFF7BEBFFFFF7EEBFFFFF7EEBFFFFF7EEFE7EFFFFF7EEEFFFFF7E7FFFFF7EEFFFF7EEFE7EFFFF77EEEFFFF7E7FFFF77EEFFFF77EEFFBFFFF77EEBFFFF77F6FF7F77F7EFF777FEF77777FEF77777FFF777F7E777777F7E777777F7E777777FFF7777F7E777777F7E777777F7F77777F7F77777FFF7777F7E77777F7F77777F7F77777F777777FFF7777F777777F777777F777777F777777F77777F777777F777777F777777F777777F77777F777777F777777F777777F77777F77777F777777F7777777F777777F777777F77777F777777F7777777F777777F7777777F777777F7777777F7777777777777777F777777777777777777777777777777777777	DFFFFF7
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EZBFFFFF7EEBFFFFF7FOBFFFF7GFFFFF7FEFFFFF7FFFFBFF7EF7FTDF7FF7FEBF7FF7FEBF7FF7FEBF7FF7FEBFBFF7EF7FTDF7FF7FEBF7F7F7FEBF7F7F7FEBF7F7F7FBFF7FBD775FFF7775FF7F7775F7F77FEF77F77FFFF775F777775F7777757777775777777FFF7777577777757777777577777777777777777777777777777777777	DFFFFF7
FEBFF7EFF7FEBDF7FF7FEBF7FF7FEF77FEF77FEF77F7FF7FEBF7EF7F7B07FF77FEBF7FF77FEBF7FF77FEBF7FF77FEBF7FF77FF8FF8FFFBD7FEFFFF877FFFFF87737FFFFF7737FFFF77737FFFF77737FFF777F7FFF78FF7777FF7777FF7777777F7777737F77777737F7777777F777777FF77777FF777	FF7FFF7
FEFFF7EFFFFDF7FFF7FEDF7FFF7FEDF7FFF7FFDFFDFFFBD7FFFFFFF7FFFFFF7FFFFF7FFFFF7FFFFFFFFFBD7FFFFFF7SFDFFFFF7SFDFFFF77SFDFFFF77BTFFFFF77BEFFFFF77FFFFF77SFDFF777SFFFF777ATFFFFF77AEFFFF777FFF7777FFF7777FFF7777FFF777FFF7777FFF7777FFF7777FFF7777FF97777FFF7777FFF7777FF7777FF7777FF97777FF7777FF7777FF7777FF97777FF7777FF7777FF7777FF97777FF7777FF7777FF7777F77777FF7777FF77777FF77777F77777FF7777FF77777FF77777F77777F777777FF77777FF77777F77777F777777F77777777F77777F777777F777777777777777777777777777777777777	FF7EFF7
FEBFFFBD77FBFFBF77FFFFBF77FFFFBB7FEFFFBB7FEFF7FFFFBD7FEFFFFB73FBFFFFF73FBFFFF7BFBB7FFFFFB7BEFFFFFB7FEBFFFFF7SFFFFF773EFFFF77A7FFFFF77AEFFFFF77FEBFFF777FEFFF777FEFFF777FFFF777AEFFFF777FEFFF777FEFFF777FFF777FFFF777FEFFF777FEFFF777FFF777FFF777FFFF777EEFFF777FEFFF777FFF777FFF777FF9FF777EEFFF777FFF777FFF777FFF777FF9FF777EEFFF777FFF777FFF777FFF777F9FF777EEFF7777FFF777FFF777FFF777F9F7777FEFF7777FFF777FFF777FFF777F70FF777FEFF7777FFF7777FFF7777FFF7777F70FF777FEFF7777FFF7777FFF7777FFF7777F70FF777FEFF77777FFF77777FFF77777FEFF77F70F777FEFF77777FFF77777FF777777FF77777F77F7077FEFF77777FF77777777777777777777777777777777777	FFFDBF7
F7FFFFBD7FEFFFFBD7SEFFFFFD7SEFFFFFF7SEFFFFFF7BFFFFFFF7BEFFFFFB7BFFFFFF7SEFFFFFF7SEFFFFFF7BFFFFF7SEFFFFF77FFFFFF77FFFFF777FFFFF777FFFFF777FFFF777FFFF777FFFF777FFFF777FFFF777FEFFF777FFFF777FFFF777FFFF777FFFF777FFFF777FFFF777FFFF777FFFF777FFFF777FFFF777FFFF777FFFF777FFF777FFFF777FFFF777FFFF777FFF777FFF777FFF777FFFF777FFF777FFF777FFF777FFF777FFF777FFF777FFF777FF77777FFF777FFF777775777FF77777FF77777FF7777FF77777FF777777FF777777FF777777FF77777FF7777777FF77777777777777777777777777777777777	FFFDBF7
BTFFFFBF7BEFFFFBF7FFBFFFFFFFFFFFFFFFFFFFFA7FFFFFF7BFFFFFF7FFFFFF7FFFFFF7FFFFF77FFFFFF77AFFFFF77FFFFF77FFFFF77FFFFF77FFFFF777FEFFFF777FFFFF777FFFFF777FFFFF777FFFFF777FEFFF777FFFFF777FFFFF777FFFFF777FF7FF777EFFFF777FFFFF777FFFFF777FFFFF777FF7FF777EFFFF777FFFFF777FFFFF777FFFF777FF9FF777FEFFF7777FFFFF777FFFF777FFFF777FF9FF777FEFF7777FFFF7777FFFF7777FFF77777FF7F7777FFF7777FFF77777FFF77777FF77777F77F7777FFF77777FF777777FF777777777777777F77F7777EFF777777FF77777777777777777777777777777777777	FFFFBF7
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FFBFFF7D77FBFF7F77FFFF7777FFFF777FFFF777FEFF7FFFF777EFFFF777BEFFF777BFFF777BFFF777BFFF777BFFF777E7FFFF777FFFFF777FFFFF777FFFFF777FFFF777FFFF777FFFF777F9FFF777FFFF777FFFF777FFFF777FFF777FFF777FFF777F7DFF777FFFF777FFF777FFF7777FFF7777FF777777F7FF7777FF7777777FF77777FFF77777FF7777777F7FF7777FF777777FF777777FF777777FF777777F7F77777FF777777FF777777777FF77777777777777777777777777777777777	FFFD7F7
E7FFFF77EEFFFF77FFBFFFDF73FFBFFFF73FFBFFFF73FFBF79FFFF77FFBFF077FFBFFF77FFFF77FFFF77777DFFFF7772DFFFF77777FFF777777FF7777777DFFFF7772DFFF7777777FF7777777FF7777777DFFF77772DFF7777777FF7777777FF7777777DFF777772DF7777777F7777777F7777777DF7777777F7777777F77777777F7777777DF7777777F7777777F7777777F7777777DF7777777F7777777F7777777F7777777DF7777777F7777777F7777777F7777777D77777777F7777777F7777777F7777777D7777777F7777777F77777777D7777777F77777777F777777775777777757777777757777777757777775777777757777777757777777577777777577777777577777775777777757777777757777777577777777577777775777777775777777757777777775777777775777777757577777777575775777505777777775757757775057777777757577577750577777777575757577505777777775757575775057777777757575757750577777775757575775057777777575757577505777777757575757750577777775757575777505777777757575757775057777777575757577750	FFFD7F7
E7FFFF77EEFFFF77FFBFFFDF73FFBFFFF73FFBFFFF73FFBF79FFFF77FFBFF077FFBFFF77FFFF77FFFF77777DFFFF7772DFFFF77777FFF777777FF7777777DFFFF7772DFFF7777777FF7777777FF7777777DFFF77772DFF7777777FF7777777FF7777777DFF777772DF7777777F7777777F7777777DF7777777F7777777F77777777F7777777DF7777777F7777777F7777777F7777777DF7777777F7777777F7777777F7777777DF7777777F7777777F7777777F7777777D77777777F7777777F7777777F7777777D7777777F7777777F77777777D7777777F77777777F777777775777777757777777757777777757777775777777757777777757777777577777777577777777577777775777777757777777757777777577777777577777775777777775777777757777777775777777775777777757577777777575775777505777777775757757775057777777757577577750577777777575757577505777777775757575775057777777757575757750577777775757575775057777777575757577505777777757575757750577777775757575777505777777757575757775057777777575757577750	FFFF7F7
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$\begin{array}{c cccc} B7FFFDFF7 & BEFFFDFF7 & EFBFFFFF7 & EFBFFFFF7 & EFB \\ B7FFFFF7 & EEFFFFF77 & EFFFF77 & EFFFF7777 & EFFF77777 & EFFF77777 & EFF77777 & EFF777777 & EFF777777 & FFBF777777 & FFBF777777 & FFBF777777 & FFBF777777 & FFBF777777 & FFBF777777 & FFF777777 & FFF777777 & FFF777777 & FFF777777 & FFF777777 & FFF777777 & FFF7777777 & FFF777777 & FFF7777777 & FFF77777777$	FFDFFF7
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FEFFF7FFE7 F7DFF7FFF7 FEDFF7FFF7 F7FF5FFF7 FEFF5FFF7 7FF	FF7FFF3
	FF7FFE7
FFFFBFDBF7 FFFFBFFBD7 3FFFBFFFF7 BFFFBFFBF7 EFFFBFFBF7 AFF	FBFFBF7
	FBFFFF7
	FFFFBF7
	FBFF7D7
	FFFF7F7
	FBFDFF3
	FBFFFD
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	FBFFFD
	FFDFFF7
	FFFFFC7
DFDFFFFFD7 DFFFFDFFD7 9FFFFFFF3 9FFFFFFF7 9FDFFFFF7 9FF	FFDFFF7

Table 14. IV terms of degree 43 in z_{257} -part 6

CFFFFFFF3	CFFFFFFFF7	CFDFFFFF7	CFFFFDFFF7	FFFFB7F7F7	DFFFF7F7F7
FFFFB7FFF3	FFFFB7FFE7	FFDFB7FFF7	FFFFB5FFF7	DFFFB7FFF7	DFFFF7FFF3
DFFFF7FFE7	DFDFF7FFF7	DFFFF5FFF7	FFBFBFDFF7	FFBFBFFFD7	7FBFBFFFF7
77FFBFFFF7	7EFFBFFFF7	F7FFBFDFF7	FEFFBFDFF7	F7FFBFFFD7	FEFFBFFFD7
BFBFBFFFF7	B7FFBFFFF7	BEFFBFFFF7	EFBFBFFFF7	E7FFBFFFF7	EEFFBFFFF7
DFBFFFDFF7	DFBFFFFD7	5FBFFFFF7	57FFFFFF7	5EFFFFFF7	D7FFFFDFF7
DEFFFFDFF7	D7FFFFFFD7	DEFFFFFD7	9FBFFFFF7	97FFFFFF7	9EFFFFFF7
CFBFFFFF7	C7FFFFFF7	CEFFFFFF7	FFBFB7FF7	F7FFB7FFF7	FEFFB7FFF7
DFBFF7FFF7	D7FFF7FFF7	DEFFF7FFF7	FDFFFFFDF6	FFFFFFDDF6	FFFFFFFDD6
FFFFF7FDF6	7DEFFFFF7	7DFFFFEFF7	7DFDFFFFF7	FDEFFFDFF7	FFEFFFDFD7
7FEFFFDFF7	FDFFFFCFF7	FFFFFFCFD7	7FFFFFCFF7	FDFDFFDFF7	FFFDFFDFD7
7FFDFFDFF7	FDEFFFFFD7	7FEFFFFFD7	FDFFFFEFD7	7FFFFFEFD7	FDFDFFFFD7
7FFDFFFFD7	7FEFF7FFF7	7FFFF7EFF7	7FFDF7FFF7	BDEFFFFF7	BDFFFFEFF7
BDFDFFFFF7	BFEFFFDFF7	BFFFFFCFF7	BFFDFFDFF7	BFEFFFFFD7	BFFFFFEFD7
BFFDFFFFD7	BFEFF7FFF7	BFFFF7EFF7	BFFDF7FFF7	EDEFFFFF7	EDFFFFEFF7
EDFDFFFF7	EFEFFFDFF7	EFFFFFCFF7	EFFDFFDFF7	EFEFFFFD7	EFFFFFEFD7
EFFDFFFD7	EFEFF7FFF7	EFFFF7EFF7	EFFDF7FFF7	6DFFFFFF7	6FFFFFDFF7
6FFFFFFD7	6FFFF7FFF7	FDEFF7FFF7	FDFFF7EFF7	FDFDF7FFF7	FFEFF7DFF7
FFFFF7CFF7	FFFDF7DFF7	FFEFF7FFD7	FFFFF7EFD7	FFFDF7FFD7	5DFFFFFFF7
DDFFFFDFF7	DFFFFFDFD7	5FFFFFDFF7	DDFFFFFFD7	5FFFFFFFD7	5FFFF7FFF7
9DFFFFFFF7	9FFFFFDFF7	9FFFFFFFD7	9FFFF7FFF7	CDFFFFFFF7	CFFFFFDFF7
CFFFFFFFD7	CFFFF7FFF7	DDFFF7FFF7	DFFFF7DFF7	DFFFF7FFD7	FDFFDFFDF7
FFFFDFDDF7	FFFFDFFDD7	FFFFD7FDF7	7DFFDFFFF7	FDFFDFDFF7	FFFFDFDFDF7
7FFFDFDF7	FFFFDFFDD7 FDFFDFFFD7	7FFFD7FD77	7DFFDFFF7 7FFFD7FFF7	BDFFDFFFF7	BFFFDFDFF7
BFFFDFFD7	BFFFD7FFF7	EDFFDFFFD7	7FFFD7FFF7 EFFFDFDFF7	EFFFDFFFD7	EFFFD7FF7
FDFFD7FFF7	FFFFD7DFF7	FFFFD7FFD7	FDFFFFF9F7	FFFFFFD9F7	FFFFFF9D7
FFFFF7F9F7	7DFFFFFBF7	FDFFFFDBF7	FFFFFFDBD7	7FFFFFDBF7	FDFFFFFBD7
7FFFFFBD7	7FFFF7FBF7	3DFFFFFF7	3FFFFFDFF7	3FFFFFFD7	3FFFF7FF7
BDFFFFFBF7	BFFFFFDBF7	BFFFFFFBD7	BFFFF7FBF7	EDFFFFFBF7	EFFFFFDBF7
EFFFFFBD7	EFFFF7FBF7	ADFFFFFF7	AFFFFFDFF7	AFFFFFFD7	AFFFF7FF77
FDFFF7FBF7	FFFFF7DBF7	FFFFF7FBD7	FDFFFFF5F7	FFFFFFD5F7	FFFFFF5D7
FFFFF7F5F7	FDFFBFFDF7	FFFFBFDDF7	FFFFBFFDD7	FFFFB7FDF7	FDFFFFFDF3
FDFFFFFDE7	FDDFFFFDF7	FDFFFDFDF7	FFFFFFDDF3	FFFFFFFDD3	FFFFFFDDE7
FFDFFFDDF7	FFFFFDDDF7	FFFFFFFDC7	FFDFFFFDD7	FFFFFDFDD7	FFFFF7FDF3
FFFFF7FDE7	FFDFF7FDF7	FFFFF5FDF7	7DFFFFF7F7	FDFFFFD7F7	FFFFFFD7D7
7FFFFFD7F7	FDFFFFF7D7	7FFFFFF7D7	7FFFF7F7F7	BDFFFFF7F7	BFFFFFD7F7
BFFFFFF7D7	BFFFF7F7F7	EDFFFFF7F7	EFFFFFD7F7	EFFFFFF7D7	EFFFF7F7F7
7DFFBFFFF7	FDFFBFDFF7	FFFFBFDFD7	7FFFBFDFF7	FDFFBFFFD7	7FFFBFFFD7
7FFFB7FFF7	BDFFBFFFF7	BFFFBFDFF7	BFFFBFFFD7	BFFFB7FFF7	EDFFBFFFF7
EFFFBFDFF7	EFFFBFFFD7	EFFFB7FFF7	7DFFFFFF3	7DFFFFFFE7	7DDFFFFFF7
7DFFFDFFF7	7FFFFFDFF3	FDFFFFDFF3	FFFFFFDFD3	FDFFFFFFD3	7FFFFFFFD3
FDFFFFDFE7	FFFFFFDFC7	7FFFFFDFE7	FDDFFFDFF7	FFDFFFDFD7	FDFFFDDFF7
FFFFFDDFD7	7FDFFFDFF7	7FFFFDDFF7	FDFFFFFFC7	7FFFFFFC7	FDDFFFFFD7
FDFFFDFFD7	7FDFFFFFD7	7FFFFDFFD7	7FFFF7FFF3	7FFFF7FFE7	7FDFF7FFF7
7FFFF5FFF7	BDFFFFFFF3	BDFFFFFFF7	BDDFFFFFF7	BDFFFDFFF7	BFFFFFDFF3
BFFFFFFFD3	BFFFFFDFE7	BFDFFFDFF7	BFFFFDDFF7	BFFFFFFFC7	BFDFFFFFD7
BFFFFDFFD7	BFFFF7FFF3	BFFFF7FFE7	BFDFF7FFF7	BFFFF5FFF7	EDFFFFFF53
EDFFFFFFF7	EDDFFFFF7	EDFFFDFFF7	EFFFFFDFF3	EFFFFFFFD3	EFFFFFDFE7
EFDFFFDFF7	EFFFFDDFF7	EFFFFFFFC7	EFDFFFFD7	EFFFFDFFD7	EFFFF7FFF3
EFFFF7FFF7	EFFFFDDFF7 EFDFF7FFF7	EFFFFFFFF7 EFFFF5FFF7	FDFFF7F7F7	FFFFF7D7F7	FFFFF7F7D7
FDFFB7FFF7	EFDFF7FF77 FFFFB7DFF7	EFFFF5FF7 FFFFB7FFD7	FDFFF7F7F7 FDFFF7FFF3	FFFFF7D7F7 FDFFF7FFE7	FFFFF7F7D7 FDDFF7FFF7
FDFFF5FFF7	FFFFF7DFF3	FFFFF7FFD3	FFFFF7DFE7	FFDFF7DFF7	FFFFF5DFF7
FFFFF7FFC7	FFDFF7FFD7	FFFFF5FFD7	FFBFFFDDF7	FFBFFFFDD7	FDBFFFFDF7
F5FFFFFDF7		F7FFFFDDF7	FEFFFFDDF7	F7FFFFFDD7	FEFFFFFDD7
DEDEEDE	FCFFFFFDF7	DEEEEEEE	SD DDDDDD		
FFBFF7FDF7	F7FFF7FDF7	FEFFF7FDF7	7DFFFFFDF7	7FFFFFDDF7	FDFFFFDDF7
FFFFFFDDD7	F7FFF7FDF7 FDFFFFFDD7	7FFFFFFDD7	7FFFF7FDF7	BDFFFFFDF7	BFFFFFDDF7
FFFFFFDDD7 BFFFFFFDD7	F7FFF7FDF7 FDFFFFFDD7 BFFFF7FDF7	7FFFFFFDD7 EDFFFFFDF7	7FFFF7FDF7 EFFFFFDDF7	BDFFFFFDF7 EFFFFFFDD7	BFFFFFDDF7 EFFFF7FDF7
FFFFFFDDD7 BFFFFFFDD7 FDFFF7FDF7	F7FFF7FDF7 FDFFFFFDD7 BFFFF7FDF7 FFFFF7DDF7	7FFFFFFDD7 EDFFFFFFDF7 FFFFF7FDD7	7FFFF7FDF7 EFFFFFDDF7 FDBFFFDFF7	BDFFFFFDF7 EFFFFFFDD7 FFBFFFDFD7	BFFFFFDDF7 EFFFF7FDF7 7FBFFFDFF7
FFFFFFDD7 BFFFFFFD7 FDFFF7FDF7 FDBFFFFFD7	F7FFF7FDF7 FDFFFFFDD7 BFFFF7FDF7 FFFF7DDF7 7FBFFFFD7	7FFFFFFDD7 EDFFFFFFDF7 FFFFF7FDD7 7DBFFFFFF7	7FFFF7FDF7 EFFFFFDDF7 FDBFFFDFF7 75FFFFFFF7	BDFFFFFDF7 EFFFFFFDD7 FFBFFFFFF7 7CFFFFFFF7	BFFFFFDDF7 EFFFF7FDF7 7FBFFFDFF7 77FFFFDFF7
FFFFFFDDD7 BFFFFFFDD7 FDFFF7FDF7 FDBFFFFFD7 7EFFFFDFF7	F7FFF7FDF7 FDFFFFFDD7 BFFFF7FDF7 FFFFF7DDF7 7FBFFFFFD7 F5FFFFDF7	7FFFFFDD7 EDFFFFFDF7 FFFF7FDD7 7DBFFFFF7 FCFFFFDFF7	7FFFF7FDF7 EFFFFFDDF7 FDBFFFDFF7 75FFFFFF7 F7FFFFDFD7	BDFFFFFDF7 EFFFFFFDD7 FFBFFFDFD7 7CFFFFFFF7 FEFFFFDFD7	BFFFFFDDF7 EFFFF7FDF7 7FBFFFDFF7 77FFFFDFF7 7DFFFFDFF7
FFFFFDDD7 BFFFFFFD07 FDFFF7FDF7 FDBFFFFFD7 7EFFFFDF7 FDFFFFDF7	F7FFF7FDF7 FDFFFFFDD7 BFFFF7DDF7 FFFF7DDF7 7FBFFFFD7 F5FFFDFF7 7FFFFFDFD7	7FFFFFDD7 EDFFFFFDF7 FFFF7FDD7 7DBFFFFF77 FCFFFFDF7 F5FFFFFD7	7FFFF7FDF7 EFFFFFDDF7 FDBFFFDFF7 75FFFFFFF7 F7FFFFDFD7 FCFFFFFFD7	BDFFFFFDF7 EFFFFFFD77 FFBFFFFDF77 7CFFFFFFF77 FEFFFFD777 7DFFFFFF777	BFFFFFDDF7 EFFFF7FDF7 7FBFFFDFF7 77FFFFDFF7 7DFFFFDFF7 77FFFFFD7
FFFFFFDDD7 BFFFFFFDD7 FDFFF7FDF7 FDBFFFFFD7 7EFFFFDFF7	F7FFF7FDF7 FDFFFFFDD7 BFFFF7FDF7 FFFFF7DD77 7FBFFFFF7 7FFFFFF7 7FFFFF7F7 7FFFF7F7F7	7FFFFFDD7 EDFFFFFDF7 FFFF7FDD7 7DBFFFFF7 FCFFFFDFF7	7FFFF7FDF7 EFFFFFDDF7 FDBFFFDFF7 75FFFFFFF7 F7FFFFD7 FCFFFFFFD7 7EFFF7FFF7	BDFFFFFDF7 EFFFFFFDD7 FFBFFFDFD7 7CFFFFFFF7 FEFFFFDFD7	BFFFFFDDF7 EFFFF7FDF7 7FBFFFDFF7 77FFFFDFF7 7DFFFFDFF7
FFFFFDDD7 BFFFFFFD07 FDFFF7FDF7 FDBFFFFFD7 7EFFFFDF7 FDFFFFDF7	F7FFF7FDF7 FDFFFFFDD7 BFFFF7DDF7 FFFF7DDF7 7FBFFFFD7 F5FFFDFF7 7FFFFFDFD7	7FFFFFDD7 EDFFFFFDF7 FFFF7FDD7 7DBFFFFF77 FCFFFFDF7 F5FFFFFD7	7FFFF7FDF7 EFFFFFDDF7 FDBFFFDFF7 75FFFFFFF7 F7FFFFDFD7 FCFFFFFFD7	BDFFFFFDF7 EFFFFFFD77 FFBFFFFDF77 7CFFFFFFF77 FEFFFFD777 7DFFFFFF777	BFFFFFDDF7 EFFFF7FDF7 7FBFFFDFF7 77FFFFDFF7 7DFFFFDFF7 77FFFFFD7
FFFFFDDD7 BFFFFFDD7 FDFFF7FDF7 FDBFFFFF7 7EFFFFFF7 FDFFFFDF7 7EFFFFFD7	F7FFF7FDF7 FDFFFFFDD7 BFFFF7FDF7 FFFFF7DD77 7FBFFFFF7 7FFFFFF7 7FFFFF7F7 7FFFF7F7F7	7FFFFFDD7 EDFFFFFDF7 FFFF7FDD7 7DBFFFFFF7 FCFFFFFFF7 F5FFFFFF7 77FFF7FF7	7FFFF7FDF7 EFFFFFDDF7 FDBFFFDFF7 75FFFFFFF7 F7FFFFD7 FCFFFFFFD7 7EFFF7FFF7	BDFFFFFDF7 EFFFFFFDD7 FFBFFFFD7 7CFFFFFFF7 FEFFFFD7 7DFFFFFD7 BFBFFFDF7	BFFFFFDDF7 EFFFF7FDF7 7FBFFFDFF7 77FFFFFFF7 7DFFFFFFF7 77FFFFFFF77 BFBFFFFFD7
FFFFFFDDD7 BFFFFFDD7 FDFFF7FDF7 FDBFFFFFD7 7EFFFFDF7 7EFFFFDF77 7EFFFFD77 BDBFFFFFF77	F7FFF7FDF7 FDFFFF7DDF7 FFFF77DDF7 7FBFFF7DDF7 7FBFFFFD7 7FFFF7DF77 7FBFFF7FF7 7FBFF7FF77 85FFFFFF7	7FFFFFDD7 EDFFFFFDF7 FFFFF7FDD7 7DBFFFFF7 FCFFFF5FF7 F5FFFFF7 77FFF7FFF7 BCFFFFFF7	7FFFF7FDF7 EFFFFFDDF7 FDBFFFFFF7 75FFFFFF7 F7FFFFD7 FCFFFFFF7 FCFFFFFF7 B7FFFFF7 B7FFFF7F7	BDFFFFFDF7 EFFFFFFD7 FFBFFFFF7 FEFFFFF7 FEFFFF0F7 BFFFFF7 BFFFFF7 BEFFFF77	BFFFFDDF7 EFFF7FDF7 7FBFFDFF7 77FFFDFF7 7DFFFFDF7 7FFFFFD7 BFBFFFFD7 BDFFFFFD7
FFFFFDDD7 BFFFFFDD7 FDFFFFD77 7EFFFFDF7 7EFFFFDF7 FDFFFFDF7 BDFFFFFD7 BDFFFFFF7 BFFFFFD7	F7FFF7FDF7 FDFFFFFDD7 FFFF7FDF7 FFFFF7DDF7 F5FFFFF7 F5FFFF77 F5FFFF77 F5FFFF77 B5FFFFFF77 B5FFFFFF77	7FFFFFFDD7 EDFFFFFFD7 FFFF7FD07 7DBFFFFF7 FCFFFFFF7 F5FFFFF77 77FFF7FF77 BCFFFFFF77 B7FFFFFF77	7FFFF7FDF7 EFFFFFDF7 75FFFFFF7 77FFFFF7 77FFFFF77 7EFFFFF77 87FFFFF77 87FFFFF77 82FFFFFF77	BDFFFFFDF7 EFFFFFD7 7CFFFFF7 FEFFFFF7 FEFFFFF7 BFFFFFF7 BFFFFFF7 BFFFFFF7	BFFFFFDDF7 EFFFFFF7FDF7 7FBFFFDFF7 7DFFFFDFF7 7DFFFFFF7 BFFFFFF7 BDFFFFFF7 B7FFF7FF7 B7FFF7FF7
FFFFFFDD7 BFFFFFD7 FDFFFFFD7 FDFFFFFD7 FDFFFFDF7 FDFFFFD7 BDFFFFFD7 BEFFFFFFF7 E7FFFFFFF E7FFFFDF7 E7FFFFDF7	F7FFF7DF7 FDF7FF7DF7 FFFF7D7 FFFF7DF7 FFFFF7DF7 7FFFFF7F7 B5FFFFF7 B5FFFFF7 B5FFFFF7 EFBFFFFF7 EFBFFFFF7 EFFFFFF7	7FFFFFDD7 EDFFFFFDF7 FFFFF7DD7 7DFFFFFF7 F5FFFFF7 F5FFFFD7 B7FFFFF7 B7FFFFF7 EFFFFFF7 EFFFFFF7 EFFFFFF7	$\begin{array}{l} 7 \texttt{FFFF7FDF7} \\ \texttt{FFFFFDDF7} \\ \texttt{FDBFFFFFF7} \\ \texttt{FDBFFFFFF7} \\ \texttt{F7FFFFF7} \\ \texttt{F7FFFFF7} \\ \texttt{F7FFFF77} \\ \texttt{B7FFF77F7} \\ \texttt{B7FFFF77} \\ \texttt{B1} \\ \texttt{B1} \\ \texttt{B1} \\ \texttt{FFFFF77} \\ \texttt{EDBFFFF77} \\ \texttt{EDBFFFF77} \\ \texttt{EDBFFFF77} \\ \texttt{EDFFFF77} \\ \texttt{D1} \\ \texttt{B1} \\ \texttt{FFFF77} \\ \texttt{FFF77} \\ \texttt{FFF77} \\ \texttt{FF77} $	BDFFFFFDF7 FFBFFFDF7 7CFFFFFFF7 7DFFFFFF7 BFBFFFDF77 BFBFFFDF77 BFBFFFDF77 E5FFFFFF7 EDFFFFFF7	BFFFFDDF7 EFFFF7DF7 7FBFFDFF7 77FFFDF7 77FFFDF7 BFBFFFFDF7 BFFFFFF7 B7FFFFF7 ECFFFFFFF7 E7FFFFFF7
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FFFFFFDD7 BFFFFFD7 FDFFF7FD7 7EFFFFFD7 7EFFFFFD7 BDFFFFFFD7 BDFFFFFF7 BFFFFFF7 BFFFFFF7 EFFFFFF7 7FFFF7FF7 7FFF7FF7 FD8F7FFF7	$\begin{array}{c} F7FFF7FDF7\\ FDFFFFFDF7\\ FFFFF7DDF7\\ FFFFF7DDF7\\ FFFFFDF7\\ FFFFFDF7\\ 7FFFFF7F7\\ BDFFFFF77\\ BDFFFFF77\\ EFBFFFF77\\ EFBFF7FF77\\ BDFFF7FFF7\\ BDFF7FFF7\\ FFF77FF77\\ FFF77FF77\\ FF5FF77FF77\\ \end{array}$	7FFFFFDD7 FFFF7FFD7 7DBFFFFFD7 7DBFFFFFD7 77FFF7FF7 B7FFF7FF7 B7FFFFF7 B7FFFFF7 E7FFFFF7 B7FFF7FF7 B7FF77FF7 B7FF77FF7 F7F77FF7	$\begin{array}{c} \textbf{FFF7} \textbf{FF7} \textbf{FFF7} \textbf{FFFF} \textbf{F7} \textbf{F7} \textbf{F7} \textbf{FFFF} \textbf{F7} $	BDFFFFDD7 FFBFFFDD77 7CFFFFFD77 7CFFFFFFD7 BFBFFFFD7 BFBFFFFF7 BFFFFFF7 BFFFFFF7 C5FFFFFF77 FFFFF77 FFFF77 FFFF77 FFFF7757 FFFF770FF7	BFFFFDDF7 TFBFFDFF7 77FFFDF77 77FFFFDF77 77FFFFD7 BFFFFFD7 BFFFFFF7 B7FFF7FF7 E7FFFF7F7 FFFF7DF7 FFBF77F70F7 FDFF77DF7
FFFFFFDD7 BFFFFFFD7 FDFFF7FD7 FDFFF7FF7 FDFFFFFF7 7EFFFFFF7 BDFFFFFF7 BFFFFFFF7 BFFFFFF7 FFFFFF7 F7FFF7FF	$F7FFF7FDF7\\FDF7FF7D7\\FFFF7D7\\FFFF7D7\\FFFF7DF7\\FFFFF0F7\\FFFF7DF7\\FFFF7F7B5FFF7F7\\B5FFFF7F7\\B5FFFF77\\B5FFFF7F7\\EFFFF7FF7\\EFFF7FF7\\FF7FF7\\FF7FF7\\FF7\\$	7FFFFFDD7 EDFFFFFD7 7DBFFFFFD7 7DBFFFFF7 FCFFFFD7 77FF7FF7 BCFFFFF77 BCFFFFFF7 B7FFFFFFD7 E7FFFFFFD7 E7FFFFFF7 E7FFF7FF7 BFFF77DFF7	$\begin{array}{l} 7 \\ FFFF7FDF7\\ FFFFFDF7\\ 75 \\ FFFFFF7\\ 75 \\ FFFFFF7\\ 75 \\ FFFFF7\\ 75 \\ FFFF77\\ 87 \\ FFFF77\\ 87 \\ FFFF77\\ 87 \\ FFFF77\\ 87 \\ FFF77\\ 87 \\ FFF77\\ 87 \\ FFF77\\ 87 \\ FFF77 \\ FF77\\ 87 \\ FFF77 \\ FF77 $	BDFFFFFDF7 FFBFFFDF7 7CFFFFF7 BFBFFFDF7 BFBFFFFDF7 BFBFFFDFF7 BFBFFFFF7 BFBFF7FF7 EDFFFFF7 DFFFFFF7 FFBFF7DFF7 FFBFF7DFF7	BFFFFDDF7 FFFFDFF7 7FFFFDFF7 7FFFFFFDF7 BFFFFD7 BFFFFFD7 BFFFFFD7 BFFFFFFF7 ECFFFFFF7 ECFFFFFF7 ECFFFFFF7 FFFFFD7 FFFFFD7 FFFFFD7