# About the Tu-Deng Conjecture for w(t) Less Than or Equal to 10

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Abstract—Let  $k \geq 2$  be an integer, define

$$S_t^k := \left\{ (a,b) \in \mathbb{Z}^2 \middle| \begin{array}{l} 0 \leq a,b \leq 2^k - 2 \\ a+b \equiv t \pmod{2^k - 1} \\ \mathrm{w}(a) + \mathrm{w}(b) \leq k - 1 \end{array} \right\},$$

where  $t\in\mathbb{Z}, 1\leq t\leq 2^k-2$ . This paper gives the upper bound of cardinality of  $S^k_t$  when  $\mathbf{w}(t)\leq 10$ , proving that a conjecture proposed by Tu and Deng in the case.

Index Terms—Tu-Deng Conjecture, algebraic immunity, Boolean function, Hamming weight

## I. INTRODUCTION

In the design of almost every modern symmetric cipher, an imperative part is a good Boolean function, which is immune to some cryptographic attack. Boolean functions used in some cryptosystems should satisfy various cryptographic properties to resist many attacks, mainly including balancedness, large algebraic degree and high nonlinearity. In 2003, Courtois and Meier successfully proposed algebraic attacks on several stream ciphers [1]. As a result, a new criterion called algebraic immunity was imposed on cryptographic Boolean functions. Since then, several classes of Boolean functions with optimal algebraic immunity have been investigated and constructed [2]-[6]. However, the nonlinearities of most such functions are not high enough to resist fast correlation attacks. In 2008, Carlet and Feng proposed an infinite class of balanced Boolean functions with optimal algebraic immunity [7], of which the algebraic degree is optimal and nonlinearity is the highest at that time. Hence, such functions are the first class to closely satisfying practical requirements.

In 2011, in Tu and Deng's construction, a conjecture [8] was created, which is presented in Conjecture 1. The  $k \leq 29$  situation was at that time brute-forcedly validated. Based on the conjecture, some potentially good functions are constructed [8], [9]. Yet there is still no complete proof on the conjecture.

Here, for easy discussion, we define

**Definition 1.** For non-negative integer x and i, we define  $x_i$  as the i-th bit of x in its binary representation, i.e.,

$$x_i \equiv \left\lfloor \frac{x}{2^i} \right\rfloor \pmod{2},$$
  
 $x_i \in \{0, 1\},$ 

and the Hamming weight of x, w(x) is the amount of ones in its binary representation, i.e.,

$$\mathbf{w}(x) = \sum_{i=0}^{\infty} x_i.$$

Meanwhile, the length of x, len(x) is the smallest integer L such that  $2^L > x$ .

**Definition 2.** We define  $[x]_m$  as the smallest non-negative value that congruence with x modulo m, i.e.,

$$[x]_m \equiv x \pmod{m},$$
  
$$0 \le [x]_m < m.$$

When  $m = 2^k - 1$ , we can omit the value of m, and claim  $[x] = [x]_{2^k - 1}$ .

**Conjecture 1.** (Tu-Deng Conjecture [8]) Assume  $k \in \mathbb{Z}$ ,  $k \ge 2$ . For any  $t \in \mathbb{Z}$ ,  $1 \le t \le 2^k - 2$ , let

$$S_t^k := \left\{ (a,b) \in \mathbb{Z}^2 \middle| \begin{array}{l} 0 \le a, b \le 2^k - 2, \\ [a+b] = t, \\ \mathbf{w}(a) + \mathbf{w}(b) \le k - 1 \end{array} \right\}.$$

Then  $|S_t^k| \le 2^{k-1}$ .

Lots of works are done to try to get near to the conjecture [10]–[15]. In 2011, Cusick et al. proved the correction of Tu-Deng Conjecture when  $\mathbf{w}(t)=1,2;\ t=2^k-t',\mathbf{w}(t')\leq 2$  and t' is even;  $t=2^k-t',\mathbf{w}(t')\leq 4$  and t' is odd [11]. In 2012, Huang et al. presented a paper which proved the Tu-Deng Conjecture in the case of  $\mathbf{w}(t)=3$  as well as the case of  $\mathbf{w}(t)=k-3$  [12]. In 2015, Cheng et al. gave a proof of the conjecture in case of  $\mathbf{w}(t)=4$  [13]. In 2016, Chen et al. proved the case  $\mathbf{w}(t)=5$  [15].

This paper optimizes the method and go on with the conjecture, and make the amount of cases to check reasonable for a computer when  $\mathbf{w}(t) \leq 10$ . The reminder of the paper is organized as follows. Section II introduces some notations and existing results. Section III explores the upper bound of  $|S_t^k|$  in the case  $\mathbf{w}(t) \leq 10$ . Section IV concludes this paper.

# II. PRELIMINARIES

In this section, we provide some definitions and some lemmas.

**Definition 3.** Given  $a_k \cdots a_3 a_2 a_1 a_0$  and  $b_k \cdots b_3 b_2 b_1 b_0$  that  $2^k < a + b < 2^{k+1}$ , we define its carrying chains as

$$a_k \cdots a_{u_{h-1}}$$
  $a_{u_{h-1}-1} \cdots a_{u_{h-2}} \cdots a_{u_1-1} \cdots a_{u_0}$   
 $b_k \cdots b_{u_{h-1}}$   $b_{u_{h-1}-1} \cdots b_{u_{h-2}} \cdots b_{u_{1-1}} \cdots b_{u_0}$ 

, and  $u_h=k+1, u_0=0$ , where  $u_i$  contains all positions i such that  $a_{i-1}\cdots a_1a_0+b_{i-1}\cdots b_1b_0<2^i$ .

We use H(a,b) to represent the h we just used.

1

**Lemma 1.** w(a) + w(b) > w(a + b).

*Proof:* Let  $x_i = a_i + b_i$ . Since  $a = \sum_{i=0}^{\infty} a_i 2^i, b = \sum_{i=0}^{\infty} b_i 2^i$ , we know that

$$a+b = \sum_{i=0}^{\infty} x_i 2^i$$

and

$$\sum_{i=0}^{\infty} x_i = w(a) + w(b).$$

To make  $x_i \in \{0,1\}$  for each i, whenever an  $x_i$  reaches or goes beyond 2, we decrease  $x_i$  by 2, and increase  $x_{i+1}$  by 1. In this way,  $\sum_{i=0}^{\infty} x_i 2^i$  remains its previous value, and  $\sum_{i=0}^{\infty} x_i$  decreases by 1.

Since  $\sum_{i=0}^{\infty} x_i$  can't decrease infinitely, there's time when we can no longer do any move, and every  $x_i$  is in range  $\{0,1\}$ , and it's the binary expression of a+b, and  $\mathrm{w}(a+b)=\sum_{i=0}^{\infty} x_i \leq \mathrm{w}(a)+\mathrm{w}(b)$  since  $\sum_{i=0}^{\infty} x_i$  decreases from  $\mathrm{w}(a)+\mathrm{w}(b)$ .

**Lemma 2.** [13] Let i, t, k be positive integers, and  $0 \le t < 2^k - 1$ , then  $w([2^i t]) = w(t)$ .

*Proof:* If i=1, then  $2t=\sum_{i=0}^{k-1}t_i2^{t+1}$  as  $\operatorname{len}(t) < k$ , and since  $[2^k]=1$ ,  $2t\equiv \left(\sum_{i=0}^{k-2}t_i2^{t+1}\right)+t_{k-1}$ , which is a valid binary expression and just a rearrangement of the binary expression of t.

In general case,

$$w(t) = w([2t]) = w([4t]) = \cdots = w([2^{i}t]).$$

**Lemma 3.** [13] Let i, t, k be positive integers, and  $0 \le t < 2^k - 1$ , then  $\left| S_t^k \right| = \left| S_{[t2^i]}^k \right|$ 

*Proof:* Since [a+b]=t means  $[(a2^i)+(b2^i)]=[t2^i]$ , the lemma obviously satisfies.

**Lemma 4.** If a + b = t, then

$$w(a) + w(b) = len(t) + w(t) - H(a, b).$$

*Proof:* Since we can directly connect  $a_k \cdots a_{u_1} + b_k \cdots b_{u_1}$  and  $a_{u_1-1} \cdots a_0 + b_{u_1} \cdots b_0$  when H(a,b) > 1, we only prove the situation when H(a,b) = 1.

Since there's no carry to  $t_0$ , but some carry is made from  $t_0$ , we know that  $a_0+b_0=t_0+2$ , i.e.,  $a_0=b_0=1, t_0=0$ . Similarly, there's carry to  $t_{\mathrm{len}(t)-1}$ , but there's no carry from  $t_{\mathrm{len}(t)-1}$ , so  $a_0+b_0+1=t_0$ , i.e.,  $a_0=b_0=0, t_0=1$ . For other positions i, there's carry to and from  $t_i$ , so  $a_i+b_i+1=t_i+2$ , i.e.,  $t_i+1=a_i+b_i$ . Now sum up all  $a_i$ 's and  $b_i$ 's, resulting in

$$\begin{aligned} &(a_0+b_0) + (a_1+b_1) + (a_2+b_2) + \dots + (a_{\operatorname{len}(t)-1} + b_{\operatorname{len}(t)-1}) \\ &= (1+1+t_0) + (1+t_1) + (1+t_2) + \dots + (1+t_{\operatorname{len}(t)-2}) \\ &= \mathbf{w}(t) + \operatorname{len}(t) - 1 \\ &= \mathbf{w}(t) + \operatorname{len}(t) - H(a,b). \end{aligned}$$

#### III. MAIN RESULTS

**Lemma 5.** If  $len(t) + w(t) \le k + 1$ , len(t) > 1,  $t_0 = 1$ , then  $2|S_t^k| > |S_t^{k+1}|$ .

*Proof:* If  $[a+b]_{2^{k+1}-1}=t$ , then we have either a+b=t or  $a+b=t+2^{k+1}-1$ .

If  $a_k + b_k = 1$ , then  $a + b \ge 2^k$ , meaning that it's impossible that a + b = t, so  $a + b = t + 2^{k+1} - 1$ . Therefore,  $a_{k-1} \cdots a_1 a_0 + b_{k-1} \cdots b_1 b_0 = t + 2^{k+1} - 1 - 2^k = t + 2^k$ .

If  $a_k = b_k = 0$ , then  $a+b < 2^{k+1}$  and a+b = t. If  $a_k = b_k = 1$ , then  $a+b = t+2^{k+1}-1$ . Either way,  $a_{k-1} \cdots a_1 a_0 + b_{k-1} \cdots b_1 b_0 = t-a_k$ .

Notice that  $2|S_t^k| > |S_t^{k+1}|$  means that

$$2\left| \left\{ (a,b) \middle| \begin{array}{l} a+b=t \\ \mathrm{w}(a) + \mathrm{w}(b) < k \end{array} \right\} \right|$$

$$+2\left| \left\{ (a,b) \middle| \begin{array}{l} a+b=t+2^k-1 \\ \mathrm{w}(a) + \mathrm{w}(b) < k \end{array} \right\} \right|$$

$$>\left| \left\{ (a,b) \middle| \begin{array}{l} a+b\equiv t \pmod{2^{k+1}-1} \\ \mathrm{w}(a) + \mathrm{w}(b) \le k \end{array} \right\} \right|$$

$$+\left| \left\{ (a,b) \middle| \begin{array}{l} (2^k+a) + (2^k+b) \equiv t \pmod{2^{k+1}-1} \\ \mathrm{w}(a) + \mathrm{w}(b) \le k - 2 \end{array} \right\} \right|$$

$$+2\left| \left\{ (a,b) \middle| \begin{array}{l} a+b+2^k \equiv t \pmod{2^{k+1}-1} \\ \mathrm{w}(a) + \mathrm{w}(b) < k \end{array} \right\} \right|,$$

where  $0 \le a, b < 2^k$ , which is shown to have the same meaning as

$$2\left|\left\{(a,b)\middle| \begin{matrix} a+b=t\\ \mathbf{w}(a)+\mathbf{w}(b)< k \end{matrix}\right\}\right|$$

$$>\left|\left\{(a,b)\middle| \begin{matrix} a+b=t\\ \mathbf{w}(a)+\mathbf{w}(b)\leq k \end{matrix}\right\}\right|$$

$$+\left|\left\{(a,b)\middle| \begin{matrix} a+b=t-1\\ \mathbf{w}(a)+\mathbf{w}(b)\leq k-2 \end{matrix}\right\}\right|,$$

and can be converted into

$$1 + \left| \left\{ (a,b) \middle| \begin{aligned} a+b &= t-1 \\ \mathbf{w}(a) + \mathbf{w}(b+1) < k \end{aligned} \right\} \right| \\ > \left| \left\{ (a,b) \middle| \begin{aligned} a+b &= t \\ \mathbf{w}(a) + \mathbf{w}(b) &= k \end{aligned} \right\} \right| \\ + \left| \left\{ (a,b) \middle| \begin{aligned} a+b &= t-1 \\ \mathbf{w}(a) + \mathbf{w}(b) \leq k-2 \end{aligned} \right\} \right|,$$

where the 1 moved outside comes from situation (t,0) in the first element, which is excluded after the conversion because there's no non-negative integer b such that b+1=0. Since  $w(b)+1 \ge w(b+1)$ , we know that

$$\begin{cases} (a,b) & a+b+1=t \\ w(a)+w(b+1) < k \end{cases}$$

$$\supseteq \begin{cases} (a,b) & a+b=t-1 \\ w(a)+w(b) \le k-2 \end{cases},$$

and the equation has the same meaning as

$$1 + \left| \left\{ (a,b) \middle| \begin{aligned} a+b &= t-1 \\ \mathbf{w}(a) + \mathbf{w}(b+1) &< k \\ \mathbf{w}(a) + \mathbf{w}(b) &> k-2 \end{aligned} \right\} \right|$$
$$> \left| \left\{ (a,b) \middle| \begin{aligned} a+b &= t \\ \mathbf{w}(a) + \mathbf{w}(b) &= k \end{aligned} \right\} \right|.$$

If there is a pair of integers (a,b) satisfying that a+b=t, w(a)+w(b)=k, then by Lemma 4,  $\operatorname{len}(t)+w(t)=w(a)+w(b)+H(a,b)$ . Also, since  $t_0=1$  and  $\operatorname{len}(t)>1$ , we know that  $H(a,b)\geq 2$ , and  $\operatorname{len}(t)+w(t)\geq w(a)+w(b)+2=k+2$ , which is a conflict to requirement, and therefore

$$\left| \left\{ (a,b) \middle| \begin{array}{l} a+b=t \\ \mathbf{w}(a)+\mathbf{w}(b)=k \end{array} \right\} \right| = 0,$$

and the inequality obviously apply.

Therefore, we can get that

**Lemma 6.** Given n > 1, if for every integers reading

$$\underbrace{00\cdots 0}_{z_n} 1 \cdots \underbrace{00\cdots 0}_{z_2} 1 \underbrace{00\cdots 0}_{z_1} 1, \tag{1}$$

where  $z_i < n$ , Conjecture 1 with  $k = 1 + z_1 + 1 + z_2 + \cdots + 1 + z_n$  holds, then this conjecture also holds for all non-negative integers t weighted n.

*Proof:* Given any integer t weighted n, we can write it as

$$\underbrace{00\cdots 0}_{z_n}1\cdots\underbrace{00\cdots 0}_{z_2}1\underbrace{00\cdots 0}_{z_1}1\underbrace{00\cdots 0}_{z_0}.$$

- i) If  $z_0 > 0$ , then by lemma 3  $\left|S_t^k\right| = \left|S_{[t2^{n-z_0}]}^k\right|$ , and we can replace the t with  $[t2^{n-z_0}]$ . It clears  $z_0$ .
- ii) If  $z_n \ge n$ , then  $\text{len}(t) + \text{w}(t) = k z_n + n \le k$ , making  $2 \left| S_t^{k-1} \right| < \left| S_t^k \right|$ , and we can reduce k by one.
- iii) If  $z_0=0, z_i\geq n$  for some  $i\neq n$ , then we can replace the t with  $[t2^{z_n+1}]$ , making  $z_{i+1}\geq n$  and remaining  $z_0=0$ . We can just repeat till  $z_n\geq n$  and apply operation ii).

Since k can't reduce infinitely, sooner or later t reads as the format in Expression (1) and it is known that the conjecture holds.

Lemma 5 reduces the range we need to test from an infinite class of pairs (k,t) with  $\mathrm{w}(t)=n$  to  $n^n$  small instances. With a computer, we can easily work out all such instances for  $2 \leq \mathrm{w}(t) \leq 10$ , and some result can be found in the appendix. Since the case that  $\mathrm{w}(t) < 2$  is proved [11], we can get that

**Theorem 1.** Conjecture 1 holds when  $w(t) \le 10$ .

For further researching, it's likely that we need the exact value of cases not listed in Lemma 6. Therefore, we need to know the exact relationship between operation ii).

**Lemma 7.** If  $\operatorname{len}(t) + \operatorname{w}(t) > k+1, \operatorname{len}(t) > 1, t_0 = 1$ , then  $2 \left| S_t^k \right| = \left| S_t^{k+1} \right| + 1$ . If  $\operatorname{len}(t) + \operatorname{w}(t) = k+1, \operatorname{len}(t) > 1, t_0 = 1$ , then  $2 \left| S_t^k \right| = \left| S_t^{k+1} \right| + 1 + 2^{k+1-2\operatorname{w}(t)}$ .

Proof: Remind the proof for Lemma 5. We can get that

$$2|S_{t}^{k}| - |S_{t}^{k+1}|$$

$$=1 + \left| \begin{cases} (a,b) \middle| w(a) + w(b+1) < k \\ w(a) + w(b) > k - 2 \end{cases} \right|$$

$$- \left| \begin{cases} (a,b) \middle| a+b=t \\ w(a) + w(b) = k \end{cases} \right|$$

$$=1 + \left| \begin{cases} (a,b) \middle| a+b=t-1 \\ w(a) + w(b+1) < k \\ w(a) + w(b) > k - 2 \end{cases} \right|.$$
(2)

By Lemma 4,  $\operatorname{len}(t-1) + \operatorname{w}(t-1) = \operatorname{w}(a) + \operatorname{w}(b) + H(a,b)$ . Since  $s_0 = 1$ , we can easily see that  $\operatorname{len}(t-1) = \operatorname{len}(t)$ ,  $\operatorname{w}(t-1) = \operatorname{w}(t) - 1$ ,  $H(a,b) \ge 1$ , and therefore  $\operatorname{len}(t) + \operatorname{w}(t) \le \operatorname{w}(a) + \operatorname{w}(b) + 2$ .

If  $\operatorname{len}(t) + \operatorname{w}(t) > k+1$ , then it's a direct contrary, and Equation (2) equals to 1. If  $\operatorname{len}(t) + \operatorname{w}(t) = k+1$ , then to make  $\operatorname{len}(t-1) + \operatorname{w}(t-1) = \operatorname{w}(a) + \operatorname{w}(b) + H(a,b)$  we have to let H(a,b) = 1 and  $\operatorname{w}(a) + \operatorname{w}(b) = k-1$ .

Since carry applies everywhere, we know that

$$a_0 + b_0 = 2,$$
  
 $a_i + b_i = 1 + t_i \text{ for } 0 < i < \text{len}(t) - 1,$   
 $a_{\text{len}(t)-1} + b_{\text{len}(t)-1} = 0,$ 

and now we're going to get the amount of elements.

Since  $a_0+b_0=2$ , there's no choice but  $a_0=b_0=1$ . Similarly, since  $a_{\operatorname{len}(t)-1}+b_{\operatorname{len}(t)-1}=0$ , we're forced to have  $a_{\operatorname{len}(t)-1}=b_{\operatorname{len}(t)-1}=0$ . For the rest positions, if  $t_i=0$ , then  $a_i+b_i=1$ , meaning there are two choices  $a_i=0,b_i=1$  and  $a_i=1,b_i=0$ ; If  $t_i=1$ , then  $a_i+b_i=2$ , and we only have  $a_i=b_i=1$ . It's easily shown that all numbers constructed here matches all conditions.

Therefore, there are  $2^{\text{len}(t)-\text{w}(t)}$  possible pairs of (a,b), where len(t)-w(t) is the appearances of zeros in t. As given, len(t)+w(t)=k+1, and thus there are  $2^{k+1-2\,\text{w}(t)}$  possibilities.

TABLE I t for largest  $\left|S_t^k\right|$  when k is large enough

w(t)	$\max \frac{\left S_t^k\right  - 1}{2^{k-1}} $	Beginning $k$	A possible $t^1$
2	.9	5	5
3	.D	7	D
4	.DC	9	1B
5	.E	12	6B
6	.E48	14	DB
7	.E82	16	1DB
8	.EBC8	18	3B7
9	.ECBA	20	777
10	.EE17	23	1DB7

1 Numbers are represented in hexadecimal.

With such result, we can further list the maximum size of the set with given k and w(t). We find that when k goes to infinity, a same t always make  $\left|S_t^k\right|$  largest, which is listed in Table I. Another fact is that when k is smaller, to reach the largest  $\left|S_t^k\right|$ , it's possible to match the format as Expression (1), and the exact maximum size can be found in the appendix.

# IV. CONCLUSION

Boolean functions constructed based on Tu-Deng Conjecture perform very well in some cryptographic properties. It is a quite meaningful task to complete the proof of the conjecture. With the help of computer, we calculate all kinds of results we need. From the results, we proved that Tu-Deng Conjecture is correct under the condition  $w(t) \leq 10$ , and furthermore we get the upper bound for candinality of  $S_t$  when  $w(t) \leq 10$ .

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tical sensor system, information security, image processing, and machine learning.

## APPENDIX

$\mathbf{w}(t)$	k	$\frac{\text{Largest } \left  S_t^k \right }{\max \left  S_t^k \right }$	$\begin{array}{c c} \text{with } t \text{ m} \\ \hline \text{a } t \end{array}$	w(t)	$\overline{k}$	$\max  S_t^k $	a t	$\mathbf{w}(t)$	k	$\max  S_t^k $	a t
2	3	4	10	6	23	342001	511145	8	9	100	10000000
2	4	8	11	6	24	681001	511155	8	10	200	10000001
3	4	8	100	6	25	CE4001	511255	8	11	400	10001010
3	5	10	101	6	26	19B8001	521255	8	12	7A0	20001100
3	6	1C	201	6	27	3328001	521355	8	13	F00	30010100
3	7	33	211	6	28	65D0001	511555	8	14	1DA8	40010100
3	8	65	212	6	29	CB40001	512555	8	15	3B10	50010100
3	9	C9	222	6	30	19540001	522555	8	16	75EE	60010100
4	5	10	1000	6	31	3041042	505555	8	17	EBCB	70010100
4	6	20	1001	6	32	A082084	515555	8	18	1CBA5	70010101
4	7	3C	2010	6	33	11E82085	525555	8	19	39009	70101101
4	8	70	3010	6	34	21C82087	535555	8	20	70E11	70101102
4	9	D7	2021	6	35	4188208B	545555	8	21	E0021	70110103
4	10	1A5	3111	6	36	81082093	555555	8	22	1BE041	70101104
4	11	341	3202	7	8	80	1000000	8	23	37A781	70101105
4	12	661	3113	7	9	100	1000001	8	24	6F4001	70101106
4	13	C81	3222	7	10	200	1001010	8	25	DE7401	70101107
4	14	18C1	3223	7	11	3D0	2001100	8	26	1B9C801	71011017
4	15	3101	3233	7	12	768	3001100	8	27	36EB001	70111027
4	16	6101	3333	7	13	E9C	4001100	8	28	6D82001	71111117
5	6	20	10000	7	14	1D0E	5001010	8	29	DA04001	71111127
5	7	40	10001	7	15	3A0B	6001010	8	30	1B248001	70111057
5	8	78	10101	7	16	70A5	6010101	8	31	7AD1112	32333333
5	9	EC	20110	7	17	E089	6011101	8	32	1CAA2224	33333333
5	10	1CA	30110	7	18	1BB91	6011102	8	33	2F6D0845	40144444
5	11	383	40110	7	19	37221	6011103	8	34	5A5D0847	40244444
5	12	6C5	41011	7	20	6DBC1	6011104	8	35	B091084B	40344444
5	13	D49	40112	7	21	DB201	6011105	8	36	AF408x13	40444444
5	14	1A71	41103	7	22	1B5E01	6011106	8	37	94C84x14	41444444
5	15	3441	40114	7	23	362401	6101116	8	38	840C2x15	42444444
5	16	6781	41114	7	24	6C0801	6111116	8	39	F6F42x15	43444444
5	17	CD81	42123	7	25	D69001	6111126	8	40	EEB21x16	44444444
5	18	19901	42124	7	26	1AB2001	6111136	8	41	BBF04x17	50355555
5	19	32801	41144	7	27	3538001	6111146	8	42	B9F82x18	50455555
5	20	64801	41244	7	28	6A4C001	6111156	8	43	B9741x19	5055555
5	21	C7801	42244	7	29	D478001	6111166	8	44	9C020x20	51555555
5	22	18D001	42344	7	30	1A690001	6111266	8	45	8AE10x21	5255555
5	23	316001	42444	7	31	5B88422	4044444	8	46	82708x22	5355555
5 5	24 25	624001	43444 44444	7 7	32 33	13210844	4144444 4244444	8	47 48	FCA08x22	5455555 5555555
5 6	25 7	C38001		7	33 34	21D90845 3F510847	4244444	8	48 49	F8B04x23	60566666
6	8	40 80	100000 100001	7	34 35	7A81084B	4344444	8	50	BEE20x24 BE610x25	60666666
6	9	100	101010	7	36	BE082093	5045555	8	51	9E808x26	61666666
6	10	160 1E0	200110	7	30 37	BD441x13	5055555	8	52	9E808x20 8E804x27	62666666
6	11	3A4	300110	7	38	9E820x14	5155555	8	53	87102x28	63666666
6	12	72E	401010	7	39	9E820x14 8D410x15	5255555	8	54	82681x29	64666666
6	13	E4B	501010	7	39 40	84E08x16	5355555	8	55	80440x30	65666666
6	13	1BE5	510101	7	40	80D04x17	5455555	8	56	FE840x30	66666666
6	15	3709	501101	7	42	FD904x17	5555555	8	57	C0004x31	7077777
6	16	6C91	501102	7	43	C0010x18	6066666	8	58	9FE02x32	71777777
	17	D861			43 44	9FC08x19	6166666			9FE02X32 8FD01x33	7277777
6	18	1AF81	501104 501105	7 7	44 45	9FC08X19 8FA04x20	6266666	8	59 60	87C80x34	7377777
6 6	18	35301	501105	7	45 46	8FA04x20 88102x21	6366666	8	61	87C80x34 83C40x35	7477777
6	20	6A201	511115	7	46 47	83881x22	6466666	8	62	83C40x35 81C20x36	7577777
6	21	D2C01	511115	7	48	81840x23	6566666	l	63	81010x37	7677777
								8			7777777
6	22	1A2801	511135	7	49	80820x24	6666666	8	64	80808x38	777777

9 10 200 100000000 9 64 C0008x38 706777777 10 47 818x4x24 414444444 9 11 400 100000001 9 65 BF40x39 707777777 10 48 FCR04x24 4244444444 9 12 800 100001010 9 66 9F30x40 717777777 10 51 C0B30x27 4344444444 9 14 1E20 20010100 9 67 8F20x41 727777777 10 50 F47A L244444444 9 14 1E20 20010100 9 68 87180x42 737777777 10 51 COB30x27 501555555 9 15 3890 40001000 9 70 81120x44 757777777 10 51 C0B30x27 501555555 9 16 7698 500010100 9 70 81120x44 757777777 10 53 B446x29 5035555555 9 17 FCD8 60010100 9 70 81120x44 757777777 10 53 B446x29 5035555555 9 17 FCD8 60010100 9 72 80008x46 777777777 10 53 B446x29 5035555555 9 17 FCD8 80010100 9 72 80008x46 777777777 10 55 B1AA1x31 503555555 9 17 FCD8 80010100 9 72 80008x46 777777777 10 55 B1AA1x31 503555555 9 12 F6A09 80101100 9 74 9F40x47 81888888 10 57 861B0x33 525555555 9 22 F6A09 80101100 9 73 FEB0x48 8288888 10 57 861B0x33 525555555 9 22 F6A09 80101100 9 73 81E30x48 82888888 10 57 861B0x33 525555555 9 22 F6A09 80101100 9 77 85E20x49 83888888 10 57 F6A0833 53555555 9 22 F1B0x1 80101100 9 77 85E20x59 84888888 10 57 F6A0833 53555555 9 24 70F241 80101100 9 77 85E20x59 84888888 10 57 F6A0833 53555555 9 24 70F241 80101100 9 77 85E20x59 84888888 10 57 F6A0833 53555555 9 24 70F241 80101100 9 77 85E20x59 84888888 10 65 F6A0033 605666666 9 25 F1B0x11 80101100 9 77 80068x52 86888888 10 65 F6A0033 605666666 9 26 F1B0x11 33333333 10 14 F1F00 1000000001 10 66 8B1E4x41 6266666666 9 20 FF000000000000 10 66 8B1E4x41 6266666666 9 20 FF00000000000 10 66 8B1E4x41 6266666666 9 20 FF000000000000 10 67 800600000000 10 67 80060000000000000000000000000000000	w(t)	k	$\max  S_t^k $	a t	w(t)	k	$\max  S_t^k $	a t	w(t)	k	$\max  S_t^k $	a t
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9 14 1820 20010100 9 68 8718042 37777777 10 50 E47A1x26 4444444444	9	11	400	100000001	9	65		70777777	10	48	FCB04x24	424444444
9 14 1E20 200101100 9 68 87180At2 737777777 10 51 C0B30x27 501555555   9 16 7698 500010100 9 70 81120x44 757777777 10 53 B416Ax29 502555555   9 16 7698 500010100 9 70 81120x44 757777777 10 53 B416Ax29 502555555   9 17 ECD8 60100100 9 71 80210x45 757777777 10 53 B416Ax29 503555555   9 18 1D97E 700100100 9 71 80210x45 757777777 10 55 B1AA1x31 503555555   9 19 3B2EB 800100100 9 73 C0201x46 80888888 10 56 96420x32 51555555   9 20 749E5 800101010 9 74 9F00x47 818888888 10 56 96420x32 515555555   9 21 E6A09 801011001 9 75 8FE80x48 828888888 10 58 FBAD0x33 525555555   9 22 1C9611 801011002 9 76 87E80x49 828888888 10 58 FBAD0x33 525555555   9 23 38B821 810111101 9 77 83E20x50 848888888 10 58 FBAD0x33 525555555   9 24 70FE41 801010104 9 78 81E10x51 85888888 10 61 BBD0x33 5255555555   9 25 E1B081 801010105 9 79 80E08x52 868888888 10 61 BBD0x33 603666666   9 25 E1B081 801010107 9 81 80202x54 88888888 10 61 BBD0x33 603666666   9 26 C1C31F01 801010106 9 80 80604x53 87888888 10 62 BAAC0x37 6046666666   9 27 3861801 801010107 9 81 80202x54 88888888 10 63 B946x34 616666666   9 28 70C1801 801011018 10 12 800 1000000001 10 66 8B1E4x41 666666666   9 29 DFCY001 801011018 10 12 800 1000000001 10 66 8B1E4x41 666666666   9 30 1BE92001 810111018 10 13 1000 1000000001 10 66 8B1E4x41 666666666   9 31 A881112 301333333 10 14 1F00 1001001001 10 70 F8780x44 666666666   9 33 48472227 303333333 10 16 78C0 301010100 10 77 BE780x44 666666666   9 34 84D72227 3133333333 10 17 EF50 4001010100 10 77 BE780x44 666666666   9 35 4F472225 303333333 10 18 1DD20 501010100 10 77 BE780x44 666666666   9 36 1680x15 40444444 10 21 EE185 8001010100 10 77 BE780x44 7666666666   9 37 4F472225 303333333 10 18 18 1DD20 501010100 10 77 BE780x44 666666666   9 37 4F472225 303333333 10 18 18 1DD20 501010100 10 77 BE780x44 666666666   9 38 6F60x15 40444444 10 22 EE185 8001010100 10 77 BE780x44 7677777777   9 38 6B00x17 40344444 10 22 EE185 8001010100 10 77 BE780x45 7677777777   9 38 6B00x17 403444444 10 22 EE185 8001010100 10 77 BE780x45 7677777777   9 38 700000000000 1	9	12	800	100001010	9	66	9F302x40	71777777	10	49	EC932x25	
9 15 3B89 400010100 9 69 83140x43 747777777 10 52 8B4A8x28 2032555555   9 16 7698 500010100 9 70 81120x44 75777777 10 54 82272x30 503555555   9 17 ECD8 600100100 9 71 80210x45 767777777 10 54 82272x30 503555555   9 18 1D97E 700100100 9 72 80008x46 77777777 10 54 82272x30 503555555   9 19 3B2EB 800100100 9 73 C0201x46 808888888 10 56 96420x32 515555555   9 20 749E5 800101010 9 74 9FF00x47 818888888 10 56 96420x32 515555555   9 21 E6A09 801011001 9 77 8FE00x47 818888888 10 58 FBAD0x33 535555555   9 22 1C9611 801011002 9 76 87E40x49 838888888 10 59 F36A8x34 \$55555555   9 22 1S9611 801011001 9 77 88 1E10x51 85888888 10 59 F36A8x34 \$55555555   9 23 38B821 81011101 9 77 88 1E10x51 85888888 10 60 EF24x35 55555555   9 24 70FE41 801010104 9 77 88 1E10x51 85888888 10 62 BA20x37 604666666   9 26 1C31F01 801010106 9 80 80604x53 878888888 10 62 BA20x37 6046666666   9 27 3861801 801010108 10 11 400 1000000000 10 65 9B288x40 606666666   9 28 70C1801 801010108 10 11 400 1000000000 10 65 9B288x40 606666666   9 29 DFC9001 801011018 10 12 800 100000000 10 66 8BE4x41 6266666666   9 30 1BE92001 810111018 10 12 800 100000000 10 66 8BE4x41 6266666666   9 31 A881112 303333333 10 14 11000 100000101 10 67 83062x42 6466666666   9 32 28542224 302333333 10 14 1600 100000010 10 69 FA101x43 656666666   9 34 84D72227 3133333333 10 16 78C0 301010100 10 70 R880x4 6666666666   9 35 4F472225 303333333 10 16 FF50 4001010100 10 77 R82644 7007777777   9 37 FF50 4001010100 10 77 R82644 7007777777   9 38 FF80 40444444 10 21 EF185 8001010100 10 77 R8264 7007777777   9 39 AFFE116 40244444 10 22 FE185 8001010100 10 77 R82648 707777777   9 41 AA5E8N18 404444444 10 22 FE185 8001010100 10 77 R82648 707777777   9 42 P084819 41444444 10 22 FE185 8001010100 10 77 R82648 7077777777   9 43 FF60 4044444 10 22 FE185 8001010100 10 77 R82648 7077777777   9 44 FF60 4044444 10 22 FE185 8001010100 10 79 FF80 405 8888888   9 50 9084819 41444444 10 22 FE185 8001010100 10 79 FF80 605 88888888   9 51 8000x30 4006666666 10 41 AB2000000000000000000000000000000000000	9	13	F80	200100100	9	67	8F201x41	72777777	10	50	E47A1x26	444444444
9 16 7698 500010100 9 70 81120x44 757777777 10 53 84164x29 5035555555 9 17 ECD8 60100100 9 71 80210x45 767777777 10 55 B1AA1x31 505555555 9 18 1D7E 70010100 9 72 80008x46 777777777 10 55 B1AA1x31 505555555 9 19 3B2EB 800100100 9 73 8008x8588 10 56 82020x32 515555555 9 12 1 E6A09 801011001 9 75 8FB30x48 828888888 10 57 861B0x33 525555555 9 21 E09611 801011002 9 76 87840x49 83888888 10 57 861B0x33 525555555 9 22 1079611 801011002 9 76 87840x49 83888888 10 59 F5A6x8x3 4345555555 9 22 1079611 801011002 9 76 87840x49 83888888 10 59 F5A6x8x3 4345555555 9 24 70FE41 801011004 9 78 81E10x51 85888888 10 59 F5A6x8x3 4345555555 9 24 70FE41 801011004 9 78 81E10x51 85888888 10 59 F6A6x34 5455555555 9 24 70FE41 801010105 9 77 80E08x52 868888888 10 60 EF824x35 5555555555 9 24 70FE41 801010107 9 81 80202x54 88888888 10 61 B040x38 605666666 9 26 70C1801 801010108 10 11 400 1000000000 10 65 BAAC0x37 6046666666 9 27 70C1801 801010108 10 11 800 12 800 1000000000 10 66 8B1E3x44 6266666666 9 30 B1E92001 801011018 10 12 800 1000000001 10 66 8B1E3x44 6266666666 9 31 A881112 801333333 10 16 78C0 301010100 10 67 8F80x44 6266666666 9 31 A881112 801333333 10 16 78C0 301010100 10 70 FA011x43 656666666 9 31 A88112 301333333 10 16 78C0 301010100 10 70 F8780x44 6666666666 9 34 8472227 313333333 10 16 78C0 301010100 10 77 BEC08x45 7067777777 9 36 DFP31x13 33333333 10 17 FE550 4001010100 10 77 BEC08x45 7067777777 9 36 DFP31x13 33333333 10 18 B0D02x 5001010100 10 77 BEC08x46 7067777777 9 38 B8662x15 401444444 10 22 EE185 8001010100 10 77 BEC08x46 7067777777 9 40 ABDB0x17 403444444 10 22 EE185 8001010100 10 77 BEC08x46 7067777777 9 40 ABDB0x17 403444444 10 22 EE185 8001010100 10 77 BEC08x46 7067777777 9 42 90E84x19 414444444 10 22 EE185 8001010100 10 77 BEC08x46 7067777777 9 42 90E84x19 414444444 10 22 EE185 8001010100 10 77 BEC08x46 7067777777 9 42 90E84x19 414444444 10 22 EE185 8001010100 10 77 BEC08x46 7067777777 9 42 90E84x19 40444444 10 22 EE185 8001010100 10 79 FEA0X52 7677777777 9 42 FEA0X52 505555555 10 30 EE1864 1000000000 10 70 BEC08x46	9	14	1E20	200101100	9	68	87180x42	73777777	10	51	C0B30x27	501555555
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9 58 9CD88x33 616666666 10 41 C1D64x18 4004444443 10 95 83B0Ax67 9499999999 9 59 8D004x34 626666666 10 42 C1C44x19 4004444444 10 96 82008x68 959999999 9 60 85902x35 636666666 10 43 B3C22x20 4014444444 10 97 80F04x69 969999999 9 61 80E81x36 646666666 10 44 ABDC1x21 4024444444 10 98 80702x70 979999999 9 62 FD681x36 656666666 10 45 A7D98x22 4034444444 10 99 80301x71 989999999 9 63 FAB40x37 666666666 10 46 A63F0x23 4044444444 10 10 80100x72 9999999999	9	57		60666666	10				10	94		939999999
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9 62 FD681x36 656666666 10 45 A7D98x22 4034444444 10 99 80301x71 9899999999 9 63 FAB40x37 666666666 10 46 A63F0x23 4044444444 10 100 80100x72 9999999999	9	60	85902x35	63666666	10	43	B3C22x20	4014444444	10	97	80F04x69	9699999999
9 63 FAB40x37 666666666 10 46 A63F0x23 4044444444 10 100 80100x72 9999999999	9	61	80E81x36	64666666	10	44	ABDC1x21	4024444444	10	98		9799999999
			FD681x36	656666666			A7D98x22		10	99	80301x71	9899999999
	9	63			10	46			10	100		

Numbers in columns  $\max |S_t^k|$  are represented in hexadecimal, where "x" with a decimal number r means multiply by  $2^r$ , and maybe plus a positive integer smaller than  $2^r$ .

Numbers in columns t are represented as a string  $z_n \cdots z_2 z_1$ .