

# **Sane Algorithm for Secure Hashing**

## **Description of SASH-1280**

v1.0

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# 1. INTRODUCTION

An n-bit hash is a map from arbitrary length messages to n-bit hash values. An n-bit cryptographic hash is a n-bit hash which is one-way and collision-resistant. Current SHA hashes are of length 256, 384 and 512 bits, and therefore can provide no more than 128, 192 or 256 bits of security, respectively, against collision attacks. I have the feeling that should-be 256 bits of security is not enough in the long run.

SASH-1280 is a 1280-bit hash that is based on SHA and should provide 640 bits of security against collision attacks. It accepts messages of maximum length of 1 Yib (yobibit) minus 1 bit, that is, approx. 151 ZB (zetabyte).

With 64-bit CPUs coming into the market and processing powers rising, the hash computation time may be raised. SASH-1280 uses 10, instead of 8, registers and a more sophisticated compression function, therefore takes longer to compute. That provides more security when confronted with a brute-force attack.

## 2. DESCRIPTION

The message is padded in such way that its length is a multiple of 2048bits and the divides the message into 2048-bit message blocks. Last 80 bits of the last message block are used to store the length (in bits) of the original message. Intermediate hash values are initialized with the initial hash values and then encrypted using each message block as a key. Finally, intermediate hash values are concatenated to obtain SASH-1280 hash of the message.

All values are stored and processed in big-endian notation and all registers are 128-bit wide.

### 2.1. Notation

#### 2.1.3. Operations

$\neg$	bitwise complement (negate)
$\wedge$	bitwise AND
$\oplus$	bitwise XOR
$+$	modulus $2^{128}$ addition
$*$	multiplication
$\gg_n$	right shift by n bits
$\hat{c}_n$	right rotate by n bits
$\&$	concatenate

#### 2.1.2. Variables and constants

$\underline{X}_b^{(s)}$	X, in base b, which has exactly s bits
M	message to be hashed
$M_n^{[i]}$	bits $128*i, 128*i+1, \dots, 128*i+127$ of $M_n$
$H_n$	intermediate hash registers
$B_n$	expanded message blocks
R	the final hash value

## 2.2. Constants

### 2.2.1. Initial hash values

Initial hash values are 128-bit words  $I_0, \dots, I_9$ :

```
I0 = c2230d75cce92d4a43c840ec1c3eb998
I1 = dd0721a872ab5d9d1f32715fbb39e48c
I2 = 26bed1a981976df68768f448aef13131
I3 = 3988a32b9eb6f495d89ce92d003b7734
I4 = b14f50ef7f295622504b6bae54d2d139
I5 = 72ea1e8090bdeca9ca22eebb04b00518
I6 = 651795cb8dda6c6167d4fbf876774eaf
I7 = a9d884f8ab76462d53875cdf51d36f5
I8 = e8d3a3f7d895a25b820e3af6f0ab5b29
I9 = c096111daa8c06e6e7d61d3af8fb7384
```

These values are obtained by taking 128 bits, starting at the 5<sup>th</sup> bit, of the fractional parts of the 5<sup>th</sup>-roots of the first 10 primes – 2, 3, 5, 7, 11, 13, 17, 19, 23, 29.

### 2.2.2. Constant keys

SASH-1280 uses a sequence 128-bit words  $K_0, \dots, K_{127}$  (the top word in the right hand column is  $K_1$ ):

```
438da575945a21bb22041308befe6e67      9a0ae3e569e23e866737fdcfca109d770
64c1e4c47db36588cf17736e2f8c46ac      c3d318b8146148bbc779676c914fb71a
771badd1aff50dae435817189089cce6      6ceae5d139cb3b851c65d50dfaed995a
4bedda5818d66dd7ab0f26b54d482030      91f30fe0fb3ba2b084ec9b6201500294
58ce9e960d88950c9f528579f2576297      d50e5310b437f6cbf1911ea239b8401b
10f1d489065ad20402efd636135923ed      bc895d846b0d0e5497014e1c609a71ad
28d2ef6e08c14ed0a87ad0faf870b245      c326a57fd0f2b29c2e3e28a4d17461ed
839a8c83f4b0ff6ff02a25f39d8873f6      dec6344d8a5ccfd291e003949d8844af
0b344490f81c304b31b54255eb30b079      61e3b804eb25205c54ff02235684575f
8c31ef2bb265e011ae70885610b26e42      ded8f10ee416f2a0bbec943e4dd83cbc
eda71b8197544dfa92074ac8d2388408      3650615de69a6254d1ceb992368b6f28
9fd15c7e60ce93b44f1faf921974541a      c21b2a1e91bb70cd61108cb8186aae5a
6774ee061abf15e651cfc06975be8ede      8761428ed70142900fe349ed0385cb29
e50586b173dc0f480ace71e637834987      3fa4fd3baf7a04ca20134029a179cb81
7a7be0bbeca8f450bc2a5cf9e3e3bda8      d0845b5f10242261d7828fcc944f0843
24078ea7af848b193bd0fc87e73212c9      3f55847690037b2cd8afd927c0e81e6f
c418f2f3d94b46a2add4eaabaeeef93e5      ddeeba44ec86bfff1bf2eededae0a7397
10ebeed95567e5c23c94e12a2a357f9a      2a158bd17b003c675e6589e3faa6fd70
bca97ee4e18ac7bca7253dabfa28b7a6      4842c5d0ed2db188b56b1994baf4d01a
755d1e1233e4837c330bac472729dfe6      8ba906df2d5caed53d4c034c0d1c40f4
b7c1d0f6e66c0c30e75af706fa9aead      f8b368f9b19164ef1a3c57e6737a35ff
0e09cd2017a898395a01a418c37fe62e      7680946d4544bc91e93da73e9c693656
b37af2b8f164ca31e4e18dd71951695f      ef40002890cfa32bb24b24c556343d30
29dcb7a5edfc56feafba28adcf5200d7      3d268fb3907d91ef39d29f6339e0cb22
764af2d989b9bc12808fd93a63e94838      9bcd08f44743d675d8ca2ba3dbc92bf9
ae62379ddc44689e1ab6a50e0d885285      09a48891d187576d88c8a633cfa8661e
85052b183c338fac3643070886474c11      a762692aa166f809ba4b4d1e9d4ec40d
b86cb7d42a3b5d676f04030b635dcbd9      da3a21b241a5da4a11709d203e0ef7a8
4db9dc68b459e86f694d2e6b55a6aa8d      7df2941ad645d6d75d02f9428f48e190
ccb49a2f3af11af18868e28df17cbc45      dc391fd71fd1aa256442e9015fc6d40d
fb07fa65f346e4014084e94eb52c1b1f      28afd0c5193b9679d2eb3963f74aa786
```

648ddcf170bb13718fad7a398ce6eb23  
bc4a72de939af55f4edb5d269ef6454e  
039aa5c14e0d324afce18d04c1073845  
572274a417504370d4e1db656bc9e5bd  
d07fb6c14b3ab186ed84cfd93df9d733  
1ef2d6ab72413621b038e99c19577263  
5236ef177396fc91b62262c633072959  
912ec9796874e5d20f3ffebc0a94a139  
db2d4da58ce4b849af22ba56b45ccd9f  
ff8e8cbcd4d8b99c2b9135b5ad075292  
75ff46fc136f84516caf89ef374ea4bd  
bb1314ad6d99b15233e988dffecbfd71  
f38f46d7253aeafa671cd349a7134d47  
410fc8f9742c16672711ace22ad15427  
c1e0dc39a95621844ceb48d91e2913cd  
15171207f6ca31ef4ed2171d8c00cf55  
3df039ad7dc4d32f038d655f0482880c  
8e2f3716e1cc8b61824419c72ddf722e  
c925ca472328ab0604e421167bcee4f5  
efe5792baf77f44762f0e41ae2fd6c04  
1fb8b0441ae5f1d01fdc2f1991a4ced8  
619287073635fef88b520ee8b3f1a437  
9906d489258958f9cba40a054df8ee4d  
c690a61ccb7590e5ea5f0c36472e3b48  
ea913c372648bda6c34fd4dc0bbe1abb  
317725946730c12206a27d44a5f9357d  
6e552bdfc84e9bfbf2f239d0d8f49e9  
bb0e5e651dff1cf78d0112b826ed60a3  
0620b4c17596476dc8ff6a1790bb1bea  
374b911d5dedcd598fd5a6b01a5d9fd1  
67c870ea8b94d89abfb3e7ee660397cc  
8faf4da4831f69b8ca8c84d0529ac13f  
befa5b14e3c946e27c2f913365af3adb

90b9947ecd11069f25d642df80dc05b1  
d901e8c1546af37947e4b4fb1f5c245d  
3b8832e6c1469cbdd00e6f87539c6146  
8da395f9f538ad1d89bfae8f894ab1bd  
ddb4da8a40ebcb1baa88d95916d1dc57  
2bd750340700a12c78935138a590c884  
6b8c457dee39cc4e17684d865c532c7e  
c2b2953a5481cda242d4ce23583b4f8b  
e7593426c16b28c712399713c5e41243  
47216bd6f2d08ae746aa649b6672ab18  
8d2efa106d673f7866338db84e217cfb  
d1c8b4e1a50655646de9fed26294e3a0  
3619823e2fa6d0269a49d2ed2c64fdfb  
a222a8bd400b667e431073dadbd3bd7d  
f6204ae4ff98b40a9a061be9d09f1efe  
33c5c45d712f61ee5009a550b12a696a  
5c40fe075b1432328d3e2bc0262a197a  
abcb3b0895d3a7b61c6d49b47a50d66e  
d2e04ee2911259b089ff3df6c22deab3  
0cabf56fd9d874d1b410bdf877460e28  
2934e6269b63a91e1006bfc30055dbc8  
8fd8a319835dada6e420b9f0e366dc43  
ab507ae469b1998de00446212f16c8c3  
e19a1704f17b4dc3d5b0da3644b05615  
1fe06c2b4e33427644552549ff6745e1  
4baea97a1ae81d14077f9e7aebad59e4  
992a58f3a3fecc2e43f3a11f6ece5e5c  
e4f62a0243920e2ebd2a863bca6c00fb  
1ecc36f25a4db4af2f3adb96ee642a06  
478843ec25a6323af4faa89b51000ea9  
7fc73eb2d35364470fcc72c19f19cdc8  
af48aec49cb8e4a02382301b21b81b2b  
f55d4bbd7a8cda09d24c6e378a920f0d

These values are obtained by taking 128 bits, starting at the 5<sup>th</sup> bit, of the fractional parts of the 7<sup>th</sup>-roots of 128 subsequent primes – 31, ..., 787.

### 2.3. Function definitions

$$\Psi_0(x) = \partial_3(x) \oplus \partial_{17}(x) \oplus \gg_9(x)$$

$$\Psi_1(x) = \partial_{111}(x) \oplus \partial_6(x) \oplus \gg_{29}(x)$$

$$\Theta(x) = \partial_{24}(x) \oplus \partial_{74}(x) \oplus \partial_{81}(x)$$

$$\Xi(x) = \partial_{10}(x) \oplus \partial_{14}(x) \oplus \partial_{83}(x)$$

$$\Lambda(w, x, y, z) = (w \ x) \oplus (w \ y) \oplus (w \ z) \oplus (x \ y) \oplus (x \ z) \oplus (y \ x)$$

$$\Delta(w, x, y, z) = (w \ x) \oplus (\neg w \ y) \oplus (x \ \neg z) \oplus (y \ \neg z)$$

## 2.4. Algorithm

Save message length (in bits).

$L \leftarrow \text{length}(M)$

Pad the message with 8 bits – 10101010.

$M \leftarrow M \ \& \ 0x\text{AA}\text{AA}_{16}^{(8)}$

for  $i = L+1$  to  $\chi$

$M \leftarrow M \ \& \ 0_{2}^{(1)}$

$M \leftarrow M \ \& \ \underline{L}^{(80)}$

$\chi$  is the smallest non-negative number such that  $\text{length}(M)$  is a multiple of 2048 at this point.

Divide the message into 2048-bit blocks  $M_1, M_2, \dots, M_\alpha$ .

$M_1 \ \& \ M_2 \ \& \ \dots \ \& \ M_\alpha \leftarrow M$

Load the initial values into the intermediate hash registers.

for  $k = 0$  to 9

$H_k \leftarrow I_k$

Process each 2048-bit message block.

for  $j = 1$  to  $\alpha$

for  $k = 0$  to 9

$T_k \leftarrow H_k$

Generate 128-bit expanded message blocks.

for  $m = 0$  to 15

$B_m = M_j^{[m]}$

for  $m = 16$  to 127

$B_m = \Psi_1(B_{m-2}) + B_{m-7} + \Psi_0(B_{m-15}) + B_{m-16}$

Process each 128-bit expanded message block.

for  $l = 0$  to 127

$S_1 \leftarrow T_9 + \Xi(T_5) + \Delta(T_6, T_7, T_8, T_9) + K_1 + B_l$

$S_2 \leftarrow \Theta(T_0) + \Lambda(T_0, T_1, T_2, T_3)$

$T_9 \leftarrow T_8$

$T_8 \leftarrow T_7$

$T_7 \leftarrow T_6$

$T_6 \leftarrow T_5$

$T_5 \leftarrow T_4 + S_1$

$T_4 \leftarrow T_3$

$T_3 \leftarrow T_2$

$T_2 \leftarrow T_1$

$T_1 \leftarrow T_0$

$T_0 \leftarrow S_1 + S_2$

for  $k = 0$  to 9

$H_k \leftarrow H_k + T_k$

$R \leftarrow H_0 \ \& \ H_1 \ \& \ H_2 \ \& \ H_3 \ \& \ H_4 \ \& \ H_5 \ \& \ H_6 \ \& \ H_7 \ \& \ H_8 \ \& \ H_9$

## 3. EXAMPLES

### 3.1. Hash values

<i>Message</i>	<i>Hash</i>
"" (empty string)	4e5532bdc9f609dfdad4c7dd42b090f 734522fb66c40a7b909cc9c891a50d28 8d4030264c6e91455f01a941d359f113 787a56a7dafa251635edd9b43e817114 c26af96e4635f3157fa0611e673a1df0 9e529688c739be4f4caa9fa910f8e92f 0d62fca87cd79237e33c798220f4fdcc 538049931e20ffefef489a0a384f9034 21adc53734308cfbe4d0127bacbcb140 15ba2d360e2c5d1bc0da38854dd0842f
"abc"	031a41c9a825fea38c304da3cbbf54cf 8694ad8696a4b7642abc8918f2f11667 27a5f4c8d6624bbe9493bf811e937f17 10d621dc04743bcf1dc7972b1d7723af b299dc89c06dd4690760919672dff644 d278904168c84029a475e66585784d3e ccc9311aee8023c0a084b9d143bb383a 15ef6c903c0a44b65e628818ed5e5e51 91c18d365eb108c25f2eb8fb4c8d4a55 8ce631a6a289c4f3985ab2cd2f1b92b2
"abcdefghabcdefghabcdefgh" & "abcdefghabcdefghabcdefgh" & "abcdefghabcdefghabcdefgh" & "abcdefghijklnop" & "abcdefghijklnopabcdefgh" & "ijklnopabcdefghijklnop" & "abcdefghijklnopabcdefgh" & "ijklnopqrstuvwxyzabcdef" & "ghijklnopqrstuvwxyzabc" & "defghijklnopqrstuvwxyz" & "123456789"	7585e70d331187c34a52d4971c7b4191 c03558eae82b2be685c7ca57ab42961c 74c8887f15862767784f3bf278359fda bba33bb6783fac4215864b920f01623d 5db2d73cc4bc5e851c05915c6f2fe047 dd29372ac85bed668c916d626d4fad53 309010c25520d187f9247246fbc6808d 37e1de2da4b900b4417e2c0a3d724331 4cf1d5cf9a0a901f9d15279e8d018ad1 453f6d89d3eb76954b64514c320e4d1c
"The quick brown fox jumps " & "over the lazy dog"	4aca2065110fbb9d89ec96b6d55b8ef5 9ffc8a58597dd04ee782e14363f480eb ffe55e452e0110dcaaf42d6466facbce d08d61e17bc22baa440fff74184dace26 c232fbab7c736c65a4d4cfb9ff4f7298 b5f05fee36c10ff7ea66d198e2441dba 34d5e443e79fca7cfa9964e84907bd60 4e28ad4c2bf974c39c780586ee8561ff bd8774269427bfcdf0e3b973e37f7ec0 3b3346927b68b79cbd8196923ac6ceeb
"The quick brown fox jumps " & "over the lazy dog."	378f1cd4f1d9013e8e4b41c4ecc64b9a 38d8b8d7bf4548a2730afb54bf04d3c9 a5f65fba383fc43bc02677f644885a6c 12d331005e438b8756258bd2f87ded17 e72ac98971ace36e72032e93f7ed7b87 62e53f7ad77f5241704499da545946ca f2f902769080c42c32904eff47b2a38b f126aafe93b7049f22632c32a104a8ed 439a49f30b508cc21ebb2e4a68a1d242 5e407d329d5aaa32c154b884e33aa366
"Kirils"	1f746164a0de87dc746c5c07e3cafb16 53429bad181440a81b8b3d4edb1cc9a6 d5c00d357d8f752cd4b0ffbc4b7778be 147cd847fa648b79c29ef452eda670cb b23759e779b2d17b168bb4d1a8293486 fd12302771b84c413aedc87ae275ff1f 6c45f32967d5bc704cdbca300f78de2 1c3fdc03a36c9ed2eb9fdb2ce7674b f65e526f0cc1f1c1f304f9fca207ddd f e38d43527a04925ef226c6b3cb325fff1
"kirils"	36079730f081dcc3313da0f3631af5ea ddb5efbf819ea143a17424b4f685b6ff 713a990491f869a7e85dd04b6b90f295 b5339963d33cf6bb0d5d01f9a9a169c0 de341b3c46f2d1033cf320397b1d9970 6608b0b6c3ad5b77d18164d2f15a2681 d8d89f750e37580ec3cc3ba0d6b10fb5 6cca1a12d3c7f51ed90255e6869de81c 465415f29d9c4cfed303c80cd61bbac2 cac0922f1629a50641959200650fa8fe
"kirils.org"	7f3775251aca02982a4f89b810c91c95 d79d0e59ba2272c4adb96cca83b41d4a 60bb66eeedd5dea51642288a92a1ab2 f1977087106bc6fa5f9e83e87f5a5f19 a28882ad5b9ee598ba22cb32a84f65fa 3f6f81384bc0a08ac381303fb3b7d510 9c2df0d12a70a4a1a7706e6551e27fa8 c3134599eb6c5976ea98e44d84693b05 3ec924f8bf46736e1930ee64667b8095 b503e1545953804953a4ae6bf2a03957
"orgkirils."	79f61371440344b9cb2b3d2f5493d5d3 9b674213febc36fb12ba069e53a415e3 e06f405a605c51ec52cf081f1bc21b73 85b43cf38f3a8add50b84d1a1d47fdf 3109f2d00df6192e310613a50e678923 01e96367df8acc4978bd0673decba21 ada9ff6c492a058e7b8a477f4056bd48 0703dc66ed69eed9fbf431de3c980c28 17f8f49622067012b24e2f4c21799e17 813273dbec0639d410ec519b7822ea90



## 3.2. Hash computations

### 3.2.1. Sample computation 1

The message is an 80-bit string “kirils.org”. Converted to hexadecimalbase, it reads

6b6972696c732e6f 7267aa.

#### The padded message is

```
6b6972696c732e6f 7267aa0000000000 0000000000000000 0000000000000000
0000000000000000 0000000000000000 0000000000000000 0000000000000000
0000000000000000 0000000000000000 0000000000000000 0000000000000000
0000000000000000 0000000000000000 0000000000000000 0000000000000000
0000000000000000 0000000000000000 0000000000000000 0000000000000000
0000000000000000 0000000000000000 0000000000000000 0000000000000000
0000000000000000 0000000000000000 0000000000000000 0000000000000000
0000000000000000 0000000000000000 0000000000000000 0000000000000000
0000000000000000 0000000000000000 0000000000000000 0000000000000050.
```

#### Hash calculation.

**j = 1;**

init:

```
T0 = c2230d75cce92d4a43c840ec1c3eb998, T1 = dd0721a872ab5d9d1f32715fbb39e48c,
T2 = 26bed1a981976df68768f448aef13131, T3 = 3988a32b9eb6f495d89ce92d003b7734,
T4 = b14f50ef7f7295622504b6bae54d2d139, T5 = 72ea1e8090bdeca9ca22eebb04b00518,
T6 = 651795cb8dda6c6167d4fbf876774eaf, T7 = a9d884f8ab76462d53875cdf51d36f5,
T8 = e8d3a3f7d895a25b820e3af6f0ab5b29, T9 = c096111daa8c06e6e7d61d3af8fb7384;
```

l = 000:

```
S1 = 084ef266bb7e8a57e83fc39101902abe, S2 = fa3bebc016bbe5db3ca54f6d19505df,
T0 = 028ade26d23a78b59c0a1887d325309d, T1 = c2230d75cce92d4a43c840ec1c3eb998,
T2 = dd0721a872ab5d9d1f32715fbb39e48c, T3 = 26bed1a981976df68768f448aef13131,
T4 = 3988a32b9eb6f495d89ce92d003b7734, T5 = b99e43563aa7e07a388b2f3f5662fbf7,
T6 = 72ea1e8090bdeca9ca22eebb04b00518, T7 = 651795cb8dda6c6167d4fbf876774eaf,
T8 = a9d884f8ab76462d53875cdf51d36f5, T9 = e8d3a3f7d895a25b820e3af6f0ab5b29;
```

l = 001:

```
S1 = 5e3cd3ce8d9bf0af1132f0c643744fb9, S2 = fabb2f0f7a247c0c24e1073eabdcf1ed,
T0 = 58f802de07c06cbb3613f804ef5141a6, T1 = 028ade26d23a78b59c0a1887d325309d,
T2 = c2230d75cce92d4a43c840ec1c3eb998, T3 = dd0721a872ab5d9d1f32715fbb39e48c,
T4 = 26bed1a981976df68768f448aef13131, T5 = 97c576fa2c52e544e9cfd9f343afc6ed,
T6 = b99e43563aa7e07a388b2f3f5662fbf7, T7 = 72ea1e8090bdeca9ca22eebb04b00518,
T8 = 651795cb8dda6c6167d4fbf876774eaf, T9 = a9d884f8ab76462d53875cdf51d36f5;
```

l = 002:

```
S1 = 6dc43ab94983e62742ba367b01636a7f, S2 = 247cc9addc26f3be28442216a454e830,
T0 = 9241046725aad9e56afe5891a5b852af, T1 = 58f802de07c06cbb3613f804ef5141a6,
T2 = 028ade26d23a78b59c0a1887d325309d, T3 = c2230d75cce92d4a43c840ec1c3eb998,
T4 = dd0721a872ab5d9d1f32715fbb39e48c, T5 = 94830c62cb1b541dca232ac3b0549bb0,
T6 = 97c576fa2c52e544e9cfd9f343afc6ed, T7 = b99e43563aa7e07a388b2f3f5662fbf7,
T8 = 72ea1e8090bdeca9ca22eebb04b00518, T9 = 651795cb8dda6c6167d4fbf876774eaf;
```

l = 003:

```
S1 = 8d1d7c55894d3a4bae44457ac8e80695, S2 = 80e5b3ef111051eca745149164dfdb05,
T0 = 0e0330449a5d8c3855895a0c2dc7e19a, T1 = 9241046725aad9e56afe5891a5b852af,
```

$T_2 = 58f802de07c06cbb3613f804ef5141a6$ ,  $T_3 = 028ade26d23a78b59c0a1887d325309d$ ,  
 $T_4 = c2230d75cce92d4a43c840ec1c3eb998$ ,  $T_5 = 6a249dfdfbf897e8cd76b6da8421eb21$ ,  
 $T_6 = 94830c62cb1b541dca232ac3b0549bb0$ ,  $T_7 = 97c576fa2c52e544e9cfd9f343afc6ed$ ,  
 $T_8 = b99e43563aa7e07a388b2f3f5662fbf7$ ,  $T_9 = 72ea1e8090bdeca9ca22eebb04b00518$ ;  
 $l = 004$ :  
 $S_1 = 11b46ac85dfc210c903e68c2eb1a5465$ ,  $S_2 = 2ab3e8fec538181f4a5e001def54479f$ ,  
 $T_0 = 3c6853c72334392bda9c68e0da6e9c04$ ,  $T_1 = 0e0330449a5d8c3855895a0c2dc7e19a$ ,  
 $T_2 = 9241046725aad9e56afe5891a5b852af$ ,  $T_3 = 58f802de07c06cbb3613f804ef5141a6$ ,  
 $T_4 = 028ade26d23a78b59c0a1887d325309d$ ,  $T_5 = d3d7783e2ae54e56d406a9af07590dfd$ ,  
 $T_6 = 6a249dfdfbf897e8cd76b6da8421eb21$ ,  $T_7 = 94830c62cb1b541dca232ac3b0549bb0$ ,  
 $T_8 = 97c576fa2c52e544e9cfd9f343afc6ed$ ,  $T_9 = b99e43563aa7e07a388b2f3f5662fbf7$ ;  
 $l = 005$ :  
 $S_1 = 9f53e014b90d733ace12abfad5e22fb0$ ,  $S_2 = 576860eb8c12274ef9d3607f34438dfc$ ,  
 $T_0 = f6bc4100451f9a89c7e60c7a0a25bdac$ ,  $T_1 = 3c6853c72334392bda9c68e0da6e9c04$ ,  
 $T_2 = 0e0330449a5d8c3855895a0c2dc7e19a$ ,  $T_3 = 9241046725aad9e56afe5891a5b852af$ ,  
 $T_4 = 58f802de07c06cbb3613f804ef5141a6$ ,  $T_5 = a1debe3b8b47ebf06a1cc482a907604d$ ,  
 $T_6 = d3d7783e2ae54e56d406a9af07590dfd$ ,  $T_7 = 6a249dfdfbf897e8cd76b6da8421eb21$ ,  
 $T_8 = 94830c62cb1b541dca232ac3b0549bb0$ ,  $T_9 = 97c576fa2c52e544e9cfd9f343afc6ed$ ;  
 $l = 006$ :  
 $S_1 = 80faec632f2111db1ce942e4f6b526fb$ ,  $S_2 = 08f207cdcc3e1de249efae82368d1d11$ ,  
 $T_0 = 89ecf430fb5f2fbd66d8f1672d42440c$ ,  $T_1 = f6bc4100451f9a89c7e60c7a0a25bdac$ ,  
 $T_2 = 3c6853c72334392bda9c68e0da6e9c04$ ,  $T_3 = 0e0330449a5d8c3855895a0c2dc7e19a$ ,  
 $T_4 = 9241046725aad9e56afe5891a5b852af$ ,  $T_5 = d9f2ef4136e17e9652fd3ae9e60668a1$ ,  
 $T_6 = a1debe3b8b47ebf06a1cc482a907604d$ ,  $T_7 = d3d7783e2ae54e56d406a9af07590dfd$ ,  
 $T_8 = 6a249dfdfbf897e8cd76b6da8421eb21$ ,  $T_9 = 94830c62cb1b541dca232ac3b0549bb0$ ;  
 $l = 007$ :  
 $S_1 = ae20c5f2fb652de3b6203d97c3e4ccc4$ ,  $S_2 = f9af7b1ec8d8ae7d1567fb1bd63fcad5$ ,  
 $T_0 = a7d04111c43ddc60cb8838b39a249799$ ,  $T_1 = 89ecf430fb5f2fbd66d8f1672d42440c$ ,  
 $T_2 = f6bc4100451f9a89c7e60c7a0a25bdac$ ,  $T_3 = 3c6853c72334392bda9c68e0da6e9c04$ ,  
 $T_4 = 0e0330449a5d8c3855895a0c2dc7e19a$ ,  $T_5 = 4061ca5a211007c9211e9629699d1f73$ ,  
 $T_6 = d9f2ef4136e17e9652fd3ae9e60668a1$ ,  $T_7 = a1debe3b8b47ebf06a1cc482a907604d$ ,  
 $T_8 = d3d7783e2ae54e56d406a9af07590dfd$ ,  $T_9 = 6a249dfdfbf897e8cd76b6da8421eb21$ ;  
 $l = 008$ :  
 $S_1 = f8b676a980ee653eaf62b0cbed2f3496$ ,  $S_2 = 92912f7fc82a0d9d1dd5c0077f27f87f$ ,  
 $T_0 = 8b47a629491872dbcd3870d36c572d15$ ,  $T_1 = a7d04111c43ddc60cb8838b39a249799$ ,  
 $T_2 = 89ecf430fb5f2fbd66d8f1672d42440c$ ,  $T_3 = f6bc4100451f9a89c7e60c7a0a25bdac$ ,  
 $T_4 = 3c6853c72334392bda9c68e0da6e9c04$ ,  $T_5 = 06b9a6ee1b4bf17704ec0ad81af71630$ ,  
 $T_6 = 4061ca5a211007c9211e9629699d1f73$ ,  $T_7 = d9f2ef4136e17e9652fd3ae9e60668a1$ ,  
 $T_8 = a1debe3b8b47ebf06a1cc482a907604d$ ,  $T_9 = d3d7783e2ae54e56d406a9af07590dfd$ ;  
 $l = 009$ :  
 $S_1 = 1dac1e82bfc88140a36ff5a292d2cbb5$ ,  $S_2 = 08b0a23cd81c89a35b934878879deb99$ ,  
 $T_0 = 265cc0bf97e50ae3ff033e1b1a70b74e$ ,  $T_1 = 8b47a629491872dbcd3870d36c572d15$ ,  
 $T_2 = a7d04111c43ddc60cb8838b39a249799$ ,  $T_3 = 89ecf430fb5f2fbd66d8f1672d42440c$ ,  
 $T_4 = f6bc4100451f9a89c7e60c7a0a25bdac$ ,  $T_5 = 5a147249e2fcba6c7e0c5e836d4167b9$ ,  
 $T_6 = 06b9a6ee1b4bf17704ec0ad81af71630$ ,  $T_7 = 4061ca5a211007c9211e9629699d1f73$ ,  
 $T_8 = d9f2ef4136e17e9652fd3ae9e60668a1$ ,  $T_9 = a1debe3b8b47ebf06a1cc482a907604d$ ;  
 $l = 010$ :  
 $S_1 = 5c31bf9c934237370f640586fb0dc660$ ,  $S_2 = fcd655a224892d7e1cbcb0d182fadcc7$ ,  
 $T_0 = 5908153eb7cb64b52c20b6587e08a327$ ,  $T_1 = 265cc0bf97e50ae3ff033e1b1a70b74e$ ,  
 $T_2 = 8b47a629491872dbcd3870d36c572d15$ ,  $T_3 = a7d04111c43ddc60cb8838b39a249799$ ,  
 $T_4 = 89ecf430fb5f2fbd66d8f1672d42440c$ ,  $T_5 = 52ee009cd861d1c0d74a12010533840c$ ,  
 $T_6 = 5a147249e2fcba6c7e0c5e836d4167b9$ ,  $T_7 = 06b9a6ee1b4bf17704ec0ad81af71630$ ,

$T_8 = 4061ca5a211007c9211e9629699d1f73$ ,  $T_9 = d9f2ef4136e17e9652fd3ae9e60668a1$ ;  
 $l = 011$ :  
 $S_1 = c413e28514461c0d51d19daf68acbc1$ ,  $S_2 = 470f7ea49d24028f3a496a78dbf9a761$ ,  
 $T_0 = 0b236129b16a1e9c8c1b082844a66402$ ,  $T_1 = 5908153eb7cb64b52c20b6587e08a327$ ,  
 $T_2 = 265cc0bf97e50ae3ff033e1b1a70b74e$ ,  $T_3 = 8b47a629491872dbcd3870d36c572d15$ ,  
 $T_4 = a7d04111c43ddc60cb8838b39a249799$ ,  $T_5 = 4e00d6b60fa54bcab8aa8f1695ef00ad$ ,  
 $T_6 = 52ee009cd861d1c0d74a12010533840c$ ,  $T_7 = 5a147249e2fcba6c7e0c5e836d4167b9$ ,  
 $T_8 = 06b9a6ee1b4bf17704ec0ad81af71630$ ,  $T_9 = 4061ca5a211007c9211e9629699d1f73$ ;  
 $l = 012$ :  
 $S_1 = 346e5bbaec585479137723794f1f35f0$ ,  $S_2 = 195927dc644fa0fb39d890216067317d$ ,  
 $T_0 = 4dc7839750a7f5744d4fb39aaf86676d$ ,  $T_1 = 0b236129b16a1e9c8c1b082844a66402$ ,  
 $T_2 = 5908153eb7cb64b52c20b6587e08a327$ ,  $T_3 = 265cc0bf97e50ae3ff033e1b1a70b74e$ ,  
 $T_4 = 8b47a629491872dbcd3870d36c572d15$ ,  $T_5 = dc3e9cccb09630d9deff5c2ce943cd89$ ,  
 $T_6 = 4e00d6b60fa54bcab8aa8f1695ef00ad$ ,  $T_7 = 52ee009cd861d1c0d74a12010533840c$ ,  
 $T_8 = 5a147249e2fcba6c7e0c5e836d4167b9$ ,  $T_9 = 06b9a6ee1b4bf17704ec0ad81af71630$ ;  
 $l = 013$ :  
 $S_1 = b68201bd60c81a7c3ed849ada19f62a4$ ,  $S_2 = 711dd9c6a0d4a000301c6160ea52e270$ ,  
 $T_0 = 279fdb84019cba7c6ef4ab0e8bf24514$ ,  $T_1 = 4dc7839750a7f5744d4fb39aaf86676d$ ,  
 $T_2 = 0b236129b16a1e9c8c1b082844a66402$ ,  $T_3 = 5908153eb7cb64b52c20b6587e08a327$ ,  
 $T_4 = 265cc0bf97e50ae3ff033e1b1a70b74e$ ,  $T_5 = 41c9a7e6a9e08d580c10ba810df68fb9$ ,  
 $T_6 = dc3e9cccb09630d9deff5c2ce943cd89$ ,  $T_7 = 4e00d6b60fa54bcab8aa8f1695ef00ad$ ,  
 $T_8 = 52ee009cd861d1c0d74a12010533840c$ ,  $T_9 = 5a147249e2fcba6c7e0c5e836d4167b9$ ;  
 $l = 014$ :  
 $S_1 = e8f78451a6f479c6b9152fdd9f74fb81$ ,  $S_2 = 7ef07136bbe3c525bb9436ae80fd092$ ,  
 $T_0 = 67e7f58862e2b61914ce73488784cc13$ ,  $T_1 = 279fdb84019cba7c6ef4ab0e8bf24514$ ,  
 $T_2 = 4dc7839750a7f5744d4fb39aaf86676d$ ,  $T_3 = 0b236129b16a1e9c8c1b082844a66402$ ,  
 $T_4 = 5908153eb7cb64b52c20b6587e08a327$ ,  $T_5 = 0f5445113ed984aab8186df8b9e5b2cf$ ,  
 $T_6 = 41c9a7e6a9e08d580c10ba810df68fb9$ ,  $T_7 = dc3e9cccb09630d9deff5c2ce943cd89$ ,  
 $T_8 = 4e00d6b60fa54bcab8aa8f1695ef00ad$ ,  $T_9 = 52ee009cd861d1c0d74a12010533840c$ ;  
 $l = 015$ :  
 $S_1 = 483792e4420a64989436f952c5f246d9$ ,  $S_2 = c86a9d297e5ed8ffc9460e1ce5d5e272$ ,  
 $T_0 = 10a2300dc0693d985d7d076fabc8294b$ ,  $T_1 = 67e7f58862e2b61914ce73488784cc13$ ,  
 $T_2 = 279fdb84019cba7c6ef4ab0e8bf24514$ ,  $T_3 = 4dc7839750a7f5744d4fb39aaf86676d$ ,  
 $T_4 = 0b236129b16a1e9c8c1b082844a66402$ ,  $T_5 = a13fa822f9d5c94dc057afab43faea00$ ,  
 $T_6 = 0f5445113ed984aab8186df8b9e5b2cf$ ,  $T_7 = 41c9a7e6a9e08d580c10ba810df68fb9$ ,  
 $T_8 = dc3e9cccb09630d9deff5c2ce943cd89$ ,  $T_9 = 4e00d6b60fa54bcab8aa8f1695ef00ad$ ;  
 $l = 016$ :  
 $S_1 = 963fb5938a89a5379480d42c4c8fed2a$ ,  $S_2 = 98582e7d3b5cb99a8917e8c692b8032f$ ,  
 $T_0 = 2e97e410c5e65ed21d98bcf2df47f059$ ,  $T_1 = 10a2300dc0693d985d7d076fabc8294b$ ,  
 $T_2 = 67e7f58862e2b61914ce73488784cc13$ ,  $T_3 = 279fdb84019cba7c6ef4ab0e8bf24514$ ,  
 $T_4 = 4dc7839750a7f5744d4fb39aaf86676d$ ,  $T_5 = a16316bd3bf3c3d4209bdc549136512c$ ,  
 $T_6 = a13fa822f9d5c94dc057afab43faea00$ ,  $T_7 = 0f5445113ed984aab8186df8b9e5b2cf$ ,  
 $T_8 = 41c9a7e6a9e08d580c10ba810df68fb9$ ,  $T_9 = dc3e9cccb09630d9deff5c2ce943cd89$ ;  
 $l = 017$ :  
 $S_1 = 3958142369c45f8a108c4dfd60fe6aeb$ ,  $S_2 = 0354275ab7195d626236a01d7b4cd716$ ,  
 $T_0 = 3cac3b7e20ddbcec72c2ee1adc4b4201$ ,  $T_1 = 2e97e410c5e65ed21d98bcf2df47f059$ ,  
 $T_2 = 10a2300dc0693d985d7d076fabc8294b$ ,  $T_3 = 67e7f58862e2b61914ce73488784cc13$ ,  
 $T_4 = 279fdb84019cba7c6ef4ab0e8bf24514$ ,  $T_5 = 871f97baba6c54fe5ddc01981084d258$ ,  
 $T_6 = a16316bd3bf3c3d4209bdc549136512c$ ,  $T_7 = a13fa822f9d5c94dc057afab43faea00$ ,  
 $T_8 = 0f5445113ed984aab8186df8b9e5b2cf$ ,  $T_9 = 41c9a7e6a9e08d580c10ba810df68fb9$ ;  
 $l = 018$ :  
 $S_1 = 0a6c2d90aab81f2623542f3920746bbc$ ,  $S_2 = ec505e033e30adae4ad258a460a92637$ ,

$T_0 = f6bc8b93e8e8ccd46e2687dd811d91f3$ ,  $T_1 = 3cac3b7e20ddbcec72c2ee1adc4b4201$ ,  
 $T_2 = 2e97e410c5e65ed21d98bcf2df47f059$ ,  $T_3 = 10a2300dc0693d985d7d076fab8c8294b$ ,  
 $T_4 = 67e7f58862e2b61914ce73488784cc13$ ,  $T_5 = 320c0914ac54d9a29248da47ac66b0d0$ ,  
 $T_6 = 871f97baba6c54fe5ddc01981084d258$ ,  $T_7 = a16316bd3bf3c3d4209bdc549136512c$ ,  
 $T_8 = a13fa822f9d5c94dc057afab43faea00$ ,  $T_9 = 0f5445113ed984aab8186df8b9e5b2cf$ ;  
 $l = 019$ :  
 $S_1 = 00d0d3d458f98cfa0c999cff930b9e6f$ ,  $S_2 = 8d1f0863e8b3045edcc72c11e7040520$ ,  
 $T_0 = 8defdc3841ac9158e960c9117a0fa38f$ ,  $T_1 = f6bc8b93e8e8ccd46e2687dd811d91f3$ ,  
 $T_2 = 3cac3b7e20ddbcec72c2ee1adc4b4201$ ,  $T_3 = 2e97e410c5e65ed21d98bcf2df47f059$ ,  
 $T_4 = 10a2300dc0693d985d7d076fab8c8294b$ ,  $T_5 = 68b8c95cbbdc4313216810481a906a82$ ,  
 $T_6 = 320c0914ac54d9a29248da47ac66b0d0$ ,  $T_7 = 871f97baba6c54fe5ddc01981084d258$ ,  
 $T_8 = a16316bd3bf3c3d4209bdc549136512c$ ,  $T_9 = a13fa822f9d5c94dc057afab43faea00$ ;  
 $l = 020$ :  
 $S_1 = 48d47d18ac74e67862ba9d9c02c3e9a9$ ,  $S_2 = cb71a23ab076e34b1e9855b560144e62$ ,  
 $T_0 = 14461f535cebc9c38152f35162d8380b$ ,  $T_1 = 8defdc3841ac9158e960c9117a0fa38f$ ,  
 $T_2 = f6bc8b93e8e8ccd46e2687dd811d91f3$ ,  $T_3 = 3cac3b7e20ddbcec72c2ee1adc4b4201$ ,  
 $T_4 = 2e97e410c5e65ed21d98bcf2df47f059$ ,  $T_5 = 5976ad266cde2410c037a50bae8c12f4$ ,  
 $T_6 = 68b8c95cbbdc4313216810481a906a82$ ,  $T_7 = 320c0914ac54d9a29248da47ac66b0d0$ ,  
 $T_8 = 871f97baba6c54fe5ddc01981084d258$ ,  $T_9 = a16316bd3bf3c3d4209bdc549136512c$ ;  
 $l = 021$ :  
 $S_1 = bd283046f8ae713f9ef02e5fefe8275b$ ,  $S_2 = 0524366d5454b1dbe06bc76f83e5796f$ ,  
 $T_0 = c24c66b44d03231b7f5bf5cf73cda0ca$ ,  $T_1 = 14461f535cebc9c38152f35162d8380b$ ,  
 $T_2 = 8defdc3841ac9158e960c9117a0fa38f$ ,  $T_3 = f6bc8b93e8e8ccd46e2687dd811d91f3$ ,  
 $T_4 = 3cac3b7e20ddbcec72c2ee1adc4b4201$ ,  $T_5 = ebc01457be94d011bc88eb52cf3017b4$ ,  
 $T_6 = 5976ad266cde2410c037a50bae8c12f4$ ,  $T_7 = 68b8c95cbbdc4313216810481a906a82$ ,  
 $T_8 = 320c0914ac54d9a29248da47ac66b0d0$ ,  $T_9 = 871f97baba6c54fe5ddc01981084d258$ ;  
 $l = 022$ :  
 $S_1 = 19281315ddfbd8244515844513e7142b$ ,  $S_2 = 71dd8335d349c89fd169601d39925b03$ ,  
 $T_0 = 8b05964bb145a0c4167ee4624d796f2e$ ,  $T_1 = c24c66b44d03231b7f5bf5cf73cda0ca$ ,  
 $T_2 = 14461f535cebc9c38152f35162d8380b$ ,  $T_3 = 8defdc3841ac9158e960c9117a0fa38f$ ,  
 $T_4 = f6bc8b93e8e8ccd46e2687dd811d91f3$ ,  $T_5 = 55d44e93fed99510b7d8725ff032562c$ ,  
 $T_6 = ebc01457be94d011bc88eb52cf3017b4$ ,  $T_7 = 5976ad266cde2410c037a50bae8c12f4$ ,  
 $T_8 = 68b8c95cbbdc4313216810481a906a82$ ,  $T_9 = 320c0914ac54d9a29248da47ac66b0d0$ ;  
 $l = 023$ :  
 $S_1 = 895183baba7d55f9e0e349522abb4549$ ,  $S_2 = 27549488cd23d53238cf76446303770c$ ,  
 $T_0 = b0a6184387a12b2c19b2bf968dbebc55$ ,  $T_1 = 8b05964bb145a0c4167ee4624d796f2e$ ,  
 $T_2 = c24c66b44d03231b7f5bf5cf73cda0ca$ ,  $T_3 = 14461f535cebc9c38152f35162d8380b$ ,  
 $T_4 = 8defdc3841ac9158e960c9117a0fa38f$ ,  $T_5 = 800e0f4ea36622ce4f09d12fabd8d73c$ ,  
 $T_6 = 55d44e93fed99510b7d8725ff032562c$ ,  $T_7 = ebc01457be94d011bc88eb52cf3017b4$ ,  
 $T_8 = 5976ad266cde2410c037a50bae8c12f4$ ,  $T_9 = 68b8c95cbbdc4313216810481a906a82$ ;  
 $l = 024$ :  
 $S_1 = 9f4fd378f2e6fea001d2d62ed805c74a$ ,  $S_2 = 726e5419fa5316c709d635a41e755966$ ,  
 $T_0 = 11be2792ed3a15670ba90bd2f67b20b0$ ,  $T_1 = b0a6184387a12b2c19b2bf968dbebc55$ ,  
 $T_2 = 8b05964bb145a0c4167ee4624d796f2e$ ,  $T_3 = c24c66b44d03231b7f5bf5cf73cda0ca$ ,  
 $T_4 = 14461f535cebc9c38152f35162d8380b$ ,  $T_5 = 2d3fafb134938ff8eb339f4052156ad9$ ,  
 $T_6 = 800e0f4ea36622ce4f09d12fabd8d73c$ ,  $T_7 = 55d44e93fed99510b7d8725ff032562c$ ,  
 $T_8 = ebc01457be94d011bc88eb52cf3017b4$ ,  $T_9 = 5976ad266cde2410c037a50bae8c12f4$ ;  
 $l = 025$ :  
 $S_1 = c66c1d155e506b28770689e62692eb02$ ,  $S_2 = bbfc165bbb969a87a64500325e7177ec$ ,  
 $T_0 = 8268337119e705b01d4b8a18850462ee$ ,  $T_1 = 11be2792ed3a15670ba90bd2f67b20b0$ ,  
 $T_2 = b0a6184387a12b2c19b2bf968dbebc55$ ,  $T_3 = 8b05964bb145a0c4167ee4624d796f2e$ ,  
 $T_4 = c24c66b44d03231b7f5bf5cf73cda0ca$ ,  $T_5 = dab23c68bb3c34ebf8597d37896b230d$ ,

$T_6 = 2d3fafb134938ff8eb339f4052156ad9$ ,  $T_7 = 800e0f4ea36622ce4f09d12fabd8d73c$ ,  
 $T_8 = 55d44e93fed99510b7d8725ff032562c$ ,  $T_9 = ebc01457be94d011bc88eb52cf3017b4$ ;  
 $l = 026$ :  
 $S_1 = 6f9cb7d8eef9543bacfe5c599ad99c60$ ,  $S_2 = 7e6bea18e80598678dce1af857f43cb5$ ,  
 $T_0 = ee08a1f1d6feeca33acc7751f2cdd915$ ,  $T_1 = 8268337119e705b01d4b8a18850462ee$ ,  
 $T_2 = 11be2792ed3a15670ba90bd2f67b20b0$ ,  $T_3 = b0a6184387a12b2c19b2bf968dbebc55$ ,  
 $T_4 = 8b05964bb145a0c4167ee4624d796f2e$ ,  $T_5 = 31e91e8d3bfc77572c5a52290ea73d2a$ ,  
 $T_6 = dab23c68bb3c34ebf8597d37896b230d$ ,  $T_7 = 2d3fafb134938ff8eb339f4052156ad9$ ,  
 $T_8 = 800e0f4ea36622ce4f09d12fabd8d73c$ ,  $T_9 = 55d44e93fed99510b7d8725ff032562c$ ;  
 $l = 027$ :  
 $S_1 = 7ecd7cd5402347591d195cb4a2846a0c$ ,  $S_2 = 45f46f89c754e94d6b0993d958f9fe2b$ ,  
 $T_0 = c4c1ec5f077830a68822f08dfb7e6837$ ,  $T_1 = ee08a1f1d6feeca33acc7751f2cdd915$ ,  
 $T_2 = 8268337119e705b01d4b8a18850462ee$ ,  $T_3 = 11be2792ed3a15670ba90bd2f67b20b0$ ,  
 $T_4 = b0a6184387a12b2c19b2bf968dbebc55$ ,  $T_5 = 09d31320f168e81d33984116effdd93a$ ,  
 $T_6 = 31e91e8d3bfc77572c5a52290ea73d2a$ ,  $T_7 = dab23c68bb3c34ebf8597d37896b230d$ ,  
 $T_8 = 2d3fafb134938ff8eb339f4052156ad9$ ,  $T_9 = 800e0f4ea36622ce4f09d12fabd8d73c$ ;  
 $l = 028$ :  
 $S_1 = d0eb145f2a79a75deed77256ac0122c9$ ,  $S_2 = 1682034d7ab2b2a955c6706d3a9e3902$ ,  
 $T_0 = e76d17aca52c5a07449de2c3e69f5bcb$ ,  $T_1 = c4c1ec5f077830a68822f08dfb7e6837$ ,  
 $T_2 = ee08a1f1d6feeca33acc7751f2cdd915$ ,  $T_3 = 8268337119e705b01d4b8a18850462ee$ ,  
 $T_4 = 11be2792ed3a15670ba90bd2f67b20b0$ ,  $T_5 = 81912ca2b21ad28a088a31ed39bdf1e$ ,  
 $T_6 = 09d31320f168e81d33984116effdd93a$ ,  $T_7 = 31e91e8d3bfc77572c5a52290ea73d2a$ ,  
 $T_8 = dab23c68bb3c34ebf8597d37896b230d$ ,  $T_9 = 2d3fafb134938ff8eb339f4052156ad9$ ;  
 $l = 029$ :  
 $S_1 = 05675c40aa8c54a16318d0d6238c599c$ ,  $S_2 = 99f306cec46e74e39016229174f91665$ ,  
 $T_0 = 9f5a630f6efac984f32ef36798857001$ ,  $T_1 = e76d17aca52c5a07449de2c3e69f5bcb$ ,  
 $T_2 = c4c1ec5f077830a68822f08dfb7e6837$ ,  $T_3 = ee08a1f1d6feeca33acc7751f2cdd915$ ,  
 $T_4 = 8268337119e705b01d4b8a18850462ee$ ,  $T_5 = 172583d397c66a086ec1dca91a077a4c$ ,  
 $T_6 = 81912ca2b21ad28a088a31ed39bdf1e$ ,  $T_7 = 09d31320f168e81d33984116effdd93a$ ,  
 $T_8 = 31e91e8d3bfc77572c5a52290ea73d2a$ ,  $T_9 = dab23c68bb3c34ebf8597d37896b230d$ ;  
 $l = 030$ :  
 $S_1 = b5419d7effd2b0c4e0492fb5d19f1f64$ ,  $S_2 = ebd89bb4de0ddb183d5d318d578aa76d$ ,  
 $T_0 = a11a3933dde08bdd1da661432929c6d1$ ,  $T_1 = 9f5a630f6efac984f32ef36798857001$ ,  
 $T_2 = e76d17aca52c5a07449de2c3e69f5bcb$ ,  $T_3 = c4c1ec5f077830a68822f08dfb7e6837$ ,  
 $T_4 = ee08a1f1d6feeca33acc7751f2cdd915$ ,  $T_5 = 37a9d0f019b9b674fd94b9ce56a38252$ ,  
 $T_6 = 172583d397c66a086ec1dca91a077a4c$ ,  $T_7 = 81912ca2b21ad28a088a31ed39bdf1e$ ,  
 $T_8 = 09d31320f168e81d33984116effdd93a$ ,  $T_9 = 31e91e8d3bfc77572c5a52290ea73d2a$ ;  
 $l = 031$ :  
 $S_1 = 977e33250690bd63876175ea442dfb8d$ ,  $S_2 = 02cab62a662bc8bc9539dee5f1cf10cd$ ,  
 $T_0 = 9a48e94f6cbc86201c9b54d035fd0c5a$ ,  $T_1 = a11a3933dde08bdd1da661432929c6d1$ ,  
 $T_2 = 9f5a630f6efac984f32ef36798857001$ ,  $T_3 = e76d17aca52c5a07449de2c3e69f5bcb$ ,  
 $T_4 = c4c1ec5f077830a68822f08dfb7e6837$ ,  $T_5 = 8586d516dd8faa06c22ded3c36fbd4a2$ ,  
 $T_6 = 37a9d0f019b9b674fd94b9ce56a38252$ ,  $T_7 = 172583d397c66a086ec1dca91a077a4c$ ,  
 $T_8 = 81912ca2b21ad28a088a31ed39bdf1e$ ,  $T_9 = 09d31320f168e81d33984116effdd93a$ ;  
 $l = 032$ :  
 $S_1 = 878f0157b008028fc40f874e8e627173$ ,  $S_2 = 756dec32c068f65689cdb28679e4a825$ ,  
 $T_0 = fcfced8a7070f8e64ddd39d508471998$ ,  $T_1 = 9a48e94f6cbc86201c9b54d035fd0c5a$ ,  
 $T_2 = a11a3933dde08bdd1da661432929c6d1$ ,  $T_3 = 9f5a630f6efac984f32ef36798857001$ ,  
 $T_4 = e76d17aca52c5a07449de2c3e69f5bcb$ ,  $T_5 = 4c50edb6b78033364c3277dc89e0d9aa$ ,  
 $T_6 = 8586d516dd8faa06c22ded3c36fbd4a2$ ,  $T_7 = 37a9d0f019b9b674fd94b9ce56a38252$ ,  
 $T_8 = 172583d397c66a086ec1dca91a077a4c$ ,  $T_9 = 81912ca2b21ad28a088a31ed39bdf1e$ ;  
 $l = 033$ :

$S_1 = f33d816f200a2f8bfdc303e4811d8b3a$ ,  $S_2 = 424c9169521d6b79f7cb18a0034d4de7$ ,  
 $T_0 = 358a12d872279b05f58e1c84846ad921$ ,  $T_1 = fcfced8a7070f8e64ddd39d508471998$ ,  
 $T_2 = 9a48e94f6cbc86201c9b54d035fd0c5a$ ,  $T_3 = a11a3933dde08bdd1da661432929c6d1$ ,  
 $T_4 = 9f5a630f6efac984f32ef36798857001$ ,  $T_5 = daaa991bc53689934260e6a867bce705$ ,  
 $T_6 = 4c50edb6b78033364c3277dc89e0d9aa$ ,  $T_7 = 8586d516dd8faa06c22ded3c36fbd4a2$ ,  
 $T_8 = 37a9d0f019b9b674fd94b9ce56a38252$ ,  $T_9 = 172583d397c66a086ecdca91a077a4c$ ;  
 $l = 034$ :  
 $S_1 = 2b94c02953b0bcdbb3e23091527230fb$ ,  $S_2 = 23f9b250e2459cd65c667b895edc124a$ ,  
 $T_0 = 4f8e727a35f659b21048ac1ab14e4345$ ,  $T_1 = 358a12d872279b05f58e1c84846ad921$ ,  
 $T_2 = fcfced8a7070f8e64ddd39d508471998$ ,  $T_3 = 9a48e94f6cbc86201c9b54d035fd0c5a$ ,  
 $T_4 = a11a3933dde08bdd1da661432929c6d1$ ,  $T_5 = caef2338c2ab8660a71123f8eaf7a0fc$ ,  
 $T_6 = daaa991bc53689934260e6a867bce705$ ,  $T_7 = 4c50edb6b78033364c3277dc89e0d9aa$ ,  
 $T_8 = 8586d516dd8faa06c22ded3c36fbd4a2$ ,  $T_9 = 37a9d0f019b9b674fd94b9ce56a38252$ ;  
 $l = 035$ :  
 $S_1 = a974d5a0415fd204e27c973642e8d7d5$ ,  $S_2 = 0de55b1333aa4ca864803320a44bd735$ ,  
 $T_0 = b75a30b3750a1ead46fcca56e734af0a$ ,  $T_1 = 4f8e727a35f659b21048ac1ab14e4345$ ,  
 $T_2 = 358a12d872279b05f58e1c84846ad921$ ,  $T_3 = fcfced8a7070f8e64ddd39d508471998$ ,  
 $T_4 = 9a48e94f6cbc86201c9b54d035fd0c5a$ ,  $T_5 = 4a8f0ed41f405de20022f8796c129ea6$ ,  
 $T_6 = caef2338c2ab8660a71123f8eaf7a0fc$ ,  $T_7 = daaa991bc53689934260e6a867bce705$ ,  
 $T_8 = 4c50edb6b78033364c3277dc89e0d9aa$ ,  $T_9 = 8586d516dd8faa06c22ded3c36fbd4a2$ ;  
 $l = 036$ :  
 $S_1 = f6dd770a3d074fe1b3aece41b3fe5356$ ,  $S_2 = 8c7e89f5f018d16bf50ad53e6dbd88ee$ ,  
 $T_0 = 835c01002d20214da8b9a38021bbdc44$ ,  $T_1 = b75a30b3750a1ead46fcca56e734af0a$ ,  
 $T_2 = 4f8e727a35f659b21048ac1ab14e4345$ ,  $T_3 = 358a12d872279b05f58e1c84846ad921$ ,  
 $T_4 = fcfced8a7070f8e64ddd39d508471998$ ,  $T_5 = 91266059a9c3d601d04a2311e9fb5fb0$ ,  
 $T_6 = 4a8f0ed41f405de20022f8796c129ea6$ ,  $T_7 = caef2338c2ab8660a71123f8eaf7a0fc$ ,  
 $T_8 = daaa991bc53689934260e6a867bce705$ ,  $T_9 = 4c50edb6b78033364c3277dc89e0d9aa$ ;  
 $l = 037$ :  
 $S_1 = c73f395c3635bbb2996394d3cfa96085$ ,  $S_2 = aee6f1b1c2ef99b5d418899d9ea7bdfe$ ,  
 $T_0 = 76262b0df92555686d7c1e716e511e83$ ,  $T_1 = 835c01002d20214da8b9a38021bbdc44$ ,  
 $T_2 = b75a30b3750a1ead46fcca56e734af0a$ ,  $T_3 = 4f8e727a35f659b21048ac1ab14e4345$ ,  
 $T_4 = 358a12d872279b05f58e1c84846ad921$ ,  $T_5 = c43c26e6a6a6b498e740cea8d7f07a1d$ ,  
 $T_6 = 91266059a9c3d601d04a2311e9fb5fb0$ ,  $T_7 = 4a8f0ed41f405de20022f8796c129ea6$ ,  
 $T_8 = caef2338c2ab8660a71123f8eaf7a0fc$ ,  $T_9 = daaa991bc53689934260e6a867bce705$ ;  
 $l = 038$ :  
 $S_1 = 1ce793d26904c03d1ebf3256e04d2b00$ ,  $S_2 = 97101e0b116e8c8377be09477266a3f0$ ,  
 $T_0 = b3f7b1dd7a734cc0967d3b9e52b3cef0$ ,  $T_1 = 76262b0df92555686d7c1e716e511e83$ ,  
 $T_2 = 835c01002d20214da8b9a38021bbdc44$ ,  $T_3 = b75a30b3750a1ead46fcca56e734af0a$ ,  
 $T_4 = 4f8e727a35f659b21048ac1ab14e4345$ ,  $T_5 = 5271a6aadb2c5b43144d4edb64b80421$ ,  
 $T_6 = c43c26e6a6a6b498e740cea8d7f07a1d$ ,  $T_7 = 91266059a9c3d601d04a2311e9fb5fb0$ ,  
 $T_8 = 4a8f0ed41f405de20022f8796c129ea6$ ,  $T_9 = caef2338c2ab8660a71123f8eaf7a0fc$ ;  
 $l = 039$ :  
 $S_1 = d66942d30731566eb7513774e856dc98$ ,  $S_2 = db095660eb0db6be16de1e583a2f927a$ ,  
 $T_0 = b1729933f23f0d2cce2f55cd22866f12$ ,  $T_1 = b3f7b1dd7a734cc0967d3b9e52b3cef0$ ,  
 $T_2 = 76262b0df92555686d7c1e716e511e83$ ,  $T_3 = 835c01002d20214da8b9a38021bbdc44$ ,  
 $T_4 = b75a30b3750a1ead46fcca56e734af0a$ ,  $T_5 = 25f7b54d3d27b020c799e38f99a51fdd$ ,  
 $T_6 = 5271a6aadb2c5b43144d4edb64b80421$ ,  $T_7 = c43c26e6a6a6b498e740cea8d7f07a1d$ ,  
 $T_8 = 91266059a9c3d601d04a2311e9fb5fb0$ ,  $T_9 = 4a8f0ed41f405de20022f8796c129ea6$ ;  
 $l = 040$ :  
 $S_1 = 84ce05078ed8f9068e32e1a68149c5a9$ ,  $S_2 = ff41b691864e5097ba7d68ae91e48ed0$ ,  
 $T_0 = 840fbb991527499e48b04a55132e5479$ ,  $T_1 = b1729933f23f0d2cce2f55cd22866f12$ ,  
 $T_2 = b3f7b1dd7a734cc0967d3b9e52b3cef0$ ,  $T_3 = 76262b0df92555686d7c1e716e511e83$ ,

$T_4 = 835c01002d20214da8b9a38021bbdc44$ ,  $T_5 = 3c2835bb03e317b3d52fabfd687e74b3$ ,  
 $T_6 = 25f7b54d3d27b020c799e38f99a51fdd$ ,  $T_7 = 5271a6aadb2c5b43144d4edb64b80421$ ,  
 $T_8 = c43c26e6a6a6b498e740cea8d7f07a1d$ ,  $T_9 = 91266059a9c3d601d04a2311e9fb5fb0$ ;  
 $l = 041$ :  
 $S_1 = cc063062d79214fba7154ec6e6e2a0f6$ ,  $S_2 = a47f2c6baaec2903e171bf7efc7af145$ ,  
 $T_0 = 70855cce827e3dff88870e45e35d923b$ ,  $T_1 = 840fbb991527499e48b04a55132e5479$ ,  
 $T_2 = b1729933f23f0d2cce2f55cd22866f12$ ,  $T_3 = b3f7b1dd7a734cc0967d3b9e52b3cef0$ ,  
 $T_4 = 76262b0df92555686d7c1e716e511e83$ ,  $T_5 = 4f62316304b236494fcef247089e7d3a$ ,  
 $T_6 = 3c2835bb03e317b3d52fabfd687e74b3$ ,  $T_7 = 25f7b54d3d27b020c799e38f99a51fdd$ ,  
 $T_8 = 5271a6aadb2c5b43144d4edb64b80421$ ,  $T_9 = c43c26e6a6a6b498e740cea8d7f07a1d$ ;  
 $l = 042$ :  
 $S_1 = 700c6e041bcdf9ae73f949596093d752$ ,  $S_2 = ee8788d085642e4708bbc6768c8979be$ ,  
 $T_0 = 5e93f6d4a13227f57cb50fcfed1d5110$ ,  $T_1 = 70855cce827e3dff88870e45e35d923b$ ,  
 $T_2 = 840fbb991527499e48b04a55132e5479$ ,  $T_3 = b1729933f23f0d2cce2f55cd22866f12$ ,  
 $T_4 = b3f7b1dd7a734cc0967d3b9e52b3cef0$ ,  $T_5 = e632991214f34f16e17567cacee4f5d5$ ,  
 $T_6 = 4f62316304b236494fcef247089e7d3a$ ,  $T_7 = 3c2835bb03e317b3d52fabfd687e74b3$ ,  
 $T_8 = 25f7b54d3d27b020c799e38f99a51fdd$ ,  $T_9 = 5271a6aadb2c5b43144d4edb64b80421$ ;  
 $l = 043$ :  
 $S_1 = 41d20d7635ef13dde85bde2b0aa84f83$ ,  $S_2 = e88c73279b079277a36fce51de692b28$ ,  
 $T_0 = 2a5e809dd0f6a6558bcbac7ce9117aab$ ,  $T_1 = 5e93f6d4a13227f57cb50fcfed1d5110$ ,  
 $T_2 = 70855cce827e3dff88870e45e35d923b$ ,  $T_3 = 840fbb991527499e48b04a55132e5479$ ,  
 $T_4 = b1729933f23f0d2cce2f55cd22866f12$ ,  $T_5 = f5c9bf53b062609e7ed919c95d5c1e73$ ,  
 $T_6 = e632991214f34f16e17567cacee4f5d5$ ,  $T_7 = 4f62316304b236494fcef247089e7d3a$ ,  
 $T_8 = 3c2835bb03e317b3d52fabfd687e74b3$ ,  $T_9 = 25f7b54d3d27b020c799e38f99a51fdd$ ;  
 $l = 044$ :  
 $S_1 = 45a78434ecb8a64eadbb5083c57268e3$ ,  $S_2 = 55d29a8228d8dcf2a1705d1e96b3eb76$ ,  
 $T_0 = 9b7a1eb7159183414f2bada25c265459$ ,  $T_1 = 2a5e809dd0f6a6558bcbac7ce9117aab$ ,  
 $T_2 = 5e93f6d4a13227f57cb50fcfed1d5110$ ,  $T_3 = 70855cce827e3dff88870e45e35d923b$ ,  
 $T_4 = 840fbb991527499e48b04a55132e5479$ ,  $T_5 = f71a1d68def7b37b7beaa650e7f8d7f5$ ,  
 $T_6 = f5c9bf53b062609e7ed919c95d5c1e73$ ,  $T_7 = e632991214f34f16e17567cacee4f5d5$ ,  
 $T_8 = 4f62316304b236494fcef247089e7d3a$ ,  $T_9 = 3c2835bb03e317b3d52fabfd687e74b3$ ;  
 $l = 045$ :  
 $S_1 = 29780ccfe169336b3995654e948941af$ ,  $S_2 = b2871341563f38487577f66536508f2f$ ,  
 $T_0 = dbff201137a86bb3af0d5bb3cad9d0de$ ,  $T_1 = 9b7a1eb7159183414f2bada25c265459$ ,  
 $T_2 = 2a5e809dd0f6a6558bcbac7ce9117aab$ ,  $T_3 = 5e93f6d4a13227f57cb50fcfed1d5110$ ,  
 $T_4 = 70855cce827e3dff88870e45e35d923b$ ,  $T_5 = ad87c868f6907d098245afa3a7b79628$ ,  
 $T_6 = f71a1d68def7b37b7beaa650e7f8d7f5$ ,  $T_7 = f5c9bf53b062609e7ed919c95d5c1e73$ ,  
 $T_8 = e632991214f34f16e17567cacee4f5d5$ ,  $T_9 = 4f62316304b236494fcef247089e7d3a$ ;  
 $l = 046$ :  
 $S_1 = e1a44a89f462afc5845da84c2a3ef93f$ ,  $S_2 = d2d0809173bde8245f60c9983e3bc2df$ ,  
 $T_0 = b474cb1b682097e9e3be71e4687abc1e$ ,  $T_1 = dbff201137a86bb3af0d5bb3cad9d0de$ ,  
 $T_2 = 9b7a1eb7159183414f2bada25c265459$ ,  $T_3 = 2a5e809dd0f6a6558bcbac7ce9117aab$ ,  
 $T_4 = 5e93f6d4a13227f57cb50fcfed1d5110$ ,  $T_5 = 5229a75876e0edc50ce4b6920d9c8b7a$ ,  
 $T_6 = ad87c868f6907d098245afa3a7b79628$ ,  $T_7 = f71a1d68def7b37b7beaa650e7f8d7f5$ ,  
 $T_8 = f5c9bf53b062609e7ed919c95d5c1e73$ ,  $T_9 = e632991214f34f16e17567cacee4f5d5$ ;  
 $l = 047$ :  
 $S_1 = 94d0af113729c217be33d1cbea48439f$ ,  $S_2 = 865e8b85aad3d7eb65ddacc1bda24534$ ,  
 $T_0 = 1b2f3a96e1fd9a0324117e8da7ea88d3$ ,  $T_1 = b474cb1b682097e9e3be71e4687abc1e$ ,  
 $T_2 = dbff201137a86bb3af0d5bb3cad9d0de$ ,  $T_3 = 9b7a1eb7159183414f2bada25c265459$ ,  
 $T_4 = 2a5e809dd0f6a6558bcbac7ce9117aab$ ,  $T_5 = f364a5e5d85bea0d3ae8e19bd76594af$ ,  
 $T_6 = 5229a75876e0edc50ce4b6920d9c8b7a$ ,  $T_7 = ad87c868f6907d098245afa3a7b79628$ ,  
 $T_8 = f71a1d68def7b37b7beaa650e7f8d7f5$ ,  $T_9 = f5c9bf53b062609e7ed919c95d5c1e73$ ;

$l = 048:$   
 $S_1 = ff348c96c514936f190ec0dd673d0f73,$   $S_2 = 329f7fd3a8cf59997c74c4a518885f0e,$   
 $T_0 = 31d40c6a6de3ed08958385827fc56e81,$   $T_1 = 1b2f3a96e1fd9a0324117e8da7ea88d3,$   
 $T_2 = b474cb1b682097e9e3be71e4687abc1e,$   $T_3 = dbff201137a86bb3af0d5bb3cad9d0de,$   
 $T_4 = 9b7a1eb7159183414f2bada25c265459,$   $T_5 = 29930d34960b39c4a4da6d5a504e8a1e,$   
 $T_6 = f364a5e5d85bea0d3ae8e19bd76594af,$   $T_7 = 5229a75876e0edc50ce4b6920d9c8b7a,$   
 $T_8 = ad87c868f6907d098245afa3a7b79628,$   $T_9 = f71a1d68def7b37b7beaa650e7f8d7f5;$

$l = 049:$   
 $S_1 = c436010a0cdb0e77cc2ea3fc5883f1e1,$   $S_2 = 1dcad52cc41ca4809c8164a48ee7c954,$   
 $T_0 = e200d636d0f7b2f868b008a0e76bbb35,$   $T_1 = 31d40c6a6de3ed08958385827fc56e81,$   
 $T_2 = 1b2f3a96e1fd9a0324117e8da7ea88d3,$   $T_3 = b474cb1b682097e9e3be71e4687abc1e,$   
 $T_4 = dbff201137a86bb3af0d5bb3cad9d0de,$   $T_5 = 5fb01fc1226c91b91b5a519eb4aa463a,$   
 $T_6 = 29930d34960b39c4a4da6d5a504e8a1e,$   $T_7 = f364a5e5d85bea0d3ae8e19bd76594af,$   
 $T_8 = 5229a75876e0edc50ce4b6920d9c8b7a,$   $T_9 = ad87c868f6907d098245afa3a7b79628;$

$l = 050:$   
 $S_1 = 46dd867c099960a258c1cc263c051c31,$   $S_2 = c0520bf4d696df75cd0406822653ac07,$   
 $T_0 = 072f9270e030401825c5d2a86258c838,$   $T_1 = e200d636d0f7b2f868b008a0e76bbb35,$   
 $T_2 = 31d40c6a6de3ed08958385827fc56e81,$   $T_3 = 1b2f3a96e1fd9a0324117e8da7ea88d3,$   
 $T_4 = b474cb1b682097e9e3be71e4687abc1e,$   $T_5 = 22dca68d4141cc5607cf27da06deed0f,$   
 $T_6 = 5fb01fc1226c91b91b5a519eb4aa463a,$   $T_7 = 29930d34960b39c4a4da6d5a504e8a1e,$   
 $T_8 = f364a5e5d85bea0d3ae8e19bd76594af,$   $T_9 = 5229a75876e0edc50ce4b6920d9c8b7a;$

$l = 051:$   
 $S_1 = 9d464e73ed9f677e46dd53f23626552c,$   $S_2 = b1fcfa080eb6d2167fefae7f567eb71b,$   
 $T_0 = 4f43487bfc563994c6cd02718ca50c47,$   $T_1 = 072f9270e030401825c5d2a86258c838,$   
 $T_2 = e200d636d0f7b2f868b008a0e76bbb35,$   $T_3 = 31d40c6a6de3ed08958385827fc56e81,$   
 $T_4 = 1b2f3a96e1fd9a0324117e8da7ea88d3,$   $T_5 = 51bb198f55bfff682a9bc5d69ea1114a,$   
 $T_6 = 22dca68d4141cc5607cf27da06deed0f,$   $T_7 = 5fb01fc1226c91b91b5a519eb4aa463a,$   
 $T_8 = 29930d34960b39c4a4da6d5a504e8a1e,$   $T_9 = f364a5e5d85bea0d3ae8e19bd76594af;$

$l = 052:$   
 $S_1 = d447b8d8bbdf5eb31b00054ec7e97c6a,$   $S_2 = 443f75c41b0b8e86a70f665667ae805e,$   
 $T_0 = 18872e9cd6eaed39c20f6ba52f97fcc8,$   $T_1 = 4f43487bfc563994c6cd02718ca50c47,$   
 $T_2 = 072f9270e030401825c5d2a86258c838,$   $T_3 = e200d636d0f7b2f868b008a0e76bbb35,$   
 $T_4 = 31d40c6a6de3ed08958385827fc56e81,$   $T_5 = ef76f36f9ddcf8b63f1183dc6fd4053d,$   
 $T_6 = 51bb198f55bfff682a9bc5d69ea1114a,$   $T_7 = 22dca68d4141cc5607cf27da06deed0f,$   
 $T_8 = 5fb01fc1226c91b91b5a519eb4aa463a,$   $T_9 = 29930d34960b39c4a4da6d5a504e8a1e;$

$l = 053:$   
 $S_1 = 920a034764cd4c59d142ccb617246670,$   $S_2 = fe18893410aee88b0d5c5ecc2f10695e,$   
 $T_0 = 90228c7b757c34e4de9f2b824634cfce,$   $T_1 = 18872e9cd6eaed39c20f6ba52f97fcc8,$   
 $T_2 = 4f43487bfc563994c6cd02718ca50c47,$   $T_3 = 072f9270e030401825c5d2a86258c838,$   
 $T_4 = e200d636d0f7b2f868b008a0e76bbb35,$   $T_5 = c3de0fb1d2b1396266c6523896e9d4f1,$   
 $T_6 = ef76f36f9ddcf8b63f1183dc6fd4053d,$   $T_7 = 51bb198f55bfff682a9bc5d69ea1114a,$   
 $T_8 = 22dca68d4141cc5607cf27da06deed0f,$   $T_9 = 5fb01fc1226c91b91b5a519eb4aa463a;$

$l = 054:$   
 $S_1 = 2929f2b56db6d1cc4afca404bbe10b41,$   $S_2 = 36af94810c5b5319af420e0e36812cc3,$   
 $T_0 = 5fd987367a1224e5fa3eb212f2623804,$   $T_1 = 90228c7b757c34e4de9f2b824634cfce,$   
 $T_2 = 18872e9cd6eaed39c20f6ba52f97fcc8,$   $T_3 = 4f43487bfc563994c6cd02718ca50c47,$   
 $T_4 = 072f9270e030401825c5d2a86258c838,$   $T_5 = 0b2ac8ec3eae84c4b3acaca5a34cc676,$   
 $T_6 = c3de0fb1d2b1396266c6523896e9d4f1,$   $T_7 = ef76f36f9ddcf8b63f1183dc6fd4053d,$   
 $T_8 = 51bb198f55bfff682a9bc5d69ea1114a,$   $T_9 = 22dca68d4141cc5607cf27da06deed0f;$

$l = 055:$   
 $S_1 = 1ec733eb645de1bf530ad1b21295e2cf,$   $S_2 = a8f8055bb2b0f5ba2bc4662b1f6fa040,$   
 $T_0 = c7bf3947170ed7797ecf37dd3205830f,$   $T_1 = 5fd987367a1224e5fa3eb212f2623804,$



$T_2 = 90228c7b757c34e4de9f2b824634cfce$ ,  $T_3 = 18872e9cd6eaed39c20f6ba52f97fcc8$ ,  
 $T_4 = 4f43487bfc563994c6cd02718ca50c47$ ,  $T_5 = 25f6c65c448e21d778d0a45a74eeab07$ ,  
 $T_6 = 0b2ac8ec3eae84c4b3acaca5a34cc676$ ,  $T_7 = c3de0fb1d2b1396266c6523896e9d4f1$ ,  
 $T_8 = ef76f36f9ddcf8b63f1183dc6fd4053d$ ,  $T_9 = 51bb198f55bfff682a9bc5d69ea1114a$ ;  
 $l = 056$ :  
 $S_1 = 15c151fa81d97134381087d71ecef891$ ,  $S_2 = 901fb2ed3b1a5152c9328f06768994ce$ ,  
 $T_0 = a5e104e7bcf3c287014316dd95588d5f$ ,  $T_1 = c7bf3947170ed7797ecf37dd3205830f$ ,  
 $T_2 = 5fd987367a1224e5fa3eb212f2623804$ ,  $T_3 = 90228c7b757c34e4de9f2b824634cfce$ ,  
 $T_4 = 18872e9cd6eaed39c20f6ba52f97fcc8$ ,  $T_5 = 65049a767e2faac8fedd8a48ab7404d8$ ,  
 $T_6 = 25f6c65c448e21d778d0a45a74eeab07$ ,  $T_7 = 0b2ac8ec3eae84c4b3acaca5a34cc676$ ,  
 $T_8 = c3de0fb1d2b1396266c6523896e9d4f1$ ,  $T_9 = ef76f36f9ddcf8b63f1183dc6fd4053d$ ;  
 $l = 057$ :  
 $S_1 = 70f10dd72bb2e866ed16ab7860cba6b8$ ,  $S_2 = f00a1d374c8e7219e1616390eefece67$ ,  
 $T_0 = 60fb2b0e78415a80ce780f094fca751f$ ,  $T_1 = a5e104e7bcf3c287014316dd95588d5f$ ,  
 $T_2 = c7bf3947170ed7797ecf37dd3205830f$ ,  $T_3 = 5fd987367a1224e5fa3eb212f2623804$ ,  
 $T_4 = 90228c7b757c34e4de9f2b824634cfce$ ,  $T_5 = 89783c74029dd5a0af26171d9063a380$ ,  
 $T_6 = 65049a767e2faac8fedd8a48ab7404d8$ ,  $T_7 = 25f6c65c448e21d778d0a45a74eeab07$ ,  
 $T_8 = 0b2ac8ec3eae84c4b3acaca5a34cc676$ ,  $T_9 = c3de0fb1d2b1396266c6523896e9d4f1$ ;  
 $l = 058$ :  
 $S_1 = 8dd3a07472cccb053e39c7f9a10b67b8$ ,  $S_2 = ae8115c0ad5031e63a8c44572560e254$ ,  
 $T_0 = 3c54b635201cfceb78c60c50c66c4a0c$ ,  $T_1 = 60fb2b0e78415a80ce780f094fca751f$ ,  
 $T_2 = a5e104e7bcf3c287014316dd95588d5f$ ,  $T_3 = c7bf3947170ed7797ecf37dd3205830f$ ,  
 $T_4 = 5fd987367a1224e5fa3eb212f2623804$ ,  $T_5 = 1df62cefe848ffea1cd8f37be7403786$ ,  
 $T_6 = 89783c74029dd5a0af26171d9063a380$ ,  $T_7 = 65049a767e2faac8fedd8a48ab7404d8$ ,  
 $T_8 = 25f6c65c448e21d778d0a45a74eeab07$ ,  $T_9 = 0b2ac8ec3eae84c4b3acaca5a34cc676$ ;  
 $l = 059$ :  
 $S_1 = 8c6a1313e2ca453a709f542450b09b20$ ,  $S_2 = 0ee0c13f830f6bf03984fc5ce7ab970a$ ,  
 $T_0 = 9b4ad45365d9b12aaa245081385c322a$ ,  $T_1 = 3c54b635201cfceb78c60c50c66c4a0c$ ,  
 $T_2 = 60fb2b0e78415a80ce780f094fca751f$ ,  $T_3 = a5e104e7bcf3c287014316dd95588d5f$ ,  
 $T_4 = c7bf3947170ed7797ecf37dd3205830f$ ,  $T_5 = ec439a4a5cdc6a206ade06374312d324$ ,  
 $T_6 = 1df62cefe848ffea1cd8f37be7403786$ ,  $T_7 = 89783c74029dd5a0af26171d9063a380$ ,  
 $T_8 = 65049a767e2faac8fedd8a48ab7404d8$ ,  $T_9 = 25f6c65c448e21d778d0a45a74eeab07$ ;  
 $l = 060$ :  
 $S_1 = 270d54296ae58bc9405de27c22a5f84c$ ,  $S_2 = 8bc9ad149fb4d2f33468d49439b4c4cf$ ,  
 $T_0 = b2d7013e0a9a5ebc74c6b7105c5abd1b$ ,  $T_1 = 9b4ad45365d9b12aaa245081385c322a$ ,  
 $T_2 = 3c54b635201cfceb78c60c50c66c4a0c$ ,  $T_3 = 60fb2b0e78415a80ce780f094fca751f$ ,  
 $T_4 = a5e104e7bcf3c287014316dd95588d5f$ ,  $T_5 = eecc8d7081f46342bf2d1a5954ab7b5b$ ,  
 $T_6 = ec439a4a5cdc6a206ade06374312d324$ ,  $T_7 = 1df62cefe848ffea1cd8f37be7403786$ ,  
 $T_8 = 89783c74029dd5a0af26171d9063a380$ ,  $T_9 = 65049a767e2faac8fedd8a48ab7404d8$ ;  
 $l = 061$ :  
 $S_1 = 45272a64adad6712046da2a9642a1ffd$ ,  $S_2 = 959dc7bbb177f5338125eff067c1329d$ ,  
 $T_0 = dac4f2205f255c4585939299cbeb529a$ ,  $T_1 = b2d7013e0a9a5ebc74c6b7105c5abd1b$ ,  
 $T_2 = 9b4ad45365d9b12aaa245081385c322a$ ,  $T_3 = 3c54b635201cfceb78c60c50c66c4a0c$ ,  
 $T_4 = 60fb2b0e78415a80ce780f094fca751f$ ,  $T_5 = eb082f4c6aa1299905b0b986f982ad5c$ ,  
 $T_6 = eecc8d7081f46342bf2d1a5954ab7b5b$ ,  $T_7 = ec439a4a5cdc6a206ade06374312d324$ ,  
 $T_8 = 1df62cefe848ffea1cd8f37be7403786$ ,  $T_9 = 89783c74029dd5a0af26171d9063a380$ ;  
 $l = 062$ :  
 $S_1 = b746fe43c7e4dbcb2dbb4212624737d6$ ,  $S_2 = fea8332f1b6a2c6e276e306d40cbf920$ ,  
 $T_0 = b5ef3172e34f08395529727fa31330f6$ ,  $T_1 = dac4f2205f255c4585939299cbeb529a$ ,  
 $T_2 = b2d7013e0a9a5ebc74c6b7105c5abd1b$ ,  $T_3 = 9b4ad45365d9b12aaa245081385c322a$ ,  
 $T_4 = 3c54b635201cfceb78c60c50c66c4a0c$ ,  $T_5 = 184229524026364bfc33511bb211acf5$ ,  
 $T_6 = eb082f4c6aa1299905b0b986f982ad5c$ ,  $T_7 = eecc8d7081f46342bf2d1a5954ab7b5b$ ,

$T_8 = ec439a4a5cdc6a206ade06374312d324$ ,  $T_9 = 1df62cefe848ffea1cd8f37be7403786$ ;  
 $l = 063$ :  
 $S_1 = ac1746ad82e99ead180d663857329086$ ,  $S_2 = c50907f039c5c3e4e085fb08e8cf007e$ ,  
 $T_0 = 71204e9dbcaf6291f893614140019104$ ,  $T_1 = b5ef3172e34f08395529727fa31330f6$ ,  
 $T_2 = dac4f2205f255c4585939299cbeb529a$ ,  $T_3 = b2d7013e0a9a5ebc74c6b7105c5abd1b$ ,  
 $T_4 = 9b4ad45365d9b12aaa245081385c322a$ ,  $T_5 = e86bfce2a3069b9890d372891d9eda92$ ,  
 $T_6 = 184229524026364bfc33511bb211acf5$ ,  $T_7 = eb082f4c6aa1299905b0b986f982ad5c$ ,  
 $T_8 = eecc8d7081f46342bf2d1a5954ab7b5b$ ,  $T_9 = ec439a4a5cdc6a206ade06374312d324$ ;  
 $l = 064$ :  
 $S_1 = cf15e9b86630cf1dc4f8d6f3244ea65c$ ,  $S_2 = f88f501fc06d9c961c90d4d4de9c566d$ ,  
 $T_0 = c7a539d8269e6bb3e189abc802eafcc9$ ,  $T_1 = 71204e9dbcaf6291f893614140019104$ ,  
 $T_2 = b5ef3172e34f08395529727fa31330f6$ ,  $T_3 = dac4f2205f255c4585939299cbeb529a$ ,  
 $T_4 = b2d7013e0a9a5ebc74c6b7105c5abd1b$ ,  $T_5 = 6a60be0bcc0a80486f1d27745caad886$ ,  
 $T_6 = e86bfce2a3069b9890d372891d9eda92$ ,  $T_7 = 184229524026364bfc33511bb211acf5$ ,  
 $T_8 = eb082f4c6aa1299905b0b986f982ad5c$ ,  $T_9 = eecc8d7081f46342bf2d1a5954ab7b5b$ ;  
 $l = 065$ :  
 $S_1 = 5e01c86bea12e412c486e735dee05b8a$ ,  $S_2 = 2bc2d7628288ce9dc819ad57273a5db5$ ,  
 $T_0 = 89c49fce6c9bb2b08ca0948d061ab93f$ ,  $T_1 = c7a539d8269e6bb3e189abc802eafcc9$ ,  
 $T_2 = 71204e9dbcaf6291f893614140019104$ ,  $T_3 = b5ef3172e34f08395529727fa31330f6$ ,  
 $T_4 = dac4f2205f255c4585939299cbeb529a$ ,  $T_5 = 10d8c9a9f4ad42cf394d9e463b3b18a5$ ,  
 $T_6 = 6a60be0bcc0a80486f1d27745caad886$ ,  $T_7 = e86bfce2a3069b9890d372891d9eda92$ ,  
 $T_8 = 184229524026364bfc33511bb211acf5$ ,  $T_9 = eb082f4c6aa1299905b0b986f982ad5c$ ;  
 $l = 066$ :  
 $S_1 = 3ede5acc0b8e740facf833a9eaceb92e$ ,  $S_2 = 64a791db7c2e36718678f9161f0447a6$ ,  
 $T_0 = a385eca787bcaa8133712cc009d300d4$ ,  $T_1 = 89c49fce6c9bb2b08ca0948d061ab93f$ ,  
 $T_2 = c7a539d8269e6bb3e189abc802eafcc9$ ,  $T_3 = 71204e9dbcaf6291f893614140019104$ ,  
 $T_4 = b5ef3172e34f08395529727fa31330f6$ ,  $T_5 = 19a34cec6ab3d055328bc643b6ba0bc8$ ,  
 $T_6 = 10d8c9a9f4ad42cf394d9e463b3b18a5$ ,  $T_7 = 6a60be0bcc0a80486f1d27745caad886$ ,  
 $T_8 = e86bfce2a3069b9890d372891d9eda92$ ,  $T_9 = 184229524026364bfc33511bb211acf5$ ;  
 $l = 067$ :  
 $S_1 = 4ab8ca5a3b25a50a061674b0229c6fda$ ,  $S_2 = 08b288afcdc69fe00399df53b17aa6da$ ,  
 $T_0 = 536b530a08ec44ea09b05403d41716b4$ ,  $T_1 = a385eca787bcaa8133712cc009d300d4$ ,  
 $T_2 = 89c49fce6c9bb2b08ca0948d061ab93f$ ,  $T_3 = c7a539d8269e6bb3e189abc802eafcc9$ ,  
 $T_4 = 71204e9dbcaf6291f893614140019104$ ,  $T_5 = 00a7fbcd1e74ad435b3fe72fc5afa0d0$ ,  
 $T_6 = 19a34cec6ab3d055328bc643b6ba0bc8$ ,  $T_7 = 10d8c9a9f4ad42cf394d9e463b3b18a5$ ,  
 $T_8 = 6a60be0bcc0a80486f1d27745caad886$ ,  $T_9 = e86bfce2a3069b9890d372891d9eda92$ ;  
 $l = 068$ :  
 $S_1 = e362d11ea8fc3ee810beb95e31e1580b$ ,  $S_2 = d2c7dc6c6fdecffa73bbd631e22cf9b0$ ,  
 $T_0 = b62aad8b18db0ee2847a8f90140e51bb$ ,  $T_1 = 536b530a08ec44ea09b05403d41716b4$ ,  
 $T_2 = a385eca787bcaa8133712cc009d300d4$ ,  $T_3 = 89c49fce6c9bb2b08ca0948d061ab93f$ ,  
 $T_4 = c7a539d8269e6bb3e189abc802eafcc9$ ,  $T_5 = 54831fbc65aba17a09521a9f71e2e90f$ ,  
 $T_6 = 00a7fbcd1e74ad435b3fe72fc5afa0d0$ ,  $T_7 = 19a34cec6ab3d055328bc643b6ba0bc8$ ,  
 $T_8 = 10d8c9a9f4ad42cf394d9e463b3b18a5$ ,  $T_9 = 6a60be0bcc0a80486f1d27745caad886$ ;  
 $l = 069$ :  
 $S_1 = f79a02eb596cd77ac8c12b0b89ff230d$ ,  $S_2 = e571e6b595d830ee2b0f4bbb62a93c69$ ,  
 $T_0 = dd0be9a0ef450868f3d076c6eca85f76$ ,  $T_1 = b62aad8b18db0ee2847a8f90140e51bb$ ,  
 $T_2 = 536b530a08ec44ea09b05403d41716b4$ ,  $T_3 = a385eca787bcaa8133712cc009d300d4$ ,  
 $T_4 = 89c49fce6c9bb2b08ca0948d061ab93f$ ,  $T_5 = bf3f3cc3800b432eaa4ad6d38cea1fd6$ ,  
 $T_6 = 54831fbc65aba17a09521a9f71e2e90f$ ,  $T_7 = 00a7fbcd1e74ad435b3fe72fc5afa0d0$ ,  
 $T_8 = 19a34cec6ab3d055328bc643b6ba0bc8$ ,  $T_9 = 10d8c9a9f4ad42cf394d9e463b3b18a5$ ;  
 $l = 070$ :  
 $S_1 = fc022e2c25867f046091e0fc96f82af6$ ,  $S_2 = 2d83e8d4112f0b976ae4bf4f293cb7f2$ ,

$T_0 = 2986170036b58a9bcb76a04bc034e2e8$ ,  $T_1 = dd0be9a0ef450868f3d076c6eca85f76$ ,  
 $T_2 = b62aad8b18db0ee2847a8f90140e51bb$ ,  $T_3 = 536b530a08ec44ea09b05403d41716b4$ ,  
 $T_4 = a385eca787bcaa8133712cc009d300d4$ ,  $T_5 = 85c6cdfa922231b4ed3275899d12e435$ ,  
 $T_6 = bf3f3cc3800b432eaa4ad6d38cea1fd6$ ,  $T_7 = 54831fbc65aba17a09521a9f71e2e90f$ ,  
 $T_8 = 00a7fbcd1e74ad435b3fe72fc5afa0d0$ ,  $T_9 = 19a34cec6ab3d055328bc643b6ba0bc8$ ;  
 $l = 071$ :  
 $S_1 = b1a9bae04cf49266af2f7ddc827b9078$ ,  $S_2 = 5687cec503bffbff4ad7e551916c55d6$ ,  
 $T_0 = 083189a550b48e65fa07632e13e7e64e$ ,  $T_1 = 2986170036b58a9bcb76a04bc034e2e8$ ,  
 $T_2 = dd0be9a0ef450868f3d076c6eca85f76$ ,  $T_3 = b62aad8b18db0ee2847a8f90140e51bb$ ,  
 $T_4 = 536b530a08ec44ea09b05403d41716b4$ ,  $T_5 = 552fa787d4b13ce7e2a0aa9c8c4e914c$ ,  
 $T_6 = 85c6cdfa922231b4ed3275899d12e435$ ,  $T_7 = bf3f3cc3800b432eaa4ad6d38cea1fd6$ ,  
 $T_8 = 54831fbc65aba17a09521a9f71e2e90f$ ,  $T_9 = 00a7fbcd1e74ad435b3fe72fc5afa0d0$ ;  
 $l = 072$ :  
 $S_1 = bef52d441277ffb201699d59220188bd$ ,  $S_2 = f6d5df74ca8fdc464fa2554f7f946368$ ,  
 $T_0 = b5cb0cb8dd07dbf8510bf2a8a195ec25$ ,  $T_1 = 083189a550b48e65fa07632e13e7e64e$ ,  
 $T_2 = 2986170036b58a9bcb76a04bc034e2e8$ ,  $T_3 = dd0be9a0ef450868f3d076c6eca85f76$ ,  
 $T_4 = b62aad8b18db0ee2847a8f90140e51bb$ ,  $T_5 = 1260804e1b64449c0b19f15cf6189f71$ ,  
 $T_6 = 552fa787d4b13ce7e2a0aa9c8c4e914c$ ,  $T_7 = 85c6cdfa922231b4ed3275899d12e435$ ,  
 $T_8 = bf3f3cc3800b432eaa4ad6d38cea1fd6$ ,  $T_9 = 54831fbc65aba17a09521a9f71e2e90f$ ;  
 $l = 073$ :  
 $S_1 = 8bf87a4584d55534f5678095c2ae12d6$ ,  $S_2 = 438fdd6d98221066b3fc2366854f3642$ ,  
 $T_0 = cf8857b31cf7659ba963a3fc47fd4918$ ,  $T_1 = b5cb0cb8dd07dbf8510bf2a8a195ec25$ ,  
 $T_2 = 083189a550b48e65fa07632e13e7e64e$ ,  $T_3 = 2986170036b58a9bcb76a04bc034e2e8$ ,  
 $T_4 = dd0be9a0ef450868f3d076c6eca85f76$ ,  $T_5 = 422327d09db0641779e21025d6bc6491$ ,  
 $T_6 = 1260804e1b64449c0b19f15cf6189f71$ ,  $T_7 = 552fa787d4b13ce7e2a0aa9c8c4e914c$ ,  
 $T_8 = 85c6cdfa922231b4ed3275899d12e435$ ,  $T_9 = bf3f3cc3800b432eaa4ad6d38cea1fd6$ ;  
 $l = 074$ :  
 $S_1 = bd826fc3583d0dab1c86e405f3ccc153$ ,  $S_2 = d6f9b447f36c3fac113fe25f68aefe51$ ,  
 $T_0 = 947c240b4ba94d572dc6c6655c7bbfa4$ ,  $T_1 = cf8857b31cf7659ba963a3fc47fd4918$ ,  
 $T_2 = b5cb0cb8dd07dbf8510bf2a8a195ec25$ ,  $T_3 = 083189a550b48e65fa07632e13e7e64e$ ,  
 $T_4 = 2986170036b58a9bcb76a04bc034e2e8$ ,  $T_5 = 9a8e59644782161410575acce07520c9$ ,  
 $T_6 = 422327d09db0641779e21025d6bc6491$ ,  $T_7 = 1260804e1b64449c0b19f15cf6189f71$ ,  
 $T_8 = 552fa787d4b13ce7e2a0aa9c8c4e914c$ ,  $T_9 = 85c6cdfa922231b4ed3275899d12e435$ ;  
 $l = 075$ :  
 $S_1 = e9b1ac08528fe94a69d2cfaf9aa8c849$ ,  $S_2 = 26d85181e3f98b9998ffe3e72e101a07$ ,  
 $T_0 = 1089fd8a368974e402d2b396c8b8e250$ ,  $T_1 = 947c240b4ba94d572dc6c6655c7bbfa4$ ,  
 $T_2 = cf8857b31cf7659ba963a3fc47fd4918$ ,  $T_3 = b5cb0cb8dd07dbf8510bf2a8a195ec25$ ,  
 $T_4 = 083189a550b48e65fa07632e13e7e64e$ ,  $T_5 = 1337c308894573e635496ffb5addab31$ ,  
 $T_6 = 9a8e59644782161410575acce07520c9$ ,  $T_7 = 422327d09db0641779e21025d6bc6491$ ,  
 $T_8 = 1260804e1b64449c0b19f15cf6189f71$ ,  $T_9 = 552fa787d4b13ce7e2a0aa9c8c4e914c$ ;  
 $l = 076$ :  
 $S_1 = 9ab5d92f046bc3ef7abd27cd0db84690$ ,  $S_2 = d1525f909532fe51961a40361ce91f05$ ,  
 $T_0 = 6c0838bf999ec24110d768032aa16595$ ,  $T_1 = 1089fd8a368974e402d2b396c8b8e250$ ,  
 $T_2 = 947c240b4ba94d572dc6c6655c7bbfa4$ ,  $T_3 = cf8857b31cf7659ba963a3fc47fd4918$ ,  
 $T_4 = b5cb0cb8dd07dbf8510bf2a8a195ec25$ ,  $T_5 = a2e762d45520525574c48afb21a02cde$ ,  
 $T_6 = 1337c308894573e635496ffb5addab31$ ,  $T_7 = 9a8e59644782161410575acce07520c9$ ,  
 $T_8 = 422327d09db0641779e21025d6bc6491$ ,  $T_9 = 1260804e1b64449c0b19f15cf6189f71$ ;  
 $l = 077$ :  
 $S_1 = e5b39d0d4097b045849ccd0d0ef65798$ ,  $S_2 = 2c81a696dc32a86772e9d91233ab97e9$ ,  
 $T_0 = 123543a41cca58ac786a61f42a1ef81$ ,  $T_1 = 6c0838bf999ec24110d768032aa16595$ ,  
 $T_2 = 1089fd8a368974e402d2b396c8b8e250$ ,  $T_3 = 947c240b4ba94d572dc6c6655c7bbfa4$ ,  
 $T_4 = cf8857b31cf7659ba963a3fc47fd4918$ ,  $T_5 = 9b7ea9c61d9f8c3dd5a8bfb5b08c43bd$ ,

$T_6 = a2e762d45520525574c48afb21a02cde$ ,  $T_7 = 1337c308894573e635496ffb5addab31$ ,  
 $T_8 = 9a8e59644782161410575acce07520c9$ ,  $T_9 = 422327d09db0641779e21025d6bc6491$ ;  
 $l = 078$ :  
 $S_1 = 7fcbe8dc6de507a7a28d48a6ba11ab08$ ,  $S_2 = bac19928009fca1d15318ed5190cf346$ ,  
 $T_0 = 3a8d82046e84d1c4b7bed77bd31e9e4e$ ,  $T_1 = 123543a41cca58acf786a61f42a1ef81$ ,  
 $T_2 = 6c0838bf999ec24110d768032aa16595$ ,  $T_3 = 1089fd8a368974e402d2b396c8b8e250$ ,  
 $T_4 = 947c240b4ba94d572dc6c6655c7bbfa4$ ,  $T_5 = 4f54408f8adc6d434bf0eca3020ef420$ ,  
 $T_6 = 9b7ea9c61d9f8c3dd5a8bfb5b08c43bd$ ,  $T_7 = a2e762d45520525574c48afb21a02cde$ ,  
 $T_8 = 1337c308894573e635496ffb5addab31$ ,  $T_9 = 9a8e59644782161410575acce07520c9$ ;  
 $l = 079$ :  
 $S_1 = a4faddbf5ccc9f999582e064820c80a0$ ,  $S_2 = 41dff5fe76d9bb2b0fcd71afc988dd7a$ ,  
 $T_0 = e6dad3bdd3a65ac4a55052144b955e1a$ ,  $T_1 = 3a8d82046e84d1c4b7bed77bd31e9e4e$ ,  
 $T_2 = 123543a41cca58acf786a61f42a1ef81$ ,  $T_3 = 6c0838bf999ec24110d768032aa16595$ ,  
 $T_4 = 1089fd8a368974e402d2b396c8b8e250$ ,  $T_5 = 397701caa875ecf0c349a6c9de884044$ ,  
 $T_6 = 4f54408f8adc6d434bf0eca3020ef420$ ,  $T_7 = 9b7ea9c61d9f8c3dd5a8bfb5b08c43bd$ ,  
 $T_8 = a2e762d45520525574c48afb21a02cde$ ,  $T_9 = 1337c308894573e635496ffb5addab31$ ;  
 $l = 080$ :  
 $S_1 = 6e554d7108f2dc1c59c97c524d381324$ ,  $S_2 = 87b2f01455da181347c4f79c20ae0fad$ ,  
 $T_0 = f6083d855eccf42fa18e73ee6de622d1$ ,  $T_1 = e6dad3bdd3a65ac4a55052144b955e1a$ ,  
 $T_2 = 3a8d82046e84d1c4b7bed77bd31e9e4e$ ,  $T_3 = 123543a41cca58acf786a61f42a1ef81$ ,  
 $T_4 = 6c0838bf999ec24110d768032aa16595$ ,  $T_5 = 7edf4afb3f7c51005c9c2fe915f0f574$ ,  
 $T_6 = 397701caa875ecf0c349a6c9de884044$ ,  $T_7 = 4f54408f8adc6d434bf0eca3020ef420$ ,  
 $T_8 = 9b7ea9c61d9f8c3dd5a8bfb5b08c43bd$ ,  $T_9 = a2e762d45520525574c48afb21a02cde$ ;  
 $l = 081$ :  
 $S_1 = 821bdfa93e3bf8c82082110c96710cc6$ ,  $S_2 = 8c7b364f28a0530d80804c29fd9eef11$ ,  
 $T_0 = 0e9715f866dc4bd5a1025d36940ffbd7$ ,  $T_1 = f6083d855eccf42fa18e73ee6de622d1$ ,  
 $T_2 = e6dad3bdd3a65ac4a55052144b955e1a$ ,  $T_3 = 3a8d82046e84d1c4b7bed77bd31e9e4e$ ,  
 $T_4 = 123543a41cca58acf786a61f42a1ef81$ ,  $T_5 = ee241868d7dabb093159790fc112725b$ ,  
 $T_6 = 7edf4afb3f7c51005c9c2fe915f0f574$ ,  $T_7 = 397701caa875ecf0c349a6c9de884044$ ,  
 $T_8 = 4f54408f8adc6d434bf0eca3020ef420$ ,  $T_9 = 9b7ea9c61d9f8c3dd5a8bfb5b08c43bd$ ;  
 $l = 082$ :  
 $S_1 = 237b9ea5262b26872c0965bbfeb6aa48$ ,  $S_2 = dc18ded630744d60d901feaed654afc7$ ,  
 $T_0 = ff947d7b569f73e8050b646ad50b5a0f$ ,  $T_1 = 0e9715f866dc4bd5a1025d36940ffbd7$ ,  
 $T_2 = f6083d855eccf42fa18e73ee6de622d1$ ,  $T_3 = e6dad3bdd3a65ac4a55052144b955e1a$ ,  
 $T_4 = 3a8d82046e84d1c4b7bed77bd31e9e4e$ ,  $T_5 = 35b0e24942f57f3423900bdb415899c9$ ,  
 $T_6 = ee241868d7dabb093159790fc112725b$ ,  $T_7 = 7edf4afb3f7c51005c9c2fe915f0f574$ ,  
 $T_8 = 397701caa875ecf0c349a6c9de884044$ ,  $T_9 = 4f54408f8adc6d434bf0eca3020ef420$ ;  
 $l = 083$ :  
 $S_1 = 02816526820665665975361dcd0c4865$ ,  $S_2 = 414dbca051578ef355962a4f489bdf25$ ,  
 $T_0 = 43cf21c6d35df459af0b606d15a8278a$ ,  $T_1 = ff947d7b569f73e8050b646ad50b5a0f$ ,  
 $T_2 = 0e9715f866dc4bd5a1025d36940ffbd7$ ,  $T_3 = f6083d855eccf42fa18e73ee6de622d1$ ,  
 $T_4 = e6dad3bdd3a65ac4a55052144b955e1a$ ,  $T_5 = 3d0ee72af08b372b11340d99a02ae6b3$ ,  
 $T_6 = 35b0e24942f57f3423900bdb415899c9$ ,  $T_7 = ee241868d7dabb093159790fc112725b$ ,  
 $T_8 = 7edf4afb3f7c51005c9c2fe915f0f574$ ,  $T_9 = 397701caa875ecf0c349a6c9de884044$ ;  
 $l = 084$ :  
 $S_1 = 843f3c6920c1a77b94d7f9eb74d9c77c$ ,  $S_2 = 41ffdc1d7923de0c50aac0cfbbe74da5$ ,  
 $T_0 = c63f188699e58587e582babb30c11521$ ,  $T_1 = 43cf21c6d35df459af0b606d15a8278a$ ,  
 $T_2 = ff947d7b569f73e8050b646ad50b5a0f$ ,  $T_3 = 0e9715f866dc4bd5a1025d36940ffbd7$ ,  
 $T_4 = f6083d855eccf42fa18e73ee6de622d1$ ,  $T_5 = 6b1a1026f46802403a284bffc06f2596$ ,  
 $T_6 = 3d0ee72af08b372b11340d99a02ae6b3$ ,  $T_7 = 35b0e24942f57f3423900bdb415899c9$ ,  
 $T_8 = ee241868d7dabb093159790fc112725b$ ,  $T_9 = 7edf4afb3f7c51005c9c2fe915f0f574$ ;  
 $l = 085$ :

$S_1 = 1bd34ea74fa6be6aba46e3d0c9e6bb4c$ ,  $S_2 = 2fcdfa1a8a4632699cb6e679bb4eb0e32$ ,  
 $T_0 = 4b9e404ff409e50485b54b6c7ed1c97e$ ,  $T_1 = c63f188699e58587e582babb30c11521$ ,  
 $T_2 = 43cf21c6d35df459af0b606d15a8278a$ ,  $T_3 = ff947d7b569f73e8050b646ad50b5a0f$ ,  
 $T_4 = 0e9715f866dc4bd5a1025d36940ffbd7$ ,  $T_5 = 11db8c2cae73b29a5bd557bf37ccde1d$ ,  
 $T_6 = 6b1a1026f46802403a284bffc06f2596$ ,  $T_7 = 3d0ee72af08b372b11340d99a02ae6b3$ ,  
 $T_8 = 35b0e24942f57f3423900bdb415899c9$ ,  $T_9 = ee241868d7dabb093159790fc112725b$ ;  
 $l = 086$ :  
 $S_1 = de2004ad3673e268b7a379f21eec6f60$ ,  $S_2 = f005cb91a8c6babc53543121ec5af332$ ,  
 $T_0 = ce25d03edf3a9d250af7ab140b476292$ ,  $T_1 = 4b9e404ff409e50485b54b6c7ed1c97e$ ,  
 $T_2 = c63f188699e58587e582babb30c11521$ ,  $T_3 = 43cf21c6d35df459af0b606d15a8278a$ ,  
 $T_4 = ff947d7b569f73e8050b646ad50b5a0f$ ,  $T_5 = ecb71aa59d502e3e58a5d728b2fc6b37$ ,  
 $T_6 = 11db8c2cae73b29a5bd557bf37ccde1d$ ,  $T_7 = 6b1a1026f46802403a284bffc06f2596$ ,  
 $T_8 = 3d0ee72af08b372b11340d99a02ae6b3$ ,  $T_9 = 35b0e24942f57f3423900bdb415899c9$ ;  
 $l = 087$ :  
 $S_1 = 35a6d38aaf6f4904dad4468dd1e3fc19$ ,  $S_2 = ce6dfb2784d65ba9df1fb6e94fc51ceb$ ,  
 $T_0 = 0414ceb23445a4aeb9f3fd7721a91904$ ,  $T_1 = ce25d03edf3a9d250af7ab140b476292$ ,  
 $T_2 = 4b9e404ff409e50485b54b6c7ed1c97e$ ,  $T_3 = c63f188699e58587e582babb30c11521$ ,  
 $T_4 = 43cf21c6d35df459af0b606d15a8278a$ ,  $T_5 = 353b5106060ebcecdfdfaaaf8a6ef5628$ ,  
 $T_6 = ecb71aa59d502e3e58a5d728b2fc6b37$ ,  $T_7 = 11db8c2cae73b29a5bd557bf37ccde1d$ ,  
 $T_8 = 6b1a1026f46802403a284bffc06f2596$ ,  $T_9 = 3d0ee72af08b372b11340d99a02ae6b3$ ;  
 $l = 088$ :  
 $S_1 = a529b668fcfd8ed748522aac829bf32$ ,  $S_2 = 1f1bfcba52a6a4a359f9cff73e9d5a0$ ,  
 $T_0 = c445b328a2274337aa24bfaa3c1394d2$ ,  $T_1 = 0414ceb23445a4aeb9f3fd7721a91904$ ,  
 $T_2 = ce25d03edf3a9d250af7ab140b476292$ ,  $T_3 = 4b9e404ff409e50485b54b6c7ed1c97e$ ,  
 $T_4 = c63f188699e58587e582babb30c11521$ ,  $T_5 = e8f8d82fd05acd4723908317ddd1e6bc$ ,  
 $T_6 = 353b5106060ebcecdfdfaaaf8a6ef5628$ ,  $T_7 = ecb71aa59d502e3e58a5d728b2fc6b37$ ,  
 $T_8 = 11db8c2cae73b29a5bd557bf37ccde1d$ ,  $T_9 = 6b1a1026f46802403a284bffc06f2596$ ;  
 $l = 089$ :  
 $S_1 = 991bff4f5ac36a5bc11c39cec26e1fcb$ ,  $S_2 = 4df76138e719177285733b6276d64cd5$ ,  
 $T_0 = e713608841dc81ce468f753139446ca0$ ,  $T_1 = c445b328a2274337aa24bfaa3c1394d2$ ,  
 $T_2 = 0414ceb23445a4aeb9f3fd7721a91904$ ,  $T_3 = ce25d03edf3a9d250af7ab140b476292$ ,  
 $T_4 = 4b9e404ff409e50485b54b6c7ed1c97e$ ,  $T_5 = 5f5b17d5f4a8efe3a69ef489f32f34ec$ ,  
 $T_6 = e8f8d82fd05acd4723908317ddd1e6bc$ ,  $T_7 = 353b5106060ebcecdfdfaaaf8a6ef5628$ ,  
 $T_8 = ecb71aa59d502e3e58a5d728b2fc6b37$ ,  $T_9 = 11db8c2cae73b29a5bd557bf37ccde1d$ ;  
 $l = 090$ :  
 $S_1 = 9453e2c2e66be5d51b74fe8b06929914$ ,  $S_2 = 39301338dd35cba46de0574e5668e389$ ,  
 $T_0 = cd83f5fbc3a1b179895555d95cfb7c9d$ ,  $T_1 = e713608841dc81ce468f753139446ca0$ ,  
 $T_2 = c445b328a2274337aa24bfaa3c1394d2$ ,  $T_3 = 0414ceb23445a4aeb9f3fd7721a91904$ ,  
 $T_4 = ce25d03edf3a9d250af7ab140b476292$ ,  $T_5 = dff22312da75cad9a12a49f785646292$ ,  
 $T_6 = 5f5b17d5f4a8efe3a69ef489f32f34ec$ ,  $T_7 = e8f8d82fd05acd4723908317ddd1e6bc$ ,  
 $T_8 = 353b5106060ebcecdfdfaaaf8a6ef5628$ ,  $T_9 = ecb71aa59d502e3e58a5d728b2fc6b37$ ;  
 $l = 091$ :  
 $S_1 = 55cbf9e9cb29d25d559b8e24dcba06b5$ ,  $S_2 = 3eba03ed43340d60e484e8b10f544d74$ ,  
 $T_0 = 9485fdd70e5ddfbe3a2076d5ec0e5429$ ,  $T_1 = cd83f5fbc3a1b179895555d95cfb7c9d$ ,  
 $T_2 = e713608841dc81ce468f753139446ca0$ ,  $T_3 = c445b328a2274337aa24bfaa3c1394d2$ ,  
 $T_4 = 0414ceb23445a4aeb9f3fd7721a91904$ ,  $T_5 = 23f1ca28aa646f8260933938e8016947$ ,  
 $T_6 = dff22312da75cad9a12a49f785646292$ ,  $T_7 = 5f5b17d5f4a8efe3a69ef489f32f34ec$ ,  
 $T_8 = e8f8d82fd05acd4723908317ddd1e6bc$ ,  $T_9 = 353b5106060ebcecdfdfaaaf8a6ef5628$ ;  
 $l = 092$ :  
 $S_1 = de3d80789b070371259855386ed48707$ ,  $S_2 = 4f8c9294cfe9f59c27d3b9011fbc3e6e$ ,  
 $T_0 = 2dca130d6af0f90d4d6c0e398e92c575$ ,  $T_1 = 9485fdd70e5ddfbe3a2076d5ec0e5429$ ,  
 $T_2 = cd83f5fbc3a1b179895555d95cfb7c9d$ ,  $T_3 = e713608841dc81ce468f753139446ca0$ ,

$T_4 = c445b328a2274337aa24bfaa3c1394d2$ ,  $T_5 = e2524f2acf4ca81fdf8c52af907da00b$ ,  
 $T_6 = 23f1ca28aa646f8260933938e8016947$ ,  $T_7 = dff22312da75cad9a12a49f785646292$ ,  
 $T_8 = 5f5b17d5f4a8efe3a69ef489f32f34ec$ ,  $T_9 = e8f8d82fd05acd4723908317ddd1e6bc$ ;  
 $l = 093$ :  
 $S_1 = c32d4ed735b3108809598c587d447f58$ ,  $S_2 = 96947e778f69e78a1e765d159bb06985$ ,  
 $T_0 = 59c1cd4ec51cf81227cfe96e18f4e8dd$ ,  $T_1 = 2dca130d6af0f90d4d6c0e398e92c575$ ,  
 $T_2 = 9485fdd70e5ddfbe3a2076d5ec0e5429$ ,  $T_3 = cd83f5fbc3a1b179895555d95cfb7c9d$ ,  
 $T_4 = e713608841dc81ce468f753139446ca0$ ,  $T_5 = 877301ffd7da53bfb37e4c02b958142a$ ,  
 $T_6 = e2524f2acf4ca81fdf8c52af907da00b$ ,  $T_7 = 23f1ca28aa646f8260933938e8016947$ ,  
 $T_8 = dff22312da75cad9a12a49f785646292$ ,  $T_9 = 5f5b17d5f4a8efe3a69ef489f32f34ec$ ;  
 $l = 094$ :  
 $S_1 = da0db8d9ef6de29dffaf2765c047d241$ ,  $S_2 = 69ac3a243ef9e8c48f2e4eb24ffe08a4$ ,  
 $T_0 = 43b9f2fe2e67cb628edd76181045dae5$ ,  $T_1 = 59c1cd4ec51cf81227cfe96e18f4e8dd$ ,  
 $T_2 = 2dca130d6af0f90d4d6c0e398e92c575$ ,  $T_3 = 9485fdd70e5ddfbe3a2076d5ec0e5429$ ,  
 $T_4 = cd83f5fbc3a1b179895555d95cfb7c9d$ ,  $T_5 = c1211962314a646c463e9c96f98c3ee1$ ,  
 $T_6 = 877301ffd7da53bfb37e4c02b958142a$ ,  $T_7 = e2524f2acf4ca81fdf8c52af907da00b$ ,  
 $T_8 = 23f1ca28aa646f8260933938e8016947$ ,  $T_9 = dff22312da75cad9a12a49f785646292$ ;  
 $l = 095$ :  
 $S_1 = f1465e5e85c83879a2f44bb15bd445b5$ ,  $S_2 = d612154bf3781ab863d6abac385933cd$ ,  
 $T_0 = c75873aa7940533206caf75d942d7982$ ,  $T_1 = 43b9f2fe2e67cb628edd76181045dae5$ ,  
 $T_2 = 59c1cd4ec51cf81227cfe96e18f4e8dd$ ,  $T_3 = 2dca130d6af0f90d4d6c0e398e92c575$ ,  
 $T_4 = 9485fdd70e5ddfbe3a2076d5ec0e5429$ ,  $T_5 = beca545a4969e9f32c49a18ab8cfc252$ ,  
 $T_6 = c1211962314a646c463e9c96f98c3ee1$ ,  $T_7 = 877301ffd7da53bfb37e4c02b958142a$ ,  
 $T_8 = e2524f2acf4ca81fdf8c52af907da00b$ ,  $T_9 = 23f1ca28aa646f8260933938e8016947$ ;  
 $l = 096$ :  
 $S_1 = 4cb9b212b3a22d64fc967b095fd17e5d$ ,  $S_2 = 173b2706642d2663a7ab872bb6b1eb15$ ,  
 $T_0 = 63f4d91917cf53c8a442023516836972$ ,  $T_1 = c75873aa7940533206caf75d942d7982$ ,  
 $T_2 = 43b9f2fe2e67cb628edd76181045dae5$ ,  $T_3 = 59c1cd4ec51cf81227cfe96e18f4e8dd$ ,  
 $T_4 = 2dca130d6af0f90d4d6c0e398e92c575$ ,  $T_5 = e13fafa9c2000d2336b6f1df4bdfd286$ ,  
 $T_6 = beca545a4969e9f32c49a18ab8cfc252$ ,  $T_7 = c1211962314a646c463e9c96f98c3ee1$ ,  
 $T_8 = 877301ffd7da53bfb37e4c02b958142a$ ,  $T_9 = e2524f2acf4ca81fdf8c52af907da00b$ ;  
 $l = 097$ :  
 $S_1 = 53426c0a8aef36befaeab17d5d9685d8$ ,  $S_2 = db9dec8f7d5cdfeca01f5e56db0ff1c$ ,  
 $T_0 = 2ee058c382c504bdc4ecad62cb4784f4$ ,  $T_1 = 63f4d91917cf53c8a442023516836972$ ,  
 $T_2 = c75873aa7940533206caf75d942d7982$ ,  $T_3 = 43b9f2fe2e67cb628edd76181045dae5$ ,  
 $T_4 = 59c1cd4ec51cf81227cfe96e18f4e8dd$ ,  $T_5 = 810c7f17f5e02fcc4856bfb6ec294b4d$ ,  
 $T_6 = e13fafa9c2000d2336b6f1df4bdfd286$ ,  $T_7 = beca545a4969e9f32c49a18ab8cfc252$ ,  
 $T_8 = c1211962314a646c463e9c96f98c3ee1$ ,  $T_9 = 877301ffd7da53bfb37e4c02b958142a$ ;  
 $l = 098$ :  
 $S_1 = 8cf281f489447865819d07c488f256fc$ ,  $S_2 = 50a3d96f2de2cbbabd040a2086730cde$ ,  
 $T_0 = dd965b63b72744203ea111e50f6563da$ ,  $T_1 = 2ee058c382c504bdc4ecad62cb4784f4$ ,  
 $T_2 = 63f4d91917cf53c8a442023516836972$ ,  $T_3 = c75873aa7940533206caf75d942d7982$ ,  
 $T_4 = 43b9f2fe2e67cb628edd76181045dae5$ ,  $T_5 = e6b44f434e617077a96cf132a1e73fd9$ ,  
 $T_6 = 810c7f17f5e02fcc4856bfb6ec294b4d$ ,  $T_7 = e13fafa9c2000d2336b6f1df4bdfd286$ ,  
 $T_8 = beca545a4969e9f32c49a18ab8cfc252$ ,  $T_9 = c1211962314a646c463e9c96f98c3ee1$ ;  
 $l = 099$ :  
 $S_1 = e18b8a4a8dc5a73ac126f7d2b8697c9a$ ,  $S_2 = bf7079b51fb195160308e2d8f3b4613f$ ,  
 $T_0 = a0fc03ffad773c50c42fdaabac1dddd9$ ,  $T_1 = dd965b63b72744203ea111e50f6563da$ ,  
 $T_2 = 2ee058c382c504bdc4ecad62cb4784f4$ ,  $T_3 = 63f4d91917cf53c8a442023516836972$ ,  
 $T_4 = c75873aa7940533206caf75d942d7982$ ,  $T_5 = 25457d48bc2d729d50046deac8af577f$ ,  
 $T_6 = e6b44f434e617077a96cf132a1e73fd9$ ,  $T_7 = 810c7f17f5e02fcc4856bfb6ec294b4d$ ,  
 $T_8 = e13fafa9c2000d2336b6f1df4bdfd286$ ,  $T_9 = beca545a4969e9f32c49a18ab8cfc252$ ;

$l = 100$ :  
 $S_1 = a81c4a3738fbf0f2346a384dc7a8a180$ ,  $S_2 = 87390c3c739f83cdd0a85b8261150e82$ ,  
 $T_0 = 2f555673ac9b74c0051293d028bdb002$ ,  $T_1 = a0fc03ffad773c50c42fdaabac1dddd9$ ,  
 $T_2 = dd965b63b72744203ea111e50f6563da$ ,  $T_3 = 2ee058c382c504bdc4ecad62cb4784f4$ ,  
 $T_4 = 63f4d91917cf53c8a442023516836972$ ,  $T_5 = 6f74bde1b23c44243b352fab5bd61b02$ ,  
 $T_6 = 25457d48bc2d729d50046deac8af577f$ ,  $T_7 = e6b44f434e617077a96cf132a1e73fd9$ ,  
 $T_8 = 810c7f17f5e02fcc4856bfb6ec294b4d$ ,  $T_9 = e13fafa9c2000d2336b6f1df4bdf4d286$ ;  
 $l = 101$ :  
 $S_1 = de2b006ca536db30e9e06525f0271870$ ,  $S_2 = e7c59fb318aab98f04ad9eddcba1692$ ,  
 $T_0 = c5f0a01fbde194bfee8e0403bce12f02$ ,  $T_1 = 2f555673ac9b74c0051293d028bdb002$ ,  
 $T_2 = a0fc03ffad773c50c42fdaabac1dddd9$ ,  $T_3 = dd965b63b72744203ea111e50f6563da$ ,  
 $T_4 = 2ee058c382c504bdc4ecad62cb4784f4$ ,  $T_5 = 421fd985bd062ef98e22675b06aa81e2$ ,  
 $T_6 = 6f74bde1b23c44243b352fab5bd61b02$ ,  $T_7 = 25457d48bc2d729d50046deac8af577f$ ,  
 $T_8 = e6b44f434e617077a96cf132a1e73fd9$ ,  $T_9 = 810c7f17f5e02fcc4856bfb6ec294b4d$ ;  
 $l = 102$ :  
 $S_1 = a36076ab4a62fd4ef58f0fc442d2eec8$ ,  $S_2 = f26fa9800c456a77a15435227ee1a503$ ,  
 $T_0 = 95d0202b56a867c696e344e6c1b493cb$ ,  $T_1 = c5f0a01fbde194bfee8e0403bce12f02$ ,  
 $T_2 = 2f555673ac9b74c0051293d028bdb002$ ,  $T_3 = a0fc03ffad773c50c42fdaabac1dddd9$ ,  
 $T_4 = dd965b63b72744203ea111e50f6563da$ ,  $T_5 = d240cf6ecd28020cba7bbd270e1a73bc$ ,  
 $T_6 = 421fd985bd062ef98e22675b06aa81e2$ ,  $T_7 = 6f74bde1b23c44243b352fab5bd61b02$ ,  
 $T_8 = 25457d48bc2d729d50046deac8af577f$ ,  $T_9 = e6b44f434e617077a96cf132a1e73fd9$ ;  
 $l = 103$ :  
 $S_1 = 4c257b9856ab082bca8f85917ff6dcb0$ ,  $S_2 = 1c795ab205de977ed6154f5aa642a757$ ,  
 $T_0 = 689ed64a5c899faaa0a4d4ec26398407$ ,  $T_1 = 95d0202b56a867c696e344e6c1b493cb$ ,  
 $T_2 = c5f0a01fbde194bfee8e0403bce12f02$ ,  $T_3 = 2f555673ac9b74c0051293d028bdb002$ ,  
 $T_4 = a0fc03ffad773c50c42fdaabac1dddd9$ ,  $T_5 = 29bbd6fc0dd24c4c093097768f5c408a$ ,  
 $T_6 = d240cf6ecd28020cba7bbd270e1a73bc$ ,  $T_7 = 421fd985bd062ef98e22675b06aa81e2$ ,  
 $T_8 = 6f74bde1b23c44243b352fab5bd61b02$ ,  $T_9 = 25457d48bc2d729d50046deac8af577f$ ;  
 $l = 104$ :  
 $S_1 = 59d7a4091563df73fc67914df9f2f04a$ ,  $S_2 = 0abe7489c7d3ca8ff0ed0e410a049706$ ,  
 $T_0 = 64961892dd37aa03ed549f8f03f78750$ ,  $T_1 = 689ed64a5c899faaa0a4d4ec26398407$ ,  
 $T_2 = 95d0202b56a867c696e344e6c1b493cb$ ,  $T_3 = c5f0a01fbde194bfee8e0403bce12f02$ ,  
 $T_4 = 2f555673ac9b74c0051293d028bdb002$ ,  $T_5 = fad3a808c2db1bc4c0976bf9a610ce23$ ,  
 $T_6 = 29bbd6fc0dd24c4c093097768f5c408a$ ,  $T_7 = d240cf6ecd28020cba7bbd270e1a73bc$ ,  
 $T_8 = 421fd985bd062ef98e22675b06aa81e2$ ,  $T_9 = 6f74bde1b23c44243b352fab5bd61b02$ ;  
 $l = 105$ :  
 $S_1 = 65ae6d11100f087fc76b1bf14d0320bc$ ,  $S_2 = 87c4a40303c9ae748f01e510243733b5$ ,  
 $T_0 = ed73111413d8b6f4566d0101713a5471$ ,  $T_1 = 64961892dd37aa03ed549f8f03f78750$ ,  
 $T_2 = 689ed64a5c899faaa0a4d4ec26398407$ ,  $T_3 = 95d0202b56a867c696e344e6c1b493cb$ ,  
 $T_4 = c5f0a01fbde194bfee8e0403bce12f02$ ,  $T_5 = 9503c384bcaa7d3fcc7dafc175c0d0be$ ,  
 $T_6 = fad3a808c2db1bc4c0976bf9a610ce23$ ,  $T_7 = 29bbd6fc0dd24c4c093097768f5c408a$ ,  
 $T_8 = d240cf6ecd28020cba7bbd270e1a73bc$ ,  $T_9 = 421fd985bd062ef98e22675b06aa81e2$ ;  
 $l = 106$ :  
 $S_1 = f4e6ed53a79d2ae918da57495011437b$ ,  $S_2 = ca01d1b60387a002e5db341b041f9603$ ,  
 $T_0 = bee8bf09ab24caebfeb58b645430d97e$ ,  $T_1 = ed73111413d8b6f4566d0101713a5471$ ,  
 $T_2 = 64961892dd37aa03ed549f8f03f78750$ ,  $T_3 = 689ed64a5c899faaa0a4d4ec26398407$ ,  
 $T_4 = 95d0202b56a867c696e344e6c1b493cb$ ,  $T_5 = bad78d73657ebfa907685b4d0cf2727d$ ,  
 $T_6 = 9503c384bcaa7d3fcc7dafc175c0d0be$ ,  $T_7 = fad3a808c2db1bc4c0976bf9a610ce23$ ,  
 $T_8 = 29bbd6fc0dd24c4c093097768f5c408a$ ,  $T_9 = d240cf6ecd28020cba7bbd270e1a73bc$ ;  
 $l = 107$ :  
 $S_1 = d5868370cf64ada1141c3ac898ba2d03$ ,  $S_2 = bc51bba1d3d56c7116cbae929f714e6b$ ,  
 $T_0 = 91d83f12a33a1a122ae7e95b382b7b6e$ ,  $T_1 = bee8bf09ab24caebfeb58b645430d97e$ ,

$T_2 = \text{ed73111413d8b6f4566d0101713a5471}$ ,  $T_3 = \text{64961892dd37aa03ed549f8f03f78750}$ ,  
 $T_4 = \text{689ed64a5c899faaa0a4d4ec26398407}$ ,  $T_5 = \text{6b56a39c260d1567aaff7faf5a6ec0ce}$ ,  
 $T_6 = \text{bad78d73657ebfa907685b4d0cf2727d}$ ,  $T_7 = \text{9503c384bcaa7d3fcc7dafc175c0d0be}$ ,  
 $T_8 = \text{fad3a808c2db1bc4c0976bf9a610ce23}$ ,  $T_9 = \text{29bbd6fc0dd24c4c093097768f5c408a}$ ;  
 $l = 108$ :  
 $S_1 = \text{f8faae73e1ea4659b70de4cbf54f72a1}$ ,  $S_2 = \text{a0f2f12b349b3d5c5afab718ade4a361}$ ,  
 $T_0 = \text{99ed9f9f168583b612089be4a3341602}$ ,  $T_1 = \text{91d83f12a33a1a122ae7e95b382b7b6e}$ ,  
 $T_2 = \text{bee8bf09ab24caebfeb58b645430d97e}$ ,  $T_3 = \text{ed73111413d8b6f4566d0101713a5471}$ ,  
 $T_4 = \text{64961892dd37aa03ed549f8f03f78750}$ ,  $T_5 = \text{619984be3e73e60457b2b9b81b88f6a8}$ ,  
 $T_6 = \text{6b56a39c260d1567aaff7faf5a6ec0ce}$ ,  $T_7 = \text{bad78d73657ebfa907685b4d0cf2727d}$ ,  
 $T_8 = \text{9503c384bcaa7d3fcc7dafc175c0d0be}$ ,  $T_9 = \text{fad3a808c2db1bc4c0976bf9a610ce23}$ ;  
 $l = 109$ :  
 $S_1 = \text{6c0b621a23abde3ea5403396ef121d31}$ ,  $S_2 = \text{560337db0b019c7f8b120be891ac1dff}$ ,  
 $T_0 = \text{c20e99f52ead7abe30523f7f80be3b30}$ ,  $T_1 = \text{99ed9f9f168583b612089be4a3341602}$ ,  
 $T_2 = \text{91d83f12a33a1a122ae7e95b382b7b6e}$ ,  $T_3 = \text{bee8bf09ab24caebfeb58b645430d97e}$ ,  
 $T_4 = \text{ed73111413d8b6f4566d0101713a5471}$ ,  $T_5 = \text{d0a17aad00e388429294d325f309a481}$ ,  
 $T_6 = \text{619984be3e73e60457b2b9b81b88f6a8}$ ,  $T_7 = \text{6b56a39c260d1567aaff7faf5a6ec0ce}$ ,  
 $T_8 = \text{bad78d73657ebfa907685b4d0cf2727d}$ ,  $T_9 = \text{9503c384bcaa7d3fcc7dafc175c0d0be}$ ;  
 $l = 110$ :  
 $S_1 = \text{a677445e4f8dd335474b9c158dd1e253}$ ,  $S_2 = \text{c8cce3047c73f3bbb7ca0ed113acaf06}$ ,  
 $T_0 = \text{6f442762cc01c6f0ff15aae6a17e9159}$ ,  $T_1 = \text{c20e99f52ead7abe30523f7f80be3b30}$ ,  
 $T_2 = \text{99ed9f9f168583b612089be4a3341602}$ ,  $T_3 = \text{91d83f12a33a1a122ae7e95b382b7b6e}$ ,  
 $T_4 = \text{bee8bf09ab24caebfeb58b645430d97e}$ ,  $T_5 = \text{93ea557263668a299db89d16ff0c36c4}$ ,  
 $T_6 = \text{d0a17aad00e388429294d325f309a481}$ ,  $T_7 = \text{619984be3e73e60457b2b9b81b88f6a8}$ ,  
 $T_8 = \text{6b56a39c260d1567aaff7faf5a6ec0ce}$ ,  $T_9 = \text{bad78d73657ebfa907685b4d0cf2727d}$ ;  
 $l = 111$ :  
 $S_1 = \text{653e0b05599b58a79cf8661ca01f7af9}$ ,  $S_2 = \text{fda3a286d7aa467d59894a147fc6ac4a}$ ,  
 $T_0 = \text{62e1ad8c31459f24f681b0311fe62743}$ ,  $T_1 = \text{6f442762cc01c6f0ff15aae6a17e9159}$ ,  
 $T_2 = \text{c20e99f52ead7abe30523f7f80be3b30}$ ,  $T_3 = \text{99ed9f9f168583b612089be4a3341602}$ ,  
 $T_4 = \text{91d83f12a33a1a122ae7e95b382b7b6e}$ ,  $T_5 = \text{2426ca0f04c023939badf180f4505477}$ ,  
 $T_6 = \text{93ea557263668a299db89d16ff0c36c4}$ ,  $T_7 = \text{d0a17aad00e388429294d325f309a481}$ ,  
 $T_8 = \text{619984be3e73e60457b2b9b81b88f6a8}$ ,  $T_9 = \text{6b56a39c260d1567aaff7faf5a6ec0ce}$ ;  
 $l = 112$ :  
 $S_1 = \text{7e1ceb92bfbe909aef09323ce8aaeee9}$ ,  $S_2 = \text{cc76574d7477d7e26cf7e9c4d854b02d}$ ,  
 $T_0 = \text{4a9342e03436687d5c011c01c0ff9f16}$ ,  $T_1 = \text{62e1ad8c31459f24f681b0311fe62743}$ ,  
 $T_2 = \text{6f442762cc01c6f0ff15aae6a17e9159}$ ,  $T_3 = \text{c20e99f52ead7abe30523f7f80be3b30}$ ,  
 $T_4 = \text{99ed9f9f168583b612089be4a3341602}$ ,  $T_5 = \text{0ff52aa562f8aaad19f11b9820d66a57}$ ,  
 $T_6 = \text{2426ca0f04c023939badf180f4505477}$ ,  $T_7 = \text{93ea557263668a299db89d16ff0c36c4}$ ,  
 $T_8 = \text{d0a17aad00e388429294d325f309a481}$ ,  $T_9 = \text{619984be3e73e60457b2b9b81b88f6a8}$ ;  
 $l = 113$ :  
 $S_1 = \text{2146d17cca6f85f3946c11da246c6411}$ ,  $S_2 = \text{fdb6e7f159583e892a83bb3c9a39d494}$ ,  
 $T_0 = \text{1f05396e23c7c47cbeefcd16bea638a5}$ ,  $T_1 = \text{4a9342e03436687d5c011c01c0ff9f16}$ ,  
 $T_2 = \text{62e1ad8c31459f24f681b0311fe62743}$ ,  $T_3 = \text{6f442762cc01c6f0ff15aae6a17e9159}$ ,  
 $T_4 = \text{c20e99f52ead7abe30523f7f80be3b30}$ ,  $T_5 = \text{bb34711be0f509a9a674adbec7a07a13}$ ,  
 $T_6 = \text{0ff52aa562f8aaad19f11b9820d66a57}$ ,  $T_7 = \text{2426ca0f04c023939badf180f4505477}$ ,  
 $T_8 = \text{93ea557263668a299db89d16ff0c36c4}$ ,  $T_9 = \text{d0a17aad00e388429294d325f309a481}$ ;  
 $l = 114$ :  
 $S_1 = \text{83b513adfc62a3398fc5fb7c1277564b}$ ,  $S_2 = \text{c8ee7189db65675bdd55eea9e8cbb603}$ ,  
 $T_0 = \text{4ca38537d7c80a956d1bea25fb430c4e}$ ,  $T_1 = \text{1f05396e23c7c47cbeefcd16bea638a5}$ ,  
 $T_2 = \text{4a9342e03436687d5c011c01c0ff9f16}$ ,  $T_3 = \text{62e1ad8c31459f24f681b0311fe62743}$ ,  
 $T_4 = \text{6f442762cc01c6f0ff15aae6a17e9159}$ ,  $T_5 = \text{45c3ada32b101df7c0183afb9335917b}$ ,  
 $T_6 = \text{bb34711be0f509a9a674adbec7a07a13}$ ,  $T_7 = \text{0ff52aa562f8aaad19f11b9820d66a57}$ ,



$T_8 = 2426ca0f04c023939badf180f4505477$ ,  $T_9 = 93ea557263668a299db89d16ff0c36c4$ ;  
 $l = 115$ :  
 $S_1 = 5e9df2d2b7bacd37effe8b016671f22f$ ,  $S_2 = 31c06c2a17b0e92f5849981394697b64$ ,  
 $T_0 = 905e5efccf6bb66748482314fadb6d93$ ,  $T_1 = 4ca38537d7c80a956d1bea25fb430c4e$ ,  
 $T_2 = 1f05396e23c7c47cbeefcd16bea638a5$ ,  $T_3 = 4a9342e03436687d5c011c01c0ff9f16$ ,  
 $T_4 = 62e1ad8c31459f24f681b0311fe62743$ ,  $T_5 = cde21a3583bc9428ef1435e807f08388$ ,  
 $T_6 = 45c3ada32b101df7c0183afb9335917b$ ,  $T_7 = bb34711be0f509a9a674adbec7a07a13$ ,  
 $T_8 = 0ff52aa562f8aaad19f11b9820d66a57$ ,  $T_9 = 2426ca0f04c023939badf180f4505477$ ;  
 $l = 116$ :  
 $S_1 = 035171b75329d2e20df9b0dbc5f409ef$ ,  $S_2 = f823859b82da25f32de7a806536bdf39$ ,  
 $T_0 = fb74f752d603f8d53be158e2195fe928$ ,  $T_1 = 905e5efccf6bb66748482314fadb6d93$ ,  
 $T_2 = 4ca38537d7c80a956d1bea25fb430c4e$ ,  $T_3 = 1f05396e23c7c47cbeefcd16bea638a5$ ,  
 $T_4 = 4a9342e03436687d5c011c01c0ff9f16$ ,  $T_5 = 66331f43846f7207047b610ce5da3132$ ,  
 $T_6 = cde21a3583bc9428ef1435e807f08388$ ,  $T_7 = 45c3ada32b101df7c0183afb9335917b$ ,  
 $T_8 = bb34711be0f509a9a674adbec7a07a13$ ,  $T_9 = 0ff52aa562f8aaad19f11b9820d66a57$ ;  
 $l = 117$ :  
 $S_1 = 9b18b2bcb99b65a07d4efa490194d700$ ,  $S_2 = 76454cdcb5cc0875353e60f332216f95$ ,  
 $T_0 = 115dff996f676e15b28d5b3c33b64695$ ,  $T_1 = fb74f752d603f8d53be158e2195fe928$ ,  
 $T_2 = 905e5efccf6bb66748482314fadb6d93$ ,  $T_3 = 4ca38537d7c80a956d1bea25fb430c4e$ ,  
 $T_4 = 1f05396e23c7c47cbeefcd16bea638a5$ ,  $T_5 = e5abf59cedd1ce1dd950164ac2947616$ ,  
 $T_6 = 66331f43846f7207047b610ce5da3132$ ,  $T_7 = cde21a3583bc9428ef1435e807f08388$ ,  
 $T_8 = 45c3ada32b101df7c0183afb9335917b$ ,  $T_9 = bb34711be0f509a9a674adbec7a07a13$ ;  
 $l = 118$ :  
 $S_1 = 06c320d40634ae78fe5c5ceb7e92d2fe$ ,  $S_2 = 5da0eaf0d8d96bf65d2a459880a9bffa$ ,  
 $T_0 = 64640bc4df0e1a6f5b86a283ff3c92f8$ ,  $T_1 = 115dff996f676e15b28d5b3c33b64695$ ,  
 $T_2 = fb74f752d603f8d53be158e2195fe928$ ,  $T_3 = 905e5efccf6bb66748482314fadb6d93$ ,  
 $T_4 = 4ca38537d7c80a956d1bea25fb430c4e$ ,  $T_5 = 25c85a4229fc72f5bd4c2a023d390ba3$ ,  
 $T_6 = e5abf59cedd1ce1dd950164ac2947616$ ,  $T_7 = 66331f43846f7207047b610ce5da3132$ ,  
 $T_8 = cde21a3583bc9428ef1435e807f08388$ ,  $T_9 = 45c3ada32b101df7c0183afb9335917b$ ;  
 $l = 119$ :  
 $S_1 = ccc30025f934e26a7e538edd80c02aa1$ ,  $S_2 = 9bacb1ec2f23f2d8754cc0225e671fb7$ ,  
 $T_0 = 686fb2122858d542f3a04effdf274a58$ ,  $T_1 = 64640bc4df0e1a6f5b86a283ff3c92f8$ ,  
 $T_2 = 115dff996f676e15b28d5b3c33b64695$ ,  $T_3 = fb74f752d603f8d53be158e2195fe928$ ,  
 $T_4 = 905e5efccf6bb66748482314fadb6d93$ ,  $T_5 = 1966855dd0fcecfeb6f79037c0336ef$ ,  
 $T_6 = 25c85a4229fc72f5bd4c2a023d390ba3$ ,  $T_7 = e5abf59cedd1ce1dd950164ac2947616$ ,  
 $T_8 = 66331f43846f7207047b610ce5da3132$ ,  $T_9 = cde21a3583bc9428ef1435e807f08388$ ;  
 $l = 120$ :  
 $S_1 = 6120a716f7e71f5a9e4041efaa5fb849$ ,  $S_2 = 9691c77ef68a32c15508c828ec09c8be$ ,  
 $T_0 = f7b26e95ee71521bf3490a1896698107$ ,  $T_1 = 686fb2122858d542f3a04effdf274a58$ ,  
 $T_2 = 64640bc4df0e1a6f5b86a283ff3c92f8$ ,  $T_3 = 115dff996f676e15b28d5b3c33b64695$ ,  
 $T_4 = fb74f752d603f8d53be158e2195fe928$ ,  $T_5 = f17f0613c752d5c1e6886504a53b25dc$ ,  
 $T_6 = 1966855dd0fcecfeb6f79037c0336ef$ ,  $T_7 = 25c85a4229fc72f5bd4c2a023d390ba3$ ,  
 $T_8 = e5abf59cedd1ce1dd950164ac2947616$ ,  $T_9 = 66331f43846f7207047b610ce5da3132$ ;  
 $l = 121$ :  
 $S_1 = ddf2341b5e3e06001eaf2662d4dc5a0c$ ,  $S_2 = bbf029a798c6a31ad1b95571c85b36d7$ ,  
 $T_0 = 99e25dc2f704a91af0687bd49d3790e3$ ,  $T_1 = f7b26e95ee71521bf3490a1896698107$ ,  
 $T_2 = 686fb2122858d542f3a04effdf274a58$ ,  $T_3 = 64640bc4df0e1a6f5b86a283ff3c92f8$ ,  
 $T_4 = 115dff996f676e15b28d5b3c33b64695$ ,  $T_5 = d9672b6e3441fed55a907f44ee3c4334$ ,  
 $T_6 = f17f0613c752d5c1e6886504a53b25dc$ ,  $T_7 = 1966855dd0fcecfeb6f79037c0336ef$ ,  
 $T_8 = 25c85a4229fc72f5bd4c2a023d390ba3$ ,  $T_9 = e5abf59cedd1ce1dd950164ac2947616$ ;  
 $l = 122$ :  
 $S_1 = 6f0fcf81b391ecfc8f7cd6c2518f7de6$ ,  $S_2 = 2368018a29ed9ce29827177581470130$ ,

$T_0 = 9277d10bdd7f89df27a3ee37d2d67f16$ ,  $T_1 = 99e25dc2f704a91af0687bd49d3790e3$ ,  
 $T_2 = f7b26e95ee71521bf3490a1896698107$ ,  $T_3 = 686fb2122858d542f3a04effdf274a58$ ,  
 $T_4 = 64640bc4df0e1a6f5b86a283ff3c92f8$ ,  $T_5 = 806dcf1b22f95b12420a31fe8545c47b$ ,  
 $T_6 = d9672b6e3441fed55a907f44ee3c4334$ ,  $T_7 = f17f0613c752d5c1e6886504a53b25dc$ ,  
 $T_8 = 1966855dd0fcecfeeb6f79037c0336ef$ ,  $T_9 = 25c85a4229fc72f5bd4c2a023d390ba3$ ;  
 $l = 123$ :  
 $S_1 = 9009c471cfb95ef31047eeacfa6832db$ ,  $S_2 = 612f6d4c0cbc3083598f70d7591461e6$ ,  
 $T_0 = f13931bdbc758f7669d75f84537c94c1$ ,  $T_1 = 9277d10bdd7f89df27a3ee37d2d67f16$ ,  
 $T_2 = 99e25dc2f704a91af0687bd49d3790e3$ ,  $T_3 = f7b26e95ee71521bf3490a1896698107$ ,  
 $T_4 = 686fb2122858d542f3a04effdf274a58$ ,  $T_5 = f46dd036aec779626bce9130f9a4c5d3$ ,  
 $T_6 = 806dcf1b22f95b12420a31fe8545c47b$ ,  $T_7 = d9672b6e3441fed55a907f44ee3c4334$ ,  
 $T_8 = f17f0613c752d5c1e6886504a53b25dc$ ,  $T_9 = 1966855dd0fcecfeeb6f79037c0336ef$ ;  
 $l = 124$ :  
 $S_1 = ed85ceeebe57fbcfa382646d96a8db14$ ,  $S_2 = ca88fe6cb35cd694e37f364de8760cd1$ ,  
 $T_0 = b80ecd5b71b4d26487019abb7f1ee7e5$ ,  $T_1 = f13931bdbc758f7669d75f84537c94c1$ ,  
 $T_2 = 9277d10bdd7f89df27a3ee37d2d67f16$ ,  $T_3 = 99e25dc2f704a91af0687bd49d3790e3$ ,  
 $T_4 = f7b26e95ee71521bf3490a1896698107$ ,  $T_5 = 55f58100e6b0d1129722b36d75d0256c$ ,  
 $T_6 = f46dd036aec779626bce9130f9a4c5d3$ ,  $T_7 = 806dcf1b22f95b12420a31fe8545c47b$ ,  
 $T_8 = d9672b6e3441fed55a907f44ee3c4334$ ,  $T_9 = f17f0613c752d5c1e6886504a53b25dc$ ;  
 $l = 125$ :  
 $S_1 = 2188520b5184c12da3c87d54f8e28309$ ,  $S_2 = 1874433a1ac02ec62632b0eb01566678$ ,  
 $T_0 = 39fc95456c44eff3c9fb2e3ffa38e981$ ,  $T_1 = b80ecd5b71b4d26487019abb7f1ee7e5$ ,  
 $T_2 = f13931bdbc758f7669d75f84537c94c1$ ,  $T_3 = 9277d10bdd7f89df27a3ee37d2d67f16$ ,  
 $T_4 = 99e25dc2f704a91af0687bd49d3790e3$ ,  $T_5 = 193ac0a13ff613499711876d8f4c0410$ ,  
 $T_6 = 55f58100e6b0d1129722b36d75d0256c$ ,  $T_7 = f46dd036aec779626bce9130f9a4c5d3$ ,  
 $T_8 = 806dcf1b22f95b12420a31fe8545c47b$ ,  $T_9 = d9672b6e3441fed55a907f44ee3c4334$ ;  
 $l = 126$ :  
 $S_1 = 9d33fd42a5918f254f32f6983e33a016$ ,  $S_2 = 5d61ef6ea1e586023f5404d28a4698a8$ ,  
 $T_0 = fa95ecb1477715278e86fb6ac87a38be$ ,  $T_1 = 39fc95456c44eff3c9fb2e3ffa38e981$ ,  
 $T_2 = b80ecd5b71b4d26487019abb7f1ee7e5$ ,  $T_3 = f13931bdbc758f7669d75f84537c94c1$ ,  
 $T_4 = 9277d10bdd7f89df27a3ee37d2d67f16$ ,  $T_5 = 37165b059c9638403f9b726cdb6b30f9$ ,  
 $T_6 = 193ac0a13ff613499711876d8f4c0410$ ,  $T_7 = 55f58100e6b0d1129722b36d75d0256c$ ,  
 $T_8 = f46dd036aec779626bce9130f9a4c5d3$ ,  $T_9 = 806dcf1b22f95b12420a31fe8545c47b$ ;  
 $l = 127$ :  
 $S_1 = 3a0d91abdd832a01d1ba534cdc3150e2$ ,  $S_2 = 8306d603705dab4c14ccf57f1859121b$ ,  
 $T_0 = bd1467af4de0d54de68748cbf48a62fd$ ,  $T_1 = fa95ecb1477715278e86fb6ac87a38be$ ,  
 $T_2 = 39fc95456c44eff3c9fb2e3ffa38e981$ ,  $T_3 = b80ecd5b71b4d26487019abb7f1ee7e5$ ,  
 $T_4 = f13931bdbc758f7669d75f84537c94c1$ ,  $T_5 = cc8562b7bb02b3e0f95e4184af07cff8$ ,  
 $T_6 = 37165b059c9638403f9b726cdb6b30f9$ ,  $T_7 = 193ac0a13ff613499711876d8f4c0410$ ,  
 $T_8 = 55f58100e6b0d1129722b36d75d0256c$ ,  $T_9 = f46dd036aec779626bce9130f9a4c5d3$ ;

**Block 1 is processed. Intermediate hash values are**

$H_0 = c2230d75cce92d4a43c840ec1c3eb998 + bd1467af4de0d54de68748cbf48a62fd = 7f3775251aca02982a4f89b810c91c95$ ,  
 $H_1 = dd0721a872ab5d9d1f32715fbb39e48c + fa95ecb1477715278e86fb6ac87a38be = d79d0e59ba2272c4adb96cca83b41d4a$ ,  
 $H_2 = 26bed1a981976df68768f448aef13131 + 39fc95456c44eff3c9fb2e3ffa38e981 = 60bb66eeddc5dea51642288a92a1ab2$ ,  
 $H_3 = 3988a32b9eb6f495d89ce92d003b7734 + b80ecd5b71b4d26487019abb7f1ee7e5 = f1977087106bc6fa5f9e83e87f5a5f19$ ,  
 $H_4 = b14f50ef7f295622504b6bae54d2d139 + f13931bdbc758f7669d75f84537c94c1 = a28882ad5b9ee598ba22cb32a84f65fa$ ,  
 $H_5 = 72ea1e8090bdeca9ca22eebb04b00518 + cc8562b7bb02b3e0f95e4184af07cff8 =$

3f6f81384bc0a08ac381303fb3b7d510,  
H<sub>6</sub> = 651795cb8dda6c6167d4fbf876774eaf + 37165b059c9638403f9b726cdb6b30f9 =  
9c2df0d12a70a4a1a7706e6551e27fa8,  
H<sub>7</sub> = a9d884f8ab76462d53875cdf51d36f5 + 193ac0a13ff613499711876d8f4c0410 =  
c3134599eb6c5976ea98e44d84693b05,  
H<sub>8</sub> = e8d3a3f7d895a25b820e3af6f0ab5b29 + 55f58100e6b0d1129722b36d75d0256c =  
3ec924f8bf46736e1930ee64667b8095,  
H<sub>9</sub> = c096111daa8c06e6e7d61d3af8fb7384 + f46dd036aec779626bce9130f9a4c5d3 =  
b503e1545953804953a4ae6bf2a03957.

**Therefore the message hash is**

7f3775251aca02982a4f89b810c91c95 d79d0e59ba2272c4adb96cca83b41d4a  
60bb66eeddc5dea51642288a92a1ab2 f1977087106bc6fa5f9e83e87f5a5f19  
a28882ad5b9ee598ba22cb32a84f65fa 3f6f81384bc0a08ac381303fb3b7d510  
9c2df0d12a70a4a1a7706e6551e27fa8 c3134599eb6c5976ea98e44d84693b05  
3ec924f8bf46736e1930ee64667b8095 b503e1545953804953a4ae6bf2a03957.

### 3.2.2. Sample computation 2

The message is an 1976-bit string “abcdefghabcdefghabcdefghabcdefghab” & “cdefghabcdefghabcdefghabcdefghabcdefghijklmnopabcdefghijkl” & “mnopabcdefghijklmnopabcdefghijklmnopabcdefghijklmnopqrstuvwxyzabcdefghijklmnopqrst” & “vwxyzabcdefghijklmnopqrstuvwxyz123456789”. Converted to hexadecimal base, it reads

```
61626364656666768 61626364656666768 61626364656666768 61626364656666768
61626364656666768 61626364656666768 61626364656666768 61626364656666768
61626364656666768 61626364656666768 61626364656666768 696a6b6c6d6e6f70
61626364656666768 696a6b6c6d6e6f70 61626364656666768 696a6b6c6d6e6f70
61626364656666768 696a6b6c6d6e6f70 61626364656666768 696a6b6c6d6e6f70
61626364656666768 696a6b6c6d6e6f70 7172737475767778 797a616263646566
6768696a6b6c6d6e 6f70717273747576 7778797a61626364 65666768696a6b6c
6d6e6f7071727374 75767778797a3132 33343536373839.
```

#### The padded message is

```
61626364656666768 61626364656666768 61626364656666768 61626364656666768
61626364656666768 61626364656666768 61626364656666768 61626364656666768
61626364656666768 61626364656666768 61626364656666768 696a6b6c6d6e6f70
61626364656666768 696a6b6c6d6e6f70 61626364656666768 696a6b6c6d6e6f70
61626364656666768 696a6b6c6d6e6f70 61626364656666768 696a6b6c6d6e6f70
61626364656666768 696a6b6c6d6e6f70 61626364656666768 696a6b6c6d6e6f70
61626364656666768 696a6b6c6d6e6f70 7172737475767778 797a616263646566
6768696a6b6c6d6e 6f70717273747576 7778797a61626364 65666768696a6b6c
6d6e6f7071727374 75767778797a3132 33343536373839aa 0000000000000000
```

```
0000000000000000 0000000000000000 0000000000000000 0000000000000000
0000000000000000 0000000000000000 0000000000000000 0000000000000000
0000000000000000 0000000000000000 0000000000000000 0000000000000000
0000000000000000 0000000000000000 0000000000000000 0000000000000000
0000000000000000 0000000000000000 0000000000000000 0000000000000000
0000000000000000 0000000000000000 0000000000000000 0000000000000000
0000000000000000 0000000000000000 0000000000000000 0000000000000000
0000000000000000 0000000000000000 0000000000000000 0000000000000000
0000000000000000 0000000000000000 0000000000000000 00000000000007b8.
```

#### Hash calculation.

**j = 1;**

init:

```
T0 = c2230d75cce92d4a43c840ec1c3eb998, T1 = dd0721a872ab5d9d1f32715fbb39e48c,
T2 = 26bed1a981976df68768f448aef13131, T3 = 3988a32b9eb6f495d89ce92d003b7734,
T4 = b14f50ef7f295622504b6bae54d2d139, T5 = 72ea1e8090bdeca9ca22eebb04b00518,
T6 = 651795cb8dda6c6167d4fbf876774eaf, T7 = a9d884f8ab76462d53875cdf51d36f5,
T8 = e8d3a3f7d895a25b820e3af6f0ab5b29, T9 = c096111daa8c06e6e7d61d3af8fb7384;
```

**l = 000:**

```
S1 = fe47e361b471c350d73a7cf566f69226, S2 = fa3bebc016bbe5db3ca54f6d19505df,
T0 = f883cf21cb2db1ae8b04d1ec388b9805, T1 = c2230d75cce92d4a43c840ec1c3eb998,
T2 = dd0721a872ab5d9d1f32715fbb39e48c, T3 = 26bed1a981976df68768f448aef13131,
T4 = 3988a32b9eb6f495d89ce92d003b7734, T5 = af973451339b19732785e8a3bbc9635f,
T6 = 72ea1e8090bdeca9ca22eebb04b00518, T7 = 651795cb8dda6c6167d4fbf876774eaf,
T8 = a9d884f8ab76462d53875cdf51d36f5, T9 = e8d3a3f7d895a25b820e3af6f0ab5b29;
```

**l = 001:**

$S_1 = 0b1aaf9baded0e3ec7eba6f55a82ebce$ ,  $S_2 = 37934dd85be59c676d3623dde1ef7c5f$ ,  
 $T_0 = 42adfd7409d2aaa63521cad33c72682d$ ,  $T_1 = f883cf21cb2db1ae8b04d1ec388b9805$ ,  
 $T_2 = c2230d75cce92d4a43c840ec1c3eb998$ ,  $T_3 = dd0721a872ab5d9d1f32715fbb39e48c$ ,  
 $T_4 = 26bed1a981976df68768f448aef13131$ ,  $T_5 = 44a352c74ca402d4a08890225abe6302$ ,  
 $T_6 = af973451339b19732785e8a3bbc9635f$ ,  $T_7 = 72ea1e8090bdeca9ca22eebb04b00518$ ,  
 $T_8 = 651795cb8dda6c6167d4fbf876774eaf$ ,  $T_9 = a9d884f8ab76462d53875cdf51d36f5$ ;  
 $l = 002$ :  
 $S_1 = b16719f4003350c7e43d173ff2cb56b8$ ,  $S_2 = 295d6bf6c847b4590c0d3ddba6ae9c0c$ ,  
 $T_0 = dac485eac87b0520f04a551b9979f2c4$ ,  $T_1 = 42adfd7409d2aaa63521cad33c72682d$ ,  
 $T_2 = f883cf21cb2db1ae8b04d1ec388b9805$ ,  $T_3 = c2230d75cce92d4a43c840ec1c3eb998$ ,  
 $T_4 = dd0721a872ab5d9d1f32715fbb39e48c$ ,  $T_5 = d825eb9d81cabebe6ba60b88a1bc87e9$ ,  
 $T_6 = 44a352c74ca402d4a08890225abe6302$ ,  $T_7 = af973451339b19732785e8a3bbc9635f$ ,  
 $T_8 = 72ea1e8090bdeca9ca22eebb04b00518$ ,  $T_9 = 651795cb8dda6c6167d4fbf876774eaf$ ;  
 $l = 003$ :  
 $S_1 = eaf6ecd342c6fc1c38d12da376270e75$ ,  $S_2 = 4e0676c06aea25b7269a8eb2968e59f2$ ,  
 $T_0 = 38fd6393adb121d35f6bbc560cb56867$ ,  $T_1 = dac485eac87b0520f04a551b9979f2c4$ ,  
 $T_2 = 42adfd7409d2aaa63521cad33c72682d$ ,  $T_3 = f883cf21cb2db1ae8b04d1ec388b9805$ ,  
 $T_4 = c2230d75cce92d4a43c840ec1c3eb998$ ,  $T_5 = c7fe0e7bb57259b958039f033160f301$ ,  
 $T_6 = d825eb9d81cabebe6ba60b88a1bc87e9$ ,  $T_7 = 44a352c74ca402d4a08890225abe6302$ ,  
 $T_8 = af973451339b19732785e8a3bbc9635f$ ,  $T_9 = 72ea1e8090bdeca9ca22eebb04b00518$ ;  
 $l = 004$ :  
 $S_1 = 81513205d8906206a73db172736a87ca$ ,  $S_2 = 4bc40155f8c75a541c484e58739ae4fd$ ,  
 $T_0 = cd15335bd157bc5ac385ffcae7056cc7$ ,  $T_1 = 38fd6393adb121d35f6bbc560cb56867$ ,  
 $T_2 = dac485eac87b0520f04a551b9979f2c4$ ,  $T_3 = 42adfd7409d2aaa63521cad33c72682d$ ,  
 $T_4 = f883cf21cb2db1ae8b04d1ec388b9805$ ,  $T_5 = 43743f7ba5798f50eb05f25e8fa94162$ ,  
 $T_6 = c7fe0e7bb57259b958039f033160f301$ ,  $T_7 = d825eb9d81cabebe6ba60b88a1bc87e9$ ,  
 $T_8 = 44a352c74ca402d4a08890225abe6302$ ,  $T_9 = af973451339b19732785e8a3bbc9635f$ ;  
 $l = 005$ :  
 $S_1 = bafe1edd75bb95c58f4b664c29181426$ ,  $S_2 = a8eb3e6be25396fbc798f8df881b8086$ ,  
 $T_0 = 63e95d49580f2cc156e45f2bb13394ac$ ,  $T_1 = cd15335bd157bc5ac385ffcae7056cc7$ ,  
 $T_2 = 38fd6393adb121d35f6bbc560cb56867$ ,  $T_3 = dac485eac87b0520f04a551b9979f2c4$ ,  
 $T_4 = 42adfd7409d2aaa63521cad33c72682d$ ,  $T_5 = b381edff40e947741a50383861a3ac2b$ ,  
 $T_6 = 43743f7ba5798f50eb05f25e8fa94162$ ,  $T_7 = c7fe0e7bb57259b958039f033160f301$ ,  
 $T_8 = d825eb9d81cabebe6ba60b88a1bc87e9$ ,  $T_9 = 44a352c74ca402d4a08890225abe6302$ ;  
 $l = 006$ :  
 $S_1 = 44cda99a2ff5ea92c5dc4c8e8a2fcc7b$ ,  $S_2 = 919f34e1e5a30af88651f64ed5e28160$ ,  
 $T_0 = d66cde7c1598f58b4c2e42dd60124ddb$ ,  $T_1 = 63e95d49580f2cc156e45f2bb13394ac$ ,  
 $T_2 = cd15335bd157bc5ac385ffcae7056cc7$ ,  $T_3 = 38fd6393adb121d35f6bbc560cb56867$ ,  
 $T_4 = dac485eac87b0520f04a551b9979f2c4$ ,  $T_5 = 877ba70e39c89538fafa1761c6a234a8$ ,  
 $T_6 = b381edff40e947741a50383861a3ac2b$ ,  $T_7 = 43743f7ba5798f50eb05f25e8fa94162$ ,  
 $T_8 = c7fe0e7bb57259b958039f033160f301$ ,  $T_9 = d825eb9d81cabebe6ba60b88a1bc87e9$ ;  
 $l = 007$ :  
 $S_1 = f9947ab72541d64390492a381132d249$ ,  $S_2 = 0a58f5add888666ae8ddfb2dc3b11e80$ ,  
 $T_0 = 03ed7064fdca3cae79272565d4e3f0c9$ ,  $T_1 = d66cde7c1598f58b4c2e42dd60124ddb$ ,  
 $T_2 = 63e95d49580f2cc156e45f2bb13394ac$ ,  $T_3 = cd15335bd157bc5ac385ffcae7056cc7$ ,  
 $T_4 = 38fd6393adb121d35f6bbc560cb56867$ ,  $T_5 = d45900a1edbcdb6480937f53aaacc50d$ ,  
 $T_6 = 877ba70e39c89538fafa1761c6a234a8$ ,  $T_7 = b381edff40e947741a50383861a3ac2b$ ,  
 $T_8 = 43743f7ba5798f50eb05f25e8fa94162$ ,  $T_9 = c7fe0e7bb57259b958039f033160f301$ ;  
 $l = 008$ :  
 $S_1 = 416255a831f1923346d9dc5d22786a5f$ ,  $S_2 = 9e272b96f4974f3b1fbc54c37b5c660d$ ,  
 $T_0 = df89813f2688e16e669631209dd4d06c$ ,  $T_1 = 03ed7064fdca3cae79272565d4e3f0c9$ ,  
 $T_2 = d66cde7c1598f58b4c2e42dd60124ddb$ ,  $T_3 = 63e95d49580f2cc156e45f2bb13394ac$ ,

$T_4 = cd15335bd157bc5ac385ffcae7056cc7$ ,  $T_5 = 7a5fb93bdfa2b406a64598b32f2dd2c6$ ,  
 $T_6 = d45900a1edbcdb6480937f53aaacc50d$ ,  $T_7 = 877ba70e39c89538fafa1761c6a234a8$ ,  
 $T_8 = b381edfff40e947741a50383861a3ac2b$ ,  $T_9 = 43743f7ba5798f50eb05f25e8fa94162$ ;  
 $l = 009$ :  
 $S_1 = b9404e2749f0a6844c655e11d393b1cf$ ,  $S_2 = d5e4d79656b8e2e83a835b300f5ae6c6$ ,  
 $T_0 = 8f2525bda0a9896c86e8b941e2ee9895$ ,  $T_1 = df89813f2688e16e669631209dd4d06c$ ,  
 $T_2 = 03ed7064fdca3cae79272565d4e3f0c9$ ,  $T_3 = d66cde7c1598f58b4c2e42dd60124ddb$ ,  
 $T_4 = 63e95d49580f2cc156e45f2bb13394ac$ ,  $T_5 = 865581831b4862df0feb5ddcba991e96$ ,  
 $T_6 = 7a5fb93bdfa2b406a64598b32f2dd2c6$ ,  $T_7 = d45900a1edbcdb6480937f53aaacc50d$ ,  
 $T_8 = 877ba70e39c89538fafa1761c6a234a8$ ,  $T_9 = b381edfff40e947741a50383861a3ac2b$ ;  
 $l = 010$ :  
 $S_1 = 8ed197dd3418427f5eadeedd797a247a$ ,  $S_2 = 4efd622edefef5582f4e93c30a0694b1$ ,  
 $T_0 = ddcefa0c131737d78dfc82a08380b92b$ ,  $T_1 = 8f2525bda0a9896c86e8b941e2ee9895$ ,  
 $T_2 = df89813f2688e16e669631209dd4d06c$ ,  $T_3 = 03ed7064fdca3cae79272565d4e3f0c9$ ,  
 $T_4 = d66cde7c1598f58b4c2e42dd60124ddb$ ,  $T_5 = f2baf5268c276f40b5924e092aadb926$ ,  
 $T_6 = 865581831b4862df0feb5ddcba991e96$ ,  $T_7 = 7a5fb93bdfa2b406a64598b32f2dd2c6$ ,  
 $T_8 = d45900a1edbcdb6480937f53aaacc50d$ ,  $T_9 = 877ba70e39c89538fafa1761c6a234a8$ ;  
 $l = 011$ :  
 $S_1 = 70a0849fece70a7e67d70d819a98ace3$ ,  $S_2 = cd9f833cdf166be7f153fc3559e6d5b2$ ,  
 $T_0 = 3e4007dccbfd7666592b09b6f47f8295$ ,  $T_1 = ddcefa0c131737d78dfc82a08380b92b$ ,  
 $T_2 = 8f2525bda0a9896c86e8b941e2ee9895$ ,  $T_3 = df89813f2688e16e669631209dd4d06c$ ,  
 $T_4 = 03ed7064fdca3cae79272565d4e3f0c9$ ,  $T_5 = 470d631c02800009b405505efaaaafabe$ ,  
 $T_6 = f2baf5268c276f40b5924e092aadb926$ ,  $T_7 = 865581831b4862df0feb5ddcba991e96$ ,  
 $T_8 = 7a5fb93bdfa2b406a64598b32f2dd2c6$ ,  $T_9 = d45900a1edbcdb6480937f53aaacc50d$ ;  
 $l = 012$ :  
 $S_1 = 4c55f46b9f2903d8248637f84bd1ffa3$ ,  $S_2 = 30f59b1b4d1fb03f6972231957d34514$ ,  
 $T_0 = 7d4b8f86ec48b4178df85b11a3a544b7$ ,  $T_1 = 3e4007dccbfd7666592b09b6f47f8295$ ,  
 $T_2 = ddcefa0c131737d78dfc82a08380b92b$ ,  $T_3 = 8f2525bda0a9896c86e8b941e2ee9895$ ,  
 $T_4 = df89813f2688e16e669631209dd4d06c$ ,  $T_5 = 504364d09cf340869dad5d5e20b5f06c$ ,  
 $T_6 = 470d631c02800009b405505efaaaafabe$ ,  $T_7 = f2baf5268c276f40b5924e092aadb926$ ,  
 $T_8 = 865581831b4862df0feb5ddcba991e96$ ,  $T_9 = 7a5fb93bdfa2b406a64598b32f2dd2c6$ ;  
 $l = 013$ :  
 $S_1 = 2eacff9a37cbc0627f6d0f777320f56a$ ,  $S_2 = edfbbf308e6d75e35501977d42130e60$ ,  
 $T_0 = 1ca8becac6393645d46ea6f4b53403ca$ ,  $T_1 = 7d4b8f86ec48b4178df85b11a3a544b7$ ,  
 $T_2 = 3e4007dccbfd7666592b09b6f47f8295$ ,  $T_3 = ddcefa0c131737d78dfc82a08380b92b$ ,  
 $T_4 = 8f2525bda0a9896c86e8b941e2ee9895$ ,  $T_5 = 0e3680d95e54a1d0e603409810f5c5d6$ ,  
 $T_6 = 504364d09cf340869dad5d5e20b5f06c$ ,  $T_7 = 470d631c02800009b405505efaaaafabe$ ,  
 $T_8 = f2baf5268c276f40b5924e092aadb926$ ,  $T_9 = 865581831b4862df0feb5ddcba991e96$ ;  
 $l = 014$ :  
 $S_1 = 415c0e4062b0e668755024c130c9d150$ ,  $S_2 = a01ef9511666dfb0a82aed63bb279da3$ ,  
 $T_0 = e17b07917917c6191d7b1224ebf16ef3$ ,  $T_1 = 1ca8becac6393645d46ea6f4b53403ca$ ,  
 $T_2 = 7d4b8f86ec48b4178df85b11a3a544b7$ ,  $T_3 = 3e4007dccbfd7666592b09b6f47f8295$ ,  
 $T_4 = ddcefa0c131737d78dfc82a08380b92b$ ,  $T_5 = d08133fe035a6fd4fc38de0313b869e5$ ,  
 $T_6 = 0e3680d95e54a1d0e603409810f5c5d6$ ,  $T_7 = 504364d09cf340869dad5d5e20b5f06c$ ,  
 $T_8 = 470d631c02800009b405505efaaaafabe$ ,  $T_9 = f2baf5268c276f40b5924e092aadb926$ ;  
 $l = 015$ :  
 $S_1 = dc1ebd9587f532492aefe7c0e19b5721$ ,  $S_2 = 1190acf72aad0b31f99ad315745a2408$ ,  
 $T_0 = edaf6a8cb2a23d7b248abad655f57b29$ ,  $T_1 = e17b07917917c6191d7b1224ebf16ef3$ ,  
 $T_2 = 1ca8becac6393645d46ea6f4b53403ca$ ,  $T_3 = 7d4b8f86ec48b4178df85b11a3a544b7$ ,  
 $T_4 = 3e4007dccbfd7666592b09b6f47f8295$ ,  $T_5 = b9edb7a19b0c6a20b8ec6a61651c104c$ ,  
 $T_6 = d08133fe035a6fd4fc38de0313b869e5$ ,  $T_7 = 0e3680d95e54a1d0e603409810f5c5d6$ ,  
 $T_8 = 504364d09cf340869dad5d5e20b5f06c$ ,  $T_9 = 470d631c02800009b405505efaaaafabe$ ;

$l = 016:$   
 $S_1 = 638fe45c3b76e94341bb7c6ea82e0e38,$   $S_2 = b2f3461545d08d756fc59f1e93a59786,$   
 $T_0 = 16832a71814776b8b1811b8d3bd3a5be,$   $T_1 = edaf6a8cb2a23d7b248abad655f57b29,$   
 $T_2 = e17b07917917c6191d7b1224ebf16ef3,$   $T_3 = 1ca8becac6393645d46ea6f4b53403ca,$   
 $T_4 = 7d4b8f86ec48b4178df85b11a3a544b7,$   $T_5 = a1cfec3907745fa99ae686259cad90cd,$   
 $T_6 = b9edb7a19b0c6a20b8ec6a61651c104c,$   $T_7 = d08133fe035a6fd4fc38de0313b869e5,$   
 $T_8 = 0e3680d95e54a1d0e603409810f5c5d6,$   $T_9 = 504364d09cf340869dad5d5e20b5f06c;$

$l = 017:$   
 $S_1 = 3308d8a708f09f9c7df6f7a8d8641579,$   $S_2 = c480b36ae0d98afbb017cc2b87288c40,$   
 $T_0 = f7898c11e9ca2a982e0ec3d45f8ca1b9,$   $T_1 = 16832a71814776b8b1811b8d3bd3a5be,$   
 $T_2 = edaf6a8cb2a23d7b248abad655f57b29,$   $T_3 = e17b07917917c6191d7b1224ebf16ef3,$   
 $T_4 = 1ca8becac6393645d46ea6f4b53403ca,$   $T_5 = b054682df53953b40bef52ba7c095a30,$   
 $T_6 = a1cfec3907745fa99ae686259cad90cd,$   $T_7 = b9edb7a19b0c6a20b8ec6a61651c104c,$   
 $T_8 = d08133fe035a6fd4fc38de0313b869e5,$   $T_9 = 0e3680d95e54a1d0e603409810f5c5d6;$

$l = 018:$   
 $S_1 = 6c7d654fdababda4abd00e9fdd397371,$   $S_2 = 37905bd217375ba932171b5a4b2721cb,$   
 $T_0 = a40dc121f1f2194ddde729fa2860953c,$   $T_1 = f7898c11e9ca2a982e0ec3d45f8ca1b9,$   
 $T_2 = 16832a71814776b8b1811b8d3bd3a5be,$   $T_3 = edaf6a8cb2a23d7b248abad655f57b29,$   
 $T_4 = e17b07917917c6191d7b1224ebf16ef3,$   $T_5 = 8926241aa0f3f3ea803eb594926d773b,$   
 $T_6 = b054682df53953b40bef52ba7c095a30,$   $T_7 = a1cfec3907745fa99ae686259cad90cd,$   
 $T_8 = b9edb7a19b0c6a20b8ec6a61651c104c,$   $T_9 = d08133fe035a6fd4fc38de0313b869e5;$

$l = 019:$   
 $S_1 = d90ed592665de10b4a1cd29e1e13747f,$   $S_2 = 32d395cf59966dd6b53dd809cfbb32ec,$   
 $T_0 = 0be26b61bff44ee1ff5aaaa7edcea76b,$   $T_1 = a40dc121f1f2194ddde729fa2860953c,$   
 $T_2 = f7898c11e9ca2a982e0ec3d45f8ca1b9,$   $T_3 = 16832a71814776b8b1811b8d3bd3a5be,$   
 $T_4 = edaf6a8cb2a23d7b248abad655f57b29,$   $T_5 = ba89dd23df75a7246797e4c30a04e372,$   
 $T_6 = 8926241aa0f3f3ea803eb594926d773b,$   $T_7 = b054682df53953b40bef52ba7c095a30,$   
 $T_8 = a1cfec3907745fa99ae686259cad90cd,$   $T_9 = b9edb7a19b0c6a20b8ec6a61651c104c;$

$l = 020:$   
 $S_1 = 1c22f7bce0155853c5a5f0e96e9ef,$   $S_2 = 09342d7c977a63eb7d0948142f43a99b,$   
 $T_0 = 25572963d34865410245a2733dda938a,$   $T_1 = 0be26b61bff44ee1ff5aaaa7edcea76b,$   
 $T_2 = a40dc121f1f2194ddde729fa2860953c,$   $T_3 = f7898c11e9ca2a982e0ec3d45f8ca1b9,$   
 $T_4 = 16832a71814776b8b1811b8d3bd3a5be,$   $T_5 = 09d26673ee703ed0a9c71535648c6518,$   
 $T_6 = ba89dd23df75a7246797e4c30a04e372,$   $T_7 = 8926241aa0f3f3ea803eb594926d773b,$   
 $T_8 = b054682df53953b40bef52ba7c095a30,$   $T_9 = a1cfec3907745fa99ae686259cad90cd;$

$l = 021:$   
 $S_1 = 5098f169b4840380e3ccc1f6bb0a5a42,$   $S_2 = 604383cf9599fb64e278b25affb57f33,$   
 $T_0 = b0dc75394a1dfee5c6457451babfd975,$   $T_1 = 25572963d34865410245a2733dda938a,$   
 $T_2 = 0be26b61bff44ee1ff5aaaa7edcea76b,$   $T_3 = a40dc121f1f2194ddde729fa2860953c,$   
 $T_4 = f7898c11e9ca2a982e0ec3d45f8ca1b9,$   $T_5 = 671c1bdb35cb7a39954ddd83f6de0000,$   
 $T_6 = 09d26673ee703ed0a9c71535648c6518,$   $T_7 = ba89dd23df75a7246797e4c30a04e372,$   
 $T_8 = 8926241aa0f3f3ea803eb594926d773b,$   $T_9 = b054682df53953b40bef52ba7c095a30;$

$l = 022:$   
 $S_1 = cb50222691edabc5d0f5c073f8e76180,$   $S_2 = 9fb970106e2fcb888b2f95a8c7b88a4a,$   
 $T_0 = 6b099237001d774e5c25561cc09febca,$   $T_1 = b0dc75394a1dfee5c6457451babfd975,$   
 $T_2 = 25572963d34865410245a2733dda938a,$   $T_3 = 0be26b61bff44ee1ff5aaaa7edcea76b,$   
 $T_4 = a40dc121f1f2194ddde729fa2860953c,$   $T_5 = c2d9ae387bb7d65dff04844858740339,$   
 $T_6 = 671c1bdb35cb7a39954ddd83f6de0000,$   $T_7 = 09d26673ee703ed0a9c71535648c6518,$   
 $T_8 = ba89dd23df75a7246797e4c30a04e372,$   $T_9 = 8926241aa0f3f3ea803eb594926d773b;$

$l = 023:$   
 $S_1 = 93b87af84cad76b41928f49decee1b9a,$   $S_2 = 23bb687f0109ac5af84eb0345ee3167e,$   
 $T_0 = b773e3774db7230f1177a4d24bd13218,$   $T_1 = 6b099237001d774e5c25561cc09febca,$

$T_2 = b0dc75394a1df5e5c6457451babfd975$ ,  $T_3 = 25572963d34865410245a2733dda938a$ ,  
 $T_4 = 0be26b61bfff44ee1ff5aaaa7edcea76b$ ,  $T_5 = 37c63c1a3e9f9001f7101e98154eb0d6$ ,  
 $T_6 = c2d9ae387bb7d65dff04844858740339$ ,  $T_7 = 671c1bdb35cb7a39954ddd83f6de0000$ ,  
 $T_8 = 09d26673ee703ed0a9c71535648c6518$ ,  $T_9 = ba89dd23df75a7246797e4c30a04e372$ ;  
 $l = 024$ :  
 $S_1 = 130211df988d0aa01b918c77af0d6076$ ,  $S_2 = 1ad1c13be035fe38fe637e94571c1532$ ,  
 $T_0 = 2dd3d31b78c308d919f50b0c062975a8$ ,  $T_1 = b773e3774db7230f1177a4d24bd13218$ ,  
 $T_2 = 6b099237001d774e5c25561cc09febca$ ,  $T_3 = b0dc75394a1df5e5c6457451babfd975$ ,  
 $T_4 = 25572963d34865410245a2733dda938a$ ,  $T_5 = 1ee47d41588159821aec371f9cdc07e1$ ,  
 $T_6 = 37c63c1a3e9f9001f7101e98154eb0d6$ ,  $T_7 = c2d9ae387bb7d65dff04844858740339$ ,  
 $T_8 = 671c1bdb35cb7a39954ddd83f6de0000$ ,  $T_9 = 09d26673ee703ed0a9c71535648c6518$ ;  
 $l = 025$ :  
 $S_1 = 81aea9d291cea8640ff37a00dac621da$ ,  $S_2 = 3b3b4cc3ddf3120071483161a5177c9d$ ,  
 $T_0 = bce9f6966fc1ba64813bab627fdd9e77$ ,  $T_1 = 2dd3d31b78c308d919f50b0c062975a8$ ,  
 $T_2 = b773e3774db7230f1177a4d24bd13218$ ,  $T_3 = 6b099237001d774e5c25561cc09febca$ ,  
 $T_4 = b0dc75394a1df5e5c6457451babfd975$ ,  $T_5 = a705d33665170da512391c7418a0b564$ ,  
 $T_6 = 1ee47d41588159821aec371f9cdc07e1$ ,  $T_7 = 37c63c1a3e9f9001f7101e98154eb0d6$ ,  
 $T_8 = c2d9ae387bb7d65dff04844858740339$ ,  $T_9 = 671c1bdb35cb7a39954ddd83f6de0000$ ;  
 $l = 026$ :  
 $S_1 = 6b306f80076d54e9251f5f154bed68c4$ ,  $S_2 = 3986eaf152ae9a35acc52fe6b558a5eb$ ,  
 $T_0 = a4b75a715a1bef1ed1e48efc01460eaf$ ,  $T_1 = bce9f6966fc1ba64813bab627fdd9e77$ ,  
 $T_2 = 2dd3d31b78c308d919f50b0c062975a8$ ,  $T_3 = b773e3774db7230f1177a4d24bd13218$ ,  
 $T_4 = 6b099237001d774e5c25561cc09febca$ ,  $T_5 = 1c0ce4b9518b53ceeb64d36706ad4239$ ,  
 $T_6 = a705d33665170da512391c7418a0b564$ ,  $T_7 = 1ee47d41588159821aec371f9cdc07e1$ ,  
 $T_8 = 37c63c1a3e9f9001f7101e98154eb0d6$ ,  $T_9 = c2d9ae387bb7d65dff04844858740339$ ;  
 $l = 027$ :  
 $S_1 = 22f78ece12d4545167a58169ae22802f$ ,  $S_2 = 10286fdc86f6cbda4829915b25be16b6$ ,  
 $T_0 = 331fffaa99cb202bafcf12c4d3e096e5$ ,  $T_1 = a4b75a715a1bef1ed1e48efc01460eaf$ ,  
 $T_2 = bce9f6966fc1ba64813bab627fdd9e77$ ,  $T_3 = 2dd3d31b78c308d919f50b0c062975a8$ ,  
 $T_4 = b773e3774db7230f1177a4d24bd13218$ ,  $T_5 = 8e01210512f1cb9fc3cad7866ec26bf9$ ,  
 $T_6 = 1c0ce4b9518b53ceeb64d36706ad4239$ ,  $T_7 = a705d33665170da512391c7418a0b564$ ,  
 $T_8 = 1ee47d41588159821aec371f9cdc07e1$ ,  $T_9 = 37c63c1a3e9f9001f7101e98154eb0d6$ ;  
 $l = 028$ :  
 $S_1 = d9e5df9e866726c11bc42c427dde40e7$ ,  $S_2 = 18676dcb9b72e5cbd21dffcbf2cf95cd$ ,  
 $T_0 = f24d4d6a21da0c8cede22c0e70add6b4$ ,  $T_1 = 331fffaa99cb202bafcf12c4d3e096e5$ ,  
 $T_2 = a4b75a715a1bef1ed1e48efc01460eaf$ ,  $T_3 = bce9f6966fc1ba64813bab627fdd9e77$ ,  
 $T_4 = 2dd3d31b78c308d919f50b0c062975a8$ ,  $T_5 = 9159c315d41e49d02d3bd114c9af72ff$ ,  
 $T_6 = 8e01210512f1cb9fc3cad7866ec26bf9$ ,  $T_7 = 1c0ce4b9518b53ceeb64d36706ad4239$ ,  
 $T_8 = a705d33665170da512391c7418a0b564$ ,  $T_9 = 1ee47d41588159821aec371f9cdc07e1$ ;  
 $l = 029$ :  
 $S_1 = cc6ae7ba1b6383ef15b68c9beda3b9de$ ,  $S_2 = 1faa7982d4b22731095a158691ff00f1$ ,  
 $T_0 = ec15613cf015ab201f10a2227fa2bacf$ ,  $T_1 = f24d4d6a21da0c8cede22c0e70add6b4$ ,  
 $T_2 = 331fffaa99cb202bafcf12c4d3e096e5$ ,  $T_3 = a4b75a715a1bef1ed1e48efc01460eaf$ ,  
 $T_4 = bce9f6966fc1ba64813bab627fdd9e77$ ,  $T_5 = fa3ebad594268cc82fab97a7f3cd2f86$ ,  
 $T_6 = 9159c315d41e49d02d3bd114c9af72ff$ ,  $T_7 = 8e01210512f1cb9fc3cad7866ec26bf9$ ,  
 $T_8 = 1c0ce4b9518b53ceeb64d36706ad4239$ ,  $T_9 = a705d33665170da512391c7418a0b564$ ;  
 $l = 030$ :  
 $S_1 = 6fdc6d43407f98a498670485d6d614c4$ ,  $S_2 = 954743a7c6cb9abefa1e823c62e6fb8a$ ,  
 $T_0 = 0523b0eb074b3363928586c239bd104e$ ,  $T_1 = ec15613cf015ab201f10a2227fa2bacf$ ,  
 $T_2 = f24d4d6a21da0c8cede22c0e70add6b4$ ,  $T_3 = 331fffaa99cb202bafcf12c4d3e096e5$ ,  
 $T_4 = a4b75a715a1bef1ed1e48efc01460eaf$ ,  $T_5 = 2cc663d9b041530919a2afe856b3b33b$ ,  
 $T_6 = fa3ebad594268cc82fab97a7f3cd2f86$ ,  $T_7 = 9159c315d41e49d02d3bd114c9af72ff$ ,



$T_8 = 8e01210512f1cb9fc3cad7866ec26bf9$ ,  $T_9 = 1c0ce4b9518b53ceeb64d36706ad4239$ ;  
 $l = 031$ :  
 $S_1 = d0354c8ec47e974b81711ba5fdb40c7b$ ,  $S_2 = f36423e9023ac3c9905cd0b5d2401a3b$ ,  
 $T_0 = c3997077c6b95b1511cdec5bcff426b6$ ,  $T_1 = 0523b0eb074b3363928586c239bd104e$ ,  
 $T_2 = ec15613cf015ab201f10a2227fa2bacf$ ,  $T_3 = f24d4d6a21da0c8ced22c0e70add6b4$ ,  
 $T_4 = 331ffeaa99cb202bafcf12c4d3e096e5$ ,  $T_5 = 74eca7001e9a866a5355aaa1fefalb2a$ ,  
 $T_6 = 2cc663d9b041530919a2afe856b3b33b$ ,  $T_7 = fa3ebad594268cc82fab97a7f3cd2f86$ ,  
 $T_8 = 9159c315d41e49d02d3bd114c9af72ff$ ,  $T_9 = 8e01210512f1cb9fc3cad7866ec26bf9$ ;  
 $l = 032$ :  
 $S_1 = 63941dd1782c9373f5b5a5ca550c8e15$ ,  $S_2 = 8404bebe6189a85aa77640c9e743cdbf$ ,  
 $T_0 = e798dc8fd9b63bce9d2be6943c505bd4$ ,  $T_1 = c3997077c6b95b1511cdec5bcff426b6$ ,  
 $T_2 = 0523b0eb074b3363928586c239bd104e$ ,  $T_3 = ec15613cf015ab201f10a2227fa2bacf$ ,  
 $T_4 = f24d4d6a21da0c8ced22c0e70add6b4$ ,  $T_5 = 96b41c7c11f7b39fa584b88f28ed24fa$ ,  
 $T_6 = 74eca7001e9a866a5355aaa1fefalb2a$ ,  $T_7 = 2cc663d9b041530919a2afe856b3b33b$ ,  
 $T_8 = fa3ebad594268cc82fab97a7f3cd2f86$ ,  $T_9 = 9159c315d41e49d02d3bd114c9af72ff$ ;  
 $l = 033$ :  
 $S_1 = a5ed68cb7ee70bcfcee46eb96e07f58f$ ,  $S_2 = a5b5c18ba658be4efe75c238de4b5043$ ,  
 $T_0 = 4ba32a57253fca1ecd5a30f24c5345d2$ ,  $T_1 = e798dc8fd9b63bce9d2be6943c505bd4$ ,  
 $T_2 = c3997077c6b95b1511cdec5bcff426b6$ ,  $T_3 = 0523b0eb074b3363928586c239bd104e$ ,  
 $T_4 = ec15613cf015ab201f10a2227fa2bacf$ ,  $T_5 = 983ab635a0c1185cbcc69ac7deb5cc43$ ,  
 $T_6 = 96b41c7c11f7b39fa584b88f28ed24fa$ ,  $T_7 = 74eca7001e9a866a5355aaa1fefalb2a$ ,  
 $T_8 = 2cc663d9b041530919a2afe856b3b33b$ ,  $T_9 = fa3ebad594268cc82fab97a7f3cd2f86$ ;  
 $l = 034$ :  
 $S_1 = 927d73ca7335635f5440b25471a9c0e7$ ,  $S_2 = f8b5db674f7fdf3d8781baa8d0b786f7$ ,  
 $T_0 = 8b334f31c2b5429cdb26cfd426147de$ ,  $T_1 = 4ba32a57253fca1ecd5a30f24c5345d2$ ,  
 $T_2 = e798dc8fd9b63bce9d2be6943c505bd4$ ,  $T_3 = c3997077c6b95b1511cdec5bcff426b6$ ,  
 $T_4 = 0523b0eb074b3363928586c239bd104e$ ,  $T_5 = 7e92d507634b0e7f73515476f14c7bb6$ ,  
 $T_6 = 983ab635a0c1185cbcc69ac7deb5cc43$ ,  $T_7 = 96b41c7c11f7b39fa584b88f28ed24fa$ ,  
 $T_8 = 74eca7001e9a866a5355aaa1fefalb2a$ ,  $T_9 = 2cc663d9b041530919a2afe856b3b33b$ ;  
 $l = 035$ :  
 $S_1 = f04642a40ee63e90212f01dc20274920$ ,  $S_2 = 2ffac26801f0623ebddae280f7b5f88e$ ,  
 $T_0 = 2041050c10d6a0cedf09e45d17dd41ae$ ,  $T_1 = 8b334f31c2b5429cdb26cfd426147de$ ,  
 $T_2 = 4ba32a57253fca1ecd5a30f24c5345d2$ ,  $T_3 = e798dc8fd9b63bce9d2be6943c505bd4$ ,  
 $T_4 = c3997077c6b95b1511cdec5bcff426b6$ ,  $T_5 = f569f38f163171f3b3b4889e59e4596e$ ,  
 $T_6 = 7e92d507634b0e7f73515476f14c7bb6$ ,  $T_7 = 983ab635a0c1185cbcc69ac7deb5cc43$ ,  
 $T_8 = 96b41c7c11f7b39fa584b88f28ed24fa$ ,  $T_9 = 74eca7001e9a866a5355aaa1fefalb2a$ ;  
 $l = 036$ :  
 $S_1 = ec5949dfcfa05b7832f254c4666ae121$ ,  $S_2 = aa4452fd76125b80744b93ac26776732$ ,  
 $T_0 = 969d9cdd45b2b6f8a73de8708ce24853$ ,  $T_1 = 2041050c10d6a0cedf09e45d17dd41ae$ ,  
 $T_2 = 8b334f31c2b5429cdb26cfd426147de$ ,  $T_3 = 4ba32a57253fca1ecd5a30f24c5345d2$ ,  
 $T_4 = e798dc8fd9b63bce9d2be6943c505bd4$ ,  $T_5 = aff2ba579659b68d44c04120365f07d7$ ,  
 $T_6 = f569f38f163171f3b3b4889e59e4596e$ ,  $T_7 = 7e92d507634b0e7f73515476f14c7bb6$ ,  
 $T_8 = 983ab635a0c1185cbcc69ac7deb5cc43$ ,  $T_9 = 96b41c7c11f7b39fa584b88f28ed24fa$ ;  
 $l = 037$ :  
 $S_1 = ca9a37a850c6c4ce76ea978c0a0bc322$ ,  $S_2 = 92cfdecfb2f867ce0d6613c138ac4d4$ ,  
 $T_0 = 5d6a16780bf64b4b57c0f8c81d9687f6$ ,  $T_1 = 969d9cdd45b2b6f8a73de8708ce24853$ ,  
 $T_2 = 2041050c10d6a0cedf09e45d17dd41ae$ ,  $T_3 = 8b334f31c2b5429cdb26cfd426147de$ ,  
 $T_4 = 4ba32a57253fca1ecd5a30f24c5345d2$ ,  $T_5 = b23314382a7d009d14167e20465c1ef6$ ,  
 $T_6 = aff2ba579659b68d44c04120365f07d7$ ,  $T_7 = f569f38f163171f3b3b4889e59e4596e$ ,  
 $T_8 = 7e92d507634b0e7f73515476f14c7bb6$ ,  $T_9 = 983ab635a0c1185cbcc69ac7deb5cc43$ ;  
 $l = 038$ :  
 $S_1 = bc1cab592348977966f543d0902ee925$ ,  $S_2 = 0172c90067dbf63824f0cc2475bd7870$ ,

$T_0 = \text{bd8f74598b248db18be60ff505ec6195}$ ,  $T_1 = \text{5d6a16780bf64b4b57c0f8c81d9687f6}$ ,  
 $T_2 = \text{969d9cdd45b2b6f8a73de8708ce24853}$ ,  $T_3 = \text{2041050c10d6a0cedf09e45d17dd41ae}$ ,  
 $T_4 = \text{8b334f31c2b5429cdbc26cfd426147de}$ ,  $T_5 = \text{07bfd5b048886198344f74c2dc822ef7}$ ,  
 $T_6 = \text{b23314382a7d009d14167e20465c1ef6}$ ,  $T_7 = \text{aff2ba579659b68d44c04120365f07d7}$ ,  
 $T_8 = \text{f569f38f163171f3b3b4889e59e4596e}$ ,  $T_9 = \text{7e92d507634b0e7f73515476f14c7bb6}$ ;  
 $l = 039$ :  
 $S_1 = \text{fd6f3ec2dc2251978eb4d1e0e94a650e}$ ,  $S_2 = \text{84aaba2281c650614e15f94e63c03bab}$ ,  
 $T_0 = \text{8219f8e55de8a1f8dccacb2f4d0aa0b9}$ ,  $T_1 = \text{bd8f74598b248db18be60ff505ec6195}$ ,  
 $T_2 = \text{5d6a16780bf64b4b57c0f8c81d9687f6}$ ,  $T_3 = \text{969d9cdd45b2b6f8a73de8708ce24853}$ ,  
 $T_4 = \text{2041050c10d6a0cedf09e45d17dd41ae}$ ,  $T_5 = \text{88a28df49ed794346a773ede2babacec}$ ,  
 $T_6 = \text{07bfd5b048886198344f74c2dc822ef7}$ ,  $T_7 = \text{b23314382a7d009d14167e20465c1ef6}$ ,  
 $T_8 = \text{aff2ba579659b68d44c04120365f07d7}$ ,  $T_9 = \text{f569f38f163171f3b3b4889e59e4596e}$ ;  
 $l = 040$ :  
 $S_1 = \text{2a2bc5b4af67ea30caea06896a59e152}$ ,  $S_2 = \text{c403d2130692b16a768ca3ab19dddd78}$ ,  
 $T_0 = \text{ee2f97c7b5fa9b9b4176aa348437beca}$ ,  $T_1 = \text{8219f8e55de8a1f8dccacb2f4d0aa0b9}$ ,  
 $T_2 = \text{bd8f74598b248db18be60ff505ec6195}$ ,  $T_3 = \text{5d6a16780bf64b4b57c0f8c81d9687f6}$ ,  
 $T_4 = \text{969d9cdd45b2b6f8a73de8708ce24853}$ ,  $T_5 = \text{4a6ccac0c03e8affa9f3eae682372300}$ ,  
 $T_6 = \text{88a28df49ed794346a773ede2babacec}$ ,  $T_7 = \text{07bfd5b048886198344f74c2dc822ef7}$ ,  
 $T_8 = \text{b23314382a7d009d14167e20465c1ef6}$ ,  $T_9 = \text{aff2ba579659b68d44c04120365f07d7}$ ;  
 $l = 041$ :  
 $S_1 = \text{58a96163c7321886436877f90c7bc946}$ ,  $S_2 = \text{9bcb1ebd968b133d76ec4bb05663385e}$ ,  
 $T_0 = \text{f47480215dbd2bc3ba54c3a962df01a4}$ ,  $T_1 = \text{ee2f97c7b5fa9b9b4176aa348437beca}$ ,  
 $T_2 = \text{8219f8e55de8a1f8dccacb2f4d0aa0b9}$ ,  $T_3 = \text{bd8f74598b248db18be60ff505ec6195}$ ,  
 $T_4 = \text{5d6a16780bf64b4b57c0f8c81d9687f6}$ ,  $T_5 = \text{ef46fe410ce4cf7eeaa66069995e1199}$ ,  
 $T_6 = \text{4a6ccac0c03e8affa9f3eae682372300}$ ,  $T_7 = \text{88a28df49ed794346a773ede2babacec}$ ,  
 $T_8 = \text{07bfd5b048886198344f74c2dc822ef7}$ ,  $T_9 = \text{b23314382a7d009d14167e20465c1ef6}$ ;  
 $l = 042$ :  
 $S_1 = \text{fffd6fa099c1e1342cc9fbec4045d011}$ ,  $S_2 = \text{384ee1d3dbe8d26e307b6e3d62840a33}$ ,  
 $T_0 = \text{384c517475aab3a25d456a29a2c9da44}$ ,  $T_1 = \text{f47480215dbd2bc3ba54c3a962df01a4}$ ,  
 $T_2 = \text{ee2f97c7b5fa9b9b4176aa348437beca}$ ,  $T_3 = \text{8219f8e55de8a1f8dccacb2f4d0aa0b9}$ ,  
 $T_4 = \text{bd8f74598b248db18be60ff505ec6195}$ ,  $T_5 = \text{5d678618a5b82c7f848af4b45ddc5807}$ ,  
 $T_6 = \text{ef46fe410ce4cf7eeaa66069995e1199}$ ,  $T_7 = \text{4a6ccac0c03e8affa9f3eae682372300}$ ,  
 $T_8 = \text{88a28df49ed794346a773ede2babacec}$ ,  $T_9 = \text{07bfd5b048886198344f74c2dc822ef7}$ ;  
 $l = 043$ :  
 $S_1 = \text{4aed83e007ca84ce84c2015dbef4e269}$ ,  $S_2 = \text{771a0da5db7fd1e3b3b6967d17ad34c7}$ ,  
 $T_0 = \text{c2079185e34a56b2387897dad6a21730}$ ,  $T_1 = \text{384c517475aab3a25d456a29a2c9da44}$ ,  
 $T_2 = \text{f47480215dbd2bc3ba54c3a962df01a4}$ ,  $T_3 = \text{ee2f97c7b5fa9b9b4176aa348437beca}$ ,  
 $T_4 = \text{8219f8e55de8a1f8dccacb2f4d0aa0b9}$ ,  $T_5 = \text{087cf83992ef128010a81152c4e143fe}$ ,  
 $T_6 = \text{5d678618a5b82c7f848af4b45ddc5807}$ ,  $T_7 = \text{ef46fe410ce4cf7eeaa66069995e1199}$ ,  
 $T_8 = \text{4a6ccac0c03e8affa9f3eae682372300}$ ,  $T_9 = \text{88a28df49ed794346a773ede2babacec}$ ;  
 $l = 044$ :  
 $S_1 = \text{46d5d970655100d8630e40a6fc5f8e36}$ ,  $S_2 = \text{242bc4c1afbbff6907333c99b82d99ca}$ ,  
 $T_0 = \text{6b019e32150d00416a417d40b48d2800}$ ,  $T_1 = \text{c2079185e34a56b2387897dad6a21730}$ ,  
 $T_2 = \text{384c517475aab3a25d456a29a2c9da44}$ ,  $T_3 = \text{f47480215dbd2bc3ba54c3a962df01a4}$ ,  
 $T_4 = \text{ee2f97c7b5fa9b9b4176aa348437beca}$ ,  $T_5 = \text{c8efd255c339a2d13fd90bd6496a2eef}$ ,  
 $T_6 = \text{087cf83992ef128010a81152c4e143fe}$ ,  $T_7 = \text{5d678618a5b82c7f848af4b45ddc5807}$ ,  
 $T_8 = \text{ef46fe410ce4cf7eeaa66069995e1199}$ ,  $T_9 = \text{4a6ccac0c03e8affa9f3eae682372300}$ ;  
 $l = 045$ :  
 $S_1 = \text{602a7150cc8d1095f9a6620579267f33}$ ,  $S_2 = \text{1797b64a63ba7efd0b30b476f9302496}$ ,  
 $T_0 = \text{77c2279b30478f9304d7167c7256a3c9}$ ,  $T_1 = \text{6b019e32150d00416a417d40b48d2800}$ ,  
 $T_2 = \text{c2079185e34a56b2387897dad6a21730}$ ,  $T_3 = \text{384c517475aab3a25d456a29a2c9da44}$ ,  
 $T_4 = \text{f47480215dbd2bc3ba54c3a962df01a4}$ ,  $T_5 = \text{4e5a09188287ac313b1d0c39fd5e3dfd}$ ,

$T_6 = c8efd255c339a2d13fd90bd6496a2eef$ ,  $T_7 = 087cf83992ef128010a81152c4e143fe$ ,  
 $T_8 = 5d678618a5b82c7f848af4b45ddc5807$ ,  $T_9 = ef46fe410ce4cf7eeaa66069995e1199$ ;  
 $l = 046$ :  
 $S_1 = 356389306496cf9d70c4dbd0ce57c330$ ,  $S_2 = f0f316914b54cf67604c57e518e7b0f2$ ,  
 $T_0 = 26569fc1afeb9f04d11133b5e73f7422$ ,  $T_1 = 77c2279b30478f9304d7167c7256a3c9$ ,  
 $T_2 = 6b019e32150d00416a417d40b48d2800$ ,  $T_3 = c2079185e34a56b2387897dad6a21730$ ,  
 $T_4 = 384c517475aab3a25d456a29a2c9da44$ ,  $T_5 = 29d80951c253fb612b199f7a3136c4d4$ ,  
 $T_6 = 4e5a09188287ac313b1d0c39fd5e3dfd$ ,  $T_7 = c8efd255c339a2d13fd90bd6496a2eef$ ,  
 $T_8 = 087cf83992ef128010a81152c4e143fe$ ,  $T_9 = 5d678618a5b82c7f848af4b45ddc5807$ ;  
 $l = 047$ :  
 $S_1 = bc5b24ce3f062fe09eaf716965bd23e6$ ,  $S_2 = 9709ae75d98c9d80d158aa5aa577d015$ ,  
 $T_0 = 5364d3441892cd6170081bc40b34f3fb$ ,  $T_1 = 26569fc1afeb9f04d11133b5e73f7422$ ,  
 $T_2 = 77c2279b30478f9304d7167c7256a3c9$ ,  $T_3 = 6b019e32150d00416a417d40b48d2800$ ,  
 $T_4 = c2079185e34a56b2387897dad6a21730$ ,  $T_5 = f4a77642b4b0e382fbf4db930886fe2a$ ,  
 $T_6 = 29d80951c253fb612b199f7a3136c4d4$ ,  $T_7 = 4e5a09188287ac313b1d0c39fd5e3dfd$ ,  
 $T_8 = c8efd255c339a2d13fd90bd6496a2eef$ ,  $T_9 = 087cf83992ef128010a81152c4e143fe$ ;  
 $l = 048$ :  
 $S_1 = b3d8d4e95e50a08bbc54cc92cbd92d7d$ ,  $S_2 = 7f65df24d6031bff863541eba7fbc0dc$ ,  
 $T_0 = 333eb40e3453bc8b428a0e7e73d4ee59$ ,  $T_1 = 5364d3441892cd6170081bc40b34f3fb$ ,  
 $T_2 = 26569fc1afeb9f04d11133b5e73f7422$ ,  $T_3 = 77c2279b30478f9304d7167c7256a3c9$ ,  
 $T_4 = 6b019e32150d00416a417d40b48d2800$ ,  $T_5 = 75e0666f419af73df4cd646da27b44ad$ ,  
 $T_6 = f4a77642b4b0e382fbf4db930886fe2a$ ,  $T_7 = 29d80951c253fb612b199f7a3136c4d4$ ,  
 $T_8 = 4e5a09188287ac313b1d0c39fd5e3dfd$ ,  $T_9 = c8efd255c339a2d13fd90bd6496a2eef$ ;  
 $l = 049$ :  
 $S_1 = b6068d0c9e8f26346ad4edc6af37030e$ ,  $S_2 = 9df212c4e2e8d6690377fb6944e748b0$ ,  
 $T_0 = 53f89fd18177fc9d6e4ce92ff41e4bbe$ ,  $T_1 = 333eb40e3453bc8b428a0e7e73d4ee59$ ,  
 $T_2 = 5364d3441892cd6170081bc40b34f3fb$ ,  $T_3 = 26569fc1afeb9f04d11133b5e73f7422$ ,  
 $T_4 = 77c2279b30478f9304d7167c7256a3c9$ ,  $T_5 = 21082b3eb39c2675d5166b0763c42b0e$ ,  
 $T_6 = 75e0666f419af73df4cd646da27b44ad$ ,  $T_7 = f4a77642b4b0e382fbf4db930886fe2a$ ,  
 $T_8 = 29d80951c253fb612b199f7a3136c4d4$ ,  $T_9 = 4e5a09188287ac313b1d0c39fd5e3dfd$ ;  
 $l = 050$ :  
 $S_1 = 3d3a721c9133fc7b40a8b6d75e3fec67$ ,  $S_2 = 38dcaa1585e69da9efbf86b1ee8c72ab$ ,  
 $T_0 = 76171c32171a9a2530683d894ccc5f12$ ,  $T_1 = 53f89fd18177fc9d6e4ce92ff41e4bbe$ ,  
 $T_2 = 333eb40e3453bc8b428a0e7e73d4ee59$ ,  $T_3 = 5364d3441892cd6170081bc40b34f3fb$ ,  
 $T_4 = 26569fc1afeb9f04d11133b5e73f7422$ ,  $T_5 = b4fc99b7c17b8c0e457fcd53d0969030$ ,  
 $T_6 = 21082b3eb39c2675d5166b0763c42b0e$ ,  $T_7 = 75e0666f419af73df4cd646da27b44ad$ ,  
 $T_8 = f4a77642b4b0e382fbf4db930886fe2a$ ,  $T_9 = 29d80951c253fb612b199f7a3136c4d4$ ;  
 $l = 051$ :  
 $S_1 = abf3b2232344881fa0627f92ee6276ef$ ,  $S_2 = 69801fa380cd1c1363ced3ec6a7a0252$ ,  
 $T_0 = 1573d1c6a411a4330431537f58dc7941$ ,  $T_1 = 76171c32171a9a2530683d894ccc5f12$ ,  
 $T_2 = 53f89fd18177fc9d6e4ce92ff41e4bbe$ ,  $T_3 = 333eb40e3453bc8b428a0e7e73d4ee59$ ,  
 $T_4 = 5364d3441892cd6170081bc40b34f3fb$ ,  $T_5 = d24a51e4d33027247173b348d5a1eb11$ ,  
 $T_6 = b4fc99b7c17b8c0e457fcd53d0969030$ ,  $T_7 = 21082b3eb39c2675d5166b0763c42b0e$ ,  
 $T_8 = 75e0666f419af73df4cd646da27b44ad$ ,  $T_9 = f4a77642b4b0e382fbf4db930886fe2a$ ;  
 $l = 052$ :  
 $S_1 = f149d2ac14692ba385d879727e0652fd$ ,  $S_2 = 6a115d2fbafb9a92e3aa64c0e4f16094$ ,  
 $T_0 = 5b5b2fdbcf64c6366982de3362f7b391$ ,  $T_1 = 1573d1c6a411a4330431537f58dc7941$ ,  
 $T_2 = 76171c32171a9a2530683d894ccc5f12$ ,  $T_3 = 53f89fd18177fc9d6e4ce92ff41e4bbe$ ,  
 $T_4 = 333eb40e3453bc8b428a0e7e73d4ee59$ ,  $T_5 = 44aea5f02cfbf904f5e09536893b46f8$ ,  
 $T_6 = d24a51e4d33027247173b348d5a1eb11$ ,  $T_7 = b4fc99b7c17b8c0e457fcd53d0969030$ ,  
 $T_8 = 21082b3eb39c2675d5166b0763c42b0e$ ,  $T_9 = 75e0666f419af73df4cd646da27b44ad$ ;  
 $l = 053$ :

$S_1 = \text{eb38d10b5e11fc425eb0309d6981bead}$ ,  $S_2 = 609e65014066558fc5c14c4e209a8874$ ,  
 $T_0 = 4bd7360c9e7851d224717ceb8a1c4721$ ,  $T_1 = 5b5b2fdbcf64c6366982de3362f7b391$ ,  
 $T_2 = 1573d1c6a411a4330431537f58dc7941$ ,  $T_3 = 76171c32171a9a2530683d894ccc5f12$ ,  
 $T_4 = 53f89fd18177fc9d6e4ce92ff41e4bbe$ ,  $T_5 = 1e7785199265b8cda13a3f1bdd56ad06$ ,  
 $T_6 = 44aea5f02cfbf904f5e09536893b46f8$ ,  $T_7 = d24a51e4d33027247173b348d5a1eb11$ ,  
 $T_8 = b4fc99b7c17b8c0e457fcd53d0969030$ ,  $T_9 = 21082b3eb39c2675d5166b0763c42b0e$ ;  
 $l = 054$ :  
 $S_1 = 0c85cb638d29652485b9d5f7e0349101$ ,  $S_2 = 9f6b6f0aef1a24b8b804f1fcb435b8b3$ ,  
 $T_0 = abf13a6e7c4389dd3dbec7f4946a49b4$ ,  $T_1 = 4bd7360c9e7851d224717ceb8a1c4721$ ,  
 $T_2 = 5b5b2fdbcf64c6366982de3362f7b391$ ,  $T_3 = 1573d1c6a411a4330431537f58dc7941$ ,  
 $T_4 = 76171c32171a9a2530683d894ccc5f12$ ,  $T_5 = 607e6b350ea161c1f406bf27d452dcbf$ ,  
 $T_6 = 1e7785199265b8cda13a3f1bdd56ad06$ ,  $T_7 = 44aea5f02cfbf904f5e09536893b46f8$ ,  
 $T_8 = d24a51e4d33027247173b348d5a1eb11$ ,  $T_9 = b4fc99b7c17b8c0e457fcd53d0969030$ ;  
 $l = 055$ :  
 $S_1 = 7fc300ee2254cc81f9debe71b753fa32$ ,  $S_2 = 348a85946a5704c2382d146b936e5508$ ,  
 $T_0 = b44d86828cabd144320bd2dd4ac24f3a$ ,  $T_1 = abf13a6e7c4389dd3dbec7f4946a49b4$ ,  
 $T_2 = 4bd7360c9e7851d224717ceb8a1c4721$ ,  $T_3 = 5b5b2fdbcf64c6366982de3362f7b391$ ,  
 $T_4 = 1573d1c6a411a4330431537f58dc7941$ ,  $T_5 = f5da1d20396f66a72a46fbfb04205944$ ,  
 $T_6 = 607e6b350ea161c1f406bf27d452dcbf$ ,  $T_7 = 1e7785199265b8cda13a3f1bdd56ad06$ ,  
 $T_8 = 44aea5f02cfbf904f5e09536893b46f8$ ,  $T_9 = d24a51e4d33027247173b348d5a1eb11$ ;  
 $l = 056$ :  
 $S_1 = 21bfb91f0e823dbfc1e2c48dc8b5427e$ ,  $S_2 = 777fde13e6266954609cac75332f009c$ ,  
 $T_0 = 993f9732f4a8a714227f7102f7be4431a$ ,  $T_1 = b44d86828cabd144320bd2dd4ac24f3a$ ,  
 $T_2 = abf13a6e7c4389dd3dbec7f4946a49b4$ ,  $T_3 = 4bd7360c9e7851d224717ceb8a1c4721$ ,  
 $T_4 = 5b5b2fdbcf64c6366982de3362f7b391$ ,  $T_5 = 37338ae5b293e1f2c614180d2191bbbff$ ,  
 $T_6 = f5da1d20396f66a72a46fbfb04205944$ ,  $T_7 = 607e6b350ea161c1f406bf27d452dcbf$ ,  
 $T_8 = 1e7785199265b8cda13a3f1bdd56ad06$ ,  $T_9 = 44aea5f02cfbf904f5e09536893b46f8$ ;  
 $l = 057$ :  
 $S_1 = ece117010dc2073582238707a3024304$ ,  $S_2 = 2ec048a9c09486ea660bcf58534360c0$ ,  
 $T_0 = 1ba15faace568e1fe82f565ff645a3c4$ ,  $T_1 = 993f9732f4a8a714227f7102f7be4431a$ ,  
 $T_2 = b44d86828cabd144320bd2dd4ac24f3a$ ,  $T_3 = abf13a6e7c4389dd3dbec7f4946a49b4$ ,  
 $T_4 = 4bd7360c9e7851d224717ceb8a1c4721$ ,  $T_5 = 483c46dcdd26cd6beba6653b05f9f695$ ,  
 $T_6 = 37338ae5b293e1f2c614180d2191bbbff$ ,  $T_7 = f5da1d20396f66a72a46fbfb04205944$ ,  
 $T_8 = 607e6b350ea161c1f406bf27d452dcbf$ ,  $T_9 = 1e7785199265b8cda13a3f1bdd56ad06$ ;  
 $l = 058$ :  
 $S_1 = 1023395b434ae9715d4a1a4852138fc8$ ,  $S_2 = 4152d9829678cfdd90a0924f68d6f83c$ ,  
 $T_0 = 517612ddd9c3b94eedeaac97baea8804$ ,  $T_1 = 1ba15faace568e1fe82f565ff645a3c4$ ,  
 $T_2 = 993f9732f4a8a714227f7102f7be4431a$ ,  $T_3 = b44d86828cabd144320bd2dd4ac24f3a$ ,  
 $T_4 = abf13a6e7c4389dd3dbec7f4946a49b4$ ,  $T_5 = 5bfa6f67e1c33b4381bb9733dc2fd6e9$ ,  
 $T_6 = 483c46dcdd26cd6beba6653b05f9f695$ ,  $T_7 = 37338ae5b293e1f2c614180d2191bbbff$ ,  
 $T_8 = f5da1d20396f66a72a46fbfb04205944$ ,  $T_9 = 607e6b350ea161c1f406bf27d452dcbf$ ;  
 $l = 059$ :  
 $S_1 = 3e0c66ac0f53a915aabf4ccd54b3c609$ ,  $S_2 = ef139dc962a2f969511532b24d5ad6d3$ ,  
 $T_0 = 2d20047571f6a27efbd47f7fa20e9cdc$ ,  $T_1 = 517612ddd9c3b94eedeaac97baea8804$ ,  
 $T_2 = 1ba15faace568e1fe82f565ff645a3c4$ ,  $T_3 = 993f9732f4a8a714227f7102f7be4431a$ ,  
 $T_4 = b44d86828cabd144320bd2dd4ac24f3a$ ,  $T_5 = e9fda11a8b9732f2e87e14c1e91e0fbd$ ,  
 $T_6 = 5bfa6f67e1c33b4381bb9733dc2fd6e9$ ,  $T_7 = 483c46dcdd26cd6beba6653b05f9f695$ ,  
 $T_8 = 37338ae5b293e1f2c614180d2191bbbff$ ,  $T_9 = f5da1d20396f66a72a46fbfb04205944$ ;  
 $l = 060$ :  
 $S_1 = 7f3d9c461b0c3c80137e33a518328114$ ,  $S_2 = d8346cd87e49572c5bc69fc8240846cd$ ,  
 $T_0 = 5772091e995593ac6f44d36d3c3ac7e1$ ,  $T_1 = 2d20047571f6a27efbd47f7fa20e9cdc$ ,  
 $T_2 = 517612ddd9c3b94eedeaac97baea8804$ ,  $T_3 = 1ba15faace568e1fe82f565ff645a3c4$ ,

$T_4 = 993f9732f4a8a714227f7102fbe4431a$ ,  $T_5 = 338b22c8a7b80dc4458a068262f4d04e$ ,  
 $T_6 = e9fda11a8b9732f2e87e14c1e91e0fbd$ ,  $T_7 = 5bfa6f67e1c33b4381bb9733dc2fd6e9$ ,  
 $T_8 = 483c46dcdd26cd6beba6653b05f9f695$ ,  $T_9 = 37338ae5b293e1f2c614180d2191bbbf$ ;  
 $l = 061$ :  
 $S_1 = f8e10fc49f9fc00f258101b4ff03c5e3$ ,  $S_2 = 765c27c19a87c9a85625dacea66884b6$ ,  
 $T_0 = 6f3d37863a2789b77ba6dc83a56c4a99$ ,  $T_1 = 5772091e995593ac6f44d36d3c3ac7e1$ ,  
 $T_2 = 2d20047571f6a27efbd47f7fa20e9cdc$ ,  $T_3 = 517612ddd9c3b94eedeaac97baea8804$ ,  
 $T_4 = 1ba15faace568e1fe82f565ff645a3c4$ ,  $T_5 = 9220a6f794486723480072b7fae808fd$ ,  
 $T_6 = 338b22c8a7b80dc4458a068262f4d04e$ ,  $T_7 = e9fda11a8b9732f2e87e14c1e91e0fbd$ ,  
 $T_8 = 5bfa6f67e1c33b4381bb9733dc2fd6e9$ ,  $T_9 = 483c46dcdd26cd6beba6653b05f9f695$ ;  
 $l = 062$ :  
 $S_1 = a1cb16dc9ad1cccd14d0cae85ccc0bcd$ ,  $S_2 = 43a5e4e75d964b993b85cfa77af7e631$ ,  
 $T_0 = e570fbc3f868188650569a8fd7c3f1fe$ ,  $T_1 = 6f3d37863a2789b77ba6dc83a56c4a99$ ,  
 $T_2 = 5772091e995593ac6f44d36d3c3ac7e1$ ,  $T_3 = 2d20047571f6a27efbd47f7fa20e9cdc$ ,  
 $T_4 = 517612ddd9c3b94eedeaac97baea8804$ ,  $T_5 = bd6c768769285b0cfd0021485311af91$ ,  
 $T_6 = 9220a6f794486723480072b7fae808fd$ ,  $T_7 = 338b22c8a7b80dc4458a068262f4d04e$ ,  
 $T_8 = e9fda11a8b9732f2e87e14c1e91e0fbd$ ,  $T_9 = 5bfa6f67e1c33b4381bb9733dc2fd6e9$ ;  
 $l = 063$ :  
 $S_1 = 244a1292439bca01a29f28304b527367$ ,  $S_2 = 5877034087c174a02b3178c592f44962$ ,  
 $T_0 = 7cc115d2cb5d3ea1cdd0a0f5de46bcc9$ ,  $T_1 = e570fbc3f868188650569a8fd7c3f1fe$ ,  
 $T_2 = 6f3d37863a2789b77ba6dc83a56c4a99$ ,  $T_3 = 5772091e995593ac6f44d36d3c3ac7e1$ ,  
 $T_4 = 2d20047571f6a27efbd47f7fa20e9cdc$ ,  $T_5 = 75c025701d5f83509089d4c8063cfb6b$ ,  
 $T_6 = bd6c768769285b0cfd0021485311af91$ ,  $T_7 = 9220a6f794486723480072b7fae808fd$ ,  
 $T_8 = 338b22c8a7b80dc4458a068262f4d04e$ ,  $T_9 = e9fda11a8b9732f2e87e14c1e91e0fbd$ ;  
 $l = 064$ :  
 $S_1 = a2aef018441df6f864720547d11bd8ea$ ,  $S_2 = ad109a919f96476e70db8ad72a6a46b8$ ,  
 $T_0 = 4fbf8aa9e3b43e66d54d901efb861fa2$ ,  $T_1 = 7cc115d2cb5d3ea1cdd0a0f5de46bcc9$ ,  
 $T_2 = e570fbc3f868188650569a8fd7c3f1fe$ ,  $T_3 = 6f3d37863a2789b77ba6dc83a56c4a99$ ,  
 $T_4 = 5772091e995593ac6f44d36d3c3ac7e1$ ,  $T_5 = cfcef48db6149977604684c7732a75c6$ ,  
 $T_6 = 75c025701d5f83509089d4c8063cfb6b$ ,  $T_7 = bd6c768769285b0cfd0021485311af91$ ,  
 $T_8 = 9220a6f794486723480072b7fae808fd$ ,  $T_9 = 338b22c8a7b80dc4458a068262f4d04e$ ;  
 $l = 065$ :  
 $S_1 = 088caabdb1cc7bb52cbcf6048bce9b77$ ,  $S_2 = 2c975ad16bb86c4ef152c787a28301a9$ ,  
 $T_0 = 3524058f1d84e8041e0fbd8c2e519d20$ ,  $T_1 = 4fbf8aa9e3b43e66d54d901efb861fa2$ ,  
 $T_2 = 7cc115d2cb5d3ea1cdd0a0f5de46bcc9$ ,  $T_3 = e570fbc3f868188650569a8fd7c3f1fe$ ,  
 $T_4 = 6f3d37863a2789b77ba6dc83a56c4a99$ ,  $T_5 = 5ffeb3dc4b220f619c01c971c8096358$ ,  
 $T_6 = cfcef48db6149977604684c7732a75c6$ ,  $T_7 = 75c025701d5f83509089d4c8063cfb6b$ ,  
 $T_8 = bd6c768769285b0cfd0021485311af91$ ,  $T_9 = 9220a6f794486723480072b7fae808fd$ ;  
 $l = 066$ :  
 $S_1 = 79581be0312fdfdb60c3d01448421071$ ,  $S_2 = 9e8e4c2995c442f8dfd490296c8511c0$ ,  
 $T_0 = 17e66809c6f422d44098603db4c72231$ ,  $T_1 = 3524058f1d84e8041e0fbd8c2e519d20$ ,  
 $T_2 = 4fbf8aa9e3b43e66d54d901efb861fa2$ ,  $T_3 = 7cc115d2cb5d3ea1cdd0a0f5de46bcc9$ ,  
 $T_4 = e570fbc3f868188650569a8fd7c3f1fe$ ,  $T_5 = e89553666b576992dc6aac97edae5b0a$ ,  
 $T_6 = 5ffeb3dc4b220f619c01c971c8096358$ ,  $T_7 = cfcef48db6149977604684c7732a75c6$ ,  
 $T_8 = 75c025701d5f83509089d4c8063cfb6b$ ,  $T_9 = bd6c768769285b0cfd0021485311af91$ ;  
 $l = 067$ :  
 $S_1 = e6f9d399315cb2bdb066500e9f82a445$ ,  $S_2 = df3f44cfa90c0152c75d56e3acdd2367$ ,  
 $T_0 = c6391868da68b41077c3a6f24c5fc7ac$ ,  $T_1 = 17e66809c6f422d44098603db4c72231$ ,  
 $T_2 = 3524058f1d84e8041e0fbd8c2e519d20$ ,  $T_3 = 4fbf8aa9e3b43e66d54d901efb861fa2$ ,  
 $T_4 = 7cc115d2cb5d3ea1cdd0a0f5de46bcc9$ ,  $T_5 = cc6acf5d29c4cb4400bcea9e77469643$ ,  
 $T_6 = e89553666b576992dc6aac97edae5b0a$ ,  $T_7 = 5ffeb3dc4b220f619c01c971c8096358$ ,  
 $T_8 = cfcef48db6149977604684c7732a75c6$ ,  $T_9 = 75c025701d5f83509089d4c8063cfb6b$ ;

$l = 068:$   
 $S_1 = 104c82204286e18900974bd1113a8da0, S_2 = 5571707036e6f758b823b1ec547ba4d5,$   
 $T_0 = 65bdf290796dd8e1b8bafdbd65b63275, T_1 = c6391868da68b41077c3a6f24c5fc7ac,$   
 $T_2 = 17e66809c6f422d44098603db4c72231, T_3 = 3524058f1d84e8041e0fbd8c2e519d20,$   
 $T_4 = 4fbf8aa9e3b43e66d54d901efb861fa2, T_5 = 8d0d97f30de4202ace67ecc6ef814a69,$   
 $T_6 = cc6acf5d29c4cb4400bcea9e77469643, T_7 = e89553666b576992dc6aac97edae5b0a,$   
 $T_8 = 5ffeb3dc4b220f619c01c971c8096358, T_9 = cfcef48db6149977604684c7732a75c6;$   
 $l = 069:$   
 $S_1 = 985adbddadc326402567c9a85d7cbf27, S_2 = d5ca00118c624803685719d8508391ba,$   
 $T_0 = 6e24dbef3a256e438dbee380ae0050e1, T_1 = 65bdf290796dd8e1b8bafdbd65b63275,$   
 $T_2 = c6391868da68b41077c3a6f24c5fc7ac, T_3 = 17e66809c6f422d44098603db4c72231,$   
 $T_4 = 3524058f1d84e8041e0fbd8c2e519d20, T_5 = e81a6687917764a6fab559c75902dec9,$   
 $T_6 = 8d0d97f30de4202ace67ecc6ef814a69, T_7 = cc6acf5d29c4cb4400bcea9e77469643,$   
 $T_8 = e89553666b576992dc6aac97edae5b0a, T_9 = 5ffeb3dc4b220f619c01c971c8096358;$   
 $l = 070:$   
 $S_1 = 78351d5a0c9b26517347b5abcb998328, S_2 = 8b3042f3af7e37003280456711b207bc,$   
 $T_0 = 0365604dbc195d51a5c7fb12dd4b8ae4, T_1 = 6e24dbef3a256e438dbee380ae0050e1,$   
 $T_2 = 65bdf290796dd8e1b8bafdbd65b63275, T_3 = c6391868da68b41077c3a6f24c5fc7ac,$   
 $T_4 = 17e66809c6f422d44098603db4c72231, T_5 = ad5922e92a200e5591577337f9eb2048,$   
 $T_6 = e81a6687917764a6fab559c75902dec9, T_7 = 8d0d97f30de4202ace67ecc6ef814a69,$   
 $T_8 = cc6acf5d29c4cb4400bcea9e77469643, T_9 = e89553666b576992dc6aac97edae5b0a;$   
 $l = 071:$   
 $S_1 = 609acf1ee18c862abd6bf0b7a9d96bfc, S_2 = 1869420c3ecc6e4d22ace9024e129d4b,$   
 $T_0 = 7904112b2058f477e018d9b9f7ec0947, T_1 = 0365604dbc195d51a5c7fb12dd4b8ae4,$   
 $T_2 = 6e24dbef3a256e438dbee380ae0050e1, T_3 = 65bdf290796dd8e1b8bafdbd65b63275,$   
 $T_4 = c6391868da68b41077c3a6f24c5fc7ac, T_5 = 78813728a880a8fefe0450f55ea08e2d,$   
 $T_6 = ad5922e92a200e5591577337f9eb2048, T_7 = e81a6687917764a6fab559c75902dec9,$   
 $T_8 = 8d0d97f30de4202ace67ecc6ef814a69, T_9 = cc6acf5d29c4cb4400bcea9e77469643;$   
 $l = 072:$   
 $S_1 = 593b7a0dc11773893f5b8cc33c87ba8f, S_2 = faeca5321f2de8063b47c52056725a8b,$   
 $T_0 = 54281f3fe0455b8f7aa351e392fa151a, T_1 = 7904112b2058f477e018d9b9f7ec0947,$   
 $T_2 = 0365604dbc195d51a5c7fb12dd4b8ae4, T_3 = 6e24dbef3a256e438dbee380ae0050e1,$   
 $T_4 = 65bdf290796dd8e1b8bafdbd65b63275, T_5 = 1f7492769b802799b71f33b588e7823b,$   
 $T_6 = 78813728a880a8fefe0450f55ea08e2d, T_7 = ad5922e92a200e5591577337f9eb2048,$   
 $T_8 = e81a6687917764a6fab559c75902dec9, T_9 = 8d0d97f30de4202ace67ecc6ef814a69;$   
 $l = 073:$   
 $S_1 = 16e8814224bd29ee2620a00736ccf9e0, S_2 = 33306b389067876ef7036a1ce3201ccd,$   
 $T_0 = 4a18ec7ab524b15d1d240a2419ed16ad, T_1 = 54281f3fe0455b8f7aa351e392fa151a,$   
 $T_2 = 7904112b2058f477e018d9b9f7ec0947, T_3 = 0365604dbc195d51a5c7fb12dd4b8ae4,$   
 $T_4 = 6e24dbef3a256e438dbee380ae0050e1, T_5 = 7ca673d29e2b02cfdedb9dc49c832c55,$   
 $T_6 = 1f7492769b802799b71f33b588e7823b, T_7 = 78813728a880a8fefe0450f55ea08e2d,$   
 $T_8 = ad5922e92a200e5591577337f9eb2048, T_9 = e81a6687917764a6fab559c75902dec9;$   
 $l = 074:$   
 $S_1 = 063bfa9f6203cfb5ec4892bab22cfe21, S_2 = 3e2be8522955fa65025d59de1c415796,$   
 $T_0 = 4467e2f18b59ca1aeea5ec98ce6e55b7, T_1 = 4a18ec7ab524b15d1d240a2419ed16ad,$   
 $T_2 = 54281f3fe0455b8f7aa351e392fa151a, T_3 = 7904112b2058f477e018d9b9f7ec0947,$   
 $T_4 = 0365604dbc195d51a5c7fb12dd4b8ae4, T_5 = 7460d68e9c293df97a07763b602d4f02,$   
 $T_6 = 7ca673d29e2b02cfdedb9dc49c832c55, T_7 = 1f7492769b802799b71f33b588e7823b,$   
 $T_8 = 78813728a880a8fefe0450f55ea08e2d, T_9 = ad5922e92a200e5591577337f9eb2048;$   
 $l = 075:$   
 $S_1 = 41131b572589c8150b7c142cd104ad18, S_2 = 2a1068c958fb08891d667adfc87ca0cf,$   
 $T_0 = 6b2384207e84d09e28e28f0c99814de7, T_1 = 4467e2f18b59ca1aeea5ec98ce6e55b7,$

$T_2 = 4a18ec7ab524b15d1d240a2419ed16ad$ ,  $T_3 = 54281f3fe0455b8f7aa351e392fa151a$ ,  
 $T_4 = 7904112b2058f477e018d9b9f7ec0947$ ,  $T_5 = 44787ba4e1a32566b1440f3fae5037fc$ ,  
 $T_6 = 7460d68e9c293df97a07763b602d4f02$ ,  $T_7 = 7ca673d29e2b02cfdedb9dc49c832c55$ ,  
 $T_8 = 1f7492769b802799b71f33b588e7823b$ ,  $T_9 = 78813728a880a8fefe0450f55ea08e2d$ ;  
 $l = 076$ :  
 $S_1 = ee743ea1976328cc3fce68ae7362442b$ ,  $S_2 = dcb4ba15a669e884d281b304c46fe4ae$ ,  
 $T_0 = cb28f8b73dcd115112501bb337d228d9$ ,  $T_1 = 6b2384207e84d09e28e28f0c99814de7$ ,  
 $T_2 = 4467e2f18b59ca1aeea5ec98ce6e55b7$ ,  $T_3 = 4a18ec7ab524b15d1d240a2419ed16ad$ ,  
 $T_4 = 54281f3fe0455b8f7aa351e392fa151a$ ,  $T_5 = 67784fccb7bc1d441fe742686b4e4d72$ ,  
 $T_6 = 44787ba4e1a32566b1440f3fae5037fc$ ,  $T_7 = 7460d68e9c293df97a07763b602d4f02$ ,  
 $T_8 = 7ca673d29e2b02cfdedb9dc49c832c55$ ,  $T_9 = 1f7492769b802799b71f33b588e7823b$ ;  
 $l = 077$ :  
 $S_1 = a89859f1d21bb886a412dfb8ee47565c$ ,  $S_2 = 19f031b989baa9ae2df40674a17ebc13$ ,  
 $T_0 = c2888bab5bd66234d206e62d8fc6126f$ ,  $T_1 = cb28f8b73dcd115112501bb337d228d9$ ,  
 $T_2 = 6b2384207e84d09e28e28f0c99814de7$ ,  $T_3 = 4467e2f18b59ca1aeea5ec98ce6e55b7$ ,  
 $T_4 = 4a18ec7ab524b15d1d240a2419ed16ad$ ,  $T_5 = fcc07931b26114161eb6319c81416b76$ ,  
 $T_6 = 67784fccb7bc1d441fe742686b4e4d72$ ,  $T_7 = 44787ba4e1a32566b1440f3fae5037fc$ ,  
 $T_8 = 7460d68e9c293df97a07763b602d4f02$ ,  $T_9 = 7ca673d29e2b02cfdedb9dc49c832c55$ ;  
 $l = 078$ :  
 $S_1 = d6a71801c1694b07b426dc4f749805fc$ ,  $S_2 = 0567f20be8dc6f4b3f8c677249abd3fa$ ,  
 $T_0 = dc0f0a0daa45ba52f3b343c1be43d9f6$ ,  $T_1 = c2888bab5bd66234d206e62d8fc6126f$ ,  
 $T_2 = cb28f8b73dcd115112501bb337d228d9$ ,  $T_3 = 6b2384207e84d09e28e28f0c99814de7$ ,  
 $T_4 = 4467e2f18b59ca1aeea5ec98ce6e55b7$ ,  $T_5 = 20c0047c768dfc64d14ae6738e851ca9$ ,  
 $T_6 = fcc07931b26114161eb6319c81416b76$ ,  $T_7 = 67784fccb7bc1d441fe742686b4e4d72$ ,  
 $T_8 = 44787ba4e1a32566b1440f3fae5037fc$ ,  $T_9 = 7460d68e9c293df97a07763b602d4f02$ ;  
 $l = 079$ :  
 $S_1 = 2005ddf8ef50816920cb4db2ab294f2d$ ,  $S_2 = 9577ee84d64734c4c7e90ce474f2dfb1$ ,  
 $T_0 = b57dcc7dc597b62de8b45a97201c2ede$ ,  $T_1 = dc0f0a0daa45ba52f3b343c1be43d9f6$ ,  
 $T_2 = c2888bab5bd66234d206e62d8fc6126f$ ,  $T_3 = cb28f8b73dcd115112501bb337d228d9$ ,  
 $T_4 = 6b2384207e84d09e28e28f0c99814de7$ ,  $T_5 = 646dc0ea7aaa4b840f713a4b7997a4e4$ ,  
 $T_6 = 20c0047c768dfc64d14ae6738e851ca9$ ,  $T_7 = fcc07931b26114161eb6319c81416b76$ ,  
 $T_8 = 67784fccb7bc1d441fe742686b4e4d72$ ,  $T_9 = 44787ba4e1a32566b1440f3fae5037fc$ ;  
 $l = 080$ :  
 $S_1 = e370648affe2dd4d8ff6cd56ff736891$ ,  $S_2 = ab67cab8f5239d362a2a81dc0ceb4ac5$ ,  
 $T_0 = 8ed82f43f5067a83ba214f330c5eb356$ ,  $T_1 = b57dcc7dc597b62de8b45a97201c2ede$ ,  
 $T_2 = dc0f0a0daa45ba52f3b343c1be43d9f6$ ,  $T_3 = c2888bab5bd66234d206e62d8fc6126f$ ,  
 $T_4 = cb28f8b73dcd115112501bb337d228d9$ ,  $T_5 = 4e93e8ab7e67adebb8d95c6398f4b678$ ,  
 $T_6 = 646dc0ea7aaa4b840f713a4b7997a4e4$ ,  $T_7 = 20c0047c768dfc64d14ae6738e851ca9$ ,  
 $T_8 = fcc07931b26114161eb6319c81416b76$ ,  $T_9 = 67784fccb7bc1d441fe742686b4e4d72$ ;  
 $l = 081$ :  
 $S_1 = afdba9b30eebadb2e859ae6e0eadb651$ ,  $S_2 = 21f18b3cb349aaae05298094947243c9$ ,  
 $T_0 = d1cd34efc2355860ed832f02a31ffa1a$ ,  $T_1 = 8ed82f43f5067a83ba214f330c5eb356$ ,  
 $T_2 = b57dcc7dc597b62de8b45a97201c2ede$ ,  $T_3 = dc0f0a0daa45ba52f3b343c1be43d9f6$ ,  
 $T_4 = c2888bab5bd66234d206e62d8fc6126f$ ,  $T_5 = 7b04a26a4cb8bf03faa9ca21467fdf2a$ ,  
 $T_6 = 4e93e8ab7e67adebb8d95c6398f4b678$ ,  $T_7 = 646dc0ea7aaa4b840f713a4b7997a4e4$ ,  
 $T_8 = 20c0047c768dfc64d14ae6738e851ca9$ ,  $T_9 = fcc07931b26114161eb6319c81416b76$ ;  
 $l = 082$ :  
 $S_1 = 33522920e54dcba5b01e60c7c1468bbb$ ,  $S_2 = 09c63b4a01316416aa94c8d9d1086abb$ ,  
 $T_0 = 3d18646ae67f2fbc5ab329a1924ef676$ ,  $T_1 = d1cd34efc2355860ed832f02a31ffa1a$ ,  
 $T_2 = 8ed82f43f5067a83ba214f330c5eb356$ ,  $T_3 = b57dcc7dc597b62de8b45a97201c2ede$ ,  
 $T_4 = dc0f0a0daa45ba52f3b343c1be43d9f6$ ,  $T_5 = f5dab4cc41242dda822546f5510c9e2a$ ,  
 $T_6 = 7b04a26a4cb8bf03faa9ca21467fdf2a$ ,  $T_7 = 4e93e8ab7e67adebb8d95c6398f4b678$ ,

$T_8 = 646dc0ea7aaa4b840f713a4b7997a4e4$ ,  $T_9 = 20c0047c768dfc64d14ae6738e851ca9$ ;  
 $l = 083$ :  
 $S_1 = d784a9322de6bfe4877d225ac1895fba$ ,  $S_2 = f4145fde0c03af2a8c4f4c833df829b2$ ,  
 $T_0 = cb99091039ea6f0f13cc6eddf81896c$ ,  $T_1 = 3d18646ae67f2fbc5ab329a1924ef676$ ,  
 $T_2 = d1cd34efc2355860ed832f02a31ffa1a$ ,  $T_3 = 8ed82f43f5067a83ba214f330c5eb356$ ,  
 $T_4 = b57dcc7dc597b62de8b45a97201c2ede$ ,  $T_5 = b393b33fd82c7a377b30661c7fcd39b0$ ,  
 $T_6 = f5dab4cc41242dda822546f5510c9e2a$ ,  $T_7 = 7b04a26a4cb8bf03faa9ca21467fdf2a$ ,  
 $T_8 = 4e93e8ab7e67adebb8d95c6398f4b678$ ,  $T_9 = 646dc0ea7aaa4b840f713a4b7997a4e4$ ;  
 $l = 084$ :  
 $S_1 = 4969ee7b13b23ebc5237494c47e9aff7$ ,  $S_2 = 559b43a21097874b718ef450cc48370f$ ,  
 $T_0 = 9f05321d2449c607c3c63d9d1431e706$ ,  $T_1 = cb99091039ea6f0f13cc6eddf81896c$ ,  
 $T_2 = 3d18646ae67f2fbc5ab329a1924ef676$ ,  $T_3 = d1cd34efc2355860ed832f02a31ffa1a$ ,  
 $T_4 = 8ed82f43f5067a83ba214f330c5eb356$ ,  $T_5 = fee7baf8d949f4ea3aeba3e36805ded5$ ,  
 $T_6 = b393b33fd82c7a377b30661c7fcd39b0$ ,  $T_7 = f5dab4cc41242dda822546f5510c9e2a$ ,  
 $T_8 = 7b04a26a4cb8bf03faa9ca21467fdf2a$ ,  $T_9 = 4e93e8ab7e67adebb8d95c6398f4b678$ ;  
 $l = 085$ :  
 $S_1 = 932b9f60a8e381cc9bd38de4cb859dfe$ ,  $S_2 = 31b14b7363390a75572990ab8f999cbf$ ,  
 $T_0 = c4dcead40c1c8c41f2fd1e905b1f3abd$ ,  $T_1 = 9f05321d2449c607c3c63d9d1431e706$ ,  
 $T_2 = cb99091039ea6f0f13cc6eddf81896c$ ,  $T_3 = 3d18646ae67f2fbc5ab329a1924ef676$ ,  
 $T_4 = d1cd34efc2355860ed832f02a31ffa1a$ ,  $T_5 = 2203cea49de9fc5055f4dd17d7e45154$ ,  
 $T_6 = fee7baf8d949f4ea3aeba3e36805ded5$ ,  $T_7 = b393b33fd82c7a377b30661c7fcd39b0$ ,  
 $T_8 = f5dab4cc41242dda822546f5510c9e2a$ ,  $T_9 = 7b04a26a4cb8bf03faa9ca21467fdf2a$ ;  
 $l = 086$ :  
 $S_1 = 88f3fb64b5693a37fe8c81c6cc5a7c44$ ,  $S_2 = 2904665a242c295d0022cbc40c9790f0$ ,  
 $T_0 = b1f861bed9956394feaf4d8ad8f20d34$ ,  $T_1 = c4dcead40c1c8c41f2fd1e905b1f3abd$ ,  
 $T_2 = 9f05321d2449c607c3c63d9d1431e706$ ,  $T_3 = cb99091039ea6f0f13cc6eddf81896c$ ,  
 $T_4 = 3d18646ae67f2fbc5ab329a1924ef676$ ,  $T_5 = 5ac13054779e9298ec0fb0c96f7a765e$ ,  
 $T_6 = 2203cea49de9fc5055f4dd17d7e45154$ ,  $T_7 = fee7baf8d949f4ea3aeba3e36805ded5$ ,  
 $T_8 = b393b33fd82c7a377b30661c7fcd39b0$ ,  $T_9 = f5dab4cc41242dda822546f5510c9e2a$ ;  
 $l = 087$ :  
 $S_1 = c696a61e85ab30c26d030649bc329bb9$ ,  $S_2 = 06d64bc179f0dd2bd0412538bfd83282$ ,  
 $T_0 = cd6cf1dfff9c0dee3d442b827c0ace3b$ ,  $T_1 = b1f861bed9956394feaf4d8ad8f20d34$ ,  
 $T_2 = c4dcead40c1c8c41f2fd1e905b1f3abd$ ,  $T_3 = 9f05321d2449c607c3c63d9d1431e706$ ,  
 $T_4 = cb99091039ea6f0f13cc6eddf81896c$ ,  $T_5 = 03af0a896c2a607ec7b62feb4e81922f$ ,  
 $T_6 = 5ac13054779e9298ec0fb0c96f7a765e$ ,  $T_7 = 2203cea49de9fc5055f4dd17d7e45154$ ,  
 $T_8 = fee7baf8d949f4ea3aeba3e36805ded5$ ,  $T_9 = b393b33fd82c7a377b30661c7fcd39b0$ ;  
 $l = 088$ :  
 $S_1 = 7a076906a755d03bba11de1104a8e6d0$ ,  $S_2 = d5b34831974db31175ce8ad1977789f0$ ,  
 $T_0 = 4fbab1383ea3834d2fe068e29c2070c0$ ,  $T_1 = cd6cf1dfff9c0dee3d442b827c0ace3b$ ,  
 $T_2 = b1f861bed9956394feaf4d8ad8f20d34$ ,  $T_3 = c4dcead40c1c8c41f2fd1e905b1f3abd$ ,  
 $T_4 = 9f05321d2449c607c3c63d9d1431e706$ ,  $T_5 = 45a07216e1403f4acdde4cef042a703c$ ,  
 $T_6 = 03af0a896c2a607ec7b62feb4e81922f$ ,  $T_7 = 5ac13054779e9298ec0fb0c96f7a765e$ ,  
 $T_8 = 2203cea49de9fc5055f4dd17d7e45154$ ,  $T_9 = fee7baf8d949f4ea3aeba3e36805ded5$ ;  
 $l = 089$ :  
 $S_1 = 052f4e687544694cbc51c523edb97864$ ,  $S_2 = 00928194ae050e008bddeb61bb35d3ea$ ,  
 $T_0 = 05c1cfff2349774d482fb085a8ef4c4e$ ,  $T_1 = 4fbab1383ea3834d2fe068e29c2070c0$ ,  
 $T_2 = cd6cf1dfff9c0dee3d442b827c0ace3b$ ,  $T_3 = b1f861bed9956394feaf4d8ad8f20d34$ ,  
 $T_4 = c4dcead40c1c8c41f2fd1e905b1f3abd$ ,  $T_5 = a4348085998e2f54801802c101eb5f6a$ ,  
 $T_6 = 45a07216e1403f4acdde4cef042a703c$ ,  $T_7 = 03af0a896c2a607ec7b62feb4e81922f$ ,  
 $T_8 = 5ac13054779e9298ec0fb0c96f7a765e$ ,  $T_9 = 2203cea49de9fc5055f4dd17d7e45154$ ;  
 $l = 090$ :  
 $S_1 = aa9ec7c590dfbda0cf6b8c64df44e05f$ ,  $S_2 = 54b1d2e63884795174c0a8de2bf112cf$ ,



$T_0 = ff509aabc96436f2442c35430b35f32e$ ,  $T_1 = 05c1cffd2349774d482fb085a8ef4c4e$ ,  
 $T_2 = 4fbab1383ea3834d2fe068e29c2070c0$ ,  $T_3 = cd6cf1dfff9c0dee3d442b827c0ace3b$ ,  
 $T_4 = b1f861bed9956394feaf4d8ad8f20d34$ ,  $T_5 = 6f7bb2999cfc49e2c268aaf53a641b1c$ ,  
 $T_6 = a4348085998e2f54801802c101eb5f6a$ ,  $T_7 = 45a07216e1403f4acdde4cef042a703c$ ,  
 $T_8 = 03af0a896c2a607ec7b62feb4e81922f$ ,  $T_9 = 5ac13054779e9298ec0fb0c96f7a765e$ ;  
 $l = 091$ :  
 $S_1 = 222dba91b6200bee45d78e418a4c0e34$ ,  $S_2 = 5d1383dc1ae71adec38a738e7fc2bd22$ ,  
 $T_0 = 7f413e6dd10726cd096201d00a0ecb56$ ,  $T_1 = ff509aabc96436f2442c35430b35f32e$ ,  
 $T_2 = 05c1cffd2349774d482fb085a8ef4c4e$ ,  $T_3 = 4fbab1383ea3834d2fe068e29c2070c0$ ,  
 $T_4 = cd6cf1dfff9c0dee3d442b827c0ace3b$ ,  $T_5 = d4261c508fb56f834486dbcc633e1b68$ ,  
 $T_6 = 6f7bb2999cfc49e2c268aaf53a641b1c$ ,  $T_7 = a4348085998e2f54801802c101eb5f6a$ ,  
 $T_8 = 45a07216e1403f4acdde4cef042a703c$ ,  $T_9 = 03af0a896c2a607ec7b62feb4e81922f$ ;  
 $l = 092$ :  
 $S_1 = ea90ecb0bac62db8109baf0d0e7e24c9$ ,  $S_2 = a9c14a24313c20f2046054a9e873348e$ ,  
 $T_0 = 945236d4ec024eaa14fc03b6f6f15957$ ,  $T_1 = 7f413e6dd10726cd096201d00a0ecb56$ ,  
 $T_2 = ff509aabc96436f2442c35430b35f32e$ ,  $T_3 = 05c1cffd2349774d482fb085a8ef4c4e$ ,  
 $T_4 = 4fbab1383ea3834d2fe068e29c2070c0$ ,  $T_5 = b7fdde90ba623ba64ddfda8f8a88f304$ ,  
 $T_6 = d4261c508fb56f834486dbcc633e1b68$ ,  $T_7 = 6f7bb2999cfc49e2c268aaf53a641b1c$ ,  
 $T_8 = a4348085998e2f54801802c101eb5f6a$ ,  $T_9 = 45a07216e1403f4acdde4cef042a703c$ ;  
 $l = 093$ :  
 $S_1 = a3c6ace2afda994ce8379e6d327e44c9$ ,  $S_2 = 779b1fe8a79784b2474ea687fd525bbc$ ,  
 $T_0 = 1b61cccb57721dff2f8644f52fd0a085$ ,  $T_1 = 945236d4ec024eaa14fc03b6f6f15957$ ,  
 $T_2 = 7f413e6dd10726cd096201d00a0ecb56$ ,  $T_3 = ff509aabc96436f2442c35430b35f32e$ ,  
 $T_4 = 05c1cffd2349774d482fb085a8ef4c4e$ ,  $T_5 = f3815e1aee7e1c9a1818074fce9eb589$ ,  
 $T_6 = b7fdde90ba623ba64ddfda8f8a88f304$ ,  $T_7 = d4261c508fb56f834486dbcc633e1b68$ ,  
 $T_8 = 6f7bb2999cfc49e2c268aaf53a641b1c$ ,  $T_9 = a4348085998e2f54801802c101eb5f6a$ ;  
 $l = 094$ :  
 $S_1 = c33c83acda559ed7dd94ffa6982dc842$ ,  $S_2 = 90a6b2391c63e3161107b0e380ea7d64$ ,  
 $T_0 = 53e335e5f6b981edee9cb08a191845a6$ ,  $T_1 = 1b61cccb57721dff2f8644f52fd0a085$ ,  
 $T_2 = 945236d4ec024eaa14fc03b6f6f15957$ ,  $T_3 = 7f413e6dd10726cd096201d00a0ecb56$ ,  
 $T_4 = ff509aabc96436f2442c35430b35f32e$ ,  $T_5 = c8fe53a9fd9f162525c4b02c411d1490$ ,  
 $T_6 = f3815e1aee7e1c9a1818074fce9eb589$ ,  $T_7 = b7fdde90ba623ba64ddfda8f8a88f304$ ,  
 $T_8 = d4261c508fb56f834486dbcc633e1b68$ ,  $T_9 = 6f7bb2999cfc49e2c268aaf53a641b1c$ ;  
 $l = 095$ :  
 $S_1 = 07fe8eab843c070f6381bede261b0b08$ ,  $S_2 = f2ec30df5129bed322c43e48bf18a8f8$ ,  
 $T_0 = faeabf8ad565c5e28645fd26e533b400$ ,  $T_1 = 53e335e5f6b981edee9cb08a191845a6$ ,  
 $T_2 = 1b61cccb57721dff2f8644f52fd0a085$ ,  $T_3 = 945236d4ec024eaa14fc03b6f6f15957$ ,  
 $T_4 = 7f413e6dd10726cd096201d00a0ecb56$ ,  $T_5 = 074f29574da03e01a7adf4213150fe36$ ,  
 $T_6 = c8fe53a9fd9f162525c4b02c411d1490$ ,  $T_7 = f3815e1aee7e1c9a1818074fce9eb589$ ,  
 $T_8 = b7fdde90ba623ba64ddfda8f8a88f304$ ,  $T_9 = d4261c508fb56f834486dbcc633e1b68$ ;  
 $l = 096$ :  
 $S_1 = d9038fe8700efef4bd4bd0a635a2cdfb$ ,  $S_2 = 75888df7110981f16ad41b13f86f0aad$ ,  
 $T_0 = 4e8c1ddf811880e6281febba2e11d8a8$ ,  $T_1 = faeabf8ad565c5e28645fd26e533b400$ ,  
 $T_2 = 53e335e5f6b981edee9cb08a191845a6$ ,  $T_3 = 1b61cccb57721dff2f8644f52fd0a085$ ,  
 $T_4 = 945236d4ec024eaa14fc03b6f6f15957$ ,  $T_5 = 5844ce56411625c1c6add2763fb19951$ ,  
 $T_6 = 074f29574da03e01a7adf4213150fe36$ ,  $T_7 = c8fe53a9fd9f162525c4b02c411d1490$ ,  
 $T_8 = f3815e1aee7e1c9a1818074fce9eb589$ ,  $T_9 = b7fdde90ba623ba64ddfda8f8a88f304$ ;  
 $l = 097$ :  
 $S_1 = efd2b9d229f49947ba5c7ae7d68112ed$ ,  $S_2 = c20d750b6ec4d20f8d63602795e63126$ ,  
 $T_0 = b1e02edd98b96b5747bdfdb0f6c674413$ ,  $T_1 = 4e8c1ddf811880e6281febba2e11d8a8$ ,  
 $T_2 = faeabf8ad565c5e28645fd26e533b400$ ,  $T_3 = 53e335e5f6b981edee9cb08a191845a6$ ,  
 $T_4 = 1b61cccb57721dff2f8644f52fd0a085$ ,  $T_5 = 8424f0a715f6e7f1cf587e9ecd726c44$ ,

$T_6 = 5844ce56411625c1c6add2763fb19951$ ,  $T_7 = 074f29574da03e01a7adf4213150fe36$ ,  
 $T_8 = c8fe53a9fd9f162525c4b02c411d1490$ ,  $T_9 = f3815e1aee7e1c9a1818074fce9eb589$ ;  
 $l = 098$ :  
 $S_1 = 5138b8181ec7a5b22ac2f75e5027b483$ ,  $S_2 = 02a89af8242c34220e2a73688d07c20c$ ,  
 $T_0 = 53e1531042f3d9d438ed6ac6dd2f768f$ ,  $T_1 = b1e02edd98b96b5747bdfb0f6c674413$ ,  
 $T_2 = 4e8c1ddf811880e6281febba2e11d8a8$ ,  $T_3 = faeabf8ad565c5e28645fd26e533b400$ ,  
 $T_4 = 53e335e5f6b981edee9cb08a191845a6$ ,  $T_5 = 6c9a84e37639c3b15a493c537ff85508$ ,  
 $T_6 = 8424f0a715f6e7f1cf587e9ecd726c44$ ,  $T_7 = 5844ce56411625c1c6add2763fb19951$ ,  
 $T_8 = 074f29574da03e01a7adf4213150fe36$ ,  $T_9 = c8fe53a9fd9f162525c4b02c411d1490$ ;  
 $l = 099$ :  
 $S_1 = 1b4a947ec6bcb7a67c46d860b0465364$ ,  $S_2 = b1fae85fb780febfla4539496a294fdd$ ,  
 $T_0 = cd457cde7e3db665968c11aa1a6fa341$ ,  $T_1 = 53e1531042f3d9d438ed6ac6dd2f768f$ ,  
 $T_2 = b1e02edd98b96b5747bdfb0f6c674413$ ,  $T_3 = 4e8c1ddf811880e6281febba2e11d8a8$ ,  
 $T_4 = faeabf8ad565c5e28645fd26e533b400$ ,  $T_5 = 6f2dca64bd7639946ae388eac95e990a$ ,  
 $T_6 = 6c9a84e37639c3b15a493c537ff85508$ ,  $T_7 = 8424f0a715f6e7f1cf587e9ecd726c44$ ,  
 $T_8 = 5844ce56411625c1c6add2763fb19951$ ,  $T_9 = 074f29574da03e01a7adf4213150fe36$ ;  
 $l = 100$ :  
 $S_1 = e71a06c3f505fc87c81042315ff7bd19$ ,  $S_2 = 0dd9a95f01d944547b19ce177c5010f4$ ,  
 $T_0 = f4f3b022f6df40dc432a1048dc47ce0d$ ,  $T_1 = cd457cde7e3db665968c11aa1a6fa341$ ,  
 $T_2 = 53e1531042f3d9d438ed6ac6dd2f768f$ ,  $T_3 = b1e02edd98b96b5747bdfb0f6c674413$ ,  
 $T_4 = 4e8c1ddf811880e6281febba2e11d8a8$ ,  $T_5 = e204c64eca6bc26a4e563f58452b7119$ ,  
 $T_6 = 6f2dca64bd7639946ae388eac95e990a$ ,  $T_7 = 6c9a84e37639c3b15a493c537ff85508$ ,  
 $T_8 = 8424f0a715f6e7f1cf587e9ecd726c44$ ,  $T_9 = 5844ce56411625c1c6add2763fb19951$ ;  
 $l = 101$ :  
 $S_1 = 1c4c561bd4aa5798729a0c2ea01898fa$ ,  $S_2 = c65265c4e89258b812e276a5cf256a71$ ,  
 $T_0 = e29ebbe0bd3cb050857c82d46f3e036b$ ,  $T_1 = f4f3b022f6df40dc432a1048dc47ce0d$ ,  
 $T_2 = cd457cde7e3db665968c11aa1a6fa341$ ,  $T_3 = 53e1531042f3d9d438ed6ac6dd2f768f$ ,  
 $T_4 = b1e02edd98b96b5747bdfb0f6c674413$ ,  $T_5 = 6ad873fb55c2d87e9ab9f7e8ce2a71a2$ ,  
 $T_6 = e204c64eca6bc26a4e563f58452b7119$ ,  $T_7 = 6f2dca64bd7639946ae388eac95e990a$ ,  
 $T_8 = 6c9a84e37639c3b15a493c537ff85508$ ,  $T_9 = 8424f0a715f6e7f1cf587e9ecd726c44$ ;  
 $l = 102$ :  
 $S_1 = 8b9ac84b176774658e668617d345c873$ ,  $S_2 = 2a02626f69ba09377fe11933b0c7ab2b$ ,  
 $T_0 = b59d2aba81217d9d0e479f4b840d739e$ ,  $T_1 = e29ebbe0bd3cb050857c82d46f3e036b$ ,  
 $T_2 = f4f3b022f6df40dc432a1048dc47ce0d$ ,  $T_3 = cd457cde7e3db665968c11aa1a6fa341$ ,  
 $T_4 = 53e1531042f3d9d438ed6ac6dd2f768f$ ,  $T_5 = 3d7af728b020dfbcd62661273fad0c86$ ,  
 $T_6 = 6ad873fb55c2d87e9ab9f7e8ce2a71a2$ ,  $T_7 = e204c64eca6bc26a4e563f58452b7119$ ,  
 $T_8 = 6f2dca64bd7639946ae388eac95e990a$ ,  $T_9 = 6c9a84e37639c3b15a493c537ff85508$ ;  
 $l = 103$ :  
 $S_1 = e7e2790e0daaf14960df22feca90ff3c$ ,  $S_2 = 4ade236c7fac70b9068e34555ace249a$ ,  
 $T_0 = 32c09c7a8d576202676d5754255f23d6$ ,  $T_1 = b59d2aba81217d9d0e479f4b840d739e$ ,  
 $T_2 = e29ebbe0bd3cb050857c82d46f3e036b$ ,  $T_3 = f4f3b022f6df40dc432a1048dc47ce0d$ ,  
 $T_4 = cd457cde7e3db665968c11aa1a6fa341$ ,  $T_5 = 3bc3cc1e509ecb1d99cc8dc5a7c075cb$ ,  
 $T_6 = 3d7af728b020dfbcd62661273fad0c86$ ,  $T_7 = 6ad873fb55c2d87e9ab9f7e8ce2a71a2$ ,  
 $T_8 = e204c64eca6bc26a4e563f58452b7119$ ,  $T_9 = 6f2dca64bd7639946ae388eac95e990a$ ;  
 $l = 104$ :  
 $S_1 = 7aa2eac471286ec6f891bc331d7d776b$ ,  $S_2 = 451af9abfbb0c67a75423d2724a935$ ,  
 $T_0 = bfbde4706ce71f8d7306fe7044a220a0$ ,  $T_1 = 32c09c7a8d576202676d5754255f23d6$ ,  
 $T_2 = b59d2aba81217d9d0e479f4b840d739e$ ,  $T_3 = e29ebbe0bd3cb050857c82d46f3e036b$ ,  
 $T_4 = f4f3b022f6df40dc432a1048dc47ce0d$ ,  $T_5 = 47e867a2ef66252c8f1dcd37ed1aac$ ,  
 $T_6 = 3bc3cc1e509ecb1d99cc8dc5a7c075cb$ ,  $T_7 = 3d7af728b020dfbcd62661273fad0c86$ ,  
 $T_8 = 6ad873fb55c2d87e9ab9f7e8ce2a71a2$ ,  $T_9 = e204c64eca6bc26a4e563f58452b7119$ ;  
 $l = 105$ :

$S_1 = 2fb1f157e12a5b036c7e4469a31de634$ ,  $S_2 = 65d8975e0c44fa5346cc1ae94a1ca3ee$ ,  
 $T_0 = 958a88b5ed6f5556b34a5f52ed3a8a22$ ,  $T_1 = bfbde4706ce71f8d7306fe7044a220a0$ ,  
 $T_2 = 32c09c7a8d576202676d5754255f23d6$ ,  $T_3 = b59d2aba81217d9d0e479f4b840d739e$ ,  
 $T_4 = e29ebbe0bd3cb050857c82d46f3e036b$ ,  $T_5 = 24a5a17ad8099bdfafa854b27f65b441$ ,  
 $T_6 = 47e867a2ef66252c8f1dcddd37ed1aac$ ,  $T_7 = 3bc3cc1e509ecb1d99cc8dc5a7c075cb$ ,  
 $T_8 = 3d7af728b020dfbcd62661273fad0c86$ ,  $T_9 = 6ad873fb55c2d87e9ab9f7e8ce2a71a2$ ;  
 $l = 106$ :  
 $S_1 = a83a28e5aae84ddd7e29df0cd9562f9b$ ,  $S_2 = 6cab56725f010d72183147e704be2345$ ,  
 $T_0 = 14e57f5809e95b4f965b26f3de1452e0$ ,  $T_1 = 958a88b5ed6f5556b34a5f52ed3a8a22$ ,  
 $T_2 = bfbde4706ce71f8d7306fe7044a220a0$ ,  $T_3 = 32c09c7a8d576202676d5754255f23d6$ ,  
 $T_4 = b59d2aba81217d9d0e479f4b840d739e$ ,  $T_5 = 8ad8e4c66824fe2e03a661e148943306$ ,  
 $T_6 = 24a5a17ad8099bdfafa854b27f65b441$ ,  $T_7 = 47e867a2ef66252c8f1dcddd37ed1aac$ ,  
 $T_8 = 3bc3cc1e509ecb1d99cc8dc5a7c075cb$ ,  $T_9 = 3d7af728b020dfbcd62661273fad0c86$ ;  
 $l = 107$ :  
 $S_1 = 64981946781d6992c916e5092b9cd830$ ,  $S_2 = 117eba59b09f91676d7df5de1bc6b05e$ ,  
 $T_0 = 7616d3a028bcfafa3694dae74763888e$ ,  $T_1 = 14e57f5809e95b4f965b26f3de1452e0$ ,  
 $T_2 = 958a88b5ed6f5556b34a5f52ed3a8a22$ ,  $T_3 = bfbde4706ce71f8d7306fe7044a220a0$ ,  
 $T_4 = 32c09c7a8d576202676d5754255f23d6$ ,  $T_5 = 1a354400f93ee72fd75e8454afaa4bce$ ,  
 $T_6 = 8ad8e4c66824fe2e03a661e148943306$ ,  $T_7 = 24a5a17ad8099bdfafa854b27f65b441$ ,  
 $T_8 = 47e867a2ef66252c8f1dcddd37ed1aac$ ,  $T_9 = 3bc3cc1e509ecb1d99cc8dc5a7c075cb$ ;  
 $l = 108$ :  
 $S_1 = 52c9f7efe9b633127aa6b69193445668$ ,  $S_2 = 44382ffb28412b5b007f413ca03366c9$ ,  
 $T_0 = 970227eb11f75e6d7b25f7ce3377bd31$ ,  $T_1 = 7616d3a028bcfafa3694dae74763888e$ ,  
 $T_2 = 14e57f5809e95b4f965b26f3de1452e0$ ,  $T_3 = 958a88b5ed6f5556b34a5f52ed3a8a22$ ,  
 $T_4 = bfbde4706ce71f8d7306fe7044a220a0$ ,  $T_5 = 858a946a770d9514e2140de5b8a37a3e$ ,  
 $T_6 = 1a354400f93ee72fd75e8454afaa4bce$ ,  $T_7 = 8ad8e4c66824fe2e03a661e148943306$ ,  
 $T_8 = 24a5a17ad8099bdfafa854b27f65b441$ ,  $T_9 = 47e867a2ef66252c8f1dcddd37ed1aac$ ;  
 $l = 109$ :  
 $S_1 = 6e7a7f9f63954bc108db9a6972c0c1b0$ ,  $S_2 = c75c4571342b3e850b036429cc3dd5c1$ ,  
 $T_0 = 35d6c51097c08a4613defe933efe9771$ ,  $T_1 = 970227eb11f75e6d7b25f7ce3377bd31$ ,  
 $T_2 = 7616d3a028bcfafa3694dae74763888e$ ,  $T_3 = 14e57f5809e95b4f965b26f3de1452e0$ ,  
 $T_4 = 958a88b5ed6f5556b34a5f52ed3a8a22$ ,  $T_5 = 2e38640fd07c6b4e7be298d9b762e250$ ,  
 $T_6 = 858a946a770d9514e2140de5b8a37a3e$ ,  $T_7 = 1a354400f93ee72fd75e8454afaa4bce$ ,  
 $T_8 = 8ad8e4c66824fe2e03a661e148943306$ ,  $T_9 = 24a5a17ad8099bdfafa854b27f65b441$ ;  
 $l = 110$ :  
 $S_1 = 5c7b882a3a817ceee5e3817c7db17bab$ ,  $S_2 = 4e07865d26c1007c7d5fa5bf75cac8ed$ ,  
 $T_0 = aa830e8761427d6b6343273bf37c4498$ ,  $T_1 = 35d6c51097c08a4613defe933efe9771$ ,  
 $T_2 = 970227eb11f75e6d7b25f7ce3377bd31$ ,  $T_3 = 7616d3a028bcfafa3694dae74763888e$ ,  
 $T_4 = 14e57f5809e95b4f965b26f3de1452e0$ ,  $T_5 = f20610e027f0d245992de0cf6aec05cd$ ,  
 $T_6 = 2e38640fd07c6b4e7be298d9b762e250$ ,  $T_7 = 858a946a770d9514e2140de5b8a37a3e$ ,  
 $T_8 = 1a354400f93ee72fd75e8454afaa4bce$ ,  $T_9 = 8ad8e4c66824fe2e03a661e148943306$ ;  
 $l = 111$ :  
 $S_1 = eb17f2c950303324436ad886bbad572a$ ,  $S_2 = cfbec166106697fdb7f39cdedadc7986$ ,  
 $T_0 = bad6b42f6096cb21fb5e75659689d0b0$ ,  $T_1 = aa830e8761427d6b6343273bf37c4498$ ,  
 $T_2 = 35d6c51097c08a4613defe933efe9771$ ,  $T_3 = 970227eb11f75e6d7b25f7ce3377bd31$ ,  
 $T_4 = 7616d3a028bcfafa3694dae74763888e$ ,  $T_5 = fffd72215a198e73d9c5ff7a99c1aa0a$ ,  
 $T_6 = f20610e027f0d245992de0cf6aec05cd$ ,  $T_7 = 2e38640fd07c6b4e7be298d9b762e250$ ,  
 $T_8 = 858a946a770d9514e2140de5b8a37a3e$ ,  $T_9 = 1a354400f93ee72fd75e8454afaa4bce$ ;  
 $l = 112$ :  
 $S_1 = 91cc84951da9c115f16d7c3af41b980d$ ,  $S_2 = e4133e38273a1dbfcb1d9d3cb5bac610$ ,  
 $T_0 = 75dfc2cd44e3ded5bc8b1977a9d65e1d$ ,  $T_1 = bad6b42f6096cb21fb5e75659689d0b0$ ,  
 $T_2 = aa830e8761427d6b6343273bf37c4498$ ,  $T_3 = 35d6c51097c08a4613defe933efe9771$ ,

$T_4 = 970227eb11f75e6d7b25f7ce3377bd31$ ,  $T_5 = 07e358354666bc10280257223b7f209b$ ,  
 $T_6 = fffd72215a198e73d9c5ff7a99c1aa0a$ ,  $T_7 = f20610e027f0d245992de0cf6aec05cd$ ,  
 $T_8 = 2e38640fd07c6b4e7be298d9b762e250$ ,  $T_9 = 858a946a770d9514e2140de5b8a37a3e$ ;  
 $l = 113$ :  
 $S_1 = e7f82912f5199f99405e14be7e862308$ ,  $S_2 = 2bb1a885745643a0476a981a992dc3d8$ ,  
 $T_0 = 13a9d198696fe33987c8acd917b3e6e0$ ,  $T_1 = 75dfc2cd44e3ded5bc8b1977a9d65e1d$ ,  
 $T_2 = bad6b42f6096cb21fb5e75659689d0b0$ ,  $T_3 = aa830e8761427d6b6343273bf37c4498$ ,  
 $T_4 = 35d6c51097c08a4613defe933efe9771$ ,  $T_5 = 7efa50fe0710fe06bb840c8cb1fde039$ ,  
 $T_6 = 07e358354666bc10280257223b7f209b$ ,  $T_7 = fffd72215a198e73d9c5ff7a99c1aa0a$ ,  
 $T_8 = f20610e027f0d245992de0cf6aec05cd$ ,  $T_9 = 2e38640fd07c6b4e7be298d9b762e250$ ;  
 $l = 114$ :  
 $S_1 = de679fa573ca021a8a230b56fe5775ee$ ,  $S_2 = 477ba86bebddebec2246317a5fe7a4d10$ ,  
 $T_0 = 25e348115fa8c0dcae8622fcfcd1c2fe$ ,  $T_1 = 13a9d198696fe33987c8acd917b3e6e0$ ,  
 $T_2 = 75dfc2cd44e3ded5bc8b1977a9d65e1d$ ,  $T_3 = bad6b42f6096cb21fb5e75659689d0b0$ ,  
 $T_4 = aa830e8761427d6b6343273bf37c4498$ ,  $T_5 = 143e64b60b8a8c609e0209ea3d560d5f$ ,  
 $T_6 = 7efa50fe0710fe06bb840c8cb1fde039$ ,  $T_7 = 07e358354666bc10280257223b7f209b$ ,  
 $T_8 = fffd72215a198e73d9c5ff7a99c1aa0a$ ,  $T_9 = f20610e027f0d245992de0cf6aec05cd$ ;  
 $l = 115$ :  
 $S_1 = 4d6a52a8ff72bb0bdd987def4e7b7f65$ ,  $S_2 = be06d98b7af867453604f44ae5d15014$ ,  
 $T_0 = 0b712c347a6b2251139d723a344ccf79$ ,  $T_1 = 25e348115fa8c0dcae8622fcfcd1c2fe$ ,  
 $T_2 = 13a9d198696fe33987c8acd917b3e6e0$ ,  $T_3 = 75dfc2cd44e3ded5bc8b1977a9d65e1d$ ,  
 $T_4 = bad6b42f6096cb21fb5e75659689d0b0$ ,  $T_5 = f7ed613060b5387740dba52b41f7c3fd$ ,  
 $T_6 = 143e64b60b8a8c609e0209ea3d560d5f$ ,  $T_7 = 7efa50fe0710fe06bb840c8cb1fde039$ ,  
 $T_8 = 07e358354666bc10280257223b7f209b$ ,  $T_9 = fffd72215a198e73d9c5ff7a99c1aa0a$ ;  
 $l = 116$ :  
 $S_1 = 239848d713a93b211df44e0b11d9479a$ ,  $S_2 = 809de0368688203d91eb43cfc44e2ac6$ ,  
 $T_0 = a436290d9a315b5eafdf91dad6277260$ ,  $T_1 = 0b712c347a6b2251139d723a344ccf79$ ,  
 $T_2 = 25e348115fa8c0dcae8622fcfcd1c2fe$ ,  $T_3 = 13a9d198696fe33987c8acd917b3e6e0$ ,  
 $T_4 = 75dfc2cd44e3ded5bc8b1977a9d65e1d$ ,  $T_5 = de6efd06744006431952c370a863184a$ ,  
 $T_6 = f7ed613060b5387740dba52b41f7c3fd$ ,  $T_7 = 143e64b60b8a8c609e0209ea3d560d5f$ ,  
 $T_8 = 7efa50fe0710fe06bb840c8cb1fde039$ ,  $T_9 = 07e358354666bc10280257223b7f209b$ ;  
 $l = 117$ :  
 $S_1 = 1eb31add9be0f97f4aebbe1474273bf7$ ,  $S_2 = 854a29ccfbbdd2a2bda1b4216b694030$ ,  
 $T_0 = a3fd44aa979ecc22088d7235df907c27$ ,  $T_1 = a436290d9a315b5eafdf91dad6277260$ ,  
 $T_2 = 0b712c347a6b2251139d723a344ccf79$ ,  $T_3 = 25e348115fa8c0dcae8622fcfcd1c2fe$ ,  
 $T_4 = 13a9d198696fe33987c8acd917b3e6e0$ ,  $T_5 = 9492ddaae0c4d8550776d78c1dfd9a14$ ,  
 $T_6 = de6efd06744006431952c370a863184a$ ,  $T_7 = f7ed613060b5387740dba52b41f7c3fd$ ,  
 $T_8 = 143e64b60b8a8c609e0209ea3d560d5f$ ,  $T_9 = 7efa50fe0710fe06bb840c8cb1fde039$ ;  
 $l = 118$ :  
 $S_1 = 652188ba07936e2bfb02b1d0832416fb$ ,  $S_2 = a6c66cf796e56b9f58527f95f0585802$ ,  
 $T_0 = 0be7f5b19e78d9cb53553166737c6efd$ ,  $T_1 = a3fd44aa979ecc22088d7235df907c27$ ,  
 $T_2 = a436290d9a315b5eafdf91dad6277260$ ,  $T_3 = 0b712c347a6b2251139d723a344ccf79$ ,  
 $T_4 = 25e348115fa8c0dcae8622fcfcd1c2fe$ ,  $T_5 = 78cb5a527103516582cb5ea99ad7fddb$ ,  
 $T_6 = 9492ddaae0c4d8550776d78c1dfd9a14$ ,  $T_7 = de6efd06744006431952c370a863184a$ ,  
 $T_8 = f7ed613060b5387740dba52b41f7c3fd$ ,  $T_9 = 143e64b60b8a8c609e0209ea3d560d5f$ ;  
 $l = 119$ :  
 $S_1 = cc7009d1cc9c808dca13c407d5840cb7$ ,  $S_2 = 0e36efaab35632970cbe1adcab0a75d6$ ,  
 $T_0 = daa6f97c7ff2b324d6d1dee4808e828d$ ,  $T_1 = 0be7f5b19e78d9cb53553166737c6efd$ ,  
 $T_2 = a3fd44aa979ecc22088d7235df907c27$ ,  $T_3 = a436290d9a315b5eafdf91dad6277260$ ,  
 $T_4 = 0b712c347a6b2251139d723a344ccf79$ ,  $T_5 = f25351e32c45416a7899e704d255cfb5$ ,  
 $T_6 = 78cb5a527103516582cb5ea99ad7fddb$ ,  $T_7 = 9492ddaae0c4d8550776d78c1dfd9a14$ ,  
 $T_8 = de6efd06744006431952c370a863184a$ ,  $T_9 = f7ed613060b5387740dba52b41f7c3fd$ ;

$l = 120:$   
 $S_1 = dc95f76d6d6b8a4d7009891f760b4616, S_2 = c9f950837e95fb06f0604432ca3da6c2,$   
 $T_0 = a68f47f0ec0185546069cd524048ecd8, T_1 = daa6f97c7ff2b324d6d1dee4808e828d,$   
 $T_2 = 0be7f5b19e78d9cb53553166737c6efd, T_3 = a3fd44aa979ecc22088d7235df907c27,$   
 $T_4 = a436290d9a315b5eafdf91dad6277260, T_5 = e80723a1e7d6ac9e83a6fb59aa58158f,$   
 $T_6 = f25351e32c45416a7899e704d255cfb5, T_7 = 78cb5a527103516582cb5ea99ad7fddb,$   
 $T_8 = 9492ddaae0c4d8550776d78c1dfd9a14, T_9 = de6efd06744006431952c370a863184a;$   
 $l = 121:$   
 $S_1 = 420e7858a4d5e641d4fc00cb79decb01, S_2 = 88caa8ba39792059949da46d09eb131e,$   
 $T_0 = cad92112de4f069b6999a53883c9de1f, T_1 = a68f47f0ec0185546069cd524048ecd8,$   
 $T_2 = daa6f97c7ff2b324d6d1dee4808e828d, T_3 = 0be7f5b19e78d9cb53553166737c6efd,$   
 $T_4 = a3fd44aa979ecc22088d7235df907c27, T_5 = e644a1663f0741a084db92a650063d61,$   
 $T_6 = e80723a1e7d6ac9e83a6fb59aa58158f, T_7 = f25351e32c45416a7899e704d255cfb5,$   
 $T_8 = 78cb5a527103516582cb5ea99ad7fddb, T_9 = 9492ddaae0c4d8550776d78c1dfd9a14;$   
 $l = 122:$   
 $S_1 = 02335551422ef6b55176dab7a4316053, S_2 = b4b9c2503819392c5bd4c5c41160b33a,$   
 $T_0 = b6ed17a17a482felad4ba07bb592138d, T_1 = cad92112de4f069b6999a53883c9de1f,$   
 $T_2 = a68f47f0ec0185546069cd524048ecd8, T_3 = daa6f97c7ff2b324d6d1dee4808e828d,$   
 $T_4 = 0be7f5b19e78d9cb53553166737c6efd, T_5 = a63099fbd9cdc2d75a044ced83c1dc7a,$   
 $T_6 = e644a1663f0741a084db92a650063d61, T_7 = e80723a1e7d6ac9e83a6fb59aa58158f,$   
 $T_8 = f25351e32c45416a7899e704d255cfb5, T_9 = 78cb5a527103516582cb5ea99ad7fddb;$   
 $l = 123:$   
 $S_1 = e0a4abfdc304bc3beaf022cd9fd99c3f, S_2 = f9f780ebda12c72d905cef18a9f9332f,$   
 $T_0 = da9c2ce99d1783697b4d11e649d2cf6e, T_1 = b6ed17a17a482felad4ba07bb592138d,$   
 $T_2 = cad92112de4f069b6999a53883c9de1f, T_3 = a68f47f0ec0185546069cd524048ecd8,$   
 $T_4 = daa6f97c7ff2b324d6d1dee4808e828d, T_5 = ec8ca1af617d96073e45543413560b3c,$   
 $T_6 = a63099fbd9cdc2d75a044ced83c1dc7a, T_7 = e644a1663f0741a084db92a650063d61,$   
 $T_8 = e80723a1e7d6ac9e83a6fb59aa58158f, T_9 = f25351e32c45416a7899e704d255cfb5;$   
 $l = 124:$   
 $S_1 = 8ecd647e4c039188e0616abb4dbd5b05, S_2 = 457a282a639d41c0f4c348b922dd4cf9,$   
 $T_0 = d4478ca8afa0d349d524b374709aa7fe, T_1 = da9c2ce99d1783697b4d11e649d2cf6e,$   
 $T_2 = b6ed17a17a482felad4ba07bb592138d, T_3 = cad92112de4f069b6999a53883c9de1f,$   
 $T_4 = a68f47f0ec0185546069cd524048ecd8, T_5 = 69745dfacbf644adb733499f9ce4bdd92,$   
 $T_6 = ec8ca1af617d96073e45543413560b3c, T_7 = a63099fbd9cdc2d75a044ced83c1dc7a,$   
 $T_8 = e644a1663f0741a084db92a650063d61, T_9 = e80723a1e7d6ac9e83a6fb59aa58158f;$   
 $l = 125:$   
 $S_1 = fdefc5d9598e3af74fb98a01e80f08ed, S_2 = 80538b14ba7a3c3408e6e374ba27a987,$   
 $T_0 = 7e4350ee1408772b58a06d76a236b274, T_1 = d4478ca8afa0d349d524b374709aa7fe,$   
 $T_2 = da9c2ce99d1783697b4d11e649d2cf6e, T_3 = b6ed17a17a482felad4ba07bb592138d,$   
 $T_4 = cad92112de4f069b6999a53883c9de1f, T_5 = a47f0dca458fc04bb02357542857f5c5,$   
 $T_6 = 69745dfacbf644adb733499f9ce4bdd92, T_7 = ec8ca1af617d96073e45543413560b3c,$   
 $T_8 = a63099fbd9cdc2d75a044ced83c1dc7a, T_9 = e644a1663f0741a084db92a650063d61;$   
 $l = 126:$   
 $S_1 = 4175943b9414655c14ed7df63b6c273a, S_2 = b6c10c7ee74c270cc9c035c4252034b5,$   
 $T_0 = f836a0ba7b608c68deadb3ba608c5bef, T_1 = 7e4350ee1408772b58a06d76a236b274,$   
 $T_2 = d4478ca8afa0d349d524b374709aa7fe, T_3 = da9c2ce99d1783697b4d11e649d2cf6e,$   
 $T_4 = b6ed17a17a482felad4ba07bb592138d, T_5 = 0c4eb54e72636bf77e87232ebf360559,$   
 $T_6 = a47f0dca458fc04bb02357542857f5c5, T_7 = 69745dfacbf644adb733499f9ce4bdd92,$   
 $T_8 = ec8ca1af617d96073e45543413560b3c, T_9 = a63099fbd9cdc2d75a044ced83c1dc7a;$   
 $l = 127:$   
 $S_1 = 5989765bb7cb252015a26afda84f048d, S_2 = 7eafd804c106808d46334c44340f5d8d,$   
 $T_0 = d8394e6078d1a5ad5bd5b741dc5e621a, T_1 = f836a0ba7b608c68deadb3ba608c5bef,$

T<sub>2</sub> = 7e4350ee1408772b58a06d76a236b274, T<sub>3</sub> = d4478ca8afa0d349d524b374709aa7fe,  
T<sub>4</sub> = da9c2ce99d1783697b4d11e649d2cf6e, T<sub>5</sub> = 10768dfd32135501c2ee0b795de1181a,  
T<sub>6</sub> = 0c4eb54e72636bf77e87232ebf360559, T<sub>7</sub> = a47f0dca458fc04bb02357542857f5c5,  
T<sub>8</sub> = 69745dfacbf644adb733499fce4bdd92, T<sub>9</sub> = ec8ca1af617d96073e45543413560b3c;

### Block 1 processed. Intermediate hash values are

H<sub>0</sub> = c2230d75cce92d4a43c840ec1c3eb998 + d8394e6078d1a5ad5bd5b741dc5e621a =  
9a5c5bd645bad2f79f9df82df89d1bb2,  
H<sub>1</sub> = dd0721a872ab5d9d1f32715fbb39e48c + f836a0ba7b608c68deadb3ba608c5bef =  
d53dc262ee0bea05fde0251a1bc6407b,  
H<sub>2</sub> = 26bed1a981976df68768f448aef13131 + 7e4350ee1408772b58a06d76a236b274 =  
a5022297959fe521e00961bf5127e3a5,  
H<sub>3</sub> = 3988a32b9eb6f495d89ce92d003b7734 + d4478ca8afa0d349d524b374709aa7fe =  
0dd02fd44e57c7dfadc19ca170d61f32,  
H<sub>4</sub> = b14f50ef7f295622504b6bae54d2d139 + da9c2ce99d1783697b4d11e649d2cf6e =  
8beb7dd91c40d98bcb987d949ea5a0a7,  
H<sub>5</sub> = 72ea1e8090bdeca9ca22eebb04b00518 + 10768dfd32135501c2ee0b795de1181a =  
8360ac7dc2d141ab8d10fa3462911d32,  
H<sub>6</sub> = 651795cb8dda6c6167d4fbf876774eaf + 0c4eb54e72636bf77e87232ebf360559 =  
71664b1a003dd858e65c1f2735ad5408,  
H<sub>7</sub> = a9d884f8ab76462d53875cdf51d36f5 + a47f0dca458fc04bb02357542857f5c5 =  
4e5792c2f106067903aab4341d752cba,  
H<sub>8</sub> = e8d3a3f7d895a25b820e3af6f0ab5b29 + 69745dfacbf644adb733499fce4bdd92 =  
524801f2a48be70939418496bef738bb,  
H<sub>9</sub> = c096111daa8c06e6e7d61d3af8fb7384 + ec8ca1af617d96073e45543413560b3c =  
ad22b2cd0c099cee261b716f0c517ec0.

**j = 2;**

init:

T<sub>0</sub> = 9a5c5bd645bad2f79f9df82df89d1bb2, T<sub>1</sub> = d53dc262ee0bea05fde0251a1bc6407b,  
T<sub>2</sub> = a5022297959fe521e00961bf5127e3a5, T<sub>3</sub> = 0dd02fd44e57c7dfadc19ca170d61f32,  
T<sub>4</sub> = 8beb7dd91c40d98bcb987d949ea5a0a7, T<sub>5</sub> = 8360ac7dc2d141ab8d10fa3462911d32,  
T<sub>6</sub> = 71664b1a003dd858e65c1f2735ad5408, T<sub>7</sub> = 4e5792c2f106067903aab4341d752cba,  
T<sub>8</sub> = 524801f2a48be70939418496bef738bb, T<sub>9</sub> = ad22b2cd0c099cee261b716f0c517ec0;  
l = 000:

S<sub>1</sub> = 53630021472738399bf438bd788bb03a, S<sub>2</sub> = e6e4040176d0354459772b66af55bd24,  
T<sub>0</sub> = 3a470422bdf76d7df56b642427e16d5e, T<sub>1</sub> = 9a5c5bd645bad2f79f9df82df89d1bb2,  
T<sub>2</sub> = d53dc262ee0bea05fde0251a1bc6407b, T<sub>3</sub> = a5022297959fe521e00961bf5127e3a5,  
T<sub>4</sub> = 0dd02fd44e57c7dfadc19ca170d61f32, T<sub>5</sub> = df4e7dfa636811c5678cb652173150e1,  
T<sub>6</sub> = 8360ac7dc2d141ab8d10fa3462911d32, T<sub>7</sub> = 71664b1a003dd858e65c1f2735ad5408,  
T<sub>8</sub> = 4e5792c2f106067903aab4341d752cba, T<sub>9</sub> = 524801f2a48be70939418496bef738bb;

l = 001:

S<sub>1</sub> = c661aac18e509949fed5feaf206161af, S<sub>2</sub> = c80e414bf5dd788a943636575dc17306,  
T<sub>0</sub> = 8e6fec0d842e11d4930c35067e22d4b5, T<sub>1</sub> = 3a470422bdf76d7df56b642427e16d5e,  
T<sub>2</sub> = 9a5c5bd645bad2f79f9df82df89d1bb2, T<sub>3</sub> = d53dc262ee0bea05fde0251a1bc6407b,  
T<sub>4</sub> = a5022297959fe521e00961bf5127e3a5, T<sub>5</sub> = d431da95dca86129ac979b50913780e1,  
T<sub>6</sub> = df4e7dfa636811c5678cb652173150e1, T<sub>7</sub> = 8360ac7dc2d141ab8d10fa3462911d32,  
T<sub>8</sub> = 71664b1a003dd858e65c1f2735ad5408, T<sub>9</sub> = 4e5792c2f106067903aab4341d752cba;

l = 002:

S<sub>1</sub> = fe512c07ebc106bcfea8cf172fcb7b39, S<sub>2</sub> = fd960d6c1eaeb611d815dd8e793a2ddc,  
T<sub>0</sub> = fbe739740a6fbcced6beaca5a905a915, T<sub>1</sub> = 8e6fec0d842e11d4930c35067e22d4b5,  
T<sub>2</sub> = 3a470422bdf76d7df56b642427e16d5e, T<sub>3</sub> = 9a5c5bd645bad2f79f9df82df89d1bb2,  
T<sub>4</sub> = d53dc262ee0bea05fde0251a1bc6407b, T<sub>5</sub> = a3534e9f8160ebdedeb230d680f35ede,

$T_6 = d431da95dca86129ac979b50913780e1$ ,  $T_7 = df4e7dfa636811c5678cb652173150e1$ ,  
 $T_8 = 8360ac7dc2d141ab8d10fa3462911d32$ ,  $T_9 = 71664b1a003dd858e65c1f2735ad5408$ ;  
 $l = 003$ :  
 $S_1 = e22bd298d41cb0610df13af699d7ee78$ ,  $S_2 = 98a74e8625dfdf9e4600a70d5eba3918$ ,  
 $T_0 = 7ad3211ef9fc8fff53f1e203f8922790$ ,  $T_1 = fbe739740a6fbcccd6beaca5a905a915$ ,  
 $T_2 = 8e6fec0d842e11d4930c35067e22d4b5$ ,  $T_3 = 3a470422bdf76d7df56b642427e16d5e$ ,  
 $T_4 = 9a5c5bd645bad2f79f9df82df89d1bb2$ ,  $T_5 = b76994fbc2289a670bd16010b59e2ef3$ ,  
 $T_6 = a3534e9f8160ebdedeb230d680f35ede$ ,  $T_7 = d431da95dca86129ac979b50913780e1$ ,  
 $T_8 = df4e7dfa636811c5678cb652173150e1$ ,  $T_9 = 8360ac7dc2d141ab8d10fa3462911d32$ ;  
 $l = 004$ :  
 $S_1 = e2eeba00930c24def57f528fbd4174af$ ,  $S_2 = 1ab0f33960ba83f4d3593b1a0676edaa$ ,  
 $T_0 = fd9fad39f3c6a8d3c8d88da9c3b86259$ ,  $T_1 = 7ad3211ef9fc8fff53f1e203f8922790$ ,  
 $T_2 = fbe739740a6fbcccd6beaca5a905a915$ ,  $T_3 = 8e6fec0d842e11d4930c35067e22d4b5$ ,  
 $T_4 = 3a470422bdf76d7df56b642427e16d5e$ ,  $T_5 = 7d4b15d6d8c6f7d6951d4abdb5de9061$ ,  
 $T_6 = b76994fbc2289a670bd16010b59e2ef3$ ,  $T_7 = a3534e9f8160ebdedeb230d680f35ede$ ,  
 $T_8 = d431da95dca86129ac979b50913780e1$ ,  $T_9 = df4e7dfa636811c5678cb652173150e1$ ;  
 $l = 005$ :  
 $S_1 = 96cba7b5a90e92e53b9d7ac379b766cd$ ,  $S_2 = d0f618f0aef3f35735f7f8943c20890f$ ,  
 $T_0 = 67c1c0a65802863c71957357b5d7efdc$ ,  $T_1 = fd9fad39f3c6a8d3c8d88da9c3b86259$ ,  
 $T_2 = 7ad3211ef9fc8fff53f1e203f8922790$ ,  $T_3 = fbe739740a6fbcccd6beaca5a905a915$ ,  
 $T_4 = 8e6fec0d842e11d4930c35067e22d4b5$ ,  $T_5 = d112abd8670600633108dee7a198d42b$ ,  
 $T_6 = 7d4b15d6d8c6f7d6951d4abdb5de9061$ ,  $T_7 = b76994fbc2289a670bd16010b59e2ef3$ ,  
 $T_8 = a3534e9f8160ebdedeb230d680f35ede$ ,  $T_9 = d431da95dca86129ac979b50913780e1$ ;  
 $l = 006$ :  
 $S_1 = 71ca7a6afa84038a763fef110784ccba$ ,  $S_2 = bb442b30a974384795dfef87d64e4ae2$ ,  
 $T_0 = 2d0ea59ba3f83bd20c1fde98ddd3179c$ ,  $T_1 = 67c1c0a65802863c71957357b5d7efdc$ ,  
 $T_2 = fd9fad39f3c6a8d3c8d88da9c3b86259$ ,  $T_3 = 7ad3211ef9fc8fff53f1e203f8922790$ ,  
 $T_4 = fbe739740a6fbcccd6beaca5a905a915$ ,  $T_5 = 003a66787eb2155f094c241785a7a16f$ ,  
 $T_6 = d112abd8670600633108dee7a198d42b$ ,  $T_7 = 7d4b15d6d8c6f7d6951d4abdb5de9061$ ,  
 $T_8 = b76994fbc2289a670bd16010b59e2ef3$ ,  $T_9 = a3534e9f8160ebdedeb230d680f35ede$ ;  
 $l = 007$ :  
 $S_1 = 1169e2addab9d3f075c7c3141151ed03$ ,  $S_2 = 9a5d439543dd317eecc86bda93f1cfb$ ,  
 $T_0 = abc726431e97056f649449d1ba9109fe$ ,  $T_1 = 2d0ea59ba3f83bd20c1fde98ddd3179c$ ,  
 $T_2 = 67c1c0a65802863c71957357b5d7efdc$ ,  $T_3 = fd9fad39f3c6a8d3c8d88da9c3b86259$ ,  
 $T_4 = 7ad3211ef9fc8fff53f1e203f8922790$ ,  $T_5 = 0d511c21e52990bf4c866fb9ba579618$ ,  
 $T_6 = 003a66787eb2155f094c241785a7a16f$ ,  $T_7 = d112abd8670600633108dee7a198d42b$ ,  
 $T_8 = 7d4b15d6d8c6f7d6951d4abdb5de9061$ ,  $T_9 = b76994fbc2289a670bd16010b59e2ef3$ ;  
 $l = 008$ :  
 $S_1 = 71efd6006041a04f7c2ed298cc9aa1cb$ ,  $S_2 = 17370faf9376ea13d8deab2816f36af4$ ,  
 $T_0 = 8926e5aff3b88a63550d7dc0e38e0cbf$ ,  $T_1 = abc726431e97056f649449d1ba9109fe$ ,  
 $T_2 = 2d0ea59ba3f83bd20c1fde98ddd3179c$ ,  $T_3 = 67c1c0a65802863c71957357b5d7efdc$ ,  
 $T_4 = fd9fad39f3c6a8d3c8d88da9c3b86259$ ,  $T_5 = ecc2f71f5a3e304ed020b49cc52cc95b$ ,  
 $T_6 = 0d511c21e52990bf4c866fb9ba579618$ ,  $T_7 = 003a66787eb2155f094c241785a7a16f$ ,  
 $T_8 = d112abd8670600633108dee7a198d42b$ ,  $T_9 = 7d4b15d6d8c6f7d6951d4abdb5de9061$ ;  
 $l = 009$ :  
 $S_1 = 58293272014d7eeae39ea2af1ce72a71$ ,  $S_2 = 02b03bfee3f7cd3706d12e5093ade67f$ ,  
 $T_0 = 5ad96e70e5454c21ea6fd0ffb09510f0$ ,  $T_1 = 8926e5aff3b88a63550d7dc0e38e0cbf$ ,  
 $T_2 = abc726431e97056f649449d1ba9109fe$ ,  $T_3 = 2d0ea59ba3f83bd20c1fde98ddd3179c$ ,  
 $T_4 = 67c1c0a65802863c71957357b5d7efdc$ ,  $T_5 = 55c8dfabf51427beac773058e09f8cca$ ,  
 $T_6 = ecc2f71f5a3e304ed020b49cc52cc95b$ ,  $T_7 = 0d511c21e52990bf4c866fb9ba579618$ ,  
 $T_8 = 003a66787eb2155f094c241785a7a16f$ ,  $T_9 = d112abd8670600633108dee7a198d42b$ ;  
 $l = 010$ :

$S_1 = 6761b55cdbebf050c24fc15b208856bf$ ,  $S_2 = df4a629506fa9d4f5d3e5836bfe8f9af$ ,  
 $T_0 = 46ac17f1e2e68da01f8e1991e071506e$ ,  $T_1 = 5ad96e70e5454c21ea6fd0ffb09510f0$ ,  
 $T_2 = 8926e5aff3b88a63550d7dc0e38e0cbf$ ,  $T_3 = abc726431e97056f649449d1ba9109fe$ ,  
 $T_4 = 2d0ea59ba3f83bd20c1fde98ddd3179c$ ,  $T_5 = cf23760333ee768d33e534b2d660469b$ ,  
 $T_6 = 55c8dfabf51427beac773058e09f8cca$ ,  $T_7 = ecc2f71f5a3e304ed020b49cc52cc95b$ ,  
 $T_8 = 0d511c21e52990bf4c866fb9ba579618$ ,  $T_9 = 003a66787eb2155f094c241785a7a16f$ ;  
 $l = 011$ :  
 $S_1 = dc617437b94da34b65fb660b17157f63$ ,  $S_2 = 2b76e5fbbc9eaad1d4b6819dcc2ef20e$ ,  
 $T_0 = 07d85a3375ec4e1d3ab1e7a8e3447171$ ,  $T_1 = 46ac17f1e2e68da01f8e1991e071506e$ ,  
 $T_2 = 5ad96e70e5454c21ea6fd0ffb09510f0$ ,  $T_3 = 8926e5aff3b88a63550d7dc0e38e0cbf$ ,  
 $T_4 = abc726431e97056f649449d1ba9109fe$ ,  $T_5 = 097019d35d45df1d721b44a3f4e896ff$ ,  
 $T_6 = cf23760333ee768d33e534b2d660469b$ ,  $T_7 = 55c8dfabf51427beac773058e09f8cca$ ,  
 $T_8 = ecc2f71f5a3e304ed020b49cc52cc95b$ ,  $T_9 = 0d511c21e52990bf4c866fb9ba579618$ ;  
 $l = 012$ :  
 $S_1 = 6bccdaa0dc0f5c1c6f2c209fb0bd96d7$ ,  $S_2 = 342dbffa59a359ed0867663953f8b9e5$ ,  
 $T_0 = 9ffa9a9b35b2b609779386d904b650bc$ ,  $T_1 = 07d85a3375ec4e1d3ab1e7a8e3447171$ ,  
 $T_2 = 46ac17f1e2e68da01f8e1991e071506e$ ,  $T_3 = 5ad96e70e5454c21ea6fd0ffb09510f0$ ,  
 $T_4 = 8926e5aff3b88a63550d7dc0e38e0cbf$ ,  $T_5 = 179400e3faa6618bd3c06a716b4ea0d5$ ,  
 $T_6 = 097019d35d45df1d721b44a3f4e896ff$ ,  $T_7 = cf23760333ee768d33e534b2d660469b$ ,  
 $T_8 = 55c8dfabf51427beac773058e09f8cca$ ,  $T_9 = ecc2f71f5a3e304ed020b49cc52cc95b$ ;  
 $l = 013$ :  
 $S_1 = 798c3c52970488f1e1172fc432c839a9$ ,  $S_2 = cc7a409b659dff24338f8fa658fb704c$ ,  
 $T_0 = 46067cedfca2881614a6bf6a8bc3a9f5$ ,  $T_1 = 9ffa9a9b35b2b609779386d904b650bc$ ,  
 $T_2 = 07d85a3375ec4e1d3ab1e7a8e3447171$ ,  $T_3 = 46ac17f1e2e68da01f8e1991e071506e$ ,  
 $T_4 = 5ad96e70e5454c21ea6fd0ffb09510f0$ ,  $T_5 = 02b322028abd13553624ad8516564668$ ,  
 $T_6 = 179400e3faa6618bd3c06a716b4ea0d5$ ,  $T_7 = 097019d35d45df1d721b44a3f4e896ff$ ,  
 $T_8 = cf23760333ee768d33e534b2d660469b$ ,  $T_9 = 55c8dfabf51427beac773058e09f8cca$ ;  
 $l = 014$ :  
 $S_1 = 464dc383dac52db62122bcd727a2355a$ ,  $S_2 = c42625b558b1e7143a5af48287ae2e55$ ,  
 $T_0 = 0a73e939337714ca5b7db161af5063af$ ,  $T_1 = 46067cedfca2881614a6bf6a8bc3a9f5$ ,  
 $T_2 = 9ffa9a9b35b2b609779386d904b650bc$ ,  $T_3 = 07d85a3375ec4e1d3ab1e7a8e3447171$ ,  
 $T_4 = 46ac17f1e2e68da01f8e1991e071506e$ ,  $T_5 = a12731f4c00a79d80b928dded837464a$ ,  
 $T_6 = 02b322028abd13553624ad8516564668$ ,  $T_7 = 179400e3faa6618bd3c06a716b4ea0d5$ ,  
 $T_8 = 097019d35d45df1d721b44a3f4e896ff$ ,  $T_9 = cf23760333ee768d33e534b2d660469b$ ;  
 $l = 015$ :  
 $S_1 = 8db787570589652d1172397906452906$ ,  $S_2 = f68b50933908d8a31cb90b82773797ae$ ,  
 $T_0 = 8442d7ea3e923dd02e2b44fb7d7cc0b4$ ,  $T_1 = 0a73e939337714ca5b7db161af5063af$ ,  
 $T_2 = 46067cedfca2881614a6bf6a8bc3a9f5$ ,  $T_3 = 9ffa9a9b35b2b609779386d904b650bc$ ,  
 $T_4 = 07d85a3375ec4e1d3ab1e7a8e3447171$ ,  $T_5 = d4639f48e86ff2cd3100530ae6b67974$ ,  
 $T_6 = a12731f4c00a79d80b928dded837464a$ ,  $T_7 = 02b322028abd13553624ad8516564668$ ,  
 $T_8 = 179400e3faa6618bd3c06a716b4ea0d5$ ,  $T_9 = 097019d35d45df1d721b44a3f4e896ff$ ;  
 $l = 016$ :  
 $S_1 = 5e184fd19591278fb2cb128517e2f89f$ ,  $S_2 = a4942933ee25c88b5f063a766a3521d4$ ,  
 $T_0 = 02ac790583b6f01b11d14cfb82181a73$ ,  $T_1 = 8442d7ea3e923dd02e2b44fb7d7cc0b4$ ,  
 $T_2 = 0a73e939337714ca5b7db161af5063af$ ,  $T_3 = 46067cedfca2881614a6bf6a8bc3a9f5$ ,  
 $T_4 = 9ffa9a9b35b2b609779386d904b650bc$ ,  $T_5 = 65f0aa050b7d75aced7cfa2dfb276a10$ ,  
 $T_6 = d4639f48e86ff2cd3100530ae6b67974$ ,  $T_7 = a12731f4c00a79d80b928dded837464a$ ,  
 $T_8 = 02b322028abd13553624ad8516564668$ ,  $T_9 = 179400e3faa6618bd3c06a716b4ea0d5$ ;  
 $l = 017$ :  
 $S_1 = ff1851875e6a4b90a49d008d9c23c2e4$ ,  $S_2 = 6d3a4da6f498ff6347092ef55c07c3bc$ ,  
 $T_0 = 6c529f2e53034af3eba62f82f82b86a0$ ,  $T_1 = 02ac790583b6f01b11d14cfb82181a73$ ,  
 $T_2 = 8442d7ea3e923dd02e2b44fb7d7cc0b4$ ,  $T_3 = 0a73e939337714ca5b7db161af5063af$ ,



$T_4 = 46067cedfca2881614a6bf6a8bc3a9f5$ ,  $T_5 = 9f12ec22941d019a1c308766a0da13a0$ ,  
 $T_6 = 65f0aa050b7d75aced7cfa2dfb276a10$ ,  $T_7 = d4639f48e86ff2cd3100530ae6b67974$ ,  
 $T_8 = a12731f4c00a79d80b928dded837464a$ ,  $T_9 = 02b322028abd13553624ad8516564668$ ;  
 $l = 018$ :  
 $S_1 = 469f23f1ce1667723240aa678b76f165$ ,  $S_2 = 4078ba63d795d582e4013f6121a52e42$ ,  
 $T_0 = 8717de55a5ac3cf51641e9c8ad1c1fa7$ ,  $T_1 = 6c529f2e53034af3eba62f82f82b86a0$ ,  
 $T_2 = 02ac790583b6f01b11d14cfb82181a73$ ,  $T_3 = 8442d7ea3e923dd02e2b44fb7d7cc0b4$ ,  
 $T_4 = 0a73e939337714ca5b7db161af5063af$ ,  $T_5 = 8ca5a0dfcab8ef8846e769d2173a9b5a$ ,  
 $T_6 = 9f12ec22941d019a1c308766a0da13a0$ ,  $T_7 = 65f0aa050b7d75aced7cfa2dfb276a10$ ,  
 $T_8 = d4639f48e86ff2cd3100530ae6b67974$ ,  $T_9 = a12731f4c00a79d80b928dded837464a$ ;  
 $l = 019$ :  
 $S_1 = f799f56e4948a8a4d03826de718c6991$ ,  $S_2 = c5778c4d48c7c10f89f260e638df100b$ ,  
 $T_0 = bd1181bb921069b45a2a87c4aa6b799c$ ,  $T_1 = 8717de55a5ac3cf51641e9c8ad1c1fa7$ ,  
 $T_2 = 6c529f2e53034af3eba62f82f82b86a0$ ,  $T_3 = 02ac790583b6f01b11d14cfb82181a73$ ,  
 $T_4 = 8442d7ea3e923dd02e2b44fb7d7cc0b4$ ,  $T_5 = 020ddea77cbfbd6f2bb5d84020dccc40$ ,  
 $T_6 = 8ca5a0dfcab8ef8846e769d2173a9b5a$ ,  $T_7 = 9f12ec22941d019a1c308766a0da13a0$ ,  
 $T_8 = 65f0aa050b7d75aced7cfa2dfb276a10$ ,  $T_9 = d4639f48e86ff2cd3100530ae6b67974$ ;  
 $l = 020$ :  
 $S_1 = 1c8913267e6c2f70685aa0e37521ccd3$ ,  $S_2 = e1cd1a4936ffed61276c9dfcaef1a96f$ ,  
 $T_0 = fe562d6fb56c1cd18fc73ee024137642$ ,  $T_1 = bd1181bb921069b45a2a87c4aa6b799c$ ,  
 $T_2 = 8717de55a5ac3cf51641e9c8ad1c1fa7$ ,  $T_3 = 6c529f2e53034af3eba62f82f82b86a0$ ,  
 $T_4 = 02ac790583b6f01b11d14cfb82181a73$ ,  $T_5 = a0cbeb10bcfe6d409685e5def29e8d87$ ,  
 $T_6 = 020ddea77cbfbd6f2bb5d84020dccc40$ ,  $T_7 = 8ca5a0dfcab8ef8846e769d2173a9b5a$ ,  
 $T_8 = 9f12ec22941d019a1c308766a0da13a0$ ,  $T_9 = 65f0aa050b7d75aced7cfa2dfb276a10$ ;  
 $l = 021$ :  
 $S_1 = c79092ec232611f535c90fa9d4326e88$ ,  $S_2 = 24c514522880edc72569ea70169fe13b$ ,  
 $T_0 = ec55a73e4ba6ffbc5b32fa19ead24fc3$ ,  $T_1 = fe562d6fb56c1cd18fc73ee024137642$ ,  
 $T_2 = bd1181bb921069b45a2a87c4aa6b799c$ ,  $T_3 = 8717de55a5ac3cf51641e9c8ad1c1fa7$ ,  
 $T_4 = 6c529f2e53034af3eba62f82f82b86a0$ ,  $T_5 = ca3d0bf1a6dd0210479a5ca5564a88fb$ ,  
 $T_6 = a0cbeb10bcfe6d409685e5def29e8d87$ ,  $T_7 = 020ddea77cbfbd6f2bb5d84020dccc40$ ,  
 $T_8 = 8ca5a0dfcab8ef8846e769d2173a9b5a$ ,  $T_9 = 9f12ec22941d019a1c308766a0da13a0$ ;  
 $l = 022$ :  
 $S_1 = 08c9d07de9e419f96c45b182e7a64a07$ ,  $S_2 = bdc24b667df516cf495ee0bd53554d$ ,  
 $T_0 = c698a2c950620f103b8f1063a4f99f54$ ,  $T_1 = ec55a73e4ba6ffbc5b32fa19ead24fc3$ ,  
 $T_2 = fe562d6fb56c1cd18fc73ee024137642$ ,  $T_3 = bd1181bb921069b45a2a87c4aa6b799c$ ,  
 $T_4 = 8717de55a5ac3cf51641e9c8ad1c1fa7$ ,  $T_5 = 751c6fac3ce764ed57ebe105dfd1d0a7$ ,  
 $T_6 = ca3d0bf1a6dd0210479a5ca5564a88fb$ ,  $T_7 = a0cbeb10bcfe6d409685e5def29e8d87$ ,  
 $T_8 = 020ddea77cbfbd6f2bb5d84020dccc40$ ,  $T_9 = 8ca5a0dfcab8ef8846e769d2173a9b5a$ ;  
 $l = 023$ :  
 $S_1 = 78e9cecc8343fafbb2a215072b18e385$ ,  $S_2 = b45f52bcdbe09cefca429440fb1c52ec$ ,  
 $T_0 = 2d4921895f2497eb7ce4a94826353671$ ,  $T_1 = c698a2c950620f103b8f1063a4f99f54$ ,  
 $T_2 = ec55a73e4ba6ffbc5b32fa19ead24fc3$ ,  $T_3 = fe562d6fb56c1cd18fc73ee024137642$ ,  
 $T_4 = bd1181bb921069b45a2a87c4aa6b799c$ ,  $T_5 = 0001ad2228f037f0c8e3fecfd835032c$ ,  
 $T_6 = 751c6fac3ce764ed57ebe105dfd1d0a7$ ,  $T_7 = ca3d0bf1a6dd0210479a5ca5564a88fb$ ,  
 $T_8 = a0cbeb10bcfe6d409685e5def29e8d87$ ,  $T_9 = 020ddea77cbfbd6f2bb5d84020dccc40$ ;  
 $l = 024$ :  
 $S_1 = 92fe920fc2378331189e99ff25371283$ ,  $S_2 = 6e7a7e5caed2b3019bcbe9f99d1da7a4$ ,  
 $T_0 = 0179106c710a3632b46a83f8c254ba27$ ,  $T_1 = 2d4921895f2497eb7ce4a94826353671$ ,  
 $T_2 = c698a2c950620f103b8f1063a4f99f54$ ,  $T_3 = ec55a73e4ba6ffbc5b32fa19ead24fc3$ ,  
 $T_4 = fe562d6fb56c1cd18fc73ee024137642$ ,  $T_5 = 501013cb5447ece572c921c3cfa28c1f$ ,  
 $T_6 = 0001ad2228f037f0c8e3fecfd835032c$ ,  $T_7 = 751c6fac3ce764ed57ebe105dfd1d0a7$ ,  
 $T_8 = ca3d0bf1a6dd0210479a5ca5564a88fb$ ,  $T_9 = a0cbeb10bcfe6d409685e5def29e8d87$ ;

$l = 025:$   
 $S_1 = 377f445ad1e9112d44c39830c33cfc00, S_2 = b0680b79e20352304ed4a7c6e08f4041,$   
 $T_0 = e7e74fd4b3ec635d93983ff7a3cc3c41, T_1 = 0179106c710a3632b46a83f8c254ba27,$   
 $T_2 = 2d4921895f2497eb7ce4a94826353671, T_3 = c698a2c950620f103b8f1063a4f99f54,$   
 $T_4 = ec55a73e4ba6ffbc5b32fa19ead24fc3, T_5 = 35d571ca87552dfed48ad710e7507242,$   
 $T_6 = 501013cb5447ece572c921c3cfa28c1f, T_7 = 0001ad2228f037f0c8e3fecfd835032c,$   
 $T_8 = 751c6fac3ce764ed57ebe105dfd1d0a7, T_9 = ca3d0bfla6dd0210479a5ca5564a88fb;$

$l = 026:$   
 $S_1 = 2a09b87143055c33f65344dd9de7efe5, S_2 = 12ef91f168cb2bd69229136f71f703c2,$   
 $T_0 = 3cf94a62abd0880a887c584d0fdef3a7, T_1 = e7e74fd4b3ec635d93983ff7a3cc3c41,$   
 $T_2 = 0179106c710a3632b46a83f8c254ba27, T_3 = 2d4921895f2497eb7ce4a94826353671,$   
 $T_4 = c698a2c950620f103b8f1063a4f99f54, T_5 = 165f5faf8eac5bf051863ef788ba3fa8,$   
 $T_6 = 35d571ca87552dfed48ad710e7507242, T_7 = 501013cb5447ece572c921c3cfa28c1f,$   
 $T_8 = 0001ad2228f037f0c8e3fecfd835032c, T_9 = 751c6fac3ce764ed57ebe105dfd1d0a7;$

$l = 027:$   
 $S_1 = 64b02da5abda7064f6f67ec40e578fd0, S_2 = c60d4801c11bca73fd916663e79c7b2b,$   
 $T_0 = 2abd75a76cf63ad8f487e527f5f40afb, T_1 = 3cf94a62abd0880a887c584d0fdef3a7,$   
 $T_2 = e7e74fd4b3ec635d93983ff7a3cc3c41, T_3 = 0179106c710a3632b46a83f8c254ba27,$   
 $T_4 = 2d4921895f2497eb7ce4a94826353671, T_5 = 2b48d06efc3c7f7532858f27b3512f24,$   
 $T_6 = 165f5faf8eac5bf051863ef788ba3fa8, T_7 = 35d571ca87552dfed48ad710e7507242,$   
 $T_8 = 501013cb5447ece572c921c3cfa28c1f, T_9 = 0001ad2228f037f0c8e3fecfd835032c;$

$l = 028:$   
 $S_1 = aa037af806bea464d65662d9936d05a2, S_2 = 8f380076e2195aee828ce2f73c8666e6,$   
 $T_0 = 393b7b6ee8d7ff5358e345d0cff36c88, T_1 = 2abd75a76cf63ad8f487e527f5f40afb,$   
 $T_2 = 3cf94a62abd0880a887c584d0fdef3a7, T_3 = e7e74fd4b3ec635d93983ff7a3cc3c41,$   
 $T_4 = 0179106c710a3632b46a83f8c254ba27, T_5 = d74c9c8165e33c50533b0c21b9a23c13,$   
 $T_6 = 2b48d06efc3c7f7532858f27b3512f24, T_7 = 165f5faf8eac5bf051863ef788ba3fa8,$   
 $T_8 = 35d571ca87552dfed48ad710e7507242, T_9 = 501013cb5447ece572c921c3cfa28c1f;$

$l = 029:$   
 $S_1 = 260c58e0ffa1a31cb5cb5f86cb3c2f574, S_2 = f7f15c80b8d7f1261cb47f1373871046,$   
 $T_0 = 1dfdb561b7f222f1796a7780274a05ba, T_1 = 393b7b6ee8d7ff5358e345d0cff36c88,$   
 $T_2 = 2abd75a76cf63ad8f487e527f5f40afb, T_3 = 3cf94a62abd0880a887c584d0fdef3a7,$   
 $T_4 = e7e74fd4b3ec635d93983ff7a3cc3c41, T_5 = 2785694d702467fe11207c657617af9b,$   
 $T_6 = d74c9c8165e33c50533b0c21b9a23c13, T_7 = 2b48d06efc3c7f7532858f27b3512f24,$   
 $T_8 = 165f5faf8eac5bf051863ef788ba3fa8, T_9 = 35d571ca87552dfed48ad710e7507242;$

$l = 030:$   
 $S_1 = 3d6d1b0dd11e0a2d37a76102ce17a940, S_2 = 1ce7db7cf5a35b6f9767b6b0d3691691,$   
 $T_0 = 5a54f68ac6c1659ccf0f17b3a180bfd1, T_1 = 1dfdb561b7f222f1796a7780274a05ba,$   
 $T_2 = 393b7b6ee8d7ff5358e345d0cff36c88, T_3 = 2abd75a76cf63ad8f487e527f5f40afb,$   
 $T_4 = 3cf94a62abd0880a887c584d0fdef3a7, T_5 = 25546ae2850a6d8acb3fa0fa71e3e581,$   
 $T_6 = 2785694d702467fe11207c657617af9b, T_7 = d74c9c8165e33c50533b0c21b9a23c13,$   
 $T_8 = 2b48d06efc3c7f7532858f27b3512f24, T_9 = 165f5faf8eac5bf051863ef788ba3fa8;$

$l = 031:$   
 $S_1 = 147e15d603872dbfe6788bff54473a13, S_2 = 89303d0821fe99f328c9178cbdd59013,$   
 $T_0 = 9dae52de2585c7b30f41a38c121cca26, T_1 = 5a54f68ac6c1659ccf0f17b3a180bfd1,$   
 $T_2 = 1dfdb561b7f222f1796a7780274a05ba, T_3 = 393b7b6ee8d7ff5358e345d0cff36c88,$   
 $T_4 = 2abd75a76cf63ad8f487e527f5f40afb, T_5 = 51776038af57b5ca6ef4e44c64262dba,$   
 $T_6 = 25546ae2850a6d8acb3fa0fa71e3e581, T_7 = 2785694d702467fe11207c657617af9b,$   
 $T_8 = d74c9c8165e33c50533b0c21b9a23c13, T_9 = 2b48d06efc3c7f7532858f27b3512f24;$

$l = 032:$   
 $S_1 = 1242d7450d7b2b6572b98e799a797c75, S_2 = 19d0594483e837fcc0df0c5d8720ef5b,$   
 $T_0 = 2c1330899163636233989ad7219a6bd0, T_1 = 9dae52de2585c7b30f41a38c121cca26,$

$T_2 = 5a54f68ac6c1659ccf0f17b3a180bfd1$ ,  $T_3 = 1dfdb561b7f222f1796a7780274a05ba$ ,  
 $T_4 = 393b7b6ee8d7ff5358e345d0cff36c88$ ,  $T_5 = 3d004cec7a71663e674173a1906d8770$ ,  
 $T_6 = 51776038af57b5ca6ef4e44c64262dba$ ,  $T_7 = 25546ae2850a6d8acb3fa0fa71e3e581$ ,  
 $T_8 = 2785694d702467fe11207c657617af9b$ ,  $T_9 = d74c9c8165e33c50533b0c21b9a23c13$ ;  
 $l = 033$ :  
 $S_1 = 2c593a8961f48976caeab9379e5182eb$ ,  $S_2 = 09561692a376e7ba20cc260d4655373a$ ,  
 $T_0 = 35af511c056b7130ebb6df44e4a6ba25$ ,  $T_1 = 2c1330899163636233989ad7219a6bd0$ ,  
 $T_2 = 9dae52de2585c7b30f41a38c121cca26$ ,  $T_3 = 5a54f68ac6c1659ccf0f17b3a180bfd1$ ,  
 $T_4 = 1dfdb561b7f222f1796a7780274a05ba$ ,  $T_5 = 6594b5f84acc88ca23cdff086e44ef73$ ,  
 $T_6 = 3d004cec7a71663e674173a1906d8770$ ,  $T_7 = 51776038af57b5ca6ef4e44c64262dba$ ,  
 $T_8 = 25546ae2850a6d8acb3fa0fa71e3e581$ ,  $T_9 = 2785694d702467fe11207c657617af9b$ ;  
 $l = 034$ :  
 $S_1 = 24ff0ed5c913b96ac32b5cda1ee69ecf$ ,  $S_2 = 8fd81fef97ac6eababce5fbffae0e82$ ,  
 $T_0 = b4d72ec560c028166ef9bc9a19d5ad51$ ,  $T_1 = 35af511c056b7130ebb6df44e4a6ba25$ ,  
 $T_2 = 2c1330899163636233989ad7219a6bd0$ ,  $T_3 = 9dae52de2585c7b30f41a38c121cca26$ ,  
 $T_4 = 5a54f68ac6c1659ccf0f17b3a180bfd1$ ,  $T_5 = 42fcc4378105dc5c3c95d45a4630a489$ ,  
 $T_6 = 6594b5f84acc88ca23cdff086e44ef73$ ,  $T_7 = 3d004cec7a71663e674173a1906d8770$ ,  
 $T_8 = 51776038af57b5ca6ef4e44c64262dba$ ,  $T_9 = 25546ae2850a6d8acb3fa0fa71e3e581$ ;  
 $l = 035$ :  
 $S_1 = d51872128755dba12e24dc86d0de6dea$ ,  $S_2 = 7dfb4b8455c92013b0e739ad1124fde8$ ,  
 $T_0 = 5313bd96dd1efbb4df0c1633e2036bd2$ ,  $T_1 = b4d72ec560c028166ef9bc9a19d5ad51$ ,  
 $T_2 = 35af511c056b7130ebb6df44e4a6ba25$ ,  $T_3 = 2c1330899163636233989ad7219a6bd0$ ,  
 $T_4 = 9dae52de2585c7b30f41a38c121cca26$ ,  $T_5 = 2f6d689d4e17413dfd33f43a725f2dbb$ ,  
 $T_6 = 42fcc4378105dc5c3c95d45a4630a489$ ,  $T_7 = 6594b5f84acc88ca23cdff086e44ef73$ ,  
 $T_8 = 3d004cec7a71663e674173a1906d8770$ ,  $T_9 = 51776038af57b5ca6ef4e44c64262dba$ ;  
 $l = 036$ :  
 $S_1 = 4f6f7da8ab2535b6a8d0d727eb70a6a4$ ,  $S_2 = c91abc6e69c8423d5d42e8919901dea4$ ,  
 $T_0 = 188a3a1714ed77f40613bfb984728548$ ,  $T_1 = 5313bd96dd1efbb4df0c1633e2036bd2$ ,  
 $T_2 = b4d72ec560c028166ef9bc9a19d5ad51$ ,  $T_3 = 35af511c056b7130ebb6df44e4a6ba25$ ,  
 $T_4 = 2c1330899163636233989ad7219a6bd0$ ,  $T_5 = ed1dd086d0aafd69b8127ab3fd8d70ca$ ,  
 $T_6 = 2f6d689d4e17413dfd33f43a725f2dbb$ ,  $T_7 = 42fcc4378105dc5c3c95d45a4630a489$ ,  
 $T_8 = 6594b5f84acc88ca23cdff086e44ef73$ ,  $T_9 = 3d004cec7a71663e674173a1906d8770$ ;  
 $l = 037$ :  
 $S_1 = 7b813b6035a4742196e3beded5856566$ ,  $S_2 = 5a1c0f9211772531eb9586897068b800$ ,  
 $T_0 = d59d4af2471b99538279456845ee1d66$ ,  $T_1 = 188a3a1714ed77f40613bfb984728548$ ,  
 $T_2 = 5313bd96dd1efbb4df0c1633e2036bd2$ ,  $T_3 = b4d72ec560c028166ef9bc9a19d5ad51$ ,  
 $T_4 = 35af511c056b7130ebb6df44e4a6ba25$ ,  $T_5 = a7946be9c707d783ca7c59b5f71fd136$ ,  
 $T_6 = ed1dd086d0aafd69b8127ab3fd8d70ca$ ,  $T_7 = 2f6d689d4e17413dfd33f43a725f2dbb$ ,  
 $T_8 = 42fcc4378105dc5c3c95d45a4630a489$ ,  $T_9 = 6594b5f84acc88ca23cdff086e44ef73$ ;  
 $l = 038$ :  
 $S_1 = b2e8a4245d0471864c38299765808cd3$ ,  $S_2 = 3bf3708fbbcf7a71e191919da26a53940$ ,  
 $T_0 = eedc14b418d418a4655143718c25c613$ ,  $T_1 = d59d4af2471b99538279456845ee1d66$ ,  
 $T_2 = 188a3a1714ed77f40613bfb984728548$ ,  $T_3 = 5313bd96dd1efbb4df0c1633e2036bd2$ ,  
 $T_4 = b4d72ec560c028166ef9bc9a19d5ad51$ ,  $T_5 = e897f540626fe2b737ef08dc4a2746f8$ ,  
 $T_6 = a7946be9c707d783ca7c59b5f71fd136$ ,  $T_7 = ed1dd086d0aafd69b8127ab3fd8d70ca$ ,  
 $T_8 = 2f6d689d4e17413dfd33f43a725f2dbb$ ,  $T_9 = 42fcc4378105dc5c3c95d45a4630a489$ ;  
 $l = 039$ :  
 $S_1 = 2f0b7ae4fd9e5eae9a6c10ad4443932$ ,  $S_2 = e02cb3bcffaf67707b443b683a871832$ ,  
 $T_0 = 0f382ea1fd4dc61f64eafc730ecb5164$ ,  $T_1 = eedc14b418d418a4655143718c25c613$ ,  
 $T_2 = d59d4af2471b99538279456845ee1d66$ ,  $T_3 = 188a3a1714ed77f40613bfb984728548$ ,  
 $T_4 = 5313bd96dd1efbb4df0c1633e2036bd2$ ,  $T_5 = e3e2a9aa5e5e86c558a07da4ee19e683$ ,  
 $T_6 = e897f540626fe2b737ef08dc4a2746f8$ ,  $T_7 = a7946be9c707d783ca7c59b5f71fd136$ ,

$T_8 = \text{ed1dd086d0aafd69b8127ab3fd8d70ca}$ ,  $T_9 = \text{2f6d689d4e17413dfd33f43a725f2dbb}$ ;  
 $l = 040$ :  
 $S_1 = \text{f2cca9c39a9017085bdcb8f7a9c06d4f}$ ,  $S_2 = \text{8f1c2b7cb8b2744422f3d64cdec3b43f}$ ,  
 $T_0 = \text{81e8d54053428b4c7ed08f448884218e}$ ,  $T_1 = \text{0f382ea1fd4dc61f64eafc730ecb5164}$ ,  
 $T_2 = \text{eedc14b418d418a4655143718c25c613}$ ,  $T_3 = \text{d59d4af2471b99538279456845ee1d66}$ ,  
 $T_4 = \text{188a3a1714ed77f40613bfb984728548}$ ,  $T_5 = \text{45e0675a77af12bd3ae8cf2b8bc3d921}$ ,  
 $T_6 = \text{e3e2a9aa5e5e86c558a07da4ee19e683}$ ,  $T_7 = \text{e897f540626fe2b737ef08dc4a2746f8}$ ,  
 $T_8 = \text{a7946be9c707d783ca7c59b5f71fd136}$ ,  $T_9 = \text{ed1dd086d0aafd69b8127ab3fd8d70ca}$ ;  
 $l = 041$ :  
 $S_1 = \text{209c510ea575ec3c9be76bd9a61d8d79}$ ,  $S_2 = \text{e28c64baddb4c07898a645f1772b12f1}$ ,  
 $T_0 = \text{0328b5c9832aacb5348db1cb1d48a06a}$ ,  $T_1 = \text{81e8d54053428b4c7ed08f448884218e}$ ,  
 $T_2 = \text{0f382ea1fd4dc61f64eafc730ecb5164}$ ,  $T_3 = \text{eedc14b418d418a4655143718c25c613}$ ,  
 $T_4 = \text{d59d4af2471b99538279456845ee1d66}$ ,  $T_5 = \text{39268b25ba636430a1fb2b932a9012c1}$ ,  
 $T_6 = \text{45e0675a77af12bd3ae8cf2b8bc3d921}$ ,  $T_7 = \text{e3e2a9aa5e5e86c558a07da4ee19e683}$ ,  
 $T_8 = \text{e897f540626fe2b737ef08dc4a2746f8}$ ,  $T_9 = \text{a7946be9c707d783ca7c59b5f71fd136}$ ;  
 $l = 042$ :  
 $S_1 = \text{4028d791302ab5853027a20fb9d1b6eb}$ ,  $S_2 = \text{c3a8850b5de5a3c8b0f37dc12a03a191}$ ,  
 $T_0 = \text{03d15c9c8e10594de11b1fd0e3d5587c}$ ,  $T_1 = \text{0328b5c9832aacb5348db1cb1d48a06a}$ ,  
 $T_2 = \text{81e8d54053428b4c7ed08f448884218e}$ ,  $T_3 = \text{0f382ea1fd4dc61f64eafc730ecb5164}$ ,  
 $T_4 = \text{eedc14b418d418a4655143718c25c613}$ ,  $T_5 = \text{15c6228377464ed8b2a0e777ffbfd451}$ ,  
 $T_6 = \text{39268b25ba636430a1fb2b932a9012c1}$ ,  $T_7 = \text{45e0675a77af12bd3ae8cf2b8bc3d921}$ ,  
 $T_8 = \text{e3e2a9aa5e5e86c558a07da4ee19e683}$ ,  $T_9 = \text{e897f540626fe2b737ef08dc4a2746f8}$ ;  
 $l = 043$ :  
 $S_1 = \text{772962dbab8c5b76a5248a081f5e3c32}$ ,  $S_2 = \text{ad7fc41389d6e78bf84377f2223f856b}$ ,  
 $T_0 = \text{24a926ef356343029d6801fa419dc19d}$ ,  $T_1 = \text{03d15c9c8e10594de11b1fd0e3d5587c}$ ,  
 $T_2 = \text{0328b5c9832aacb5348db1cb1d48a06a}$ ,  $T_3 = \text{81e8d54053428b4c7ed08f448884218e}$ ,  
 $T_4 = \text{0f382ea1fd4dc61f64eafc730ecb5164}$ ,  $T_5 = \text{6605778fc460741b0a75cd79ab840245}$ ,  
 $T_6 = \text{15c6228377464ed8b2a0e777ffbfd451}$ ,  $T_7 = \text{39268b25ba636430a1fb2b932a9012c1}$ ,  
 $T_8 = \text{45e0675a77af12bd3ae8cf2b8bc3d921}$ ,  $T_9 = \text{e3e2a9aa5e5e86c558a07da4ee19e683}$ ;  
 $l = 044$ :  
 $S_1 = \text{5b4fd81913aabdc1191e7b52208a2a9e}$ ,  $S_2 = \text{00d17b5e6eae73d9e29e591b0a991a16}$ ,  
 $T_0 = \text{5c2153778259319afbcbcd46d2b2344b4}$ ,  $T_1 = \text{24a926ef356343029d6801fa419dc19d}$ ,  
 $T_2 = \text{03d15c9c8e10594de11b1fd0e3d5587c}$ ,  $T_3 = \text{0328b5c9832aacb5348db1cb1d48a06a}$ ,  
 $T_4 = \text{81e8d54053428b4c7ed08f448884218e}$ ,  $T_5 = \text{6a8806bb10f883e07e0977c52f557c02}$ ,  
 $T_6 = \text{6605778fc460741b0a75cd79ab840245}$ ,  $T_7 = \text{15c6228377464ed8b2a0e777ffbfd451}$ ,  
 $T_8 = \text{39268b25ba636430a1fb2b932a9012c1}$ ,  $T_9 = \text{45e0675a77af12bd3ae8cf2b8bc3d921}$ ;  
 $l = 045$ :  
 $S_1 = \text{3ec34c99a98938c02bcabd66704397586}$ ,  $S_2 = \text{e4e09eb6d7aaa462d432527b3336cfb47}$ ,  
 $T_0 = \text{23a3eb508133dd22fffe28e237a670cd}$ ,  $T_1 = \text{5c2153778259319afbcbcd46d2b2344b4}$ ,  
 $T_2 = \text{24a926ef356343029d6801fa419dc19d}$ ,  $T_3 = \text{03d15c9c8e10594de11b1fd0e3d5587c}$ ,  
 $T_4 = \text{0328b5c9832aacb5348db1cb1d48a06a}$ ,  $T_5 = \text{c0ac21d9fccbc40caa9c65ab8cbd9714}$ ,  
 $T_6 = \text{6a8806bb10f883e07e0977c52f557c02}$ ,  $T_7 = \text{6605778fc460741b0a75cd79ab840245}$ ,  
 $T_8 = \text{15c6228377464ed8b2a0e777ffbfd451}$ ,  $T_9 = \text{39268b25ba636430a1fb2b932a9012c1}$ ;  
 $l = 046$ :  
 $S_1 = \text{99e6b1042fafa3de24a6a59f72c1eb97}$ ,  $S_2 = \text{27fecdd56168afad8b7e9798f4257ff52}$ ,  
 $T_0 = \text{c1e57e5a463adeb6dc901f2eb519eae9}$ ,  $T_1 = \text{23a3eb508133dd22fffe28e237a670cd}$ ,  
 $T_2 = \text{5c2153778259319afbcbcd46d2b2344b4}$ ,  $T_3 = \text{24a926ef356343029d6801fa419dc19d}$ ,  
 $T_4 = \text{03d15c9c8e10594de11b1fd0e3d5587c}$ ,  $T_5 = \text{9d0f66cdb2da90935934576a900a8c01}$ ,  
 $T_6 = \text{c0ac21d9fccbc40caa9c65ab8cbd9714}$ ,  $T_7 = \text{6a8806bb10f883e07e0977c52f557c02}$ ,  
 $T_8 = \text{6605778fc460741b0a75cd79ab840245}$ ,  $T_9 = \text{15c6228377464ed8b2a0e777ffbfd451}$ ;  
 $l = 047$ :  
 $S_1 = \text{ab9ededf5b06a72b7492ca9bfa56c818}$ ,  $S_2 = \text{408720cda8c02660ddd64d3fff063239c}$ ,

$T_0 = ec25ffad03c6cd8c526917dbeab9ebb4$ ,  $T_1 = c1e57e5a463adeb6dc901f2eb519eae9$ ,  
 $T_2 = 23a3eb508133dd22fffe28e237a670cd$ ,  $T_3 = 5c2153778259319afbbcd46d2b2344b4$ ,  
 $T_4 = 24a926ef356343029d6801fa419dc19d$ ,  $T_5 = af703b7be917007955adea6cde2c2094$ ,  
 $T_6 = 9d0f66cdb2da90935934576a900a8c01$ ,  $T_7 = c0ac21d9fccbc40caa9c65ab8cbd9714$ ,  
 $T_8 = 6a8806bb10f883e07e0977c52f557c02$ ,  $T_9 = 6605778fc460741b0a75cd79ab840245$ ;  
 $l = 048$ :  
 $S_1 = ff0798094e0b813d9a3ff555e9cfcb82$ ,  $S_2 = a9bdc51cdc64d3e48e29132f1d3d5637$ ,  
 $T_0 = a8c55d262a70552228690885070d21b9$ ,  $T_1 = ec25ffad03c6cd8c526917dbeab9ebb4$ ,  
 $T_2 = c1e57e5a463adeb6dc901f2eb519eae9$ ,  $T_3 = 23a3eb508133dd22fffe28e237a670cd$ ,  
 $T_4 = 5c2153778259319afbbcd46d2b2344b4$ ,  $T_5 = 23b0bef8836ec44037a7f7502b6d8d1f$ ,  
 $T_6 = af703b7be917007955adea6cde2c2094$ ,  $T_7 = 9d0f66cdb2da90935934576a900a8c01$ ,  
 $T_8 = c0ac21d9fccbc40caa9c65ab8cbd9714$ ,  $T_9 = 6a8806bb10f883e07e0977c52f557c02$ ;  
 $l = 049$ :  
 $S_1 = a413be35d2374fd59ba1b68ff7c15060$ ,  $S_2 = 591f6f5c63d1008b8ddce70d45ced7a7$ ,  
 $T_0 = fd332d9236085061297e9d9d3d902807$ ,  $T_1 = a8c55d262a70552228690885070d21b9$ ,  
 $T_2 = ec25ffad03c6cd8c526917dbeab9ebb4$ ,  $T_3 = c1e57e5a463adeb6dc901f2eb519eae9$ ,  
 $T_4 = 23a3eb508133dd22fffe28e237a670cd$ ,  $T_5 = 003511ad54908170975e8afd22e49514$ ,  
 $T_6 = 23b0bef8836ec44037a7f7502b6d8d1f$ ,  $T_7 = af703b7be917007955adea6cde2c2094$ ,  
 $T_8 = 9d0f66cdb2da90935934576a900a8c01$ ,  $T_9 = c0ac21d9fccbc40caa9c65ab8cbd9714$ ;  
 $l = 050$ :  
 $S_1 = 40fae683d97f22dff82034db98e03637$ ,  $S_2 = 0e3740a33f27069a9625f31b4c72cfea$ ,  
 $T_0 = 4f32272718a6297a8e4627f6e5530621$ ,  $T_1 = fd332d9236085061297e9d9d3d902807$ ,  
 $T_2 = a8c55d262a70552228690885070d21b9$ ,  $T_3 = ec25ffad03c6cd8c526917dbeab9ebb4$ ,  
 $T_4 = c1e57e5a463adeb6dc901f2eb519eae9$ ,  $T_5 = 649ed1d45ab30002f81e5dbdd086a704$ ,  
 $T_6 = 003511ad54908170975e8afd22e49514$ ,  $T_7 = 23b0bef8836ec44037a7f7502b6d8d1f$ ,  
 $T_8 = af703b7be917007955adea6cde2c2094$ ,  $T_9 = 9d0f66cdb2da90935934576a900a8c01$ ;  
 $l = 051$ :  
 $S_1 = 2020117480b952e829467d13a7cc9ee6$ ,  $S_2 = fe50728d174b5edad79930fe8c0b7ef1$ ,  
 $T_0 = 1e7084019804b1c300dfae1233d81dd7$ ,  $T_1 = 4f32272718a6297a8e4627f6e5530621$ ,  
 $T_2 = fd332d9236085061297e9d9d3d902807$ ,  $T_3 = a8c55d262a70552228690885070d21b9$ ,  
 $T_4 = ec25ffad03c6cd8c526917dbeab9ebb4$ ,  $T_5 = e2058fcec6f4319f05d69c425ce689cf$ ,  
 $T_6 = 649ed1d45ab30002f81e5dbdd086a704$ ,  $T_7 = 003511ad54908170975e8afd22e49514$ ,  
 $T_8 = 23b0bef8836ec44037a7f7502b6d8d1f$ ,  $T_9 = af703b7be917007955adea6cde2c2094$ ;  
 $l = 052$ :  
 $S_1 = 63286814147b18d1c5f60e810c8abf63$ ,  $S_2 = e7af89c15d265fd6a7dd7fb0d4a20cd3$ ,  
 $T_0 = 4ad7f1d571a178a86dd38e31e12ccc36$ ,  $T_1 = 1e7084019804b1c300dfae1233d81dd7$ ,  
 $T_2 = 4f32272718a6297a8e4627f6e5530621$ ,  $T_3 = fd332d9236085061297e9d9d3d902807$ ,  
 $T_4 = a8c55d262a70552228690885070d21b9$ ,  $T_5 = 4f4e67c11841e65e185f265cf744ab17$ ,  
 $T_6 = e2058fcec6f4319f05d69c425ce689cf$ ,  $T_7 = 649ed1d45ab30002f81e5dbdd086a704$ ,  
 $T_8 = 003511ad54908170975e8afd22e49514$ ,  $T_9 = 23b0bef8836ec44037a7f7502b6d8d1f$ ;  
 $l = 053$ :  
 $S_1 = bd365fb9a9376229eedd8dcb68166224$ ,  $S_2 = 11e719d7c535e8bff88ee4a23310eda6$ ,  
 $T_0 = cf1d79916e6d4ae9e76c726d9b274fca$ ,  $T_1 = 4ad7f1d571a178a86dd38e31e12ccc36$ ,  
 $T_2 = 1e7084019804b1c300dfae1233d81dd7$ ,  $T_3 = 4f32272718a6297a8e4627f6e5530621$ ,  
 $T_4 = fd332d9236085061297e9d9d3d902807$ ,  $T_5 = 65fbbcdfd3a7b74c174696506f2383dd$ ,  
 $T_6 = 4f4e67c11841e65e185f265cf744ab17$ ,  $T_7 = e2058fcec6f4319f05d69c425ce689cf$ ,  
 $T_8 = 649ed1d45ab30002f81e5dbdd086a704$ ,  $T_9 = 003511ad54908170975e8afd22e49514$ ;  
 $l = 054$ :  
 $S_1 = 1457d3c650c4898c808457b2e7919eba$ ,  $S_2 = 7daad7fa37cf0f1a27bbf5afa7608df6$ ,  
 $T_0 = 9202abc0889398a6a8404d628ef22cb0$ ,  $T_1 = cf1d79916e6d4ae9e76c726d9b274fca$ ,  
 $T_2 = 4ad7f1d571a178a86dd38e31e12ccc36$ ,  $T_3 = 1e7084019804b1c300dfae1233d81dd7$ ,  
 $T_4 = 4f32272718a6297a8e4627f6e5530621$ ,  $T_5 = 118b015886ccd9edaa02f5502521c6c1$ ,

$T_6 = 65fbbcdfd3a7b74c174696506f2383dd$ ,  $T_7 = 4f4e67c11841e65e185f265cf744ab17$ ,  
 $T_8 = e2058fcec6f4319f05d69c425ce689cf$ ,  $T_9 = 649ed1d45ab30002f81e5dbdd086a704$ ;  
 $l = 055$ :  
 $S_1 = 9b1c9b5a20dcf168e55cb308160d4cee$ ,  $S_2 = f42dee73755f33e697845d77a18d4417$ ,  
 $T_0 = 8f4a89cd963c254f7ce1107fb79a9105$ ,  $T_1 = 9202abc0889398a6a8404d628ef22cb0$ ,  
 $T_2 = cf1d79916e6d4ae9e76c726d9b274fca$ ,  $T_3 = 4ad7f1d571a178a86dd38e31e12ccc36$ ,  
 $T_4 = 1e7084019804b1c300dfae1233d81dd7$ ,  $T_5 = ea4ec28139831ae373a2dafefb60530f$ ,  
 $T_6 = 118b015886ccd9edaa02f5502521c6c1$ ,  $T_7 = 65fbbcdfd3a7b74c174696506f2383dd$ ,  
 $T_8 = 4f4e67c11841e65e185f265cf744ab17$ ,  $T_9 = e2058fcec6f4319f05d69c425ce689cf$ ;  
 $l = 056$ :  
 $S_1 = a114fccacfc69d777bf139a2909a3ce5$ ,  $S_2 = a9497c11dc1969ef0365b8db16520956$ ,  
 $T_0 = 4a5e78dcabe007667f56f27da6ec463b$ ,  $T_1 = 8f4a89cd963c254f7ce1107fb79a9105$ ,  
 $T_2 = 9202abc0889398a6a8404d628ef22cb0$ ,  $T_3 = cf1d79916e6d4ae9e76c726d9b274fca$ ,  
 $T_4 = 4ad7f1d571a178a86dd38e31e12ccc36$ ,  $T_5 = bf8580cc67cb4f3a7cd0e7b4c4725abc$ ,  
 $T_6 = ea4ec28139831ae373a2dafefb60530f$ ,  $T_7 = 118b015886ccd9edaa02f5502521c6c1$ ,  
 $T_8 = 65fbbcdfd3a7b74c174696506f2383dd$ ,  $T_9 = 4f4e67c11841e65e185f265cf744ab17$ ;  
 $l = 057$ :  
 $S_1 = e5669d88c3880843ea1dc99c9ca85aad$ ,  $S_2 = 03c9c2bb672cc4bc2cecc6ed9bb52012$ ,  
 $T_0 = e93060442ab4cd00170a908a385d7abf$ ,  $T_1 = 4a5e78dcabe007667f56f27da6ec463b$ ,  
 $T_2 = 8f4a89cd963c254f7ce1107fb79a9105$ ,  $T_3 = 9202abc0889398a6a8404d628ef22cb0$ ,  
 $T_4 = cf1d79916e6d4ae9e76c726d9b274fca$ ,  $T_5 = 303e8f5e352980ec57f157ce7dd526e3$ ,  
 $T_6 = bf8580cc67cb4f3a7cd0e7b4c4725abc$ ,  $T_7 = ea4ec28139831ae373a2dafefb60530f$ ,  
 $T_8 = 118b015886ccd9edaa02f5502521c6c1$ ,  $T_9 = 65fbbcdfd3a7b74c174696506f2383dd$ ;  
 $l = 058$ :  
 $S_1 = d3220d23cbd2883138b18ae32e90d4a8$ ,  $S_2 = 475a6055055fdcc125ab8916eab6b110$ ,  
 $T_0 = 1a7c6d78d13264f25e5d13fa194785b8$ ,  $T_1 = e93060442ab4cd00170a908a385d7abf$ ,  
 $T_2 = 4a5e78dcabe007667f56f27da6ec463b$ ,  $T_3 = 8f4a89cd963c254f7ce1107fb79a9105$ ,  
 $T_4 = 9202abc0889398a6a8404d628ef22cb0$ ,  $T_5 = a23f86b53a3fd31b201dfd50c9b82472$ ,  
 $T_6 = 303e8f5e352980ec57f157ce7dd526e3$ ,  $T_7 = bf8580cc67cb4f3a7cd0e7b4c4725abc$ ,  
 $T_8 = ea4ec28139831ae373a2dafefb60530f$ ,  $T_9 = 118b015886ccd9edaa02f5502521c6c1$ ;  
 $l = 059$ :  
 $S_1 = fa360a552eadf10d9a0a0de08e682e84$ ,  $S_2 = 0ce96a0cc6aa86fa0a1de372f57bb5d8$ ,  
 $T_0 = 071f7461f5587807a427f15383e3e45c$ ,  $T_1 = 1a7c6d78d13264f25e5d13fa194785b8$ ,  
 $T_2 = e93060442ab4cd00170a908a385d7abf$ ,  $T_3 = 4a5e78dcabe007667f56f27da6ec463b$ ,  
 $T_4 = 8f4a89cd963c254f7ce1107fb79a9105$ ,  $T_5 = 8c38b615b74189b4424a5b431d5a5b34$ ,  
 $T_6 = a23f86b53a3fd31b201dfd50c9b82472$ ,  $T_7 = 303e8f5e352980ec57f157ce7dd526e3$ ,  
 $T_8 = bf8580cc67cb4f3a7cd0e7b4c4725abc$ ,  $T_9 = ea4ec28139831ae373a2dafefb60530f$ ;  
 $l = 060$ :  
 $S_1 = 0f0977f1b729ceb55556efa3c4bc35cc$ ,  $S_2 = 297ca425af2dc66438b7a7f2416ce5d8$ ,  
 $T_0 = 38861c17665795198e0e979606291ba4$ ,  $T_1 = 071f7461f5587807a427f15383e3e45c$ ,  
 $T_2 = 1a7c6d78d13264f25e5d13fa194785b8$ ,  $T_3 = e93060442ab4cd00170a908a385d7abf$ ,  
 $T_4 = 4a5e78dcabe007667f56f27da6ec463b$ ,  $T_5 = 9e5401bf4d65f404d23800237c56c6d1$ ,  
 $T_6 = 8c38b615b74189b4424a5b431d5a5b34$ ,  $T_7 = a23f86b53a3fd31b201dfd50c9b82472$ ,  
 $T_8 = 303e8f5e352980ec57f157ce7dd526e3$ ,  $T_9 = bf8580cc67cb4f3a7cd0e7b4c4725abc$ ;  
 $l = 061$ :  
 $S_1 = ef8d078f1390609a807f9f308f0bafa7$ ,  $S_2 = e1335d101fbd9b47cd58a82220b4b084$ ,  
 $T_0 = d0c0649f334dfbe24dd84752afc0602b$ ,  $T_1 = 38861c17665795198e0e979606291ba4$ ,  
 $T_2 = 071f7461f5587807a427f15383e3e45c$ ,  $T_3 = 1a7c6d78d13264f25e5d13fa194785b8$ ,  
 $T_4 = e93060442ab4cd00170a908a385d7abf$ ,  $T_5 = 39eb806bbf706800ffd691ae35f7f5e2$ ,  
 $T_6 = 9e5401bf4d65f404d23800237c56c6d1$ ,  $T_7 = 8c38b615b74189b4424a5b431d5a5b34$ ,  
 $T_8 = a23f86b53a3fd31b201dfd50c9b82472$ ,  $T_9 = 303e8f5e352980ec57f157ce7dd526e3$ ;  
 $l = 062$ :

$S_1 = 989f457ee69e31b2734b1ced05c5860c$ ,  $S_2 = dfe0f3ad2ec636bf417a10f55da7fe33$ ,  
 $T_0 = 7880392c15646871b4c52de2636d843f$ ,  $T_1 = d0c0649f334dfbe24dd84752afc0602b$ ,  
 $T_2 = 38861c17665795198e0e979606291ba4$ ,  $T_3 = 071f7461f5587807a427f15383e3e45c$ ,  
 $T_4 = 1a7c6d78d13264f25e5d13fa194785b8$ ,  $T_5 = 81cfa5c31152feb28a55ad773e2300cb$ ,  
 $T_6 = 39eb806bbf706800ffd691ae35f7f5e2$ ,  $T_7 = 9e5401bf4d65f404d23800237c56c6d1$ ,  
 $T_8 = 8c38b615b74189b4424a5b431d5a5b34$ ,  $T_9 = a23f86b53a3fd31b201dfd50c9b82472$ ;  
 $l = 063$ :  
 $S_1 = 3e6a7fcb1e9f9aa214b1f791d38d4a88$ ,  $S_2 = be585090e56ec0365279e4cb38a8960a$ ,  
 $T_0 = fcc2d05c040e5ad8672bdc5d0c35e092$ ,  $T_1 = 7880392c15646871b4c52de2636d843f$ ,  
 $T_2 = d0c0649f334dfbe24dd84752afc0602b$ ,  $T_3 = 38861c17665795198e0e979606291ba4$ ,  
 $T_4 = 071f7461f5587807a427f15383e3e45c$ ,  $T_5 = 58e6ed43efd1ff94730f0b8becd4d040$ ,  
 $T_6 = 81cfa5c31152feb28a55ad773e2300cb$ ,  $T_7 = 39eb806bbf706800ffd691ae35f7f5e2$ ,  
 $T_8 = 9e5401bf4d65f404d23800237c56c6d1$ ,  $T_9 = 8c38b615b74189b4424a5b431d5a5b34$ ;  
 $l = 064$ :  
 $S_1 = 9e2bdc46a20f64495df063c335e5fa13$ ,  $S_2 = 96d7e7b97309d360c67c728884613d5c$ ,  
 $T_0 = 3503c400151937aa246cd64bba47376f$ ,  $T_1 = fcc2d05c040e5ad8672bdc5d0c35e092$ ,  
 $T_2 = 7880392c15646871b4c52de2636d843f$ ,  $T_3 = d0c0649f334dfbe24dd84752afc0602b$ ,  
 $T_4 = 38861c17665795198e0e979606291ba4$ ,  $T_5 = a54b50a89767dc5102185516b9c9de6f$ ,  
 $T_6 = 58e6ed43efd1ff94730f0b8becd4d040$ ,  $T_7 = 81cfa5c31152feb28a55ad773e2300cb$ ,  
 $T_8 = 39eb806bbf706800ffd691ae35f7f5e2$ ,  $T_9 = 9e5401bf4d65f404d23800237c56c6d1$ ;  
 $l = 065$ :  
 $S_1 = af769c3a9d1f57434a586f48545acc30$ ,  $S_2 = 232e5a530f5cc8f5bb3b4b703e38ebb8$ ,  
 $T_0 = d2a4f68dac7c20390593bab89293b7e8$ ,  $T_1 = 3503c400151937aa246cd64bba47376f$ ,  
 $T_2 = fcc2d05c040e5ad8672bdc5d0c35e092$ ,  $T_3 = 7880392c15646871b4c52de2636d843f$ ,  
 $T_4 = d0c0649f334dfbe24dd84752afc0602b$ ,  $T_5 = e7fcb8520376ec5cd86706de5a83e7d4$ ,  
 $T_6 = a54b50a89767dc5102185516b9c9de6f$ ,  $T_7 = 58e6ed43efd1ff94730f0b8becd4d040$ ,  
 $T_8 = 81cfa5c31152feb28a55ad773e2300cb$ ,  $T_9 = 39eb806bbf706800ffd691ae35f7f5e2$ ;  
 $l = 066$ :  
 $S_1 = 92dd5e2c42ef5c52151f28c3439480cd$ ,  $S_2 = 7a6d0301e90adb017fd0f866060e29a3$ ,  
 $T_0 = 0d4a612e2bfa375394f0212949a2aa70$ ,  $T_1 = d2a4f68dac7c20390593bab89293b7e8$ ,  
 $T_2 = 3503c400151937aa246cd64bba47376f$ ,  $T_3 = fcc2d05c040e5ad8672bdc5d0c35e092$ ,  
 $T_4 = 7880392c15646871b4c52de2636d843f$ ,  $T_5 = 639dc2cb763d583462f77015f354e0f8$ ,  
 $T_6 = e7fcb8520376ec5cd86706de5a83e7d4$ ,  $T_7 = a54b50a89767dc5102185516b9c9de6f$ ,  
 $T_8 = 58e6ed43efd1ff94730f0b8becd4d040$ ,  $T_9 = 81cfa5c31152feb28a55ad773e2300cb$ ;  
 $l = 067$ :  
 $S_1 = 02f627aa2861d1dc2de231f49ff162e6$ ,  $S_2 = 6ba93a893e1e1a4b5508061b25f45a33$ ,  
 $T_0 = 6e9f6233667fec2782ea380fc5e5bd19$ ,  $T_1 = 0d4a612e2bfa375394f0212949a2aa70$ ,  
 $T_2 = d2a4f68dac7c20390593bab89293b7e8$ ,  $T_3 = 3503c400151937aa246cd64bba47376f$ ,  
 $T_4 = fcc2d05c040e5ad8672bdc5d0c35e092$ ,  $T_5 = 7b7660d63dc63a4de2a75fd7035ee725$ ,  
 $T_6 = 639dc2cb763d583462f77015f354e0f8$ ,  $T_7 = e7fcb8520376ec5cd86706de5a83e7d4$ ,  
 $T_8 = a54b50a89767dc5102185516b9c9de6f$ ,  $T_9 = 58e6ed43efd1ff94730f0b8becd4d040$ ;  
 $l = 068$ :  
 $S_1 = e3f953c5c2834a0fba457c035a4d81ed$ ,  $S_2 = 99de08c4affbc0376c35f139b3dfc27a$ ,  
 $T_0 = 7dd75c8a727f0a47267b6d3d0e2d4467$ ,  $T_1 = 6e9f6233667fec2782ea380fc5e5bd19$ ,  
 $T_2 = 0d4a612e2bfa375394f0212949a2aa70$ ,  $T_3 = d2a4f68dac7c20390593bab89293b7e8$ ,  
 $T_4 = 3503c400151937aa246cd64bba47376f$ ,  $T_5 = e0bc2421c691a4e8217158606683627f$ ,  
 $T_6 = 7b7660d63dc63a4de2a75fd7035ee725$ ,  $T_7 = 639dc2cb763d583462f77015f354e0f8$ ,  
 $T_8 = e7fcb8520376ec5cd86706de5a83e7d4$ ,  $T_9 = a54b50a89767dc5102185516b9c9de6f$ ;  
 $l = 069$ :  
 $S_1 = 01a27c815fab96616cb5da6047bcb2a$ ,  $S_2 = b98da14a7c88b4ac4be1a550c75c5b6c$ ,  
 $T_0 = bb301dcdbc347e1262ad02f6cbd82696$ ,  $T_1 = 7dd75c8a727f0a47267b6d3d0e2d4467$ ,  
 $T_2 = 6e9f6233667fec2782ea380fc5e5bd19$ ,  $T_3 = 0d4a612e2bfa375394f0212949a2aa70$ ,

$T_4 = d2a4f68dac7c20390593bab89293b7e8$ ,  $T_5 = 36a6408174c501103b3833f1bec30299$ ,  
 $T_6 = e0bc2421c691a4e8217158606683627f$ ,  $T_7 = 7b7660d63dc63a4de2a75fd7035ee725$ ,  
 $T_8 = 639dc2cb763d583462f77015f354e0f8$ ,  $T_9 = e7fcb8520376ec5cd86706de5a83e7d4$ ;  
 $l = 070$ :  
 $S_1 = ee09f864d5bffcc34b06fc416699b4f3$ ,  $S_2 = db968a568b23d68f2976ad3da0fdc445$ ,  
 $T_0 = c9a082bb60e3d352747da97f07977938$ ,  $T_1 = bb301dcbdc347e1262ad02f6cbd82696$ ,  
 $T_2 = 7dd75c8a727f0a47267b6d3d0e2d4467$ ,  $T_3 = 6e9f6233667fec2782ea380fc5e5bd19$ ,  
 $T_4 = 0d4a612e2bfa375394f0212949a2aa70$ ,  $T_5 = c0aeef2823c1cfc509ab6f9f92d6cdb$ ,  
 $T_6 = 36a6408174c501103b3833f1bec30299$ ,  $T_7 = e0bc2421c691a4e8217158606683627f$ ,  
 $T_8 = 7b7660d63dc63a4de2a75fd7035ee725$ ,  $T_9 = 639dc2cb763d583462f77015f354e0f8$ ;  
 $l = 071$ :  
 $S_1 = c15d67479534b3a7980744df826a0f33$ ,  $S_2 = a2047c56625cdbca78548800622a74c1$ ,  
 $T_0 = 6361e39df7918f72105bccdfe49483f4$ ,  $T_1 = c9a082bb60e3d352747da97f07977938$ ,  
 $T_2 = bb301dcbdc347e1262ad02f6cbd82696$ ,  $T_3 = 7dd75c8a727f0a47267b6d3d0e2d4467$ ,  
 $T_4 = 6e9f6233667fec2782ea380fc5e5bd19$ ,  $T_5 = cea7c875c12eeafb2cf76608cc0cb9a3$ ,  
 $T_6 = c0aeef2823c1cfc509ab6f9f92d6cdb$ ,  $T_7 = 36a6408174c501103b3833f1bec30299$ ,  
 $T_8 = e0bc2421c691a4e8217158606683627f$ ,  $T_9 = 7b7660d63dc63a4de2a75fd7035ee725$ ;  
 $l = 072$ :  
 $S_1 = ca7de33ae338f8c2d134338b1e3e97f2$ ,  $S_2 = 8ab0c9d1676d27eda3e489c41d1d2845$ ,  
 $T_0 = 552ead0c4aa620b07518bd4f3b5bc037$ ,  $T_1 = 6361e39df7918f72105bccdfe49483f4$ ,  
 $T_2 = c9a082bb60e3d352747da97f07977938$ ,  $T_3 = bb301dcbdc347e1262ad02f6cbd82696$ ,  
 $T_4 = 7dd75c8a727f0a47267b6d3d0e2d4467$ ,  $T_5 = 391d456e49b8e4ea541e6b9ae424550b$ ,  
 $T_6 = cea7c875c12eeafb2cf76608cc0cb9a3$ ,  $T_7 = c0aeef2823c1cfc509ab6f9f92d6cdb$ ,  
 $T_8 = 36a6408174c501103b3833f1bec30299$ ,  $T_9 = e0bc2421c691a4e8217158606683627f$ ;  
 $l = 073$ :  
 $S_1 = 34ccda82a08eae790f07a9e4a61e95a1$ ,  $S_2 = 6185fb8de27c4679c063ff02fcf9a786$ ,  
 $T_0 = 9652d610830af4f2cf6ba8e7a3183d27$ ,  $T_1 = 552ead0c4aa620b07518bd4f3b5bc037$ ,  
 $T_2 = 6361e39df7918f72105bccdfe49483f4$ ,  $T_3 = c9a082bb60e3d352747da97f07977938$ ,  
 $T_4 = bb301dcbdc347e1262ad02f6cbd82696$ ,  $T_5 = b2a4370d130db8c035831721b44bda08$ ,  
 $T_6 = 391d456e49b8e4ea541e6b9ae424550b$ ,  $T_7 = cea7c875c12eeafb2cf76608cc0cb9a3$ ,  
 $T_8 = c0aeef2823c1cfc509ab6f9f92d6cdb$ ,  $T_9 = 36a6408174c501103b3833f1bec30299$ ;  
 $l = 074$ :  
 $S_1 = 97bb7b9fe414140e2a4fd9db138c87e3$ ,  $S_2 = 365a0267a2f0fee2d2f5d30c2c105db2$ ,  
 $T_0 = ce157e07870512f0fd45ace73f9ce595$ ,  $T_1 = 9652d610830af4f2cf6ba8e7a3183d27$ ,  
 $T_2 = 552ead0c4aa620b07518bd4f3b5bc037$ ,  $T_3 = 6361e39df7918f72105bccdfe49483f4$ ,  
 $T_4 = c9a082bb60e3d352747da97f07977938$ ,  $T_5 = 52eb996bc04892208cfcdd1df64ae79$ ,  
 $T_6 = b2a4370d130db8c035831721b44bda08$ ,  $T_7 = 391d456e49b8e4ea541e6b9ae424550b$ ,  
 $T_8 = cea7c875c12eeafb2cf76608cc0cb9a3$ ,  $T_9 = c0aeef2823c1cfc509ab6f9f92d6cdb$ ;  
 $l = 075$ :  
 $S_1 = b73c47bd49b017148764c05764681bb4$ ,  $S_2 = 811ab925c04a36331006b7511adbcbac$ ,  
 $T_0 = 385700e309fa4d47976b77a87f43e760$ ,  $T_1 = ce157e07870512f0fd45ace73f9ce595$ ,  
 $T_2 = 9652d610830af4f2cf6ba8e7a3183d27$ ,  $T_3 = 552ead0c4aa620b07518bd4f3b5bc037$ ,  
 $T_4 = 6361e39df7918f72105bccdfe49483f4$ ,  $T_5 = 80dcca78aa93ea66fbe269d66bfff94ec$ ,  
 $T_6 = 52eb996bc04892208cfcdd1df64ae79$ ,  $T_7 = b2a4370d130db8c035831721b44bda08$ ,  
 $T_8 = 391d456e49b8e4ea541e6b9ae424550b$ ,  $T_9 = cea7c875c12eeafb2cf76608cc0cb9a3$ ;  
 $l = 076$ :  
 $S_1 = 12bd649b1c3c3f6b397e7c78b4d35a58$ ,  $S_2 = 12f96f5792798144cc5eec6bf0203748$ ,  
 $T_0 = 25b6d3f2aeb5c0b005dd68e4a4f391a0$ ,  $T_1 = 385700e309fa4d47976b77a87f43e760$ ,  
 $T_2 = ce157e07870512f0fd45ace73f9ce595$ ,  $T_3 = 9652d610830af4f2cf6ba8e7a3183d27$ ,  
 $T_4 = 552ead0c4aa620b07518bd4f3b5bc037$ ,  $T_5 = 761f483913cdcedd49da49589967de4c$ ,  
 $T_6 = 80dcca78aa93ea66fbe269d66bfff94ec$ ,  $T_7 = 52eb996bc04892208cfcdd1df64ae79$ ,  
 $T_8 = b2a4370d130db8c035831721b44bda08$ ,  $T_9 = 391d456e49b8e4ea541e6b9ae424550b$ ;



$l = 077:$   
 $S_1 = 3c3d933f8fa7c11037a6a2d898397b2a, S_2 = fe10ac84cb487125ef489bb1e8161333,$   
 $T_0 = 3a4e3fc45af0323626ef3e8a804f8e5d, T_1 = 25b6d3f2aeb5c0b005dd68e4a4f391a0,$   
 $T_2 = 385700e309fa4d47976b77a87f43e760, T_3 = ce157e07870512f0fd45ace73f9ce595,$   
 $T_4 = 9652d610830af4f2cf6ba8e7a3183d27, T_5 = 916c404bda4de1c0acbf6027d3953b61,$   
 $T_6 = 761f483913cdcedd49da49589967de4c, T_7 = 80dcca78aa93ea66fbe269d66bfff94ec,$   
 $T_8 = 52eb996bc04892208cfcddcd1df64ae79, T_9 = b2a4370d130db8c035831721b44bda08;$

$l = 078:$   
 $S_1 = 5f2bfd4ecc38319504c934344600452d, S_2 = 1970756a03cfea95540096fcc1a983e9,$   
 $T_0 = 789c72b8d0081c2a58c9cb3107a9c916, T_1 = 3a4e3fc45af0323626ef3e8a804f8e5d,$   
 $T_2 = 25b6d3f2aeb5c0b005dd68e4a4f391a0, T_3 = 385700e309fa4d47976b77a87f43e760,$   
 $T_4 = ce157e07870512f0fd45ace73f9ce595, T_5 = f57ed35f4f432687d434dd1be9188254,$   
 $T_6 = 916c404bda4de1c0acbf6027d3953b61, T_7 = 761f483913cdcedd49da49589967de4c,$   
 $T_8 = 80dcca78aa93ea66fbe269d66bfff94ec, T_9 = 52eb996bc04892208cfcddcd1df64ae79;$

$l = 079:$   
 $S_1 = fa6ffffb5f8128c423fda0e55f42e5cd2, S_2 = c6247be190a42dacc0afb0b3068daa78,$   
 $T_0 = c0947b9788b6b9ef0089bf08fabc074a, T_1 = 789c72b8d0081c2a58c9cb3107a9c916,$   
 $T_2 = 3a4e3fc45af0323626ef3e8a804f8e5d, T_3 = 25b6d3f2aeb5c0b005dd68e4a4f391a0,$   
 $T_4 = 385700e309fa4d47976b77a87f43e760, T_5 = c8857dbd7f179f333d1fbb3d33cb4267,$   
 $T_6 = f57ed35f4f432687d434dd1be9188254, T_7 = 916c404bda4de1c0acbf6027d3953b61,$   
 $T_8 = 761f483913cdcedd49da49589967de4c, T_9 = 80dcca78aa93ea66fbe269d66bfff94ec;$

$l = 080:$   
 $S_1 = 675c31c228da4994ca218e3b5a7480b9, S_2 = 13cb52626475fe756bf1a1fcf896706d,$   
 $T_0 = 7b2784248d50480a36133038530af126, T_1 = c0947b9788b6b9ef0089bf08fabc074a,$   
 $T_2 = 789c72b8d0081c2a58c9cb3107a9c916, T_3 = 3a4e3fc45af0323626ef3e8a804f8e5d,$   
 $T_4 = 25b6d3f2aeb5c0b005dd68e4a4f391a0, T_5 = 9fb332a532d496dc618d05e3d9b86819,$   
 $T_6 = c8857dbd7f179f333d1fbb3d33cb4267, T_7 = f57ed35f4f432687d434dd1be9188254,$   
 $T_8 = 916c404bda4de1c0acbf6027d3953b61, T_9 = 761f483913cdcedd49da49589967de4c;$

$l = 081:$   
 $S_1 = 03574cdf82a794543cc98caeaabbbf6a, S_2 = a71439738a7d07e09810bd7daba8fa47,$   
 $T_0 = aa6b86530d249c34d4da4a2c5654b9b1, T_1 = 7b2784248d50480a36133038530af126,$   
 $T_2 = c0947b9788b6b9ef0089bf08fabc074a, T_3 = 789c72b8d0081c2a58c9cb3107a9c916,$   
 $T_4 = 3a4e3fc45af0323626ef3e8a804f8e5d, T_5 = 290e20d2315d550442a6f5934f9f510a,$   
 $T_6 = 9fb332a532d496dc618d05e3d9b86819, T_7 = c8857dbd7f179f333d1fbb3d33cb4267,$   
 $T_8 = f57ed35f4f432687d434dd1be9188254, T_9 = 916c404bda4de1c0acbf6027d3953b61;$

$l = 082:$   
 $S_1 = 682b5b26b8c85ae882d4212d8fddce25, S_2 = 1256e40d52ba8137690a7638e35ddc19,$   
 $T_0 = 7a823f340b82dc1febde9766733baa3e, T_1 = aa6b86530d249c34d4da4a2c5654b9b1,$   
 $T_2 = 7b2784248d50480a36133038530af126, T_3 = c0947b9788b6b9ef0089bf08fabc074a,$   
 $T_4 = 789c72b8d0081c2a58c9cb3107a9c916, T_5 = a2799aeb13b88d1ea9c35fb8102d5c82,$   
 $T_6 = 290e20d2315d550442a6f5934f9f510a, T_7 = 9fb332a532d496dc618d05e3d9b86819,$   
 $T_8 = c8857dbd7f179f333d1fbb3d33cb4267, T_9 = f57ed35f4f432687d434dd1be9188254;$

$l = 083:$   
 $S_1 = 4de9acc2e3c4dae859bc2d380e32b007, S_2 = 4d06fb6795c797bccf3941512d4e3e43,$   
 $T_0 = 9af0a82a798c72a528f56e893b80ee4a, T_1 = 7a823f340b82dc1febde9766733baa3e,$   
 $T_2 = aa6b86530d249c34d4da4a2c5654b9b1, T_3 = 7b2784248d50480a36133038530af126,$   
 $T_4 = c0947b9788b6b9ef0089bf08fabc074a, T_5 = c6861f7bb3ccf712b285f86915dc791d,$   
 $T_6 = a2799aeb13b88d1ea9c35fb8102d5c82, T_7 = 290e20d2315d550442a6f5934f9f510a,$   
 $T_8 = 9fb332a532d496dc618d05e3d9b86819, T_9 = c8857dbd7f179f333d1fbb3d33cb4267;$

$l = 084:$   
 $S_1 = 88fb4c4623985a28e5e4bd9a055ee096, S_2 = 01da91f1ea2733c268c0d2a70d00321f,$   
 $T_0 = 8ad5de380dbf8deb4ea59041125f12b5, T_1 = 9af0a82a798c72a528f56e893b80ee4a,$

$T_2 = 7a823f340b82dc1febde9766733baa3e$ ,  $T_3 = aa6b86530d249c34d4da4a2c5654b9b1$ ,  
 $T_4 = 7b2784248d50480a36133038530af126$ ,  $T_5 = 498fc7ddac4f1417e66e7ca3001ae7e0$ ,  
 $T_6 = c6861f7bb3ccf712b285f86915dc791d$ ,  $T_7 = a2799aeb13b88d1ea9c35fb8102d5c82$ ,  
 $T_8 = 290e20d2315d550442a6f5934f9f510a$ ,  $T_9 = 9fb332a532d496dc618d05e3d9b86819$ ;  
 $l = 085$ :  
 $S_1 = d75a36d06cb16b1672e36411d63109dd$ ,  $S_2 = 942879f6126903a68a3579c125eee2ed$ ,  
 $T_0 = 6b82b0c67f1a6ebcfd18ddd2fc1fecca$ ,  $T_1 = 8ad5de380dbf8deb4ea59041125f12b5$ ,  
 $T_2 = 9af0a82a798c72a528f56e893b80ee4a$ ,  $T_3 = 7a823f340b82dc1febde9766733baa3e$ ,  
 $T_4 = aa6b86530d249c34d4da4a2c5654b9b1$ ,  $T_5 = 5281baf4fa01b320a8f6944a293bfb03$ ,  
 $T_6 = 498fc7ddac4f1417e66e7ca3001ae7e0$ ,  $T_7 = c6861f7bb3ccf712b285f86915dc791d$ ,  
 $T_8 = a2799aeb13b88d1ea9c35fb8102d5c82$ ,  $T_9 = 290e20d2315d550442a6f5934f9f510a$ ;  
 $l = 086$ :  
 $S_1 = 6b1019e1aa09267c2c494bc59671f912$ ,  $S_2 = 77e0b10f0f85be4bc68f4953dc411ae8$ ,  
 $T_0 = e2f0caf0b98ee4c7f2d8951972b313fa$ ,  $T_1 = 6b82b0c67f1a6ebcfd18ddd2fc1fecca$ ,  
 $T_2 = 8ad5de380dbf8deb4ea59041125f12b5$ ,  $T_3 = 9af0a82a798c72a528f56e893b80ee4a$ ,  
 $T_4 = 7a823f340b82dc1febde9766733baa3e$ ,  $T_5 = 157ba034b72dc2b1012395f1ecc6b2c3$ ,  
 $T_6 = 5281baf4fa01b320a8f6944a293bfb03$ ,  $T_7 = 498fc7ddac4f1417e66e7ca3001ae7e0$ ,  
 $T_8 = c6861f7bb3ccf712b285f86915dc791d$ ,  $T_9 = a2799aeb13b88d1ea9c35fb8102d5c82$ ;  
 $l = 087$ :  
 $S_1 = 76dbd7ad644510d8da25da04ee52fb97$ ,  $S_2 = d8fd30a670b1d394f89ee8916c632506$ ,  
 $T_0 = 4fd90853d4f6e46dd2c4c2965ab6209d$ ,  $T_1 = e2f0caf0b98ee4c7f2d8951972b313fa$ ,  
 $T_2 = 6b82b0c67f1a6ebcfd18ddd2fc1fecca$ ,  $T_3 = 8ad5de380dbf8deb4ea59041125f12b5$ ,  
 $T_4 = 9af0a82a798c72a528f56e893b80ee4a$ ,  $T_5 = f15e16e16fc7ecf8c604716b618ea5d5$ ,  
 $T_6 = 157ba034b72dc2b1012395f1ecc6b2c3$ ,  $T_7 = 5281baf4fa01b320a8f6944a293bfb03$ ,  
 $T_8 = 498fc7ddac4f1417e66e7ca3001ae7e0$ ,  $T_9 = c6861f7bb3ccf712b285f86915dc791d$ ;  
 $l = 088$ :  
 $S_1 = 36e79a4545f54834376b6d319a9a21b7$ ,  $S_2 = c8b4a0101b92bbf780d5924fbecb7417$ ,  
 $T_0 = ff9c3a556188042bb840ff81596595ce$ ,  $T_1 = 4fd90853d4f6e46dd2c4c2965ab6209d$ ,  
 $T_2 = e2f0caf0b98ee4c7f2d8951972b313fa$ ,  $T_3 = 6b82b0c67f1a6ebcfd18ddd2fc1fecca$ ,  
 $T_4 = 8ad5de380dbf8deb4ea59041125f12b5$ ,  $T_5 = d1d8426fbf81bad96060dbbad61b1001$ ,  
 $T_6 = f15e16e16fc7ecf8c604716b618ea5d5$ ,  $T_7 = 157ba034b72dc2b1012395f1ecc6b2c3$ ,  
 $T_8 = 5281baf4fa01b320a8f6944a293bfb03$ ,  $T_9 = 498fc7ddac4f1417e66e7ca3001ae7e0$ ;  
 $l = 089$ :  
 $S_1 = 8fdfc4ba1c041df5fe3f40f92afb09a5$ ,  $S_2 = 1ac6bd78014b81a59c35130bf34508f2$ ,  
 $T_0 = aaa682321d4f9f9b9a7454051e401297$ ,  $T_1 = ff9c3a556188042bb840ff81596595ce$ ,  
 $T_2 = 4fd90853d4f6e46dd2c4c2965ab6209d$ ,  $T_3 = e2f0caf0b98ee4c7f2d8951972b313fa$ ,  
 $T_4 = 6b82b0c67f1a6ebcfd18ddd2fc1fecca$ ,  $T_5 = 1ab5a2f229c3abe14ce4d13a3d5a1c5a$ ,  
 $T_6 = d1d8426fbf81bad96060dbbad61b1001$ ,  $T_7 = f15e16e16fc7ecf8c604716b618ea5d5$ ,  
 $T_8 = 157ba034b72dc2b1012395f1ecc6b2c3$ ,  $T_9 = 5281baf4fa01b320a8f6944a293bfb03$ ;  
 $l = 090$ :  
 $S_1 = c160e080ed1b7a60d02ea1b5b74ce42d$ ,  $S_2 = 56b651e98b960e284dd3beff04c16bbd$ ,  
 $T_0 = 1817326a78b188891e0260b4bc0e4fea$ ,  $T_1 = aaa682321d4f9f9b9a7454051e401297$ ,  
 $T_2 = ff9c3a556188042bb840ff81596595ce$ ,  $T_3 = 4fd90853d4f6e46dd2c4c2965ab6209d$ ,  
 $T_4 = e2f0caf0b98ee4c7f2d8951972b313fa$ ,  $T_5 = 2ce391476c35e91dcd477f88b36cd0f7$ ,  
 $T_6 = 1ab5a2f229c3abe14ce4d13a3d5a1c5a$ ,  $T_7 = d1d8426fbf81bad96060dbbad61b1001$ ,  
 $T_8 = f15e16e16fc7ecf8c604716b618ea5d5$ ,  $T_9 = 157ba034b72dc2b1012395f1ecc6b2c3$ ;  
 $l = 091$ :  
 $S_1 = e16063d5ba6db9a011be91d3c083b726$ ,  $S_2 = dfec1ff48846c48ef740376e4831bbe5$ ,  
 $T_0 = c14c83ca42b47e2f08fec94208b5730b$ ,  $T_1 = 1817326a78b188891e0260b4bc0e4fea$ ,  
 $T_2 = aaa682321d4f9f9b9a7454051e401297$ ,  $T_3 = ff9c3a556188042bb840ff81596595ce$ ,  
 $T_4 = 4fd90853d4f6e46dd2c4c2965ab6209d$ ,  $T_5 = c4512ec673fc9e68049726ed3336cb20$ ,  
 $T_6 = 2ce391476c35e91dcd477f88b36cd0f7$ ,  $T_7 = 1ab5a2f229c3abe14ce4d13a3d5a1c5a$ ,

$T_8 = d1d8426fbf81bad96060dbbad61b1001$ ,  $T_9 = f15e16e16fc7ecf8c604716b618ea5d5$ ;  
 $l = 092$ :  
 $S_1 = d9b31611c2760c77b6af60f76e80adf2$ ,  $S_2 = fd416086f25e81e761825a136222261a$ ,  
 $T_0 = d6f47698b4d48e5f1831bb0ad0a2d40c$ ,  $T_1 = c14c83ca42b47e2f08fec94208b5730b$ ,  
 $T_2 = 1817326a78b188891e0260b4bc0e4fea$ ,  $T_3 = aaa682321d4f9f9b9a7454051e401297$ ,  
 $T_4 = ff9c3a556188042bb840ff81596595ce$ ,  $T_5 = 298c1e65976cf0e58974238dc936ce8f$ ,  
 $T_6 = c4512ec673fc9e68049726ed3336cb20$ ,  $T_7 = 2ce391476c35e91dcd477f88b36cd0f7$ ,  
 $T_8 = 1ab5a2f229c3abe14ce4d13a3d5a1c5a$ ,  $T_9 = d1d8426fbf81bad96060dbbad61b1001$ ;  
 $l = 093$ :  
 $S_1 = 15f53a47f5a2b280e2aaea8772b6e2b6$ ,  $S_2 = 4d303d9b683d6ee6d03482864980bd28$ ,  
 $T_0 = 632577e35de02167b2df6d0dbc379fde$ ,  $T_1 = d6f47698b4d48e5f1831bb0ad0a2d40c$ ,  
 $T_2 = c14c83ca42b47e2f08fec94208b5730b$ ,  $T_3 = 1817326a78b188891e0260b4bc0e4fea$ ,  
 $T_4 = aaa682321d4f9f9b9a7454051e401297$ ,  $T_5 = 1591749d572ab6ac9aebca08cc1c7884$ ,  
 $T_6 = 298c1e65976cf0e58974238dc936ce8f$ ,  $T_7 = c4512ec673fc9e68049726ed3336cb20$ ,  
 $T_8 = 2ce391476c35e91dcd477f88b36cd0f7$ ,  $T_9 = 1ab5a2f229c3abe14ce4d13a3d5a1c5a$ ;  
 $l = 094$ :  
 $S_1 = a5c35c7124683cb32cd5f1edd63309ab$ ,  $S_2 = 523226c24d12df0ff356888c5903bb0a$ ,  
 $T_0 = f7f58333717b1bc3202c7a7a2f36c4b5$ ,  $T_1 = 632577e35de02167b2df6d0dbc379fde$ ,  
 $T_2 = d6f47698b4d48e5f1831bb0ad0a2d40c$ ,  $T_3 = c14c83ca42b47e2f08fec94208b5730b$ ,  
 $T_4 = 1817326a78b188891e0260b4bc0e4fea$ ,  $T_5 = 5069dea341b7dc4ec74a45f2f4731c42$ ,  
 $T_6 = 1591749d572ab6ac9aebca08cc1c7884$ ,  $T_7 = 298c1e65976cf0e58974238dc936ce8f$ ,  
 $T_8 = c4512ec673fc9e68049726ed3336cb20$ ,  $T_9 = 2ce391476c35e91dcd477f88b36cd0f7$ ;  
 $l = 095$ :  
 $S_1 = f109e849c5ad649bd8a5a6bb112be0aa$ ,  $S_2 = 03df24facc2a28c76d3cb904ddd773f3$ ,  
 $T_0 = f4e90d4491d78d6345e25fbfef03549d$ ,  $T_1 = f7f58333717b1bc3202c7a7a2f36c4b5$ ,  
 $T_2 = 632577e35de02167b2df6d0dbc379fde$ ,  $T_3 = d6f47698b4d48e5f1831bb0ad0a2d40c$ ,  
 $T_4 = c14c83ca42b47e2f08fec94208b5730b$ ,  $T_5 = 09211ab43e5eed24f6a8076fcd3a3094$ ,  
 $T_6 = 5069dea341b7dc4ec74a45f2f4731c42$ ,  $T_7 = 1591749d572ab6ac9aebca08cc1c7884$ ,  
 $T_8 = 298c1e65976cf0e58974238dc936ce8f$ ,  $T_9 = c4512ec673fc9e68049726ed3336cb20$ ;  
 $l = 096$ :  
 $S_1 = 6ad212f438f5cf75328c4e6e6873ae19$ ,  $S_2 = 5509bf860ee102e98bbe1aaa350f5380$ ,  
 $T_0 = bfdbd27a47d6d25ebe4a69189d830199$ ,  $T_1 = f4e90d4491d78d6345e25fbfef03549d$ ,  
 $T_2 = f7f58333717b1bc3202c7a7a2f36c4b5$ ,  $T_3 = 632577e35de02167b2df6d0dbc379fde$ ,  
 $T_4 = d6f47698b4d48e5f1831bb0ad0a2d40c$ ,  $T_5 = 2c1e96be7baa4da43b8b17b071292124$ ,  
 $T_6 = 09211ab43e5eed24f6a8076fcd3a3094$ ,  $T_7 = 5069dea341b7dc4ec74a45f2f4731c42$ ,  
 $T_8 = 1591749d572ab6ac9aebca08cc1c7884$ ,  $T_9 = 298c1e65976cf0e58974238dc936ce8f$ ;  
 $l = 097$ :  
 $S_1 = fa09176c3c1e1ed5a69515a7ddfaf884$ ,  $S_2 = 557e2b73fe30ef6be75faedef0fba3cf$ ,  
 $T_0 = 4f8742e03a4f0e418df4c486cef69c53$ ,  $T_1 = bfdbd27a47d6d25ebe4a69189d830199$ ,  
 $T_2 = f4e90d4491d78d6345e25fbfef03549d$ ,  $T_3 = f7f58333717b1bc3202c7a7a2f36c4b5$ ,  
 $T_4 = 632577e35de02167b2df6d0dbc379fde$ ,  $T_5 = d0fd8e04f0f2ad34bec6d0b2ae9dcc90$ ,  
 $T_6 = 2c1e96be7baa4da43b8b17b071292124$ ,  $T_7 = 09211ab43e5eed24f6a8076fcd3a3094$ ,  
 $T_8 = 5069dea341b7dc4ec74a45f2f4731c42$ ,  $T_9 = 1591749d572ab6ac9aebca08cc1c7884$ ;  
 $l = 098$ :  
 $S_1 = 1557aca47505cbe069b8b4d050975d82$ ,  $S_2 = dd5eabf7384fd9e9c3e2475dd16fdcb6$ ,  
 $T_0 = f2b6589bad55a5ca2d9afc2e22073a38$ ,  $T_1 = 4f8742e03a4f0e418df4c486cef69c53$ ,  
 $T_2 = bfdbd27a47d6d25ebe4a69189d830199$ ,  $T_3 = f4e90d4491d78d6345e25fbfef03549d$ ,  
 $T_4 = f7f58333717b1bc3202c7a7a2f36c4b5$ ,  $T_5 = 787d2487d2e5ed481c9821de0ccefd60$ ,  
 $T_6 = d0fd8e04f0f2ad34bec6d0b2ae9dcc90$ ,  $T_7 = 2c1e96be7baa4da43b8b17b071292124$ ,  
 $T_8 = 09211ab43e5eed24f6a8076fcd3a3094$ ,  $T_9 = 5069dea341b7dc4ec74a45f2f4731c42$ ;  
 $l = 099$ :  
 $S_1 = 405ae8656111f74ef44ce0b24d501f1f$ ,  $S_2 = a6d3a37b835a9a6bf07fdc9f7fdcfca6a$ ,

$T_0 = e72e8be0e46c91bae4ccbd51cd2fe989$ ,  $T_1 = f2b6589bad55a5ca2d9afc2e22073a38$ ,  
 $T_2 = 4f8742e03a4f0e418df4c486cef69c53$ ,  $T_3 = bfdbd27a47d6d25ebe4a69189d830199$ ,  
 $T_4 = f4e90d4491d78d6345e25fbfef03549d$ ,  $T_5 = 38506b98d28d131214795b2c7c86e3d4$ ,  
 $T_6 = 787d2487d2e5ed481c9821de0ccefd60$ ,  $T_7 = d0fd8e04f0f2ad34bec6d0b2ae9dcc90$ ,  
 $T_8 = 2c1e96be7baa4da43b8b17b071292124$ ,  $T_9 = 09211ab43e5eed24f6a8076fcd3a3094$ ;  
 $l = 100$ :  
 $S_1 = ce6a0dbc5c0647de75ecc5e925f1a5c7$ ,  $S_2 = 074ba3a9136be564a40b7ff04119f278$ ,  
 $T_0 = d5b5b1656f722d4319f845d9670b983f$ ,  $T_1 = e72e8be0e46c91bae4ccbd51cd2fe989$ ,  
 $T_2 = f2b6589bad55a5ca2d9afc2e22073a38$ ,  $T_3 = 4f8742e03a4f0e418df4c486cef69c53$ ,  
 $T_4 = bfdbd27a47d6d25ebe4a69189d830199$ ,  $T_5 = c3531b00edddd541bbcf25a914f4fa64$ ,  
 $T_6 = 38506b98d28d131214795b2c7c86e3d4$ ,  $T_7 = 787d2487d2e5ed481c9821de0ccefd60$ ,  
 $T_8 = d0fd8e04f0f2ad34bec6d0b2ae9dcc90$ ,  $T_9 = 2c1e96be7baa4da43b8b17b071292124$ ;  
 $l = 101$ :  
 $S_1 = ac5a7620851574ddb001ba9061511fff$ ,  $S_2 = 05b3a91ab043c1d85f44be8f68da6290$ ,  
 $T_0 = b20e1f3b355936b60f46791fca2b828f$ ,  $T_1 = d5b5b1656f722d4319f845d9670b983f$ ,  
 $T_2 = e72e8be0e46c91bae4ccbd51cd2fe989$ ,  $T_3 = f2b6589bad55a5ca2d9afc2e22073a38$ ,  
 $T_4 = 4f8742e03a4f0e418df4c486cef69c53$ ,  $T_5 = 6c36489acceca473c6e4c23a8fed42198$ ,  
 $T_6 = c3531b00edddd541bbcf25a914f4fa64$ ,  $T_7 = 38506b98d28d131214795b2c7c86e3d4$ ,  
 $T_8 = 787d2487d2e5ed481c9821de0ccefd60$ ,  $T_9 = d0fd8e04f0f2ad34bec6d0b2ae9dcc90$ ;  
 $l = 102$ :  
 $S_1 = f6e3ad95361e1c35e0dd0f69e7d7667a$ ,  $S_2 = 9514f58b3ea00ab8697ce9ef76568de2$ ,  
 $T_0 = 8bf8a32074be26ee4a59f9595e2df45c$ ,  $T_1 = b20e1f3b355936b60f46791fca2b828f$ ,  
 $T_2 = d5b5b1656f722d4319f845d9670b983f$ ,  $T_3 = e72e8be0e46c91bae4ccbd51cd2fe989$ ,  
 $T_4 = f2b6589bad55a5ca2d9afc2e22073a38$ ,  $T_5 = 466af075706d2a776ed1d3f0b6ce02cd$ ,  
 $T_6 = 6c36489acceca473c6e4c23a8fed42198$ ,  $T_7 = c3531b00edddd541bbcf25a914f4fa64$ ,  
 $T_8 = 38506b98d28d131214795b2c7c86e3d4$ ,  $T_9 = 787d2487d2e5ed481c9821de0ccefd60$ ;  
 $l = 103$ :  
 $S_1 = 1cdb67534caea719d18db22c2d9d3951$ ,  $S_2 = fcd0aa1aa3d63c1ba2c751e74f9ac51f$ ,  
 $T_0 = 19ac116df084e335745504137d37fe70$ ,  $T_1 = 8bf8a32074be26ee4a59f9595e2df45c$ ,  
 $T_2 = b20e1f3b355936b60f46791fca2b828f$ ,  $T_3 = d5b5b1656f722d4319f845d9670b983f$ ,  
 $T_4 = e72e8be0e46c91bae4ccbd51cd2fe989$ ,  $T_5 = 0f91bfeefa044ce3ff28ae5a4fa47389$ ,  
 $T_6 = 466af075706d2a776ed1d3f0b6ce02cd$ ,  $T_7 = 6c36489acceca473c6e4c23a8fed42198$ ,  
 $T_8 = c3531b00edddd541bbcf25a914f4fa64$ ,  $T_9 = 38506b98d28d131214795b2c7c86e3d4$ ;  
 $l = 104$ :  
 $S_1 = 3c893bf8c15bd88ddf3908e9ebf23014$ ,  $S_2 = 26f691bf80c5a68c46facff045fd4886$ ,  
 $T_0 = 637fcdb842217f1a2633d8da31ef789a$ ,  $T_1 = 19ac116df084e335745504137d37fe70$ ,  
 $T_2 = 8bf8a32074be26ee4a59f9595e2df45c$ ,  $T_3 = b20e1f3b355936b60f46791fca2b828f$ ,  
 $T_4 = d5b5b1656f722d4319f845d9670b983f$ ,  $T_5 = 23b7c7d9a5c86a48c405c63bb922199d$ ,  
 $T_6 = 0f91bfeefa044ce3ff28ae5a4fa47389$ ,  $T_7 = 466af075706d2a776ed1d3f0b6ce02cd$ ,  
 $T_8 = 6c36489acceca473c6e4c23a8fed42198$ ,  $T_9 = c3531b00edddd541bbcf25a914f4fa64$ ;  
 $l = 105$ :  
 $S_1 = 5602df263cbd4802d4545413cb55b33a$ ,  $S_2 = 5272a3a619ea312a2a02edb63a23725c$ ,  
 $T_0 = a87582cc56a7792cfe5741ca05792596$ ,  $T_1 = 637fcdb842217f1a2633d8da31ef789a$ ,  
 $T_2 = 19ac116df084e335745504137d37fe70$ ,  $T_3 = 8bf8a32074be26ee4a59f9595e2df45c$ ,  
 $T_4 = b20e1f3b355936b60f46791fca2b828f$ ,  $T_5 = 2bb8908bac2f7545ee4c99ed32614b79$ ,  
 $T_6 = 23b7c7d9a5c86a48c405c63bb922199d$ ,  $T_7 = 0f91bfeefa044ce3ff28ae5a4fa47389$ ,  
 $T_8 = 466af075706d2a776ed1d3f0b6ce02cd$ ,  $T_9 = 6c36489acceca473c6e4c23a8fed42198$ ;  
 $l = 106$ :  
 $S_1 = c73843a7ccd411169bf0ca35f5793cfd$ ,  $S_2 = 3a6a003fde8defe1ce5f3f7fa2912556$ ,  
 $T_0 = 01a243e7ab6200f86a5009b5980a6253$ ,  $T_1 = a87582cc56a7792cfe5741ca05792596$ ,  
 $T_2 = 637fcdb842217f1a2633d8da31ef789a$ ,  $T_3 = 19ac116df084e335745504137d37fe70$ ,  
 $T_4 = 8bf8a32074be26ee4a59f9595e2df45c$ ,  $T_5 = 794662e3022d47ccab374355bfa4bf8c$ ,

$T_6 = 2bb8908bac2f7545ee4c99ed32614b79$ ,  $T_7 = 23b7c7d9a5c86a48c405c63bb922199d$ ,  
 $T_8 = 0f91bfeefa044ce3ff28ae5a4fa47389$ ,  $T_9 = 466af075706d2a776ed1d3f0b6ce02cd$ ;  
 $l = 107$ :  
 $S_1 = c9f4e8b2d1546d6cd59bc40ad2ba4781$ ,  $S_2 = 5de4b619bea6a47326305a06c590176b$ ,  
 $T_0 = 27d99ecc8fffb11dffbcc1e11984a5eec$ ,  $T_1 = 01a243e7ab6200f86a5009b5980a6253$ ,  
 $T_2 = a87582cc56a7792cfe5741ca05792596$ ,  $T_3 = 637fcd842217f1a2633d8da31ef789a$ ,  
 $T_4 = 19ac116df084e335745504137d37fe70$ ,  $T_5 = 55ed8bd34612945b1ff5bd6430e83bdd$ ,  
 $T_6 = 794662e3022d47ccab374355bfa4bf8c$ ,  $T_7 = 2bb8908bac2f7545ee4c99ed32614b79$ ,  
 $T_8 = 23b7c7d9a5c86a48c405c63bb922199d$ ,  $T_9 = 0f91bfeefa044ce3ff28ae5a4fa47389$ ;  
 $l = 108$ :  
 $S_1 = be19969f9dbb154ec1bab747bd952582$ ,  $S_2 = d94fb23320b38c344bc5944c49bf277f$ ,  
 $T_0 = 976948d2be6ea1830d804b9407544d01$ ,  $T_1 = 27d99ecc8fffb11dffbcc1e11984a5eec$ ,  
 $T_2 = 01a243e7ab6200f86a5009b5980a6253$ ,  $T_3 = a87582cc56a7792cfe5741ca05792596$ ,  
 $T_4 = 637fcd842217f1a2633d8da31ef789a$ ,  $T_5 = d7c5a80d8e3ff884360fbb5b3acd23f2$ ,  
 $T_6 = 55ed8bd34612945b1ff5bd6430e83bdd$ ,  $T_7 = 794662e3022d47ccab374355bfa4bf8c$ ,  
 $T_8 = 2bb8908bac2f7545ee4c99ed32614b79$ ,  $T_9 = 23b7c7d9a5c86a48c405c63bb922199d$ ;  
 $l = 109$ :  
 $S_1 = c59779432f923e390c5dc74a9b79cddb$ ,  $S_2 = 0c49b154675036070018de80ade7c06f$ ,  
 $T_0 = d1e12a9796e274400c76a5cb49618e4a$ ,  $T_1 = 976948d2be6ea1830d804b9407544d01$ ,  
 $T_2 = 27d99ecc8fffb11dffbcc1e11984a5eec$ ,  $T_3 = 01a243e7ab6200f86a5009b5980a6253$ ,  
 $T_4 = a87582cc56a7792cfe5741ca05792596$ ,  $T_5 = 291746fb71b3bd533291a024cd694675$ ,  
 $T_6 = d7c5a80d8e3ff884360fbb5b3acd23f2$ ,  $T_7 = 55ed8bd34612945b1ff5bd6430e83bdd$ ,  
 $T_8 = 794662e3022d47ccab374355bfa4bf8c$ ,  $T_9 = 2bb8908bac2f7545ee4c99ed32614b79$ ;  
 $l = 110$ :  
 $S_1 = d03ae6cb0e560e30a8be6d5c2f2e72d3$ ,  $S_2 = e2969b9afea59d211fb9604bdf5606f0$ ,  
 $T_0 = b2d182660cfbab51c877cda80e8479c3$ ,  $T_1 = d1e12a9796e274400c76a5cb49618e4a$ ,  
 $T_2 = 976948d2be6ea1830d804b9407544d01$ ,  $T_3 = 27d99ecc8fffb11dffbcc1e11984a5eec$ ,  
 $T_4 = 01a243e7ab6200f86a5009b5980a6253$ ,  $T_5 = 78b0699764fd875da715af2634a79869$ ,  
 $T_6 = 291746fb71b3bd533291a024cd694675$ ,  $T_7 = d7c5a80d8e3ff884360fbb5b3acd23f2$ ,  
 $T_8 = 55ed8bd34612945b1ff5bd6430e83bdd$ ,  $T_9 = 794662e3022d47ccab374355bfa4bf8c$ ;  
 $l = 111$ :  
 $S_1 = f2380da711c066f3a129cbf618bdb22f$ ,  $S_2 = 3d5bc550f7ef72247d9d0c593ec1e864$ ,  
 $T_0 = 2f93d2f809afd9181ec6d84f577f9a93$ ,  $T_1 = b2d182660cfbab51c877cda80e8479c3$ ,  
 $T_2 = d1e12a9796e274400c76a5cb49618e4a$ ,  $T_3 = 976948d2be6ea1830d804b9407544d01$ ,  
 $T_4 = 27d99ecc8fffb11dffbcc1e11984a5eec$ ,  $T_5 = f3da518ebd2267ec0b79d5abb0c81482$ ,  
 $T_6 = 78b0699764fd875da715af2634a79869$ ,  $T_7 = 291746fb71b3bd533291a024cd694675$ ,  
 $T_8 = d7c5a80d8e3ff884360fbb5b3acd23f2$ ,  $T_9 = 55ed8bd34612945b1ff5bd6430e83bdd$ ;  
 $l = 112$ :  
 $S_1 = 2da7f2d7b676b62cccd5fbbe5ff74104$ ,  $S_2 = 8d01f8f18aee85a1cb5238f2e11bf839$ ,  
 $T_0 = baa9ebc941653bce982834b14113393d$ ,  $T_1 = 2f93d2f809afd9181ec6d84f577f9a93$ ,  
 $T_2 = b2d182660cfbab51c877cda80e8479c3$ ,  $T_3 = d1e12a9796e274400c76a5cb49618e4a$ ,  
 $T_4 = 976948d2be6ea1830d804b9407544d01$ ,  $T_5 = 558191a44671c80cc8a219cff8419ff0$ ,  
 $T_6 = f3da518ebd2267ec0b79d5abb0c81482$ ,  $T_7 = 78b0699764fd875da715af2634a79869$ ,  
 $T_8 = 291746fb71b3bd533291a024cd694675$ ,  $T_9 = d7c5a80d8e3ff884360fbb5b3acd23f2$ ;  
 $l = 113$ :  
 $S_1 = 5e37b61205552f436a714f3d5b4d755a$ ,  $S_2 = 38e964a2adb3285f4b42b7a17ef7fc98$ ,  
 $T_0 = 97211ab4b30857a2b5b406deda4571f2$ ,  $T_1 = baa9ebc941653bce982834b14113393d$ ,  
 $T_2 = 2f93d2f809afd9181ec6d84f577f9a93$ ,  $T_3 = b2d182660cfbab51c877cda80e8479c3$ ,  
 $T_4 = d1e12a9796e274400c76a5cb49618e4a$ ,  $T_5 = f5a0fee4c3c3d0c677f19ad162a1c25b$ ,  
 $T_6 = 558191a44671c80cc8a219cff8419ff0$ ,  $T_7 = f3da518ebd2267ec0b79d5abb0c81482$ ,  
 $T_8 = 78b0699764fd875da715af2634a79869$ ,  $T_9 = 291746fb71b3bd533291a024cd694675$ ;  
 $l = 114$ :

$S_1 = c180615371d8b3dc3faf44a1e74b0e97$ ,  $S_2 = 43be9e489fb343a86901fe62f3c7af3e$ ,  
 $T_0 = 053eff9c118bf784a8b14304db12bdd5$ ,  $T_1 = 97211ab4b30857a2b5b406deda4571f2$ ,  
 $T_2 = baa9ebc941653bce982834b14113393d$ ,  $T_3 = 2f93d2f809afd9181ec6d84f577f9a93$ ,  
 $T_4 = b2d182660cfbab51c877cda80e8479c3$ ,  $T_5 = 93618beb08bb281c4c25ea6d30ac9ce1$ ,  
 $T_6 = f5a0fee4c3c3d0c677f19ad162a1c25b$ ,  $T_7 = 558191a44671c80cc8a219cff8419ff0$ ,  
 $T_8 = f3da518ebd2267ec0b79d5abb0c81482$ ,  $T_9 = 78b0699764fd875da715af2634a79869$ ;  
 $l = 115$ :  
 $S_1 = b23c1df594d88e7d8b176852d768e3b7$ ,  $S_2 = c811a6896efb23c65d10a067c4e118ca$ ,  
 $T_0 = 7a4dc47f03d3b243e82808ba9c49fc81$ ,  $T_1 = 053eff9c118bf784a8b14304db12bdd5$ ,  
 $T_2 = 97211ab4b30857a2b5b406deda4571f2$ ,  $T_3 = baa9ebc941653bce982834b14113393d$ ,  
 $T_4 = 2f93d2f809afd9181ec6d84f577f9a93$ ,  $T_5 = 650da05ba1d439cf538f35fae5ed5d7a$ ,  
 $T_6 = 93618beb08bb281c4c25ea6d30ac9ce1$ ,  $T_7 = f5a0fee4c3c3d0c677f19ad162a1c25b$ ,  
 $T_8 = 558191a44671c80cc8a219cff8419ff0$ ,  $T_9 = f3da518ebd2267ec0b79d5abb0c81482$ ;  
 $l = 116$ :  
 $S_1 = 13d0004c2e86111c170f73441bafb077$ ,  $S_2 = bf557f697a0a091e4644747eb14b9d8e$ ,  
 $T_0 = d3257fb5a8901a3a5d53e7c2ccfb4e05$ ,  $T_1 = 7a4dc47f03d3b243e82808ba9c49fc81$ ,  
 $T_2 = 053eff9c118bf784a8b14304db12bdd5$ ,  $T_3 = 97211ab4b30857a2b5b406deda4571f2$ ,  
 $T_4 = baa9ebc941653bce982834b14113393d$ ,  $T_5 = 4363d3443835ea3435d64b93732f4b0a$ ,  
 $T_6 = 650da05ba1d439cf538f35fae5ed5d7a$ ,  $T_7 = 93618beb08bb281c4c25ea6d30ac9ce1$ ,  
 $T_8 = f5a0fee4c3c3d0c677f19ad162a1c25b$ ,  $T_9 = 558191a44671c80cc8a219cff8419ff0$ ;  
 $l = 117$ :  
 $S_1 = 9437289bda5d2ea02bf7df71dcf950ec$ ,  $S_2 = 4ff27f2cd9c9d2a9b41d626e57b33057$ ,  
 $T_0 = e429a7c8b4270149e01541e034ac8143$ ,  $T_1 = d3257fb5a8901a3a5d53e7c2ccfb4e05$ ,  
 $T_2 = 7a4dc47f03d3b243e82808ba9c49fc81$ ,  $T_3 = 053eff9c118bf784a8b14304db12bdd5$ ,  
 $T_4 = 97211ab4b30857a2b5b406deda4571f2$ ,  $T_5 = 4ee114651bc26a6ec42014231e0c8a29$ ,  
 $T_6 = 4363d3443835ea3435d64b93732f4b0a$ ,  $T_7 = 650da05ba1d439cf538f35fae5ed5d7a$ ,  
 $T_8 = 93618beb08bb281c4c25ea6d30ac9ce1$ ,  $T_9 = f5a0fee4c3c3d0c677f19ad162a1c25b$ ;  
 $l = 118$ :  
 $S_1 = 5adfc86986618bb308f63b1395fa6a77$ ,  $S_2 = 758bb2bca2eead0e1f8af5801184b1ab$ ,  
 $T_0 = d06b7b26295038c128813093a77f1c22$ ,  $T_1 = e429a7c8b4270149e01541e034ac8143$ ,  
 $T_2 = d3257fb5a8901a3a5d53e7c2ccfb4e05$ ,  $T_3 = 7a4dc47f03d3b243e82808ba9c49fc81$ ,  
 $T_4 = 053eff9c118bf784a8b14304db12bdd5$ ,  $T_5 = f200e31e3969e355beaa41f2703fdc69$ ,  
 $T_6 = 4ee114651bc26a6ec42014231e0c8a29$ ,  $T_7 = 4363d3443835ea3435d64b93732f4b0a$ ,  
 $T_8 = 650da05ba1d439cf538f35fae5ed5d7a$ ,  $T_9 = 93618beb08bb281c4c25ea6d30ac9ce1$ ;  
 $l = 119$ :  
 $S_1 = 90cda02d9f9ddde2643eac3becb3a846$ ,  $S_2 = 05a396dc81ae649dbeaf1536ae21af04$ ,  
 $T_0 = 9671370a214c428022edc1729ad5574a$ ,  $T_1 = d06b7b26295038c128813093a77f1c22$ ,  
 $T_2 = e429a7c8b4270149e01541e034ac8143$ ,  $T_3 = d3257fb5a8901a3a5d53e7c2ccfb4e05$ ,  
 $T_4 = 7a4dc47f03d3b243e82808ba9c49fc81$ ,  $T_5 = 960c9fc9b129d5670cefef40c7c6661b$ ,  
 $T_6 = f200e31e3969e355beaa41f2703fdc69$ ,  $T_7 = 4ee114651bc26a6ec42014231e0c8a29$ ,  
 $T_8 = 4363d3443835ea3435d64b93732f4b0a$ ,  $T_9 = 650da05ba1d439cf538f35fae5ed5d7a$ ;  
 $l = 120$ :  
 $S_1 = a51accbc0a2c7e5665f211d0da3a1a2$ ,  $S_2 = aa683d3f567d0ce79e17394a73cb906f$ ,  
 $T_0 = 4f830a0b171fd4cd04765a67816f3211$ ,  $T_1 = 9671370a214c428022edc1729ad5574a$ ,  
 $T_2 = d06b7b26295038c128813093a77f1c22$ ,  $T_3 = e429a7c8b4270149e01541e034ac8143$ ,  
 $T_4 = d3257fb5a8901a3a5d53e7c2ccfb4e05$ ,  $T_5 = 1f68914ac4767a294e8729d7a9ed9e23$ ,  
 $T_6 = 960c9fc9b129d5670cefef40c7c6661b$ ,  $T_7 = f200e31e3969e355beaa41f2703fdc69$ ,  
 $T_8 = 4ee114651bc26a6ec42014231e0c8a29$ ,  $T_9 = 4363d3443835ea3435d64b93732f4b0a$ ;  
 $l = 121$ :  
 $S_1 = 6582c67715405453769522c0b329481d$ ,  $S_2 = 8c7fcbec6d38e1352384dbfb2995433e$ ,  
 $T_0 = f2029263827935889a19febbdcbe8b5b$ ,  $T_1 = 4f830a0b171fd4cd04765a67816f3211$ ,  
 $T_2 = 9671370a214c428022edc1729ad5574a$ ,  $T_3 = d06b7b26295038c128813093a77f1c22$ ,

$T_4 = e429a7c8b4270149e01541e034ac8143$ ,  $T_5 = 38a8462cbdd06e8dd3e90a8380249622$ ,  
 $T_6 = 1f68914ac4767a294e8729d7a9ed9e23$ ,  $T_7 = 960c9fc9b129d5670cefef40c7c6661b$ ,  
 $T_8 = f200e31e3969e355beaa41f2703fdc69$ ,  $T_9 = 4ee114651bc26a6ec42014231e0c8a29$ ;  
 $l = 122$ :  
 $S_1 = 756bb1a1e007441974f612a52af52d2b$ ,  $S_2 = 1cccc9aa769616c91562ec30e82b0408$ ,  
 $T_0 = 92387b4c569d5ae28a58fed613203133$ ,  $T_1 = f2029263827935889a19febbdcbe8b5b$ ,  
 $T_2 = 4f830a0b171fd4cd04765a67816f3211$ ,  $T_3 = 9671370a214c428022edc1729ad5574a$ ,  
 $T_4 = d06b7b26295038c128813093a77f1c22$ ,  $T_5 = 5995596a942e4563550b54855fa1ae6e$ ,  
 $T_6 = 38a8462cbdd06e8dd3e90a8380249622$ ,  $T_7 = 1f68914ac4767a294e8729d7a9ed9e23$ ,  
 $T_8 = 960c9fc9b129d5670cefef40c7c6661b$ ,  $T_9 = f200e31e3969e355beaa41f2703fdc69$ ;  
 $l = 123$ :  
 $S_1 = c7b13f969e91a0e5fcc7af497e3db23a$ ,  $S_2 = 0a1619cd09e9e41353a5647e524c8d66$ ,  
 $T_0 = d1c75963a87b84f9506d13c7d08a3fa0$ ,  $T_1 = 92387b4c569d5ae28a58fed613203133$ ,  
 $T_2 = f2029263827935889a19febbdcbe8b5b$ ,  $T_3 = 4f830a0b171fd4cd04765a67816f3211$ ,  
 $T_4 = 9671370a214c428022edc1729ad5574a$ ,  $T_5 = 981cbabcc7e1d9a72548dfdd25bcce5c$ ,  
 $T_6 = 5995596a942e4563550b54855fa1ae6e$ ,  $T_7 = 38a8462cbdd06e8dd3e90a8380249622$ ,  
 $T_8 = 1f68914ac4767a294e8729d7a9ed9e23$ ,  $T_9 = 960c9fc9b129d5670cefef40c7c6661b$ ;  
 $l = 124$ :  
 $S_1 = 64389cd2d432669640e5e1953334facc$ ,  $S_2 = 499a6f0f55b57dcc26decd5b6af6483f$ ,  
 $T_0 = add30be229e7e46267c4aef09e2b430b$ ,  $T_1 = d1c75963a87b84f9506d13c7d08a3fa0$ ,  
 $T_2 = 92387b4c569d5ae28a58fed613203133$ ,  $T_3 = f2029263827935889a19febbdcbe8b5b$ ,  
 $T_4 = 4f830a0b171fd4cd04765a67816f3211$ ,  $T_5 = faa9d3dcf57ea91663d3a307ce0a5216$ ,  
 $T_6 = 981cbabcc7e1d9a72548dfdd25bcce5c$ ,  $T_7 = 5995596a942e4563550b54855fa1ae6e$ ,  
 $T_8 = 38a8462cbdd06e8dd3e90a8380249622$ ,  $T_9 = 1f68914ac4767a294e8729d7a9ed9e23$ ;  
 $l = 125$ :  
 $S_1 = 9a07415f9c93256e395d1d6e9e8de466$ ,  $S_2 = 35bf2487e3531cd75ee8bcc4887fd7cf$ ,  
 $T_0 = cfc665e77fe642459845da33270dbc35$ ,  $T_1 = add30be229e7e46267c4aef09e2b430b$ ,  
 $T_2 = d1c75963a87b84f9506d13c7d08a3fa0$ ,  $T_3 = 92387b4c569d5ae28a58fed613203133$ ,  
 $T_4 = f2029263827935889a19febbdcbe8b5b$ ,  $T_5 = e98a4b6ab3b2fa3b3dd377d61ffd1677$ ,  
 $T_6 = faa9d3dcf57ea91663d3a307ce0a5216$ ,  $T_7 = 981cbabcc7e1d9a72548dfdd25bcce5c$ ,  
 $T_8 = 5995596a942e4563550b54855fa1ae6e$ ,  $T_9 = 38a8462cbdd06e8dd3e90a8380249622$ ;  
 $l = 126$ :  
 $S_1 = cd273344d269c3a678ae5463e95aa12a$ ,  $S_2 = 1dd0634327b57e3a0f3950d9a621b477$ ,  
 $T_0 = eaf79687fal1f41e087e7a53d8f7c55a1$ ,  $T_1 = cfc665e77fe642459845da33270dbc35$ ,  
 $T_2 = add30be229e7e46267c4aef09e2b430b$ ,  $T_3 = d1c75963a87b84f9506d13c7d08a3fa0$ ,  
 $T_4 = 92387b4c569d5ae28a58fed613203133$ ,  $T_5 = bf29c5a854e2f92f12c8531fc6192c85$ ,  
 $T_6 = e98a4b6ab3b2fa3b3dd377d61ffd1677$ ,  $T_7 = faa9d3dcf57ea91663d3a307ce0a5216$ ,  
 $T_8 = 981cbabcc7e1d9a72548dfdd25bcce5c$ ,  $T_9 = 5995596a942e4563550b54855fa1ae6e$ ;  
 $l = 127$ :  
 $S_1 = c7900f60aead50d875277457f79e5eee$ ,  $S_2 = 13997bd63e6963f3358d68112c3fc6f1$ ,  
 $T_0 = db298b36ed56b4cbaab4dc6923de25df$ ,  $T_1 = eaf79687fal1f41e087e7a53d8f7c55a1$ ,  
 $T_2 = cfc665e77fe642459845da33270dbc35$ ,  $T_3 = add30be229e7e46267c4aef09e2b430b$ ,  
 $T_4 = d1c75963a87b84f9506d13c7d08a3fa0$ ,  $T_5 = 59c88aad058aabbaff80732e0abe9021$ ,  
 $T_6 = bf29c5a854e2f92f12c8531fc6192c85$ ,  $T_7 = e98a4b6ab3b2fa3b3dd377d61ffd1677$ ,  
 $T_8 = faa9d3dcf57ea91663d3a307ce0a5216$ ,  $T_9 = 981cbabcc7e1d9a72548dfdd25bcce5c$ ;

**Block 2 processed. Intermediate hash values are**

$H_0 = 9a5c5bd645bad2f79f9df82df89d1bb2 + db298b36ed56b4cbaab4dc6923de25df = 7585e70d331187c34a52d4971c7b4191$ ,  
 $H_1 = d53dc262ee0bea05fde0251a1bc6407b + eaf79687fal1f41e087e7a53d8f7c55a1 = c03558eae82b2be685c7ca57ab42961c$ ,  
 $H_2 = a5022297959fe521e00961bf5127e3a5 + cfc665e77fe642459845da33270dbc35 =$

74c8887f15862767784f3bf278359fda,  
H<sub>3</sub> = 0dd02fd44e57c7dfadc19ca170d61f32 + add30be229e7e46267c4aef09e2b430b =  
bba33bb6783fac4215864b920f01623d,  
H<sub>4</sub> = 8beb7dd91c40d98bcb987d949ea5a0a7 + d1c75963a87b84f9506d13c7d08a3fa0 =  
5db2d73cc4bc5e851c05915c6f2fe047,  
H<sub>5</sub> = 8360ac7dc2d141ab8d10fa3462911d32 + 59c88aad058aabbaaff80732e0abe9021 =  
dd29372ac85bed668c916d626d4fad53,  
H<sub>6</sub> = 71664b1a003dd858e65c1f2735ad5408 + bf29c5a854e2f92f12c8531fc6192c85 =  
309010c25520d187f9247246fbc6808d,  
H<sub>7</sub> = 4e5792c2f106067903aab4341d752cba + e98a4b6ab3b2fa3b3dd377d61ffd1677 =  
37e1de2da4b900b4417e2c0a3d724331,  
H<sub>8</sub> = 524801f2a48be70939418496bef738bb + faa9d3dcf57ea91663d3a307ce0a5216 =  
4cf1d5cf9a0a901f9d15279e8d018ad1,  
H<sub>9</sub> = ad22b2cd0c099cee261b716f0c517ec0 + 981cbabcc7e1d9a72548dfdd25bcce5c =  
453f6d89d3eb76954b64514c320e4d1c.

**Therefore the message hash is**

7585e70d331187c34a52d4971c7b4191 c03558eae82b2be685c7ca57ab42961c  
74c8887f15862767784f3bf278359fda bba33bb6783fac4215864b920f01623d  
5db2d73cc4bc5e851c05915c6f2fe047 dd29372ac85bed668c916d626d4fad53  
309010c25520d187f9247246fbc6808d 37e1de2da4b900b4417e2c0a3d724331  
4cf1d5cf9a0a901f9d15279e8d018ad1 453f6d89d3eb76954b64514c320e4d1c.



## **4. FINAL WORDS**

I hope you found the info in this research paper useful and educating.

### **4.1. Legal**

The use of this algorithm is free of charge, but you are obliged to include the line “Uses SASH-1280 algorithm by Kirils Solovjovs.” in the product's credits. If you use the algorithm in any publicly available product, please drop me a line.

I provide no guarantees whatsoever that the algorithm will fit for any particular purpose. Use on your own risk.

### **4.2. Feedback**

Feedbacks and error reports are welcome to [research \[at\] kirils.org](mailto:research@kirils.org).