

# SCP CTF 2020

---

2020.09.08 Forensic & Crypto

# Challenges

CUTE CAT

100

IZ\*ONE

200

SO EASY

300

# CUTE CAT

---

여기 귀여운 고양이 한 마리가 있습니다.  
고양이는 무엇을 하고 있을까요?  
그냥 눈으로 봤을 땐 알 수 없습니다.  
숨겨져 있는 플래그를 찾으세요!

고양이.PNG

scpCTF{...}

Submit

CUTE CAT

100

SO EASY

300

# CUTE CAT



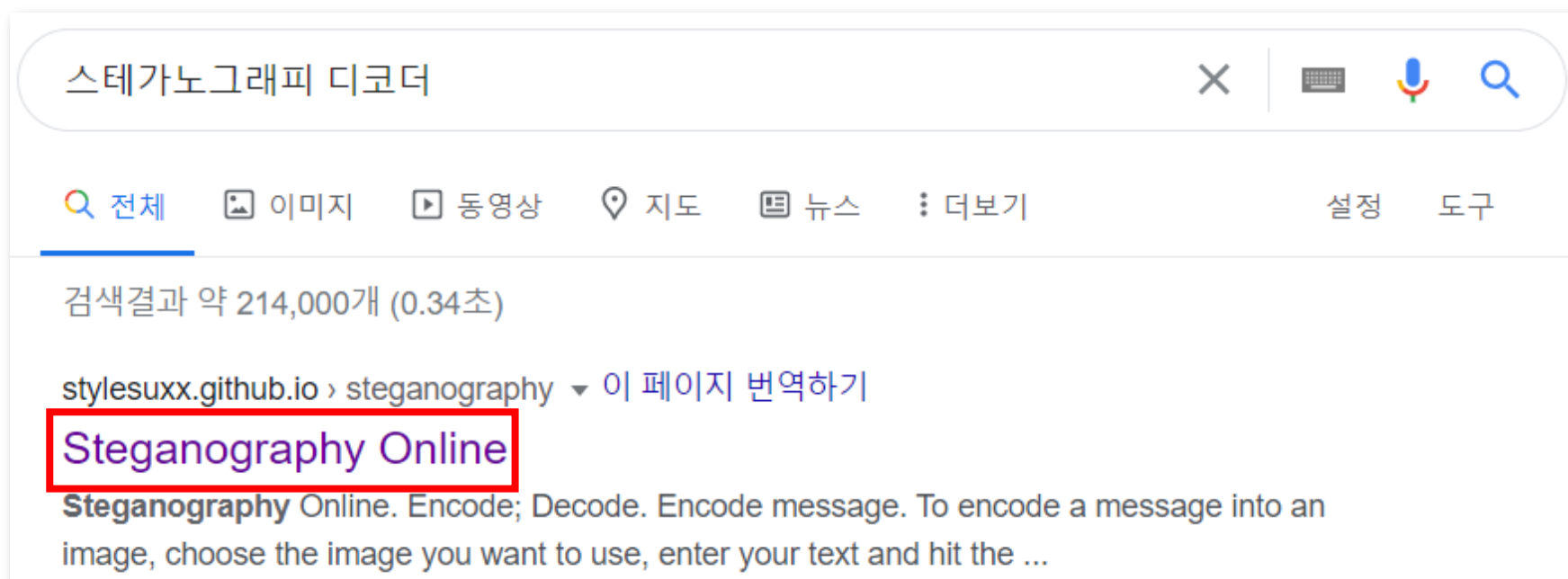
# CUTE CAT



## 스테가노그래피 (Steganography)

전달하려는 정보를 이미지파일이나,  
MP3 파일, 비디오파일 등에 숨기는 심층 암호기술

# CUTE CAT



# CUTE CAT

## Steganography Online

Encode

Decode

### Decode image

To decode a hidden message from an image, just choose an image and hit the **Decode** button.

Neither the image nor the message that has been hidden will be at any moment transmitted over the web, all the magic happens within your browser.

파일 선택 고양이.png

Decode

### Hidden message

scpCTF{C@TCH1NG\_F15H!!}

# CUTE CAT

---

여기 귀여운 고양이 한 마리가 있습니다.  
고양이는 무엇을 하고 있을까요?  
그냥 눈으로 봤을 땐 알 수 없습니다.  
숨겨져 있는 플래그를 찾으세요!

고양이.PNG

scpCTF{C@TCH1NG\_F15H!!}

Submit

CUTE CAT

100

SO EASY

300



# CUTE CAT

## Steganography Online

Encode

Decode

### Encode message

To encode a message into an image, choose the image you want to use, enter your text and hit the **Encode** button.

Save the last image, it will contain your hidden message.

Remember, the more text you want to hide, the larger the image has to be. In case you chose an image that is too small to hold your message you will be informed.

Neither the image nor the message you hide will be at any moment transmitted over the web, all the magic happens within your browser.

파일 선택 원본.jpg

scpCTF{C@TCH1NG\_F15H!!}

Encode

# CUTE CAT

Message hidden in image (right click → save as)



# CUTE CAT



고양이.png



원본.jpg

# Challenges

CUTE CAT

100

IZ\*ONE

200

SO EASY

300

# IZ\*ONE

---

모두 다 사랑스러운 우리 아이즈원 멤버들!  
12명의 멤버 중 저의 원 픽 멤버가  
숨어있습니다!! 과연 찾을 수 있으신가요?

CUTE CAT

100

아이즈원.JPG

scpCTF{...}

Submit

SO EASY

300

IZ\*ONE



# IZ\*ONE



## 파일 시그니처 (File Signatures)

각 파일들은 고유한 포맷을 가지고 있으며  
포맷의 가장 기본이 되는 특정 바이트

처음에 나오는 시그니처 > 헤더 시그니처  
마지막에 나오는 시그니처 > 푸터 시그니처

# IZ\*ONE



아이즈원.jpg

Offset (h)	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	
00000000	FF	D8	FF	E0	00	10	4A	46	49	46	00	01	01	00	00	01	ÿøÿà..JFIF.....
00000010	00	01	00	00	FF	DB	00	43	00	03	02	02	03	02	02	03	....ÿÛ.C.....
00000020	03	03	03	04	03	03	04	05	08	05	05	04	04	05	0A	07	.....
00000030	07	06	08	0C	0A	0C	0C	0B	0A	0B	0B	0D	0E	12	10	0D	.....
00000040	0E	11	0E	0B	0B	10	16	10	11	13	14	15	15	15	0C	0F	.....
00000050	17	18	16	14	18	12	14	15	14	FF	DB	00	43	01	03	04	.....ÿÛ.C...
00000060	04	05	04	05	09	05	05	09	14	0D	0B	0D	14	14	14	14	.....

## JPG

헤더 시그니처 FF D8 DD E0

푸터 시그니처 FF D9

0022F0B0	F0	B2	D4	1B	17	52	F4	51	13	29	8B	BA	B9	AC	E3	EB	ø²Ô..RôQ.)<²¬ãë
0022F0C0	B4	D0	9E	E5	8C	C1	A2	50	74	E4	B9	E2	41	AA	0E	AE	‘ĐžâĠÁ¢Ptă²âA².©
0022F0D0	2C	51	C5	B5	58	62	9E	EF	65	60	AB	12	3E	EC	55	C1	,QĂpXbžİe`«.>İUÁ
0022F0E0	D7	E5	DA	F8	EE	98	1D	06	0F	58	E1	55	BE	D8	12	D1	*ăÚøİ~...XáU%ø.Ń
0022F0F0	11	FF	1F	8E	1C	7C	73	F4	B3	10	CE	00	00	00	00	49	.ÿ.Ž.İsô³.İ....I
0022F100	45	4E	44	AE	42	60	82										ENDØB` ,

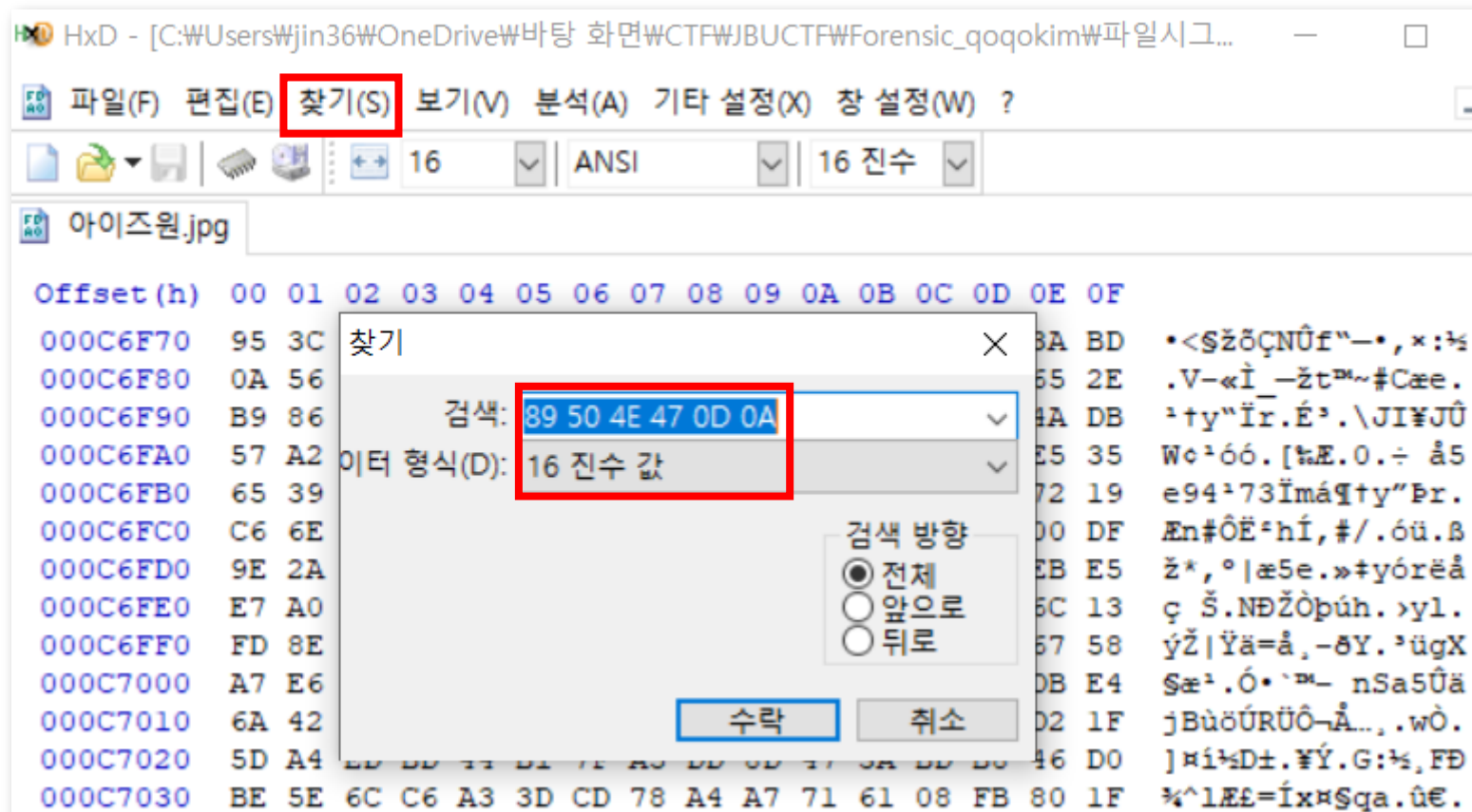
## PNG

헤더 시그니처 89 50 4E 47 0D 0A 1A 0A

푸터 시그니처 49 45 4E 44 AE 42 60 82



# IZ\*ONE



# IZ\*ONE

아이즈원.jpg																
Offset (h)	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
0002B610	27	7E	47	1D	2F	8D	4F	3C	22	E5	A9	17	17	FC	6D	84
0002B620	DC	63	6B	5B	96	35	DF	D3	1C	95	60	16	23	AE	37	B8
0002B630	6B	DB	E5	8D	00	B7	5C	60	76	51	BF	2C	75	A4	5F	FF
0002B640	D9	89	50	4E	47	0D	0A	1A	0A	00	00	00	0D	49	48	44
0002B650	52	00	00	03	E5	00	00	02	EC	08	06	00	00	00	85	BB
0002B660	16	F6	00	00	00	01	73	52	47	42	00	AE	CE	1C	E9	00
0002B670	00	00	04	67	41	4D	41	00	00	B1	8F	0B	FC	61	05	00
0002B680	00	00	09	70	48	59	73	00	00	12	74	00	00	12	74	01
0002B690	DE	66	1F	78	00	00	FF	A5	49	44	41	54	78	5E	74	FD

PNG 파일이 숨어 있구나!!

# IZ\*ONE

파일(F) 편집(E) 찾기(S) 보기(V) 분석(A) 기타 설정(X) 창 설정(W) ?

16 ANSI 16 진수

아이즈원.jpg

Offset(h)	00	01	02	03	04	05	06	07	08	09
0002B610	27	7E	47	1D	2F	8D	4F	3C	22	E5
0002B620	DC	63	6B	5B	96	35	DF	D3	1C	95
0002B630	6B	DB	E5	8D	00	B7	5C	60	76	51
0002B640	D9	89	50	4E	47	0D	0A	1A	0A	00
0002B650	52	00	00	03	E5	00	00	02	EC	08
0002B660	16	F6	00	00	00	01	73	52	47	42
0002B670	00	00	04	67	41	4D	41	00	00	B1
0002B680	00	00	09	70	48	59	73	00	00	12
0002B690	DE	66	1F	78	00	00	FF	A5	49	44

오프셋: 28641    블록 28641-28647    길이: 7

파일(F) 편집(E) 찾기(S) 보기(V) 분석(A) 기타 설정(X) 창 설정(W) ?

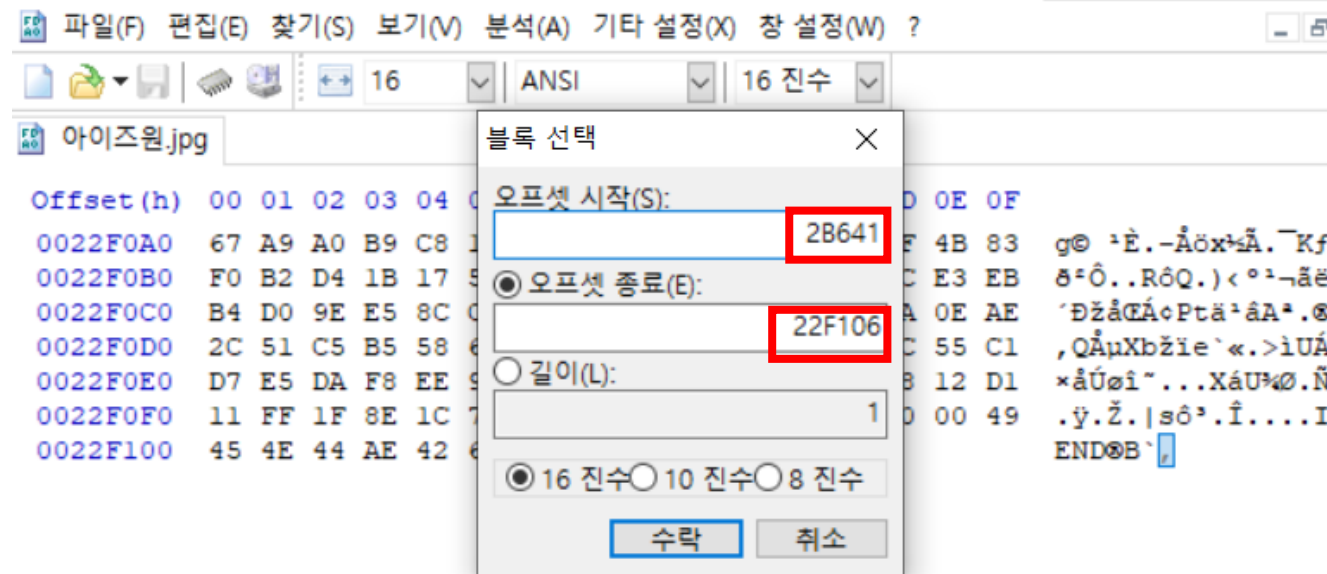
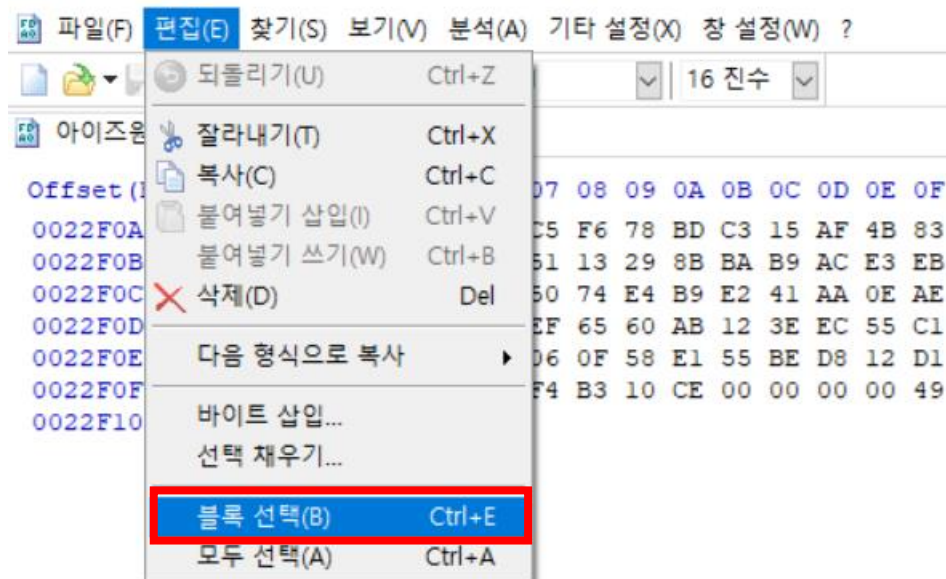
16 ANSI 16 진수

아이즈원.jpg

Offset(h)	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
0022F0A0	67	A9	A0	B9	C8	1C	2D	C5	F6	78	BD	C3	15	AF	4B	83
0022F0B0	F0	B2	D4	1B	17	52	F4	51	13	29	8B	BA	B9	AC	E3	EB
0022F0C0	B4	D0	9E	E5	8C	C1	A2	50	74	E4	B9	E2	41	AA	0E	AE
0022F0D0	2C	51	C5	B5	58	62	9E	EF	65	60	AB	12	3E	EC	55	C1
0022F0E0	D7	E5	DA	F8	EE	98	1D	06	0F	58	E1	55	BE	D8	12	D1
0022F0F0	11	FF	1F	8E	1C	7C	73	F4	B3	10	CE	00	00	00	00	49
0022F100	45	4E	44	AE	42	60	82									

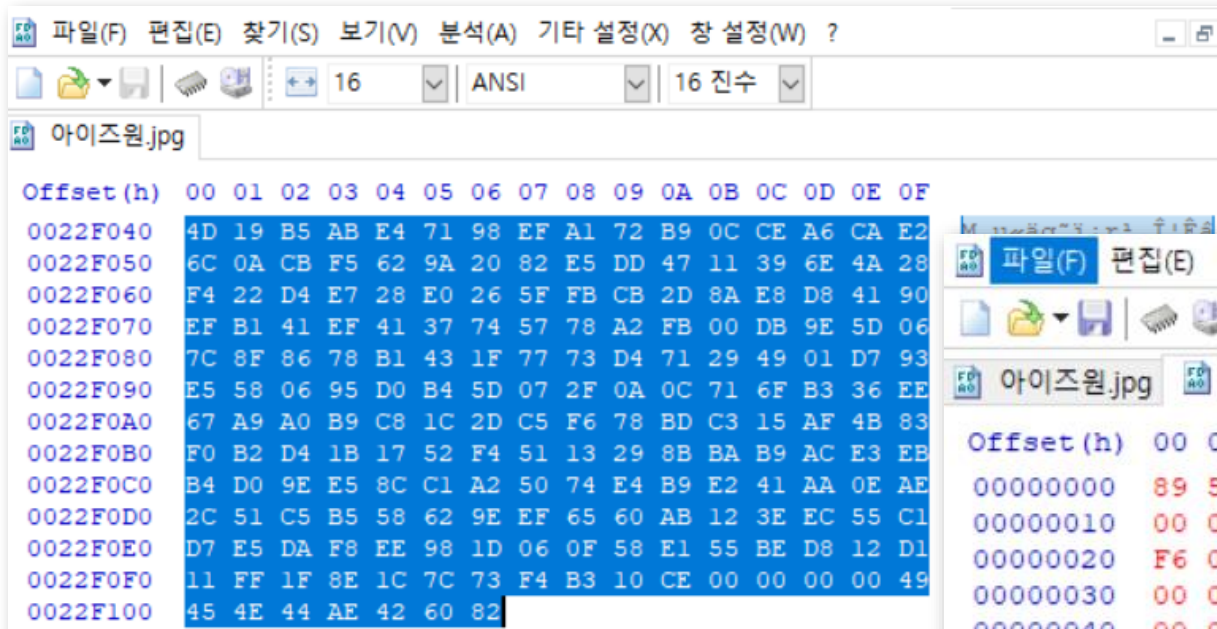
오프셋: 22F106    블록 22F106-22F106    길이: 1    덮어쓰기

# IZ\*ONE

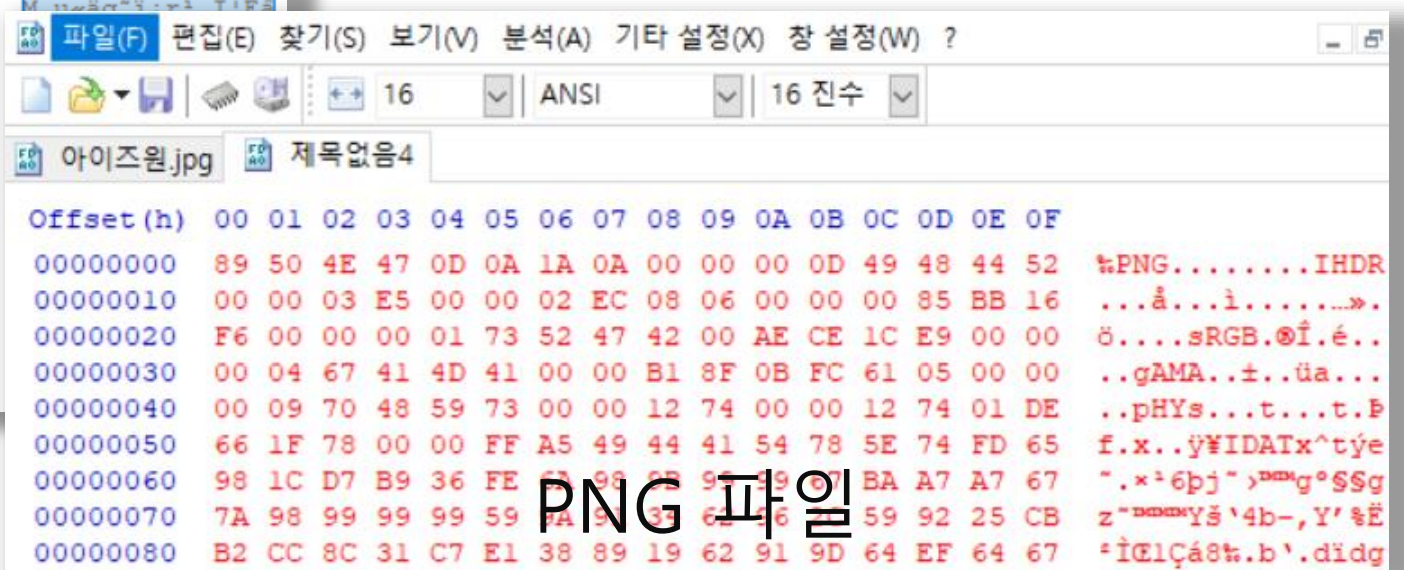


PNG 파일부분만 선택

# IZ\*ONE



Offset (h)	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
0022F040	4D	19	B5	AB	E4	71	98	EF	A1	72	B9	0C	CE	A6	CA	E2
0022F050	6C	0A	CB	F5	62	9A	20	82	E5	DD	47	11	39	6E	4A	28
0022F060	F4	22	D4	E7	28	E0	26	5F	FB	CB	2D	8A	E8	D8	41	90
0022F070	EF	B1	41	EF	41	37	74	57	78	A2	FB	00	DB	9E	5D	06
0022F080	7C	8F	86	78	B1	43	1F	77	73	D4	71	29	49	01	D7	93
0022F090	E5	58	06	95	D0	B4	5D	07	2F	0A	0C	71	6F	B3	36	EE
0022F0A0	67	A9	A0	B9	C8	1C	2D	C5	F6	78	BD	C3	15	AF	4B	83
0022F0B0	F0	B2	D4	1B	17	52	F4	51	13	29	8B	BA	B9	AC	E3	EB
0022F0C0	B4	D0	9E	E5	8C	C1	A2	50	74	E4	B9	E2	41	AA	0E	AE
0022F0D0	2C	51	C5	B5	58	62	9E	EF	65	60	AB	12	3E	EC	55	C1
0022F0E0	D7	E5	DA	F8	EE	98	1D	06	0F	58	E1	55	BE	D8	12	D1
0022F0F0	11	FF	1F	8E	1C	7C	73	F4	B3	10	CE	00	00	00	00	49
0022F100	45	4E	44	AE	42	60	82									



Offset (h)	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00000000	89	50	4E	47	0D	0A	1A	0A	00	00	00	0D	49	48	44	52
00000010	00	00	03	E5	00	00	02	EC	08	06	00	00	00	85	BB	16
00000020	F6	00	00	00	01	73	52	47	42	00	AE	CE	1C	E9	00	00
00000030	00	04	67	41	4D	41	00	00	B1	8F	0B	FC	61	05	00	00
00000040	00	09	70	48	59	73	00	00	12	74	00	00	12	74	01	DE
00000050	66	1F	78	00	00	FF	A5	49	44	41	54	78	5E	74	FD	65
00000060	98	1C	D7	B9	36	FE	6A	98	0B	95	49	67	BA	A7	A7	67
00000070	7A	98	99	99	99	59	PA	98	36	62	46	59	92	25	CB	
00000080	B2	CC	8C	31	C7	E1	38	89	19	62	91	9D	64	EF	64	67

PNG 파일



# IZ\*ONE



# IZ\*ONE

---

모두 다 사랑스러운 우리 아이즈원 멤버들!  
12명의 멤버 중 저의 원 픽 멤버가  
숨어있습니다!! 과연 찾을 수 있으신가요?

CUTE CAT

100

아이즈원.JPG

scpCTF{IZ\*ON3\_5AKUrA}

Submit

SO EASY

300

# IZ\*ONE



사쿠라.PNG



아이즈원원본.jpg

파일(F) 편집(E) 찾기(S) 보기(V) 분석(A) 기타 설정(X) 창 설정(W) ?

16 ANSI 16 진수

아이즈원원본.jpg

Offset(h)	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	
0002B5E0	C0	63	30	E0	12	5A	D7	9E	14	0B	61	71	98	72	68	09	Àc0à.Z*ž..aq~rh.
0002B5F0	48	18	C0	01	18	4C	66	15	48	B6	36	B1	C6	A4	5F	19	H.À..Lf.Hq6±Æ±.
0002B600	8C	C7	02	B9	66	32	C7	19	85	C2	AE	4A	4F	A1	BE	34	œÇ.²f2Ç...Ã@JO;¼4
0002B610	27	7E	47	1D	2F	8D	4F	3C	22	E5	A9	17	17	FC	6D	84	'~G./..O<"â@..üm,,
0002B620	DC	63	6B	5B	96	35	DF	D3	1C	95	60	16	23	AE	37	B8	Ück[-5BÓ..·'.#07,
0002B630	6B	DB	E5	8D	00	B7	5C	60	76	51	BF	2C	75	A4	5F	FF	kŮâ...·\`vQ¿,ux_ÿ
0002B640																	Û

파일(F) 편집(E) 찾기(S) 보기(V) 분석(A) 기타 설정(X) 창 설정(W) ?

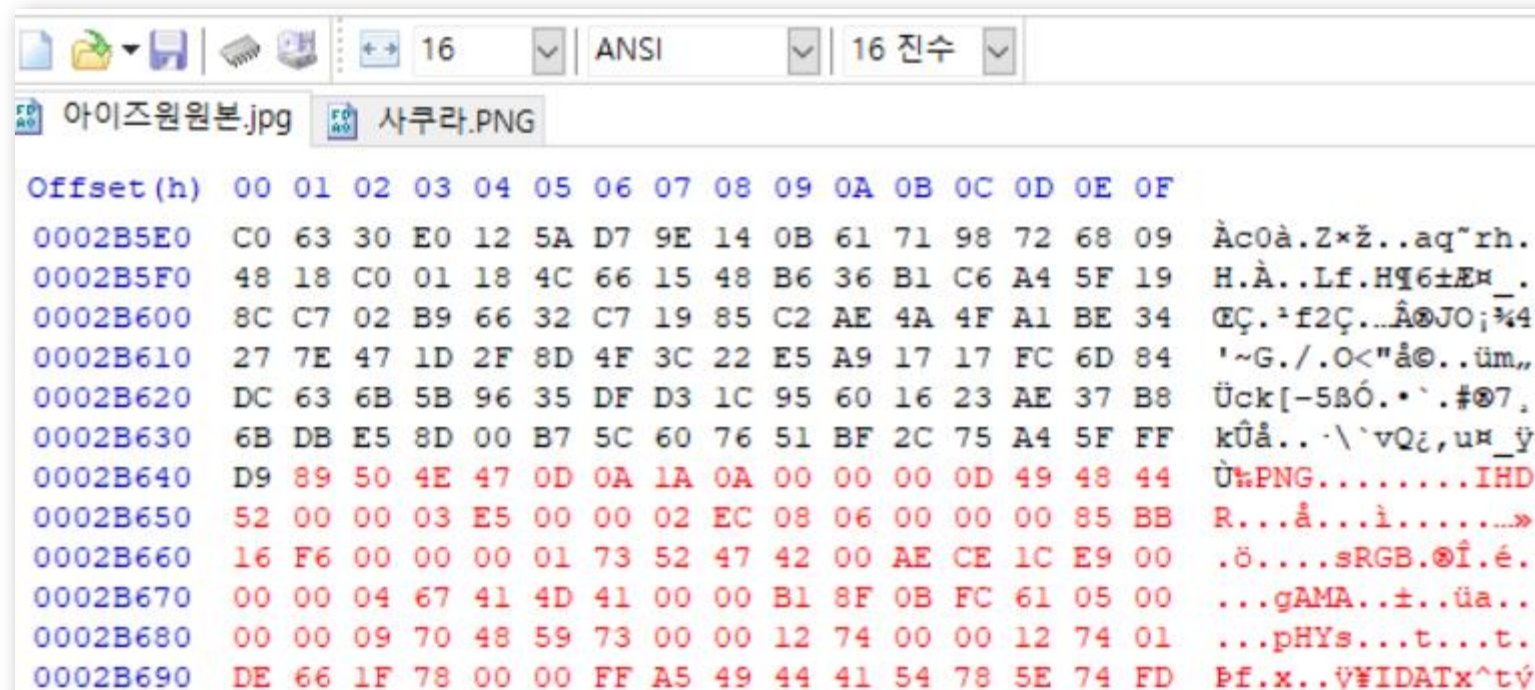
16 ANSI 16 진수

아이즈원원본.jpg 사쿠라.PNG

Offset(h)	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	
00000000	89	50	4E	47	0D	0A	1A	0A	00	00	00	0D	49	48	44	52	%PNG.....IHDR
00000010	00	00	03	E5	00	00	02	EC	08	06	00	00	00	85	BB	16	...â...ì.....».
00000020	F6	00	00	00	01	73	52	47	42	00	AE	CE	1C	E9	00	00	ö....sRGB.®İ.é..
00000030	00	04	67	41	4D	41	00	00	B1	8F	0B	FC	61	05	00	00	..gAMA..±..üa...
00000040	00	09	70	48	59	73	00	00	12	74	00	00	12	74	01	DE	..pHYs...t...t.Þ
00000050	66	1F	78	00	00	FF	A5	49	44	41	54	78	5E	74	FD	65	f.x..ÿ¥IDATx^týe
00000060	98	1C	D7	B9	36	FE	6A	98	9B	99	99	67	BA	A7	A7	67	~.x¹6pj~>³³g°SSg
00000070	7A	98	99	99	99	59	9A	91	34	62	96	2C	59	92	25	CB	z~³³³³Yš¹4b-,Y' %Ë



# IZ\*ONE



IZ\*ONE



# Challenges

CUTE CAT

100

IZ\*ONE

200

SO EASY

300

# SO EASY

---

여러분들에게 하고 싶은 말을 적어보았습니다.  
제 메시지를 해독할 수 있으신가요?

(Key 값이 있는데 설마 못 푸시는 건 아니죠?)

MESSAGE : OGAUQBWEGQRIG

Key : SCP

flag형식 : scpCTF{MESSAGE}

표.PNG

scpCTF{...}

Submit

CUTE CAT

100

SO EASY

300

# SO EASY

원문	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z
1	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A
2	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B
3	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C
4	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D
5	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E
6	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F
7	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G
8	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H
9	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I
10	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J
11	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K
12	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L
13	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M
14	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N
15	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
16	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
17	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
18	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
19	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
20	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
21	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
22	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
23	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
24	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
25	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
26	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z

# SO EASY

원문	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z
1	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A
2	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B
3	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C
4	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D
5	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E
6	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F
7	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G
8	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H
9	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I
10	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J
11	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K
12	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L
13	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M
14	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N
15	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
16	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
17	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
18	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
19	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
20	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
21	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
22	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
23	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
24	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
25	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
26	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z

## 비즈네르 (Vigenere)

빈도 분석법으로 해독이 불가능하고  
Key의 개수가 무궁무진한 장점을 가진

Cryptography

# SO EASY

Key : SCP

암호문 : OGAUQBWEGQRIG

	O	G	A	U	Q	B	W	E	G	Q	R	I	G
-	S	C	P	S	C	P	S	C	P	S	C	P	S

평문

# SO EASY

원문	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z
1	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A
2	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B
3	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C
4	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D
5	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E
6	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F
7	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G
8	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H
9	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I
10	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J
11	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K
12	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L
13	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M
14	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N
15	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
16	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
17	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
18	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
19	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
20	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
21	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
22	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
23	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
24	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
25	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
26	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z

O	15
S	18

-3	W
----	---

G	7
C	2

+5	E
----	---

A	1
P	15

-14	L
-----	---

U	21
S	18

+3	C
----	---



# SO EASY

## Vigenere Tool

ogauqbwegqrig

Copy

Paste

Text Options...



scp



Standard Mode



English



Decode

Encode

Auto Solve (without key)

Instructions

## Auto Solve Options

Min Key Length

3

Max Key Length

10

Iterations

100

Max Results

10

Spacing Mode

Automatic



## Results

Decoded message.

welcomecrypto

# SO EASY

---

여러분들에게 하고 싶은 말을 적어보았습니다.  
제 메시지를 해독할 수 있으신가요?

(Key 값이 있는데 설마 못 푸시는 건 아니죠?)

MESSAGE : OGAUQBWEGQRIG

Key : SCP

flag형식 : scpCTF{MESSAGE}

표.PNG

scpCTF{WELCOMECRYPTO}

Submit

CUTE CAT

100

SO EASY

300

# SO EASY

Key : SCP

평문 : WELCOMECRYPTO

+

S	C	P	S	C	P	S	C	P	S	C	P	S
W	E	L	C	O	M	E	C	R	Y	P	T	O

암호문

# SO EASY

원문	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z
1	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A
2	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B
3	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C
4	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D
5	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E
6	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F
7	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G
8	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H
9	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I
10	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J
11	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K
12	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L
13	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M
14	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N
15	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
16	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
17	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
18	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
19	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
20	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
21	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
22	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
23	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
24	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
25	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
26	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z

S O  
W

C Q  
O

P G  
R

C G  
E

P B  
M

S Q  
Y

P A  
L

S W  
E

S R  
P

S U  
C

C E  
C

S I  
T

# SO EASY

Key : SCP

암호문 : OGAUQBWEGQRIG

O	G	A	U	Q	B	W	E	G	Q	R	I	G
---	---	---	---	---	---	---	---	---	---	---	---	---

# Challenges

CUTE CAT

100

IZ\*ONE

200

SO EASY

300

# Thank you

---

2020.09.08 Forensic & Crypto