

ISCC2021 MISC WP

原创

[Atkxor](#) 于 2021-05-26 00:06:53 发布 2349 收藏 9

分类专栏: [WriteUp CTF](#) 文章标签: [ISCC](#)

版权声明: 本文为博主原创文章, 遵循 [CC 4.0 BY-SA](#) 版权协议, 转载请附上原文出处链接和本声明。

本文链接: https://blog.csdn.net/qq_46150940/article/details/116460603

版权



[WriteUp](#) 同时被 2 个专栏收录

15 篇文章 0 订阅

订阅专栏



[CTF](#)

39 篇文章 2 订阅

订阅专栏

目录

练武

[李华的红包](#)

[Retrieve the passcode](#)

[海市蜃楼-1](#)

[区块链](#)

[美人计](#)

[我的折扣是多少](#)

[海市蜃楼-2](#)

[Hack the Victim](#)

[检查一下](#)

[变异的SM2](#)

[混乱的音频](#)

[小明的宠物兔](#)

擂台

[小明的表情包](#)

[Base小偷](#)

[真作假时假亦真](#)

来自菜鸡的复现

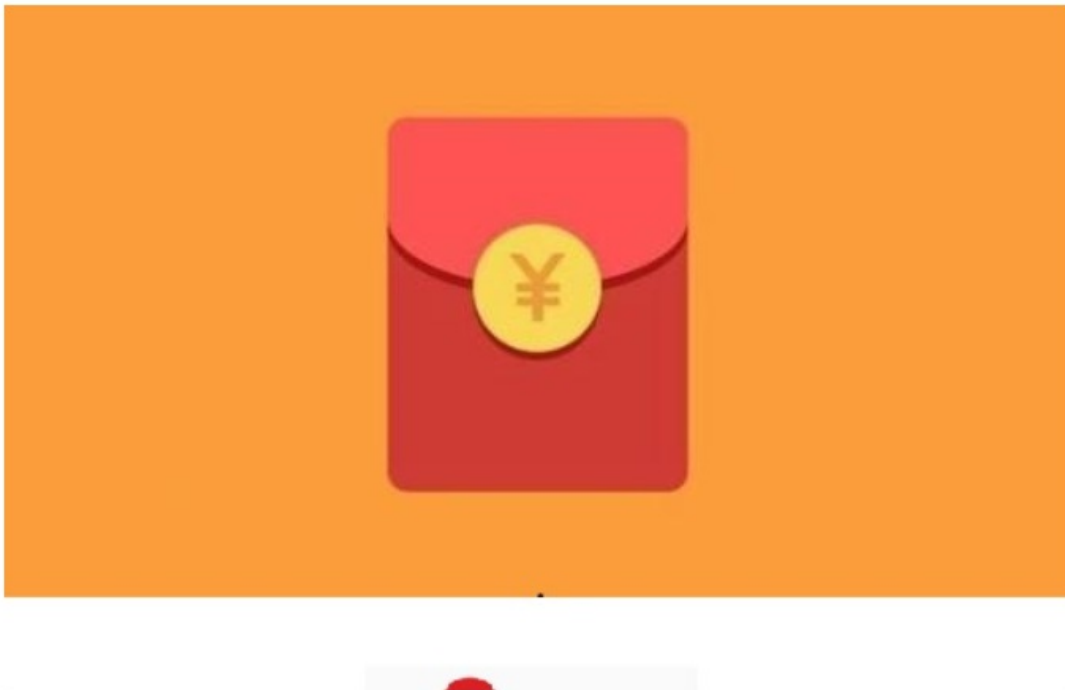
练武

李华的红包

题目描述:

大年初一，李华给爸爸拜年，从事计算机行业的父亲发给李华一张图片和一张银行卡。父亲告诉李华密码就藏在图片中，但是李华打开图片后却百思不得其解。你能帮助李华拿到密码吗？

下载附件，

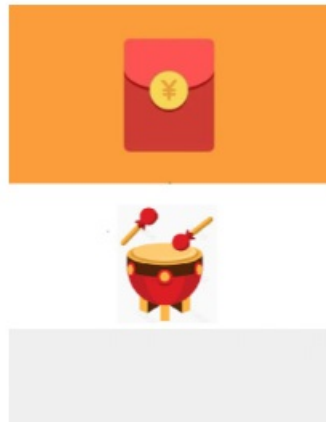


https://blog.csdn.net/qq_46150940

直接binwalk分离得到hongbao.txt

24,43,13,13,12,21,43

没啥思路，看起来图片不完全，修改图片高度，图片下面有一个鼓，联想到敲击码



https://blog.csdn.net/qq_46150940

对照敲击码表

敲击码表:

1	2	3	4	5	
1	A	B	C/K	D	E
2	F	G	H	I	J
3	L	M	N	O	P
4	Q	R	S	T	U
5	V	W	X	Y	Z

https://blog.csdn.net/qq_46150940

转换得到 `ISCCBFS`，有点坑，说是银行卡密码，其实并不是六位数字，最终flag为

```
ISCC{ISCCBFS}
```

Retrieve the passcode

题目描述:

Scatter说他能解开这个古怪的密码，你呢？来试试吧！Flag格式：ISCC{XXX}，XXX为小写字母串，不包括空格

xyz.txt

```
1:3:1
1.25:3:1
1.5:3:1
1.75:3:1
2:3:1
2:2.75:1
2:2.5:1
2:2.25:1
```

2:2:1
2:1.75:1
2:1.5:1
1:2.25:1
1.25:2.25:1
1.5:2.25:1
1.75:2.25:1
1:1.5:1
1.25:1.5:1
1.5:1.5:1
1.75:1.5:1
3:3:1
3.25:3:1
3.5:3:1
3.75:3:1
4:3:1
3.25:2.25:1
3.5:2.25:1
3.75:2.25:1
4:2.25:1
4:2:1
4:1.75:1
4:1.5:1
3:1.5:1
3.25:1.5:1
3.5:1.5:1
3.75:1.5:1
3:1.75:1
3:2:1
3:2.25:1
3:2.5:1
3:2.75:1
5:3:1
5.25:3:1
5.5:3:1
5.75:3:1
6:3:1
6:2.25:1
6:2:1
6:1.75:1
6:1.5:1
5.75:1.5:1
5.5:1.5:1
5.25:1.5:1
5:1.5:1
5:2.25:1
5.25:2.25:1
5.5:2.25:1
5.75:2.25:1
5:2.5:1
5:2.75:1
7:3:1
7.25:3:1
7.5:3:1
7.75:3:1
8:3:1
8:2.75:1
8:2.5:1
8:2.25:1
8:2:1

8:1.75:1
8:1.5:1
9:3:1
9.25:3:1
9.5:3:1
9.75:3:1
10:3:1
10:2.75:1
10:2.5:1
10:2.25:1
9.75:2.25:1
9.5:2.25:1
9.25:2.25:1
9:2.25:1
9:2:1
9:1.75:1
9:1.5:1
9.25:1.5:1
9.5:1.5:1
9.75:1.5:1
10:1.5:1
11:3:1
11.25:3:1
11.5:3:1
11.75:3:1
12:3:1
12:2.75:1
12:2.5:1
12:2.25:1
12:2:1
12:1.75:1
12:1.5:1
11.75:1.5:1
11.5:1.5:1
11.25:1.5:1
11:1.5:1
11:1.75:1
11:2:1
11:2.25:1
11:2.5:1
11:2.75:1
11.25:2.25:1
11.5:2.25:1
11.75:2.25:1

百度找到的脚本，修改一下：

```

import matplotlib.pyplot as plt
import numpy as np
from mpl_toolkits.mplot3d import Axes3D

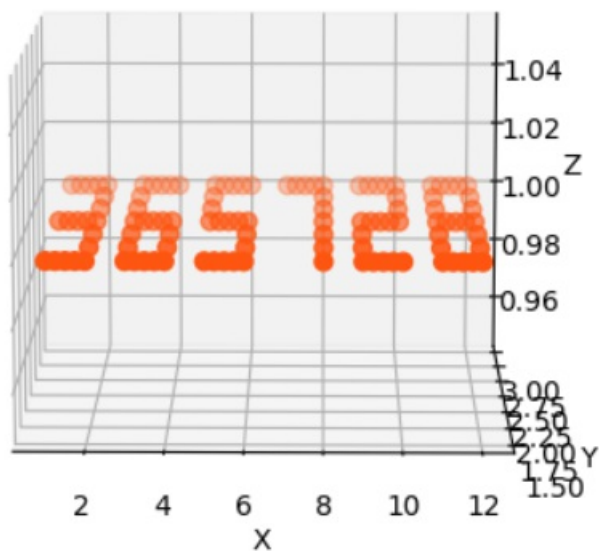
fig = plt.figure()
ax = fig.gca(projection="3d")

xs, ys, zs = np.loadtxt('xyz.txt', delimiter=',', unpack=True)
ax.scatter(xs, ys, zs, zdir="z", c="#FF5511", marker="o", s=40)
ax.set(xlabel="X", ylabel="Y", zlabel="Z")

plt.show()

```

得到



https://blog.csdn.net/qq_46150940

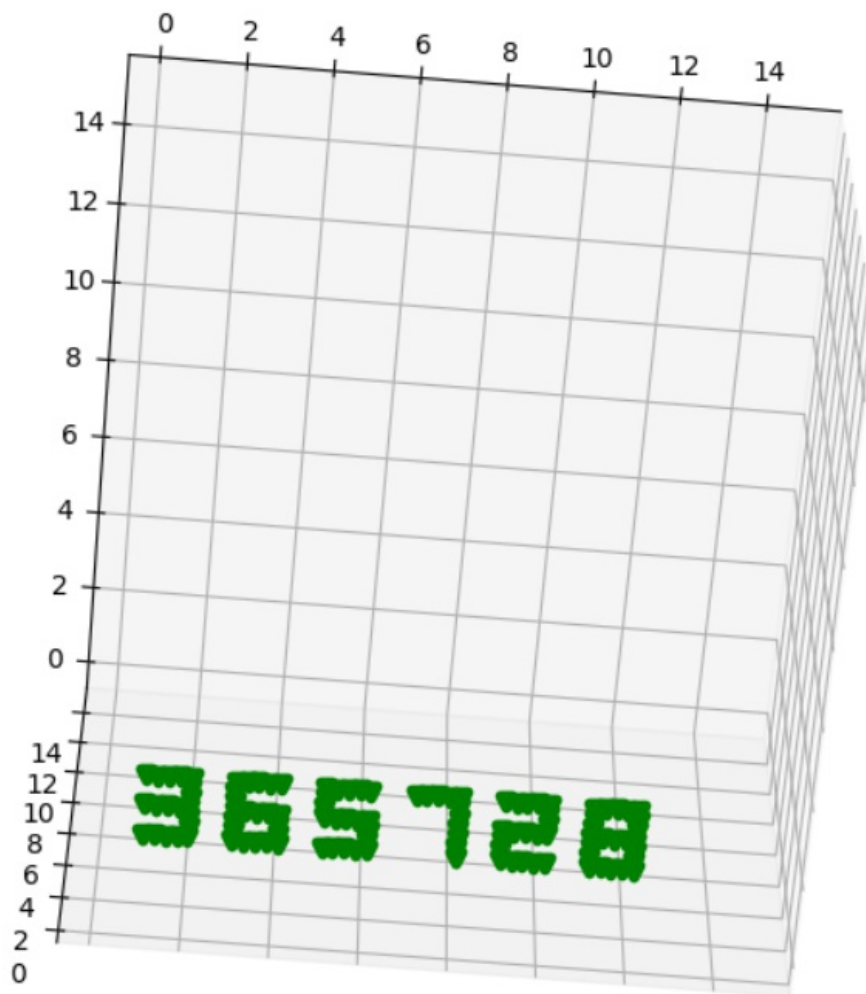
脚本2:

```

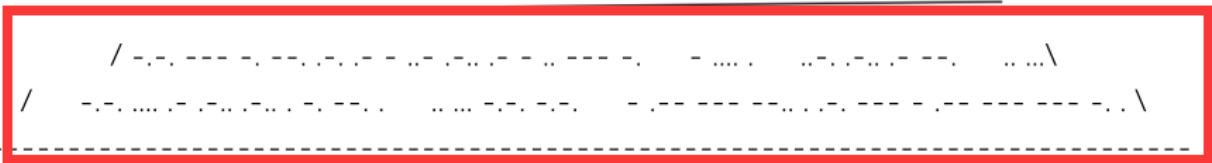
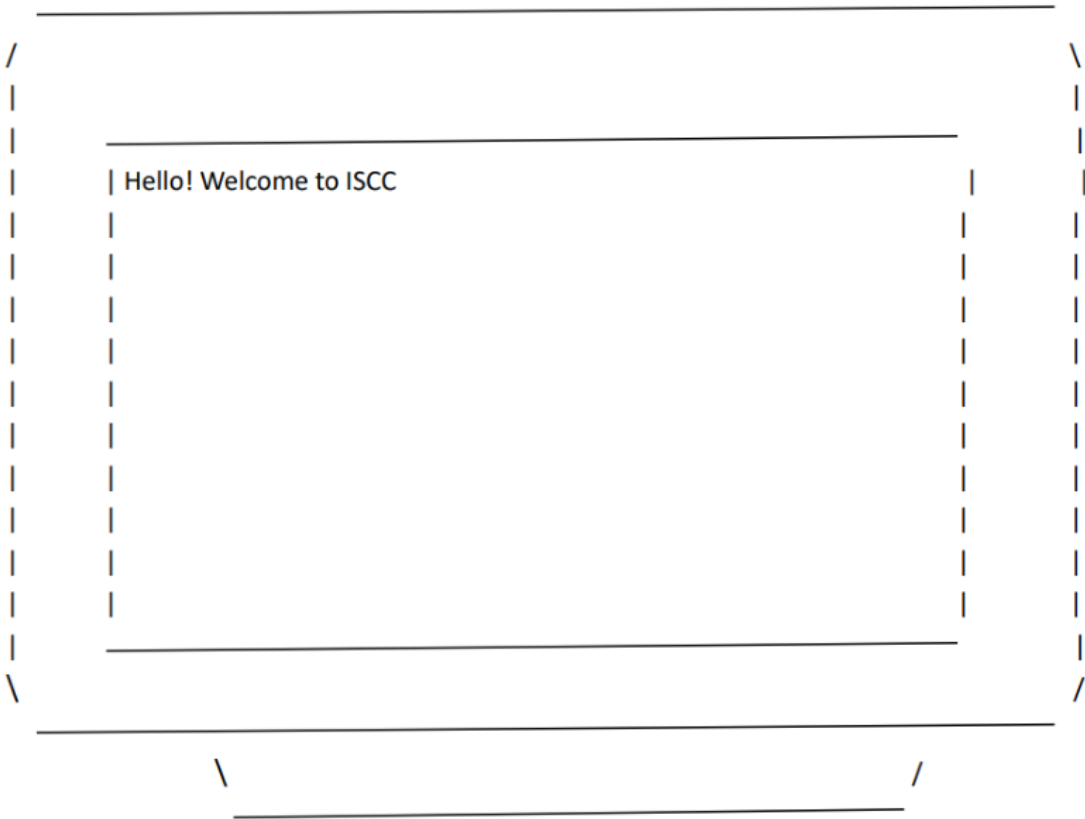
from matplotlib import pyplot as plt
from mpl_toolkits.mplot3d import Axes3D
dot1 = [[1, 3, 1], [1.25, 3, 1], [1.5, 3, 1], [1.75, 3, 1], [2, 3, 1], [2, 2.75, 1], [2, 2.5, 1], [2, 2.25, 1],
[2, 2, 1], [2, 1.75, 1], [2, 1.5, 1], [1, 2.25, 1], [1.25, 2.25, 1], [1.5, 2.25, 1], [1.75, 2.25, 1], [1, 1.5, 1],
[1.25, 1.5, 1], [1.5, 1.5, 1], [1.75, 1.5, 1], [3, 3, 1], [3.25, 3, 1], [3.5, 3, 1], [3.75, 3, 1], [4, 3, 1],
[3.25, 2.25, 1], [3.5, 2.25, 1], [3.75, 2.25, 1], [4, 2.25, 1], [4, 2, 1], [4, 1.75, 1], [4, 1.5, 1], [3, 1.5,
1], [3.25, 1.5, 1], [3.5, 1.5, 1], [3.75, 1.5, 1], [3, 1.75, 1], [3, 2, 1], [3, 2.25, 1], [3, 2.5, 1], [3, 2.75,
1], [5, 3, 1], [5.25, 3, 1], [5.5, 3, 1], [5.75, 3, 1], [6, 3, 1], [6, 2.25, 1], [6, 2, 1], [6, 1.75, 1], [6, 1.5,
1], [5.75, 1.5, 1], [5.5, 1.5, 1], [5.25, 1.5, 1], [5, 1.5, 1], [5, 2.25, 1], [5.25, 2.25, 1], [5.5, 2.25, 1],
[5.75, 2.25, 1], [5, 2.5, 1], [5, 2.75, 1], [7, 3, 1], [7.25, 3, 1], [7.5, 3, 1], [7.75, 3, 1], [8, 3, 1], [8,
2.75, 1], [8, 2.5, 1], [8, 2.25, 1], [8, 2, 1], [8, 1.75, 1], [8, 1.5, 1], [9, 3, 1], [9.25, 3, 1], [9.5, 3, 1],
[9.75, 3, 1], [10, 3, 1], [10, 2.75, 1], [10, 2.5, 1], [10, 2.25, 1], [9.75, 2.25, 1], [9.5, 2.25, 1], [9.25,
2.25, 1], [9, 2.25, 1], [9, 2, 1], [9, 1.75, 1], [9, 1.5, 1], [9.25, 1.5, 1], [9.5, 1.5, 1], [9.75, 1.5, 1], [1
0, 1.5, 1], [11, 3, 1], [11.25, 3, 1], [11.5, 3, 1], [11.75, 3, 1], [12, 3, 1], [12, 2.75, 1], [12, 2.5, 1], [12
, 2.25, 1], [12, 2, 1], [12, 1.75, 1], [12, 1.5, 1], [11.75, 1.5, 1], [11.5, 1.5, 1], [11.25, 1.5, 1], [11, 1.5,
1], [11, 1.75, 1], [11, 2, 1], [11, 2.25, 1], [11, 2.5, 1], [11, 2.75, 1], [11.25, 2.25, 1], [11.5, 2.25, 1], [
11.75, 2.25, 1]] # 得到五个点
plt.figure() # 得到画面
ax1 = plt.axes(projection='3d')
ax1.set_xlim(0, 15) # X轴, 横向向右方向
ax1.set_ylim(15, 0) # Y轴, 左向与X,Z轴互为垂直
ax1.set_zlim(0, 15) # 竖向为Z轴
color1 = ['r', 'g', 'b', 'k', 'm']
marker1 = ['o', 'v', '1', 's', 'H']
i = 0
for x in dot1:
    ax1.scatter(x[0], x[1], x[2], c=color1[1],
                marker=marker1[1], linewidths=4) # 用散点函数画点
    i += 1
plt.show()

```

运行得到



密码口令是 **365728**，解压压缩包，得到pdf文档



https://blog.csdn.net/qq_46150940

摩斯密码解密

```
CONGRATULATIONTHEFLAGICHALLENGEISCCTWOZEROTWOONE
```

根据提示最终flag为

```
ISCC{congratulationtheflagischallengeiscctwozerotwoone}
```

海市蜃楼-1

题目描述：或许你看到的只是海市蜃楼...

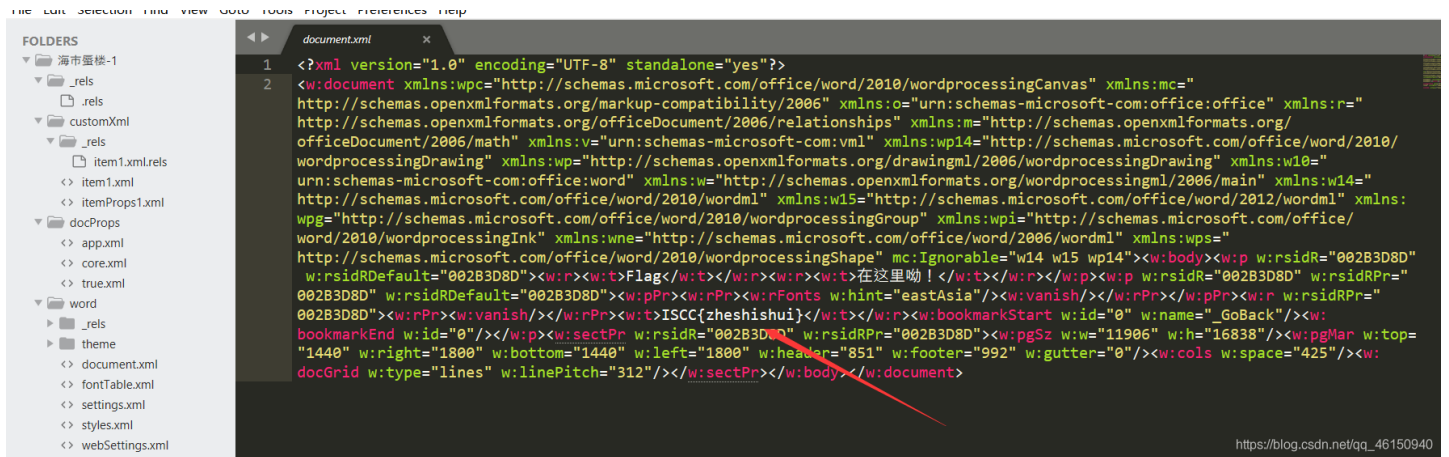
下载附件，是个docx文档，看到了压缩包文件头PK

```
PK
***** 塾 eR*****
* * 海市蜃楼-1/up * @c 涪嫻峰競铨寫ㄚ-1/PK
***** a 替 R***** *' * 海市蜃楼-1/海市蜃楼-1/up## 1 m≈捣甯偏涪
好?1/嫻峰競铨寫ㄚ-1/PK
```

*****?

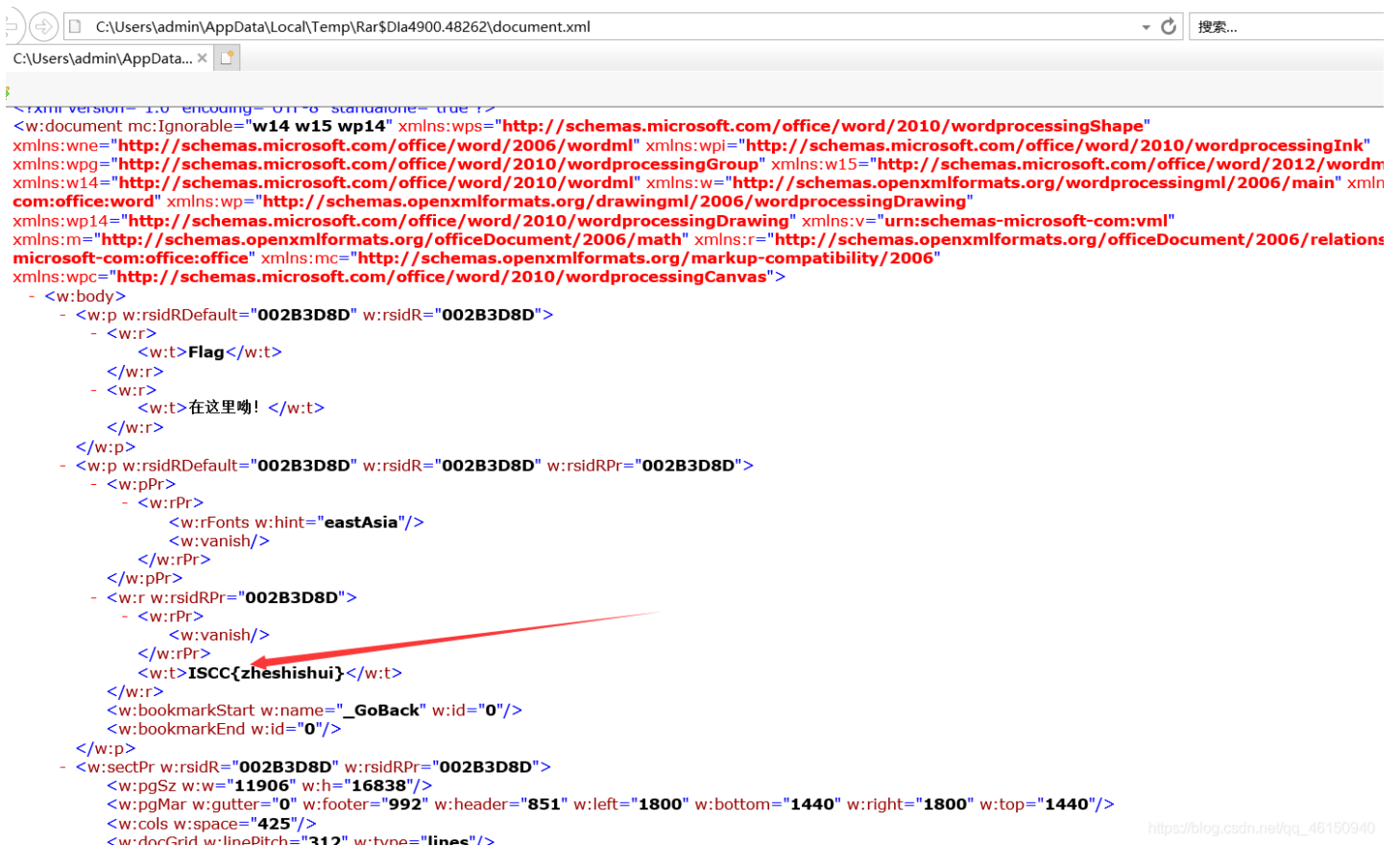
https://blog.csdn.net/qq_46150940

修改后缀为zip, 解压, 在document.xml文件中找到flag



方法二:

使用winrar在文件中搜索ISCC字符串



https://blog.csdn.net/qq_46150940

区块链

参考: <https://terminalcats.com/0x41414141-ctf-blockchain-sanity-check-400/>

```
pragma solidity ^0.7.0; // 指定所需的编译器版本
//SPDX-License-Identifier: UNLICENSED

contract look_look {
    function sloc111() public pure returns (string memory){ //public智能合约外部和内部都可使用的方法
        return "flag{}";
    }
}
```

合约地址: 0x0ed72dfd4c63dd97df8fec07e5a6bba466c6adf5

需要挂代理, 访问<https://rinkeby.etherscan.io/>

第一次做智能合约方面的题, 输入合约地址, 然后点击Contract

Etherscan Rinkeby Testnet Network

Contract 0x0ed72dfd4c63dd97df8fec07e5a6bba466c6adf5

Contract Overview

Balance: 0 Ether

More Info

My Name Tag: Not Available

Contract Creator: 0x3598f8763bd3afd66a... at txn 0xb091eb263e976c30f4...

Transactions Internal Txns **Contract** Events

Are you the contract creator? [Verify and Publish](#) your contract source code today!

[Decompile ByteCode](#) [Switch to Opcodes View](#) [Similar Contracts](#)

0x608060405234801561001057600080fd5b506004361061002b5760003560e01c8063582840f214610030575b600080fd5b6100386100b3565b6040518080602001828103825283818151815260200191508051906020019080838360005b8381101561007857808201518184015260208101905061005d565b5050505090810190601f1680156100a55780820380516001836020036101000a031916815260200191505b509250505060405180910390f35b600805460018160011615610100203166002900480601f0160208091040260200160405190810160405280929190818152602001828054600181600116156101000203166002900480156101495780601f1061011e57610100808354040283529160200191610149565b82019190600526020600020905b81548152906001019060200180831161012c57829003601f168201915b50505050508156fea2646970667358221220f504333c47ae3ae79f61fdc95045cc4c6d40454efe3b2eb71eb286f47b30d75464736f6c6343000700033

点击Decompile ByteCode, 到这就卡住了

rinkeby.etherscan.io/bytecode-decompiler?a=0x0ed72dfd4c63dd97df8fec07e5a6bba466c6adf5

Not available or unverified.

0x608060405234801561001057600080fd5b506004361061002b5760003560e01c8063582840f214610030575b600080fd5b6100386100b3565b6040518080602001828103825283818151815260200191508051906020019080838360005b8381101561007857808201518184015260208101905061005d565b5050505090810190601f1680156100a55780820380516001836020036101000a031916815260200191505b509250505060405180910390f35b6008054600181600116156101000203166002900480601f0160208091040260200160405190810160405280929190818152602001828054600181600116156101000203166002900480156101495780601f1061011e57610100808354040283529160200191610149565b82019190600526020600020905b81548152906001019060200180831161012c57829003601f168201915b50505050508156fea2646970667358221220f504333c47ae3ae79f61fdc95045cc4c6d40454efe3b2eb71eb286f47b30d75464736f6c6343000700033

Attribution: This decompiler uses the [Panoramix decompiler](#) created by [@Tomasz Kolinko](#)

[Decompile ByteCode](#)

ByteCode Decompile Result:

```
1 #
2 # Panoramix v4 Oct 2019
3 # Decompiled source of rinkeby:0x0ed72dfd4c63dd97df8fec07e5a6bba466c6adf5
4 #
5 # Let's make the world open source
6 #
7 |
8 def storage:
9   unknown582840f2 is array of uint256 at storage 0
```


第一个二维码:

```
U2FsdGVkX1/Ka+sScszwQkwh0+VLiJwV/6IFg5W+TfNHGxG2qZsIr2iwMwb9X9Iu
3GuGwMPOt027z8vNppD2D50fwsD+8VWhdtW9J4cewYivH/Z/7GoUvcJXJMrvf+vu
+CBqWDGp6HwD0e5whGhuzlK0ZtBcDZdPDSIHA7+GuU1ifp8PcFctJPgiuk143REE
+pKFiSjXo1XLR1vJCdGY9w5mXfb1wPrb2U7r/v5noP8=
```

第二个二维码:

```
U2FsdGVkX19e0Y/pDh8+vPAcvfkLi1XLUneVzjLL0Mu153sKK8UpobdC0iPIv4KE
```

图片属性给的提示, AES加密, 密钥是ISCC2021

```
Try AES, and you will get the flag. ISCC2021
```

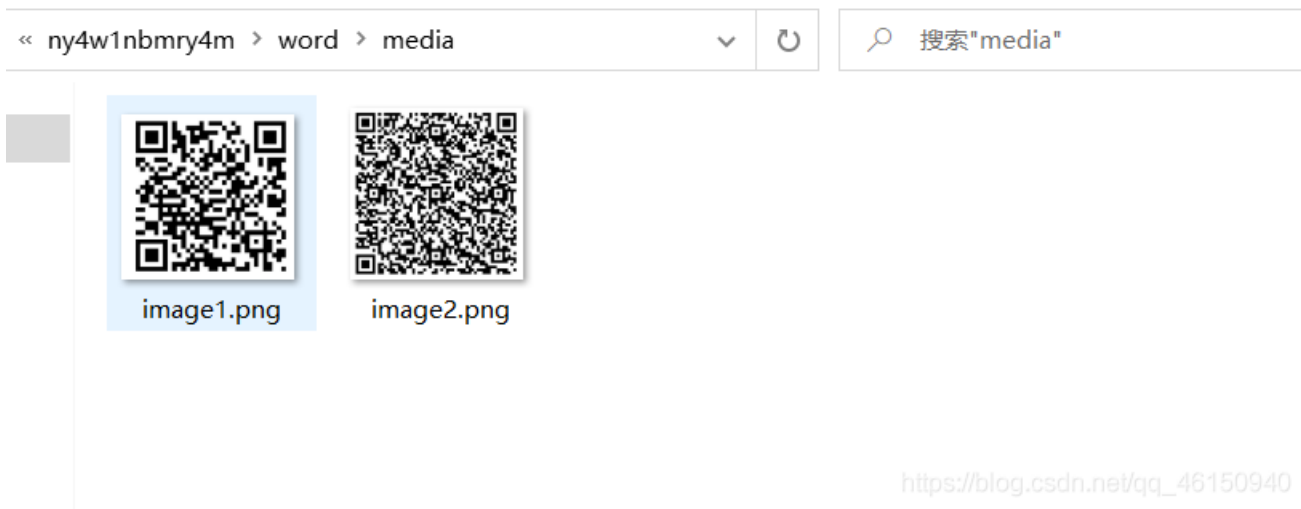
对第一个二维码内容, 解了三次AES加密得到

```
y0u_h@ve_fallen_int0_tHe_tr@p_0f_tHe_be@uty_!
```

第二个二维码内容, 进行AES解密发现不行, 然后尝试DES解密结果成功了, 得到flag

```
ISCC{be@uty_1like$_Y0u_2021ISCC}
```

再复现的时候, 附件中就剩一张二维码了, 把docx后缀转换成zip解压, 出题人变狗了, 把第二张二维码藏在这了, 和上面的方法一样, 得到flag



我的折扣是多少

题目描述:

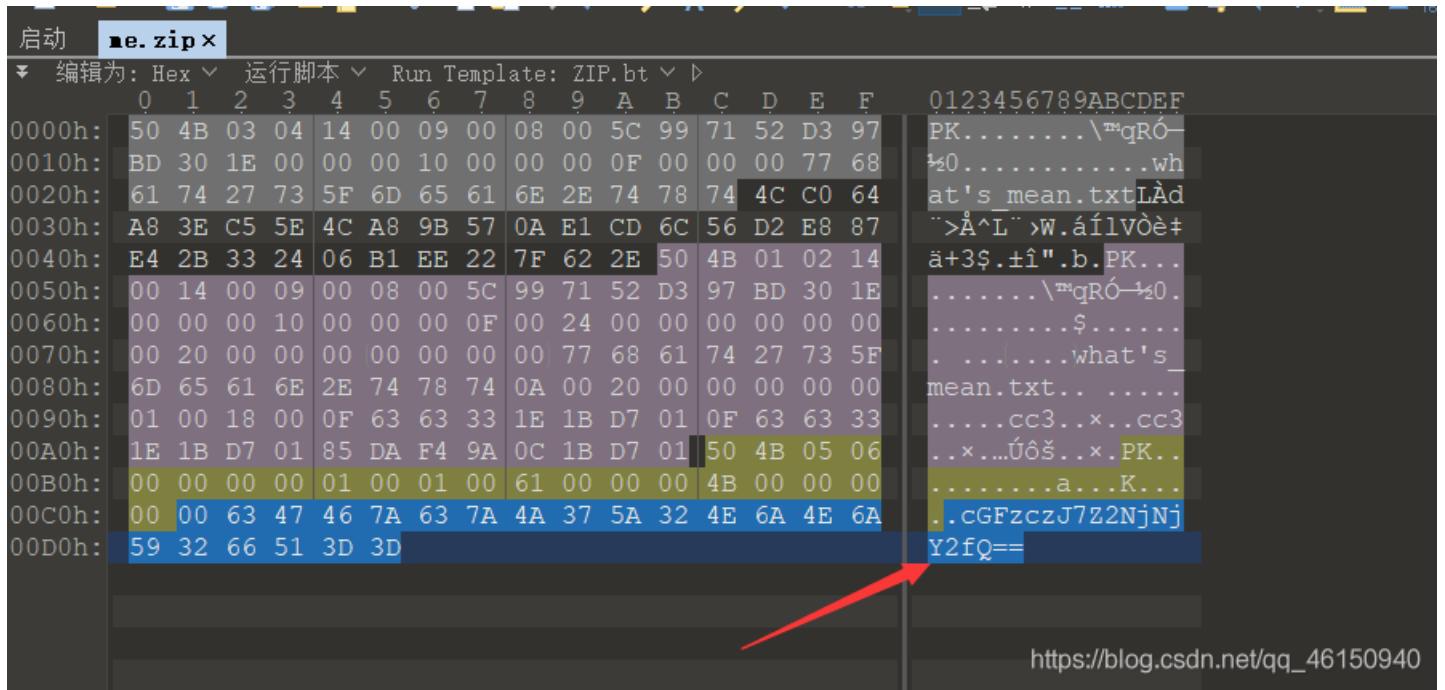
小c同学去参加音乐会, 在官网买票时发现了有提示消息, 提供给有“give_me_discount”的压缩包, 好奇的小c下载下来, 但却无从下手, 为了节省零花钱, 你能帮帮他吗?

命令行运行give.exe, 得到

```
pass1{\u006b\u0072\u0077}
```

把中间的进行unicode转码得到: pass1{krw}

010打开me.zip, 在末尾发现Base编码



base64解码得到: pass2{gcc666}

所以压缩包口令为krwgcc666, 解压得到

```
eW91Zm91bmRtZT8=
```

base64解码

```
eW91Zm91bmRtZT8=
```

清空 加密 解密 解密结果以16进制显示

```
youfoundme?
```

https://blog.csdn.net/qq_46150940

最后使用MP3Stego

```
decode -X -P youfoundme? discount.mp3
```

ISCC{LFXXK4TENFZWG33VNZ2DELRRGU=====}

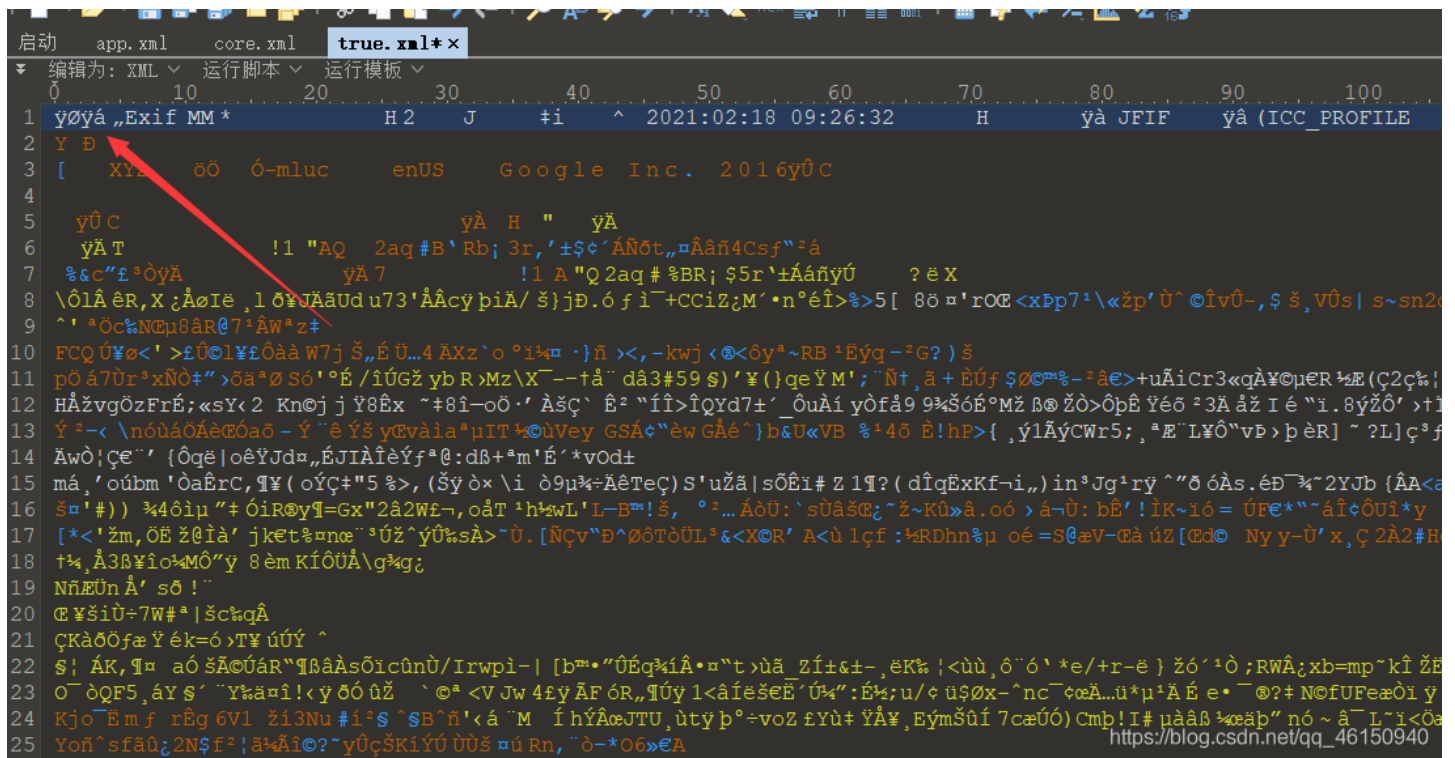
base32解码, 最终flag为

ISCC{Yourdiscount2.15}

海市蜃楼-2

foremost分离图片, 得到加密的压缩包

由于这是组合题, 所以要在海市蜃楼-1中去找线索。最终发现true.xml有猫腻, 原来是jpg文件



修改为jpg





https://blog.csdn.net/qq_46150940

海市蜃楼-1的flag也有猫腻，结合flag和图片，最终得到压缩包的口令为zhongnanshan，解压海市蜃楼-2的压缩包

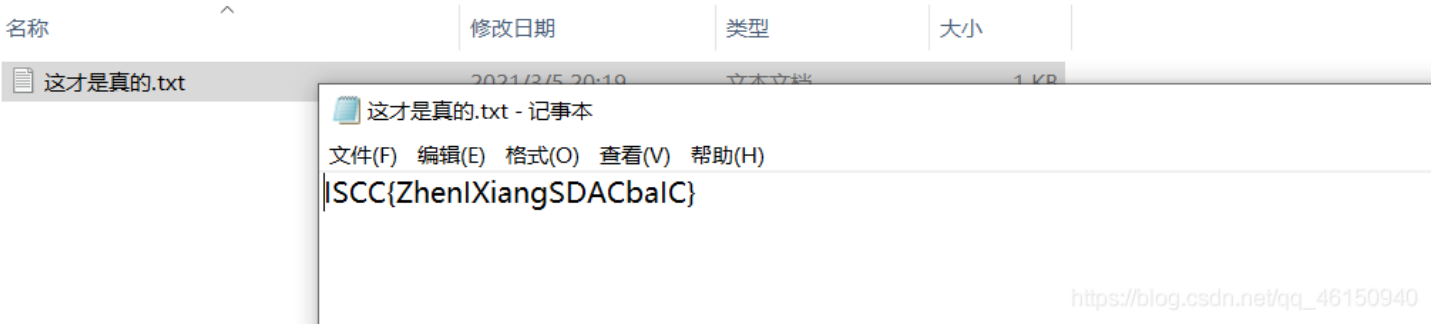


https://blog.csdn.net/qq_46150940

扫码得到一个网址，内容为 `ZWFzeQ==`，base解码后为 `easy`

`https://ctewm.com/aTvQcE/kva11w`

继续往下走，foremost分离图片得到压缩包，口令为easy



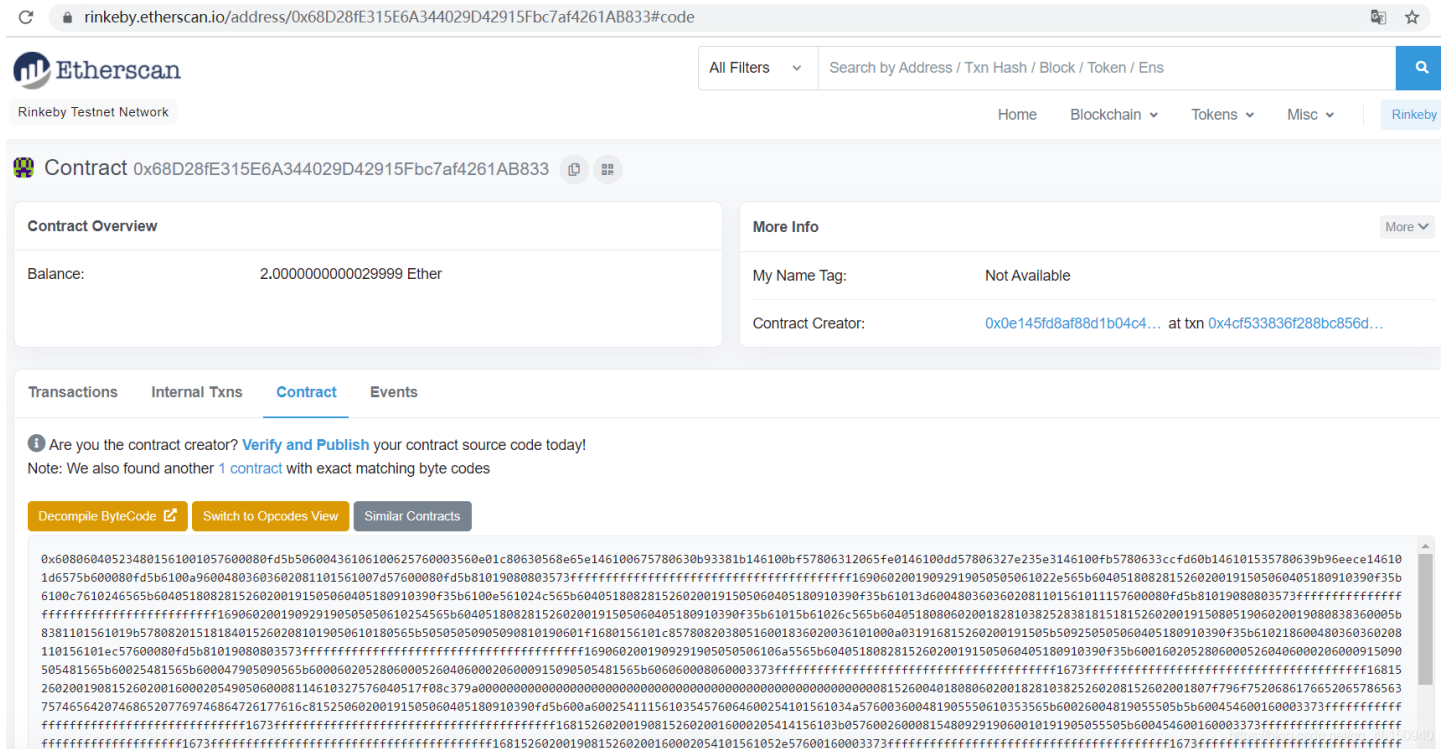
Hack the Victim

题目

```
Victim为含有漏洞的智能合约，在 Rinkeby测试网络的合约地址为：
0x68D28fE315E6A344029D42915Fbc7af4261AB833
接口为：
contract Victim {
function withdraw() public returns (string memory ){
return "ISCC{xxxxx}";
}
}
请编写攻击合约，实现对 Victim 的攻击，获取 flag。
```

合约地址

<https://rinkeby.etherscan.io/address/0x68D28fE315E6A344029D42915Fbc7af4261AB833>

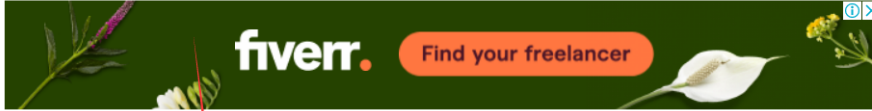


16进制转字符串

16进制到文本字符串

1 0x608060405234801561001057600080fd5b50600436106100625760003560e01c80630568e65e146100675780630b93381b146100bf57806312065fe0146100dd57806327e235e3146100fb5780633ccfd60b146101535780639b96eece146101d6575b600080fd5b6100a96004803603602081101561007d57600080fd5b81019080803573fff...

16进制转字符 字符转16进制 测试用例 清空结果 复制结果



1 0x608060405234801561001057600080fd5b50600436106100625760003560e01c80630568e65e146100675780630b93381b146100bf57806312065fe0146100dd57806327e235e3146100fb5780633ccfd60b146101535780639b96eece146101d6575b600080fd5b6100a96004803603602081101561007d57600080fd5b81019080803573fff...

https://blog.csdn.net/qq_46150940

也可以直接点击Decompile ByteCode进行反编译

An Ethereum Virtual Machine (EVM) decompiler for extracting information from Runtime bytecode and presenting it in a more human-readable form. Useful for debugging smart contracts where the original source code is not available or unverified.

0x608060405234801561001057600080fd5b50600436106100625760003560e01c80630568e65e146100675780630b93381b146100bf57806312065fe0146100dd57806327e235e3146100fb5780633ccfd60b146101535780639b96eece146101d6575b600080fd5b6100a96004803603602081101561007d57600080fd5b81019080803573fff...

Attribution: This decompiler uses the Panoramix decompiler created by @Tomasz Kolinko

Decompile Bytecode

ByteCode Decompile Result:

```
39 def _fallback() payable: # default function
40     revert
41
42 def withdraw() payable:
43     if balances[caller]:
44         revert with 0, 'you have executed the withdrawal'
45     if success > 10:
46         if success >= 100:
47             stor4 = 2
48         else:
49             stor4 = 3
50     if unknown568e65e[caller] == stor4:
51         success++
52     if unknown568e65e[caller] < stor4:
53         unknown568e65e[caller]++
54         call caller with:
55             value stor3 wei
56             gas gas.remaining wei
57         log @xae0e6674: caller, stor3, bool(ext_call.success)
58     balances[caller] = stor3 * unknown568e65e[caller]
59     if balances[caller] == stor3:
60         revert with 0, 'failed to withdraw'
61     return 'ISCC(h@ve_fun~Re-EntRan(y).....)'
62
```

https://blog.csdn.net/qq_46150940

检查一下

题目描述: 你真的了解png文件的格式吗?

用pngcheck检查一下图片，发现最后一个IDAT块异常

```
C:\Windows\System32\cmd.exe
chunk IDAT at offset 0x742bba, length 8192
chunk IDAT at offset 0x744bc6, length 8192
chunk IDAT at offset 0x746bd2, length 8192
chunk IDAT at offset 0x748bde, length 8192
chunk IDAT at offset 0x74abea, length 8192
chunk IDAT at offset 0x74cbf6, length 8192
chunk IDAT at offset 0x74ec02, length 8192
chunk IDAT at offset 0x750c0e, length 8192
chunk IDAT at offset 0x752c1a, length 8192
chunk IDAT at offset 0x754c26, length 6181
chunk IDAT at offset 0x756457, length 178
chunk IEND at offset 0x756515, length 0
No errors detected in 221B.png (942 chunks, 79.0% compression).
D:\CTF\MISC\隐写\pngcheck-3.0.2-win32>
```

https://blog.csdn.net/qq_46150940

010复制出来

地址	值
746BD2h	IDAT
748BDEh	IDAT
74ABEAh	IDAT
74CBF6h	IDAT
74EC02h	IDAT
750C0Eh	IDAT
752C1Ah	IDAT
754C26h	IDAT
756457h	IDAT

https://blog.csdn.net/qq_46150940

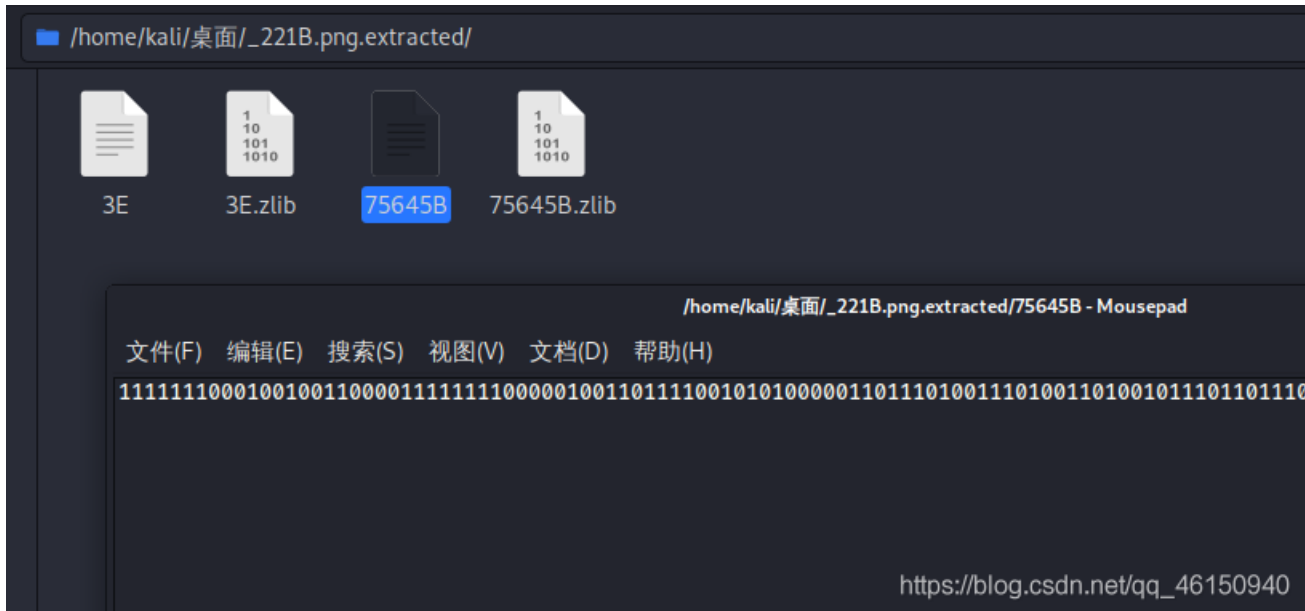
使用脚本解压zlib

```
import zlib
s = ''
78 9C 5D 52 09 0E C0 20 0C FA 12 FC FF 73 CB 6A
39 54 97 4C 7B 41 2B E4 2C 00 3C DF 7F 04 69 B3
AC E7 CA D9 27 E4 37 1D 27 15 33 01 E3 91 75 AB
9D F4 D7 29 F3 E2 AF 13 75 21 CC AC 69 3D BB C8
0A 2F 8C E0 26 D0 25 F9 F4 62 A2 08 C5 0A A0 69
90 35 0D 34 E1 39 8B 8B 2A 5D A0 CA DE B4 FE 23
61 59 CB 60 3B EE DA 82 5E 2E 1E E2 46 15 D8 8D
AE 46 33 54 95 23 8A AD 82 FD C0 F5 CC 86 2C 76
69 1F 34 74 8D 5F 22 70 2B 86 8A CC FA 69 EA 6D
A4 12 DC 99 A5 21 08 B9 27 5F F3 37 40 A4 8C AA
E7 1A A5 BE F4 AB E2 A5 B3 68 21 23 C6 07 2E D4
9F 5D E1 77 9E 9A
'''
s = s.replace(' ', '').replace('\n', '')
b = bytes.fromhex(s)
flag = zlib.decompress(b)
print(flag)
```

得到

```
111111100010010011000011111111000001001101111001010100000110111010011101001101001011101101110100000111011110101
11011011101001011110111000101110110000101110111000010010000011111110101010101010111111100000000111001001101
0000000010010110111000010101010100000110100001110101101101110010100000111001001000111101111001000110000010110110
0111111001010110101101110000100011110100110001001100010010101110000111111111010100110101001111110010110001100
11011111011100011001111001000111100111000010001101000011010010000001011001010110111010001101100111000111010
011110111110001010011011011001010100011111010000000001110110110101000101101111111000001111000010101101010000
01010111100101010001011010111010010100110010111110010101110101101111000001101001101110100101010000010100111011
000001000011101000011001001011111110100100100000111100110
```

直接binwalk图片，也能得到同样的结果



一共841位，猜测是29*29的二维码，直接使用脚本

```

from PIL import Image

MAX = 29
pic = Image.new("RGB", (MAX, MAX))
str = "111111000100100110000111111100000100110111100101010000011011101001110100110100101110110111010000011101
1110101110101110100101111011100010111011000001011101110000100100000111111101010101010101111110000000011100
100110100000001001011011100001010101010000011010000111010110111001010000011100100100011110111100100011000001
0110110011111100101011010110111000010001111010011000100110001001010111000011111111100101001101010011111001011
00011001101111101110001100111100100011100111000010001101000011010010000001011001010101101110100011011010011100
011101001111011110001010011011011011001010100011111010000000001110110110100010110111111100000111100001010110
1010000010101111001010100010110101110100101001100101111100101011101011010111100000110100110111010010101000001010
0111011000001000011101000011001001011111110100100100000111100110"
i=0
for y in range (0,MAX):
    for x in range (0,MAX):
        if(str[i] == '1'):
            pic.putpixel([x,y],(0, 0, 0))
        else:
            pic.putpixel([x,y],(841,841,841))
        i = i+1
pic.show()
pic.save("flag.png")

```

扫码得到flag

变异的SM2

附件

```

#server.py
from gmssl import func, sm2
# from flag import FLAG
FLAG="{testFlag}"

sm2p256v1_ecc_table = {
    'n': 'FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF7203DF6B21C6052B53BBF40939D54123',
    'p': 'FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF00000000FFFFFFFFFFFFFFFF',
    'g': '32c4ae2c1f1981195f9904466a39c9948fe30bbff2660be1715a4589334c74c7' +
        'bc3736a2f4f6779c59bdcee36b692153d0a9877cc62a474002df32e52139f0a0',
    'a': 'FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF00000000FFFFFFFFFFFFFFFC',
    'b': '28E9FA9E9D9F5E344D5A9E4BCF6509A7F39789F515AB8F92DDBCBD414D940E93',
}
n = 'FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF7203DF6B21C6052B53BBF40939D54123'
G = '32c4ae2c1f1981195f9904466a39c9948fe30bbff2660be1715a4589334c74c7' \
    'bc3736a2f4f6779c59bdcee36b692153d0a9877cc62a474002df32e52139f0a0'

def sign(tsm2):
    data = func.random_hex(len(n))
    k1_str = func.random_hex(len(n))
    print(tsm2.send_p1(data, k1_str))
    backdoor = input('backdoor:').strip()
    result = tsm2.output_p1(k1_str, backdoor)
    print(result)

def verify(tsm2):
    message = input('msg:').strip().encode().strip(b'\x00')
    sign = input('sign:').strip().encode().strip(b'\x00')
    check = tsm2.verify(sign, message)
    if check is True and message == b'Hello, Welcome to ISCC2021!':
        print(FLAG)

```

```

print(LAS)
else:
    print(check)

class TSM2(object):
    def __init__(self, sk):
        ecc_table = sm2p256v1_ecc_table
        self.ecc_table = ecc_table
        self.n = int(ecc_table['n'], 16)
        self.para_len = len(ecc_table['n'])
        self.ecc_a3 = (int(ecc_table['a'], base=16) + 3) % int(ecc_table['p'], base=16)

        self.sk = int(sk, 16)
        self.pk = self._kg(self.sk, ecc_table['g'])

        self.sks = int(func.random_hex(self.para_len), 16)
        self.pks = pow((self.sk + 1) * self.sks, self.n - 2, self.n) % self.n

    def send_p1(self, data, k1_str):
        e = int(data, 16)
        k1 = int(k1_str, 16)
        k1 = k1 % self.n
        R1 = self._kg(k1, self.ecc_table['g'])
        return '%064x%0128s' % (e, R1)

    def output_p1(self, k1_str, r_s2_s3):
        r = int(r_s2_s3[0:self.para_len], 16)
        s2 = int(r_s2_s3[self.para_len:2 * self.para_len], 16)
        s3 = int(r_s2_s3[2 * self.para_len:], 16)

        k1 = int(k1_str, 16)
        d1 = self.sks
        s = (d1 * k1 * s2 + d1 * s3 - r) % self.n
        if s == 0 or s == (self.n - r):
            return None
        return '%064x%064x' % (r, s)

    def verify(self, Sign, data):
        r = int(Sign[0:self.para_len], 16)
        s = int(Sign[self.para_len:2 * self.para_len], 16)
        e = int(data.hex(), 16)
        t = (r + s) % self.n
        if t == 0:
            return 0

        P1 = self._kg(s, self.ecc_table['g'])
        P2 = self._kg(t, self.pk)

        if P1 == P2:
            P1 = '%s%s' % (P1, 1)
            P1 = self._double_point(P1)
        else:
            P1 = '%s%s' % (P1, 1)
            P1 = self._add_point(P1, P2)
            P1 = self._convert_jacob_to_nor(P1)

        x = int(P1[0:self.para_len], 16)
        return r == ((e + x) % self.n)

    def _kg(self, k, Point):

```

```

if (k % self.n) == 0:
    return '0' * 128
Point = '%s%s' % (Point, '1')
mask_str = '8'
for i in range(self.para_len - 1):
    mask_str += '0'
mask = int(mask_str, 16)
Temp = Point
flag = False
for n in range(self.para_len * 4):
    if flag:
        Temp = self._double_point(Temp)
    if (k & mask) != 0:
        if flag:
            Temp = self._add_point(Temp, Point)
        else:
            flag = True
            Temp = Point
    k = k << 1
return self._convert_jacb_to_nor(Temp)

def _double_point(self, Point):
    l = len(Point)
    len_2 = 2 * self.para_len
    if l < self.para_len * 2:
        return None
    else:
        x1 = int(Point[0:self.para_len], 16)
        y1 = int(Point[self.para_len:len_2], 16)
        if l == len_2:
            z1 = 1
        else:
            z1 = int(Point[len_2:], 16)

        T6 = (z1 * z1) % int(self.ecc_table['p'], base=16)
        T2 = (y1 * y1) % int(self.ecc_table['p'], base=16)
        T3 = (x1 + T6) % int(self.ecc_table['p'], base=16)
        T4 = (x1 - T6) % int(self.ecc_table['p'], base=16)
        T1 = (T3 * T4) % int(self.ecc_table['p'], base=16)
        T3 = (y1 * z1) % int(self.ecc_table['p'], base=16)
        T4 = (T2 * 8) % int(self.ecc_table['p'], base=16)
        T5 = (x1 * T4) % int(self.ecc_table['p'], base=16)
        T1 = (T1 * 3) % int(self.ecc_table['p'], base=16)
        T6 = (T6 * T6) % int(self.ecc_table['p'], base=16)
        T6 = (self.ecc_a3 * T6) % int(self.ecc_table['p'], base=16)
        T1 = (T1 + T6) % int(self.ecc_table['p'], base=16)
        z3 = (T3 + T3) % int(self.ecc_table['p'], base=16)
        T3 = (T1 * T1) % int(self.ecc_table['p'], base=16)
        T2 = (T2 * T4) % int(self.ecc_table['p'], base=16)
        x3 = (T3 - T5) % int(self.ecc_table['p'], base=16)

        if (T5 % 2) == 1:
            T4 = (T5 + ((T5 + int(self.ecc_table['p'], base=16)) >> 1) - T3) % int(self.ecc_table['p'], base=16)
        else:
            T4 = (T5 + (T5 >> 1) - T3) % int(self.ecc_table['p'], base=16)

        T1 = (T1 * T4) % int(self.ecc_table['p'], base=16)
        y3 = (T1 - T2) % int(self.ecc_table['p'], base=16)

```

```

        form = '%0%dx' % self.para_len
        form = form * 3
        return form % (x3, y3, z3)

def _add_point(self, P1, P2):
    if P1 == '0' * 128:
        return '%s%s' % (P2, '1')
    if P2 == '0' * 128:
        return '%s%s' % (P1, '1')
    len_2 = 2 * self.para_len
    l1 = len(P1)
    l2 = len(P2)
    if (l1 < len_2) or (l2 < len_2):
        return None
    else:
        X1 = int(P1[0:self.para_len], 16)
        Y1 = int(P1[self.para_len:len_2], 16)
        if l1 == len_2:
            Z1 = 1
        else:
            Z1 = int(P1[len_2:], 16)
        x2 = int(P2[0:self.para_len], 16)
        y2 = int(P2[self.para_len:len_2], 16)

        T1 = (Z1 * Z1) % int(self.ecc_table['p'], base=16)
        T2 = (y2 * Z1) % int(self.ecc_table['p'], base=16)
        T3 = (x2 * T1) % int(self.ecc_table['p'], base=16)
        T1 = (T1 * T2) % int(self.ecc_table['p'], base=16)
        T2 = (T3 - X1) % int(self.ecc_table['p'], base=16)
        T3 = (T3 + X1) % int(self.ecc_table['p'], base=16)
        T4 = (T2 * T2) % int(self.ecc_table['p'], base=16)
        T1 = (T1 - Y1) % int(self.ecc_table['p'], base=16)
        Z3 = (Z1 * T2) % int(self.ecc_table['p'], base=16)
        T2 = (T2 * T4) % int(self.ecc_table['p'], base=16)
        T3 = (T3 * T4) % int(self.ecc_table['p'], base=16)
        T5 = (T1 * T1) % int(self.ecc_table['p'], base=16)
        T4 = (X1 * T4) % int(self.ecc_table['p'], base=16)
        X3 = (T5 - T3) % int(self.ecc_table['p'], base=16)
        T2 = (Y1 * T2) % int(self.ecc_table['p'], base=16)
        T3 = (T4 - X3) % int(self.ecc_table['p'], base=16)
        T1 = (T1 * T3) % int(self.ecc_table['p'], base=16)
        Y3 = (T1 - T2) % int(self.ecc_table['p'], base=16)

        form = '%0%dx' % self.para_len
        form = form * 3
        return form % (X3, Y3, Z3)

def _convert_jacb_to_nor(self, Point):
    len_2 = 2 * self.para_len
    x = int(Point[0:self.para_len], 16)
    y = int(Point[self.para_len:len_2], 16)
    z = int(Point[len_2:], 16)
    z_inv = pow(z, int(self.ecc_table['p'], base=16) - 2, int(self.ecc_table['p'], base=16))
    z_invSquar = (z_inv * z_inv) % int(self.ecc_table['p'], base=16)
    z_invQube = (z_invSquar * z_inv) % int(self.ecc_table['p'], base=16)
    x_new = (x * z_invSquar) % int(self.ecc_table['p'], base=16)
    y_new = (y * z_invQube) % int(self.ecc_table['p'], base=16)
    z_new = (z * z_inv) % int(self.ecc_table['p'], base=16)
    if z_new == 1:

```



```

        form = '%0%dx' % self.para_len
        form = form * 2
        return form % (x_new, y_new)
    else:
        return None

if __name__ == '__main__':
    sk = func.random_hex(len(sm2p256v1_ecc_table['n']))
    tsm2 = TSM2(sk)
    print('pk:%s' % tsm2.pk)
    print('pks:%064x'% tsm2.pks)
    for i in range(10):
        op = input('op: ').strip()
        if op == 'sign':
            sign(tsm2)
        elif op == 'verify':
            verify(tsm2)
        else:
            print("""sign: sign message
verify: verify message""")

```

暂时没做出来

混乱的音频

题目描述:

小明正在整理包含bed、bird、cat、dog、down、eight的音频文件数据，可小明不小心把分类好的一部分数据集弄混了。文件名非常混乱，无法判别出那些文件属于哪个单词类别。碰巧小红来问小明考试复习资料的密码。小明说：“我记得这个密码都是大写的英文字母，并且密码和我的爱好息息相关，具体的我也记不清了。你要是能帮我把这些音频文件分好类，你应该就会发现密码。”小红了解到小明是个计算机专业的学生，平时经常搜集一些与信息技术有关的新闻资讯。他经常参加ctf比赛，对密码学十分熟悉，对数字非常敏感。为了小红能得到考试复习资料，你能帮助小红将混乱的音频文件分好类并获取密码吗？

提示：比例 数据下载链接：<https://pan.baidu.com/s/1r8C1FByHpgNZJsaUkjASOw> 提取码：p1yh

小明的宠物兔

题目描述:

小明的宠物兔总是发出一些神秘的声音，小明很想知道兔兔在干什么，你能帮他翻译一下吗？

一张图片rabbit.txt，提示碰撞，应该是CRC32碰撞，foremost分离出压缩包

flag.txt内容，加salt，应该是rabbit加密

```
U2FsdGVkX18kNy7R1BvcV9WJsqA+oxvdd0Ir86U2cU2996N61tZi7VVOaw==
```

CRC32碰撞，得到加密压缩包key.zip内容，

```
└─(kali㉿kali)-[~/桌面/Python/CRC32]
└─$ python3 crc32.py reverse 0x3dacac6b
4 bytes: {0x47, 0x18, 0x87, 0xce}
verification checksum: 0x3dacac6b (OK)
5 bytes: (0_0) (OK)
5 bytes: DCr4m (OK)
6 bytes: 1Qh1oU (OK)
6 bytes: 3mmr6H (OK)
6 bytes: 49Gqqk (OK)
6 bytes: 5Uumn6 (OK)
6 bytes: 7ips7+ (OK)
6 bytes: 8Gpbyp (OK)
6 bytes: 9G1Sbi (OK)
6 bytes: EHZxWz (OK)
6 bytes: F93jxv (OK)
6 bytes: I6mk_a (OK)
6 bytes: J+wTt) (OK)
6 bytes: K+6eo0 (OK)
6 bytes: KGEHkt (OK)
6 bytes: N/jUuJ (OK)
6 bytes: O/+dnS (OK)
6 bytes: O3d8oG (OK)
6 bytes: TX.K94 (OK)
6 bytes: Uy1jKa (OK)
6 bytes: XJju5k (OK)
6 bytes: YJ+D.r (OK)
6 bytes: Zvoklv (OK)
6 bytes: a3H1hL (OK)
6 bytes: dG(pwf (OK)
6 bytes: e7U0i/ (OK)
6 bytes: fgb2/o (OK)
6 bytes: g6AbXj (OK)
6 bytes: kHvqPq (OK)
6 bytes: kT9-Qe (OK)
6 bytes: lQq0zZ (OK)
6 bytes: vwW0Z8 (OK)
```

5字节，最终密钥为 (0_0)，Rabbit解密得到flag

在线Rabbit算法加密解密工具

U2FsdGVkX18kNy7RIBvcV9WJsqa+oxvdd0lr86U2cU2996N6ltZi7VVOaw==

(0_0)

Rabbit加密

Rabbit解密

清空输入框

复制结果文本

ISCC{u_really_know_rabbits}

https://blog.csdn.net/qq_46150940

擂台

小明的表情包

放假期间小红被亲戚叫去帮店里帮忙，店里忙极了导致小红没有时间写代码。小红苦恼极了，她突然想起来小明有一张非常适合描述她此时心情的表情包。于是，小红让小明把表情包分享给她。小明说如果你记得我的出生的日月年，我就交给你。小明的生日年份隐藏在这串凯撒密码“AVARGRRA AVARGL AVAR”中，你能帮小红得到小明的表情包吗？

编写脚本进行凯撒密码爆破：

```
s = "AVARGRRA AVARGL AVAR"

def kaisa(k):
    t = ""
    for c in s:
        if 'a' <= c <= 'z':
            t += chr(ord('a') + ((ord(c) - ord('a')) + int(k)) % 26)
        elif 'A' <= c <= 'Z':
            t += chr(ord('A') + ((ord(c) - ord('A')) + int(k)) % 26)
        else:
            t += c
    print(t)

for i in range(0,26):
    kaisa(i)
```

看到有含义的英文：NINETEEN NINETY NINE

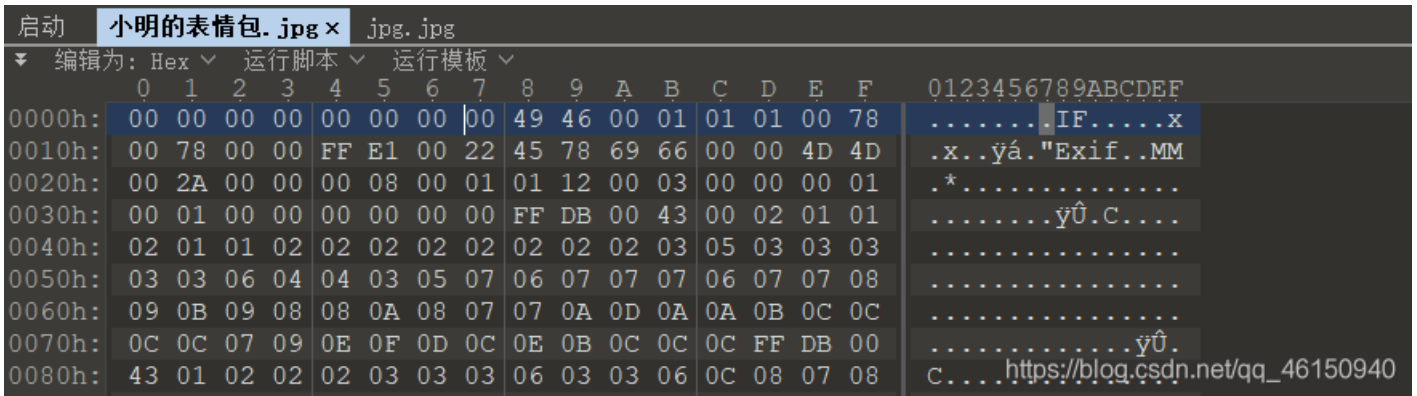
```
KaisaCrack (1) x
FAFWLWWF FAFWLQ FAFW
GBGXMXXG GBGXMR GBGX
```



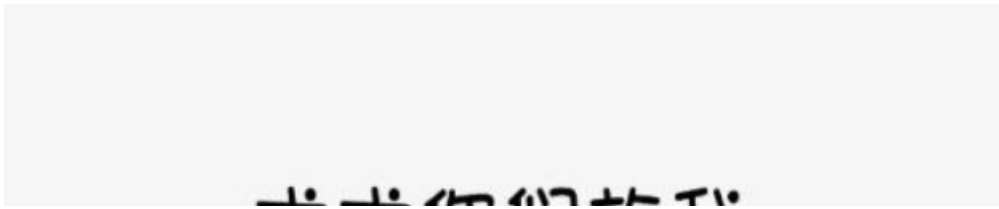
猜测是901909，然而并不是压缩包口令，根据题目提示密码是生日年份，直接爆破8位数字密码



得到口令07071999，解压缩包，得到的jpg文件无法打开，拖入010 editor中，与正常的jpg文件比较，发现缺少JPG文件头



将前八位改为FF D8 FF E0 00 10 4A 46，保存得到flag



求求你们放我
回去写代码吧



ISCC{Nyuuiitt}

https://blog.csdn.net/qq_46150940

Base小偷

被凯撒小猫偷走的等号1/3

Flag格式: flag{XXX}

密文

```
trefy2k2ov2lig2gqd2eqakoxjqcw4lztfnfli
```

使用上面的凯撒密码爆破脚本，修改一下脚本，写入crack.txt文件中：

```
s = "trefy2k2ov2lig2gqd2eqakoxjqcw4lztfnfli"
f = open("crack.txt", "w")
def kaisa(k):
    t = ""
    for c in s:
        if 'a' <= c <= 'z':
            t += chr(ord('a') + ((ord(c) - ord('a')) + int(k)) % 26)
        elif 'A' <= c <= 'Z':
            t += chr(ord('A') + ((ord(c) - ord('A')) + int(k)) % 26)
        else:
            t += c
    print(t)
    f.write(t+"\n")
for i in range(0,26):
    kaisa(i)
```

得到crack.txt

```
trfey2k2ov2lig2gqd2eqakoxjqcw4lztfnfli
usfgz2l2pw2mjh2hre2frblpykrdx4mauogmj
vtgha2m2qx2nki2isf2gscmqz1sey4nbvphnk
wuhib2n2ry2o1j2jtg2htdnramtfz4ocwqiol
xvi2c2o2sz2p2mk2kuh2iueosbnuga4pdxrjpm
ywjkd2p2ta2qn12lvi2jvfptcovhb4qeyskqn
zxkle2q2ub2rom2mwj2kwgqudpwic4rfztlro
aylmf2r2vc2spn2nxk2l1xhvrveqxd4sgaumsp
bzmng2s2wd2tqo2oyl2myiswfrfryke4thbvntq
canoh2t2xe2urp2pzm2nzjtxgsz1f4uicwour
dbopi2u2yf2vsq2qan2oakuyhtamg4vjdxpvs
ecpqj2v2zg2wtr2rbo2pblvziubnh4wkeyqwt
fdqrk2w2ah2xus2scp2qcmwajvcoi4x1fzrxu
gersl2x2bi2yvt2tdq2rdnxbkwdpj4ymgasyv
hfstm2y2cj2z2wu2uer2seoyclxeqk4znhbztw
igtun2z2dk2axv2vfs2t2fpzdmyfr14aioicua
jhuvo2a2e12byw2wgt2ugqaenzgsm4bpjdvby
kivwp2b2fm2czx2xhu2vhrbfoahntn4cqkewcz
ljwxq2c2gn2day2yiv2wis2cgpbuiuo4dr1fxda
mkxyr2d2ho2ebz2zjw2xjtdhqcjvp4esmyeb
nlyzs2e2ip2fca2akx2ykueirdkwq4ftnhzfc
omzat2f2jq2gdb2bly2z1vfj2selxr4guoiagd
pnabu2g2kr2hec2cmz2amwgktfmys4hvpjbhe
qobcv2h2ls2ifd2dna2bnxhlugnzt4iwqkcif
rpcdw2i2mt2jge2eob2coyimvhoau4jxrldjg
sqdex2j2nu2khf2fpc2dpzjnwipbv4kysmekh
```

猜测是Base32编码，得到密文每行37字符，而Base32按5比特切分的二进制数据必须是40比特的倍数，需要在每行末尾追加三个===，并且小写转换为大写

```
# coding: UTF-8
import base64

ff = open('output.txt', 'w')
with open('crack.txt', 'r') as f:
    lines = f.readlines()
    for line in lines:
        line_n = line.replace('\n', '')
        line_n = line_n + r'===+' + '\n' # 行末尾加上"===", 同时加上"\n"换行符
        line_new = line_n.upper() # 小写转换为大写
        ff.write(line_new) # 写入一个新文件中
ff.close()

with open('output.txt', 'r') as f:

    list = f.read().splitlines() # 存入列表中
    i = 0
    ls2 = [str(i) for i in list] # 转换为字符串类型
    while i < len(list):
        print(base64.b32decode(ls2[i]))
        i += 1
```

运行脚本，发现一段base64编码

```
zhuijia x
D:\Code\Pycharm\PyCharm2021\work\venv\Scripts\python.exe D:/Code/Pycharm/PyCharm2021/work/ISCC/Base/小偷/zhuijia.py
b'\x9cH\iZut\x4b\x1bF\x80\x4f4H\x01N\xba'+qy\x9bJ\x4b'
b'\xa4\x8a1\xe9z}\xb4\xc4\x9f6\x894X\x85o\xc2\xa2;\xf1\x80\xa3\x8c\xc4'
b'\xac\xccpi\x9a\x85\xf4\xd5#H\x91ti\t\x90\xca\xe4Lq\xa1\xab\xce\xd5'
b'\xb5\x0e\x80\xe9\xba\x8e4\xe5\xa7I\x99\x4b4y\x8d\x4b1\x03&\f1\x2\x4\x10\xe5'
b'\xbdP\x91i\xda\x96t\xf6+J\xa1\xf4\x8a\x11\xd2\x0bh'q\xe3\xbcR\xf6'
b'\xc5\x92\xa1\xe9\xfa\x985\x06\xafK\xaa4\x9a\x95\xf3\x13\xaaP\xf2\x04\xc4\x95\x06'
b'\xcd\x4d4\xb2j\x1a\xa0u\x173L\xb2t\xab\x1a\x14\x1b\xec\x81r%\xcc\xd7\x17'
b"\x06\x16\xc2\xea:\xa8\xb5'\xb7M\xba\x4\xbb\x9e5$. \x91\xf2F\x05\x19' "
b'\x0eX\xd3jZ\x4b0\xf58;N\xc2\xf4\xcc"V,p\xa2rg\r[8'
b'\x10\x1a\xe3\xeaZ\xb95H\xbf0\xcb4\xdc\xa6w4\xb2\xb2\xf2\x88\x15\x9dH'
b'\x18\\xf4j\x9a\xc1uVCP\x03t\xe0*\x98<\xc0\x3r\xa9\x1d\xdfY'
b'\x9f\x04\xea\xba\xc9\xb5i\xc7Q\x0b\x4\xf0\xae\xb9E\x02\x3f2\xca&!i'
b'(\xe1\x15j\xda\x01\xf5zKR\x13\xf5\x012\x0MD\xe4r\xeb.cz'
b'1#\xea\xfa\n5\x8a\xcfS\x1c5\x11\xb6\xe1U\x86\xf4\xf3\x0c0%\x8a'
b'9e6k\x1a\x12u\x9bST$u";\x02]\xc9\x05s-8g\x9b'
b'A\xa7F\xeb:\x1a\x4\x0b\xd7U,\xb52\xbf#\x0b\x15\xf0\x0e\xa8\x0b'
b'I\xe9Wh\x1a"\xf4\x1c[V4\xf5C@\x04nM&p/H\xea\x1c'
b'R+g\xe8:+4,\xdfW=5S\xc4%p\x0f6\xf0PQ,, '
b'ZmxhZ3t0cXEudHFxQ6ppYn0'
b'b\xaf\x88\xe8z;\xb4@\xe7YM\xb5t\xccg\x80\x93W\xf0\x92a\xbb0g
b'j\xf1\x99h\x9aC\xf4Q\x030U\xf5\x85P\x88\x88\xd5hp\xb3i\xf2Q'
b's2\t\xe8\xbaL4a\x87A^5\x95\xd4\xa9\x91\x17x\xf0\xd4r\x00a'
b'f@\x1ah\xdaTtr\x0bBft\x06X\xca\x99Y\x89p\xf5zBr'
b'\x83\x82*\xe8\xfa\\b4\x82\x8fCh4\x16\xdc\xeb\xa1\x9b\x99\xf1\x16\x82\x84\x82'
b"\x8b\xc4;i\x1ad\xf4\x93\x13Dpt'a\x0c\xa9\xdc\ng7\x8a\xc6\x93"
b'\x04\x06(\x08+m(\x03\x075\x4b7)\x05-\x03)\x1a\x1a\xf1Y\x03\x08)\x03'
https://blog.csdn.net/qq_46150940
```

base64解码得到flag

```
flag{tqq.tqq@jbb}
```

真作假时假亦真

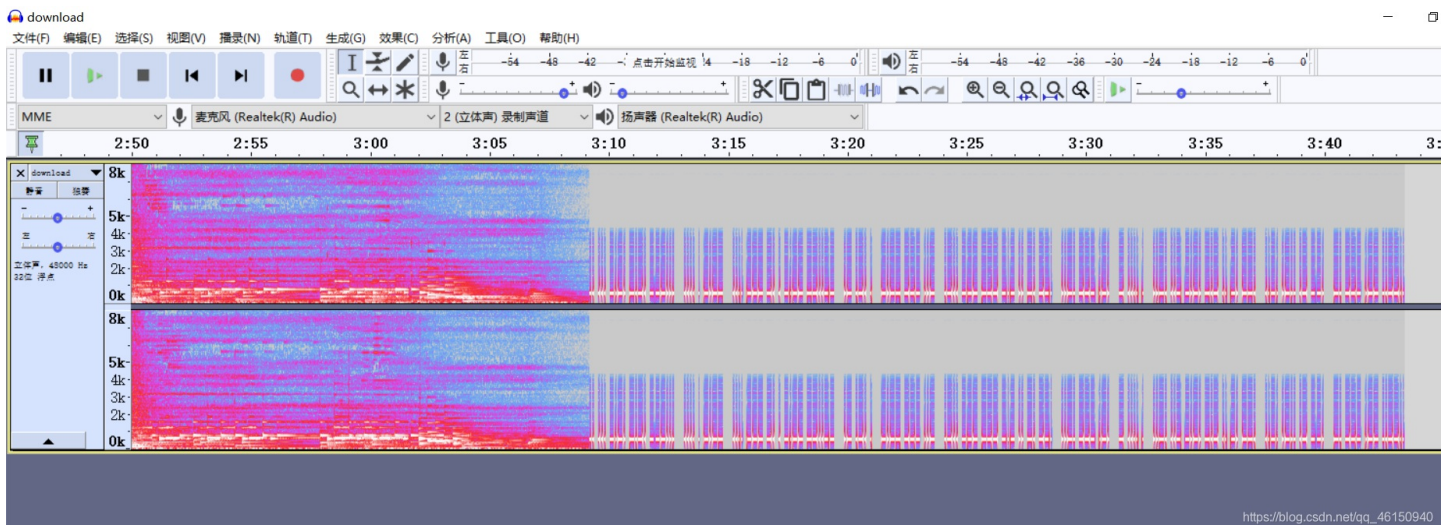
浅韵姐姐第一次参加ISCC，但没有很多CTF工具，为此她很苦恼。

你能亲身体会一下吗？

附件下载链接：https://pan.baidu.com/s/1jroyNjtnCwPXt6A8_0pAw

提取码：a0oh

下载附件，得到download.wav，拖入Audacity查看频谱图



弄下来

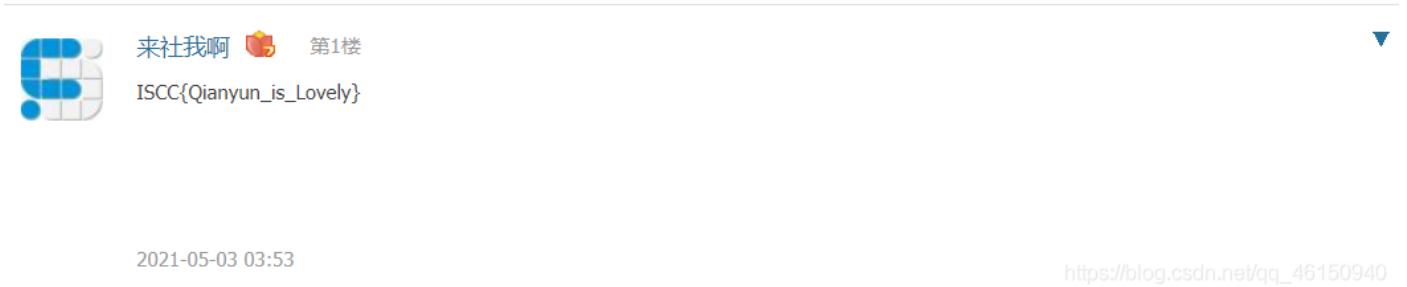
摩斯密码解密

ISCCHECHONEYYOULOOKINGFORTHEFUCKINGFLAGNOW?

不是flag, foremost分离文件得到一张png图片, exiftool查看图片信息, 得到QQ号

```
kali@kali: ~/桌面/output/png
(kali@kali) - [~/桌面/output/png]
$ exiftool 00083771.png
ExifTool Version Number      : 12.16
File Name                    : 00083771.png
Directory                    : .
File Size                    : 288 KiB
File Modification Date/Time   : 2021:05:08 08:46:57-04:00
File Access Date/Time        : 2021:05:08 08:47:00-04:00
File Inode Change Date/Time   : 2021:05:08 08:46:57-04:00
File Permissions              : rw-r--r--
File Type                    : PNG
File Type Extension           : png
MIME Type                    : image/png
Image Width                  : 1242
Image Height                 : 1704
Bit Depth                    : 8
Color Type                   : RGB with Alpha
Compression                  : Deflate/Inflate
Filter                      : Adaptive
Interlace                    : Noninterlaced
Pixels Per Unit X            : 2874
Pixels Per Unit Y            : 2874
Pixel Units                  : meters
XMP Toolkit                  : Adobe XMP Core 6.0-c002 79.164488, 2020/07/10-22:06:53
Creator Tool                 : Adobe Photoshop 22.0 (Windows)
Create Date                  : 2021:05:03 00:55:27+08:00
Modify Date                  : 2021:05:03 00:59:09+08:00
Metadata Date                : 2021:05:03 00:59:09+08:00
Format                      : image/png
Color Mode                   : RGB
ICC Profile Name             : sRGB IEC61966-2.1
Instance ID                  : xmp.iid:08dbb1cf-06a6-6147-a19e-3c30c111887d
Document ID                  : adobe:docid:photoshop:0cf82e22-bc60-394b-9808-1ec5719e29bc
Original Document ID        : xmp.did:94a58657-d199-9a45-bb13-6a6d55604521
Text Layer Name              : ボ @wang 諸榮耀 排位 棧 Q (-) 5.2肆 5.5.23) 2す
Text Layer Text              : ボ @wang 諸榮耀 排位 棧 Q (-) 5.2肆 5.5.23) 2す
History Action                : created, saved
History Instance ID          : xmp.iid:94a58657-d199-9a45-bb13-6a6d55604521, xmp.iid:08dbb1cf-06a6-6147-a19e-3c30c111887d
History When                  : 2021:05:03 00:55:27+08:00, 2021:05:03 00:59:09+08:00
https://blog.csdn.net/qq_46150940
```

查看QQ空间, 在留言板发现假flag



加好友问题 ISCC{e@\$Y_s0cia1_engineering} 也是假flag

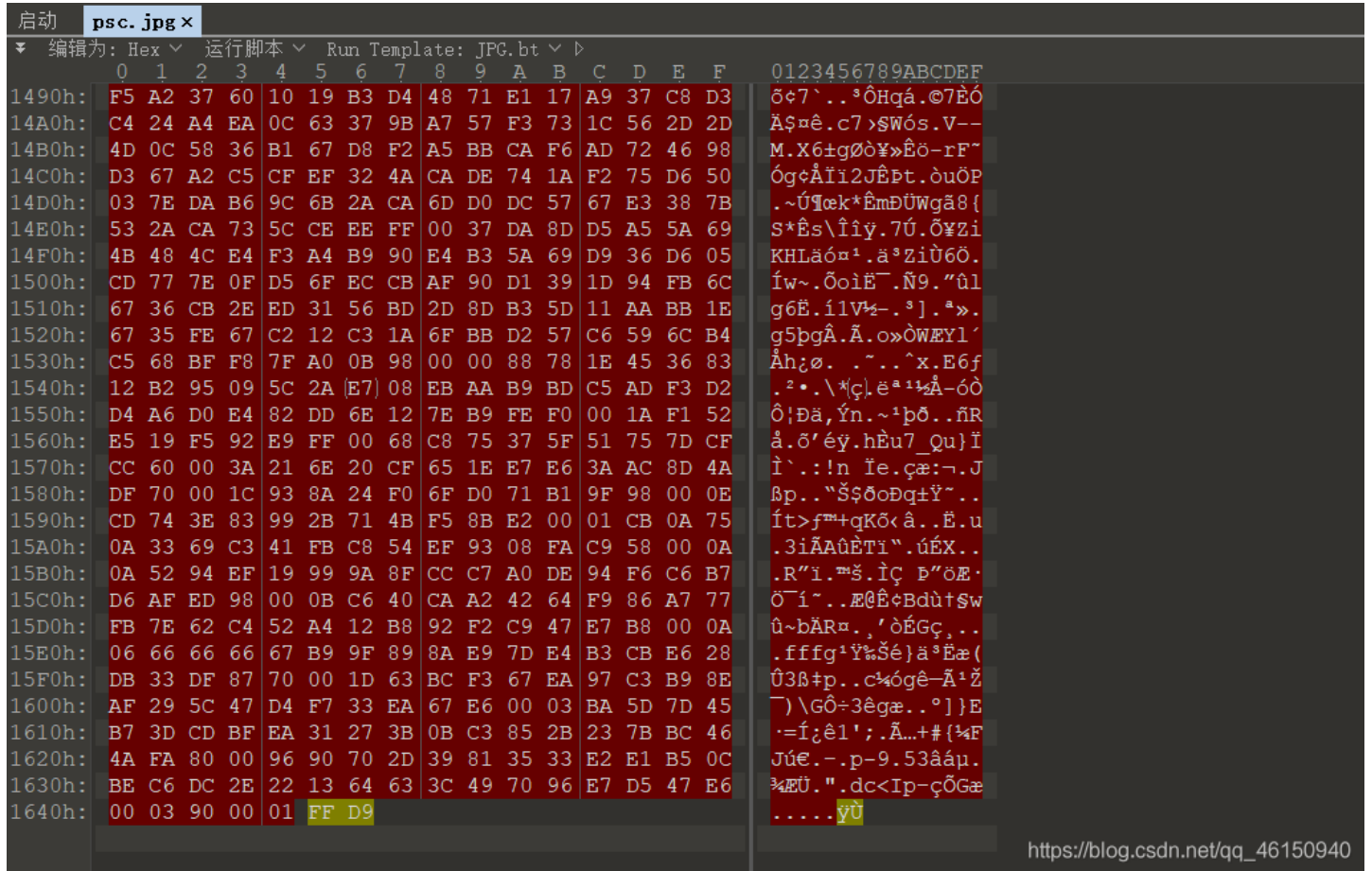
空间里唯一的一张图片





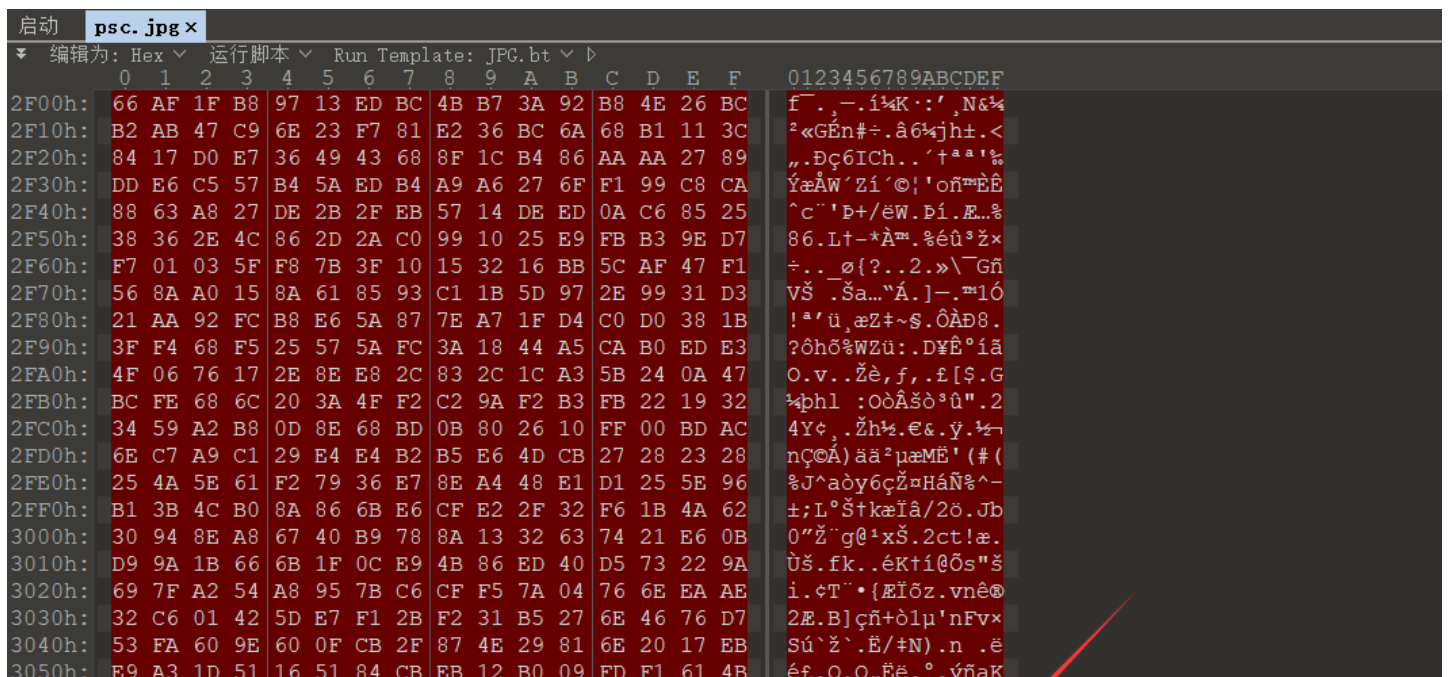
https://blog.csdn.net/qq_46150940

我当时做的时候掉坑里去了，直接下载图片，010 editor什么也看不到，思路就断了。



https://blog.csdn.net/qq_46150940

用原图地址链接下载图片，能看到一个蓝奏云链接



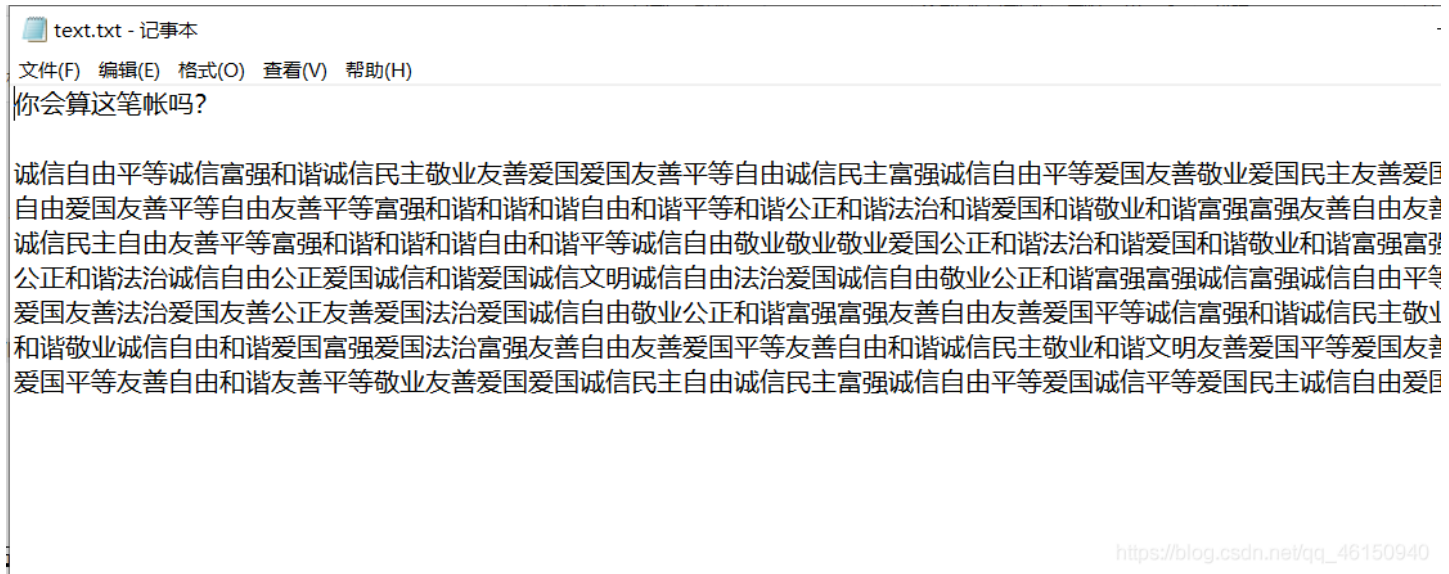
```
3060h: EF 1B 56 A7 3B 88 EF 51 D6 D3 25 21 0B 2A EE 4A i.VS;^iQ00%!.*iJ
3070h: 3F D6 5C 12 D7 78 D0 BB E6 A2 E7 15 82 A5 E7 5C ?0\.*xD»æçç.,¥ç\
3080h: 33 39 8E 70 A0 2A BC 54 B5 B6 DB 79 87 FD D4 27 39žp *¼TpiÛy†vó'
3090h: BB 79 94 17 DA 7B 02 BE 7A 7F FF D9 0D 0A 68 74 »y".Ú{.¾z.yÛ..ht
30A0h: 74 70 73 3A 2F 2F 77 77 61 2E 6C 61 6E 7A 6F 75 tps://wwa.lanzou
30B0h: 73 2E 63 6F 6D 2F 69 4E 56 62 73 6F 71 72 7A 38 s.com/iNVbsoqrz8
30C0h: 66 0D 0A 4D 54 56 44 51 77 3D 3D f..MTVDQw==
```

https://blog.csdn.net/qq_46150940

提取出来

```
https://wwa.lanzous.com/iNVbsoqrz8f
MTVDQw==
```

提取码是 `MTVDQw==`，Base64解码得到 `15CC`，下载附件



https://blog.csdn.net/qq_46150940

使用[在线网站](#)进行社会主义核心价值观解密得到

壹贰叁肆伍陆柒8玖〇壹2叁肆56柒89〇壹23肆伍
陆78901贰3肆56柒89〇1贰叁4伍陆7捌玖0
壹2叁肆伍6柒89〇壹贰叁肆5陆柒捌9〇123肆5
陆7捌玖〇1贰345陆柒8玖〇壹贰34567890
壹2叁肆伍6柒8玖01贰叁4伍6柒捌玖〇壹234伍
陆78901贰3肆5陆78玖0壹贰345陆7捌玖0
壹贰叁肆伍陆柒890壹贰叁肆56柒8玖0壹234伍
67890123肆伍6柒捌玖〇1贰345陆7890
壹贰3肆56柒捌90123肆56柒捌玖〇壹贰3肆5
67捌9〇1234伍陆78玖〇壹贰3肆5陆7捌9〇
12叁肆伍6柒8901贰叁肆伍陆7捌9〇壹2叁肆伍
陆柒89〇123肆伍67890壹234567捌玖0
壹2叁4伍陆柒捌901贰3肆56柒捌9〇壹2345
陆78玖0壹23肆伍67捌90壹2叁4伍陆7捌9〇
壹2叁45陆柒89〇1贰叁45陆7890壹23肆伍
陆柒8901234伍陆柒8玖〇1贰34伍6柒捌玖0
壹贰34伍陆柒89〇壹2叁肆5陆柒89〇1贰叁肆伍
678901234伍67捌9〇1234567890
壹贰叁肆伍陆柒8玖0壹2叁4伍6柒8玖〇壹贰叁肆伍
陆78901贰3肆伍陆7捌901贰3肆56789〇
壹2叁肆伍6柒89012345陆柒8玖0壹贰叁4伍
陆7捌玖〇1贰3肆56789〇1贰3肆5陆柒捌9〇
壹2叁肆伍6柒8玖〇1贰345陆柒8玖0壹贰叁4伍
陆78901贰3肆5678玖01贰3肆56789〇
壹贰叁肆伍陆柒8玖01贰3肆伍陆78玖〇壹贰叁肆伍

汉字转换成1，数字换成0。

```
1111111011101100100110011
1000001010010010110110110
1011101001111101110100010
1011101000110111100000000
1011101010011010111110001
1000001010100101100010110
1111111000111100101010001
0000000011011110100010000
1101001100000100111111010
0010100001100111101010101
0011101000011111010110111
1100100011000001000000110
1010111100010100110110000
1001010011001001010110101
1010011001011001000010011
1100000001110110100101110
1100111001101101100101111
0000000001001010000000000
1111111010101010101111111
1000001011101000101000001
1011101000000001101011101
1011101010000010101011101
1011101011010001101011101
1000001010000100101000001
1111111010010111001111111
```

25x25,之前做过一样的，直接使用脚本转换成二维码

```

import PIL.Image
MAX = 25
pic = PIL.Image.new("RGB", (MAX,MAX))
str = '11111101110110010011001110000010100100101101101101011101001111101110100010101110100011011110000000010111
0101001101011111000110000010101001011000101101111111000111100101010001000000001101111010001000011010011000001001
1111101000101000011001111010101010011101000011111010110111110010001100000100000011010101111000101001101100001001
010011001001010110101101001100100100100010011110000000111011010010111011001110011011001011110000000001001010
0000000001111111010101010111111110000010111010001010000011011101000000011010111011011101010000010101011101101
110101101000110101110110000010100001001010000011111111010010111001111111'
i=0
for y in range (0,MAX):
    for x in range (0,MAX):
        if(str[i] == '1'):
            pic.putpixel([x,y],(0,0,0))
        else:
            pic.putpixel([x,y],(255,255,255))
        i = i+1
pic.show()
pic.save("flag.png")

```

扫描二维码得到flag