2021---长安“战疫”网络安全卫士守护赛 Writeup

原创

3tefanie丶zhou 于 2022-01-12 19:07:57 发布 158 收藏 2

分类专栏： CTF 文章标签： web安全 安全

本文链接：https://blog.csdn.net/luochen2436/article/details/122454941

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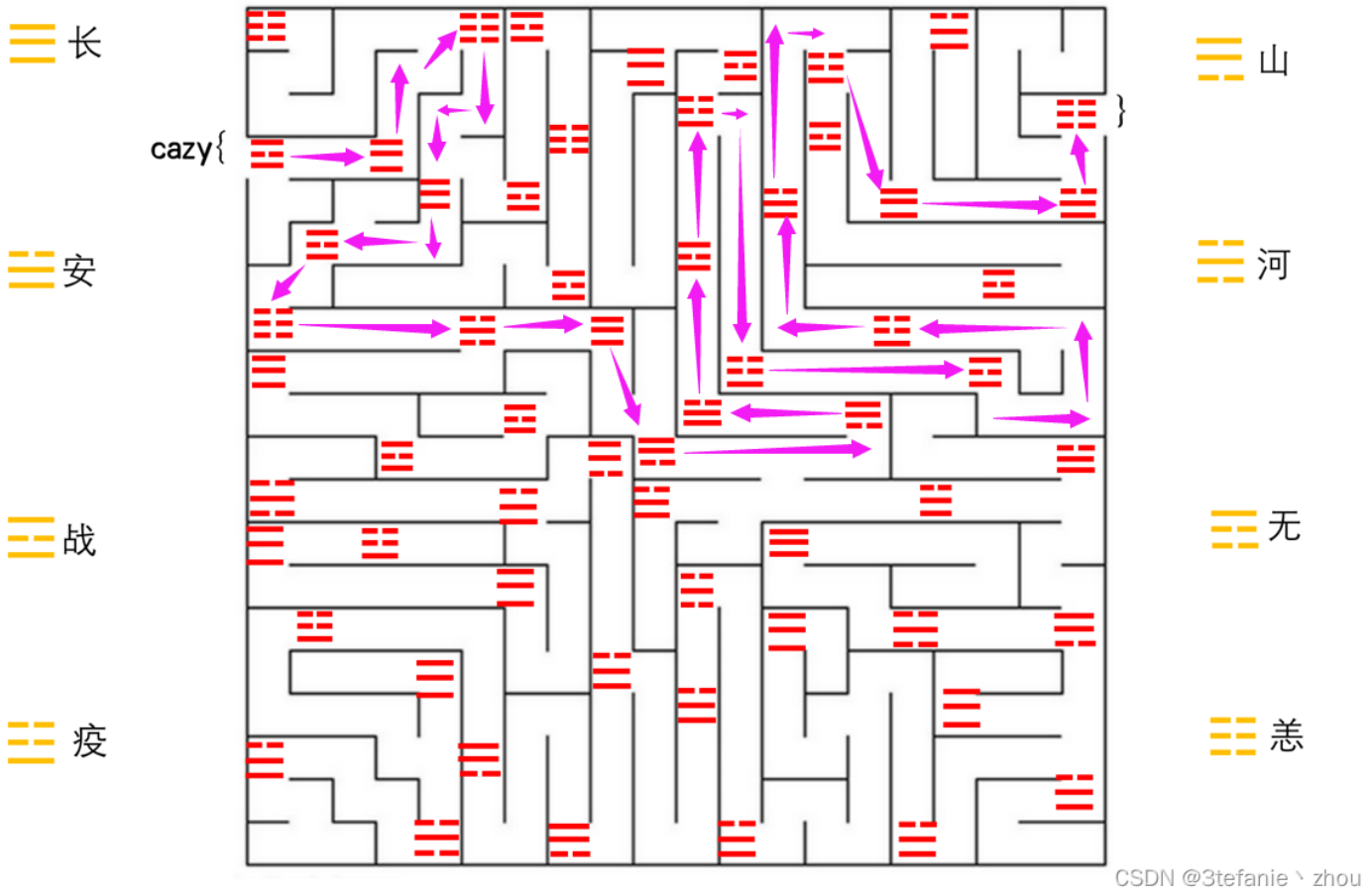
Misc

八gua迷宫

从入口走到出口，然后路上碰到的字连起来取拼音即可

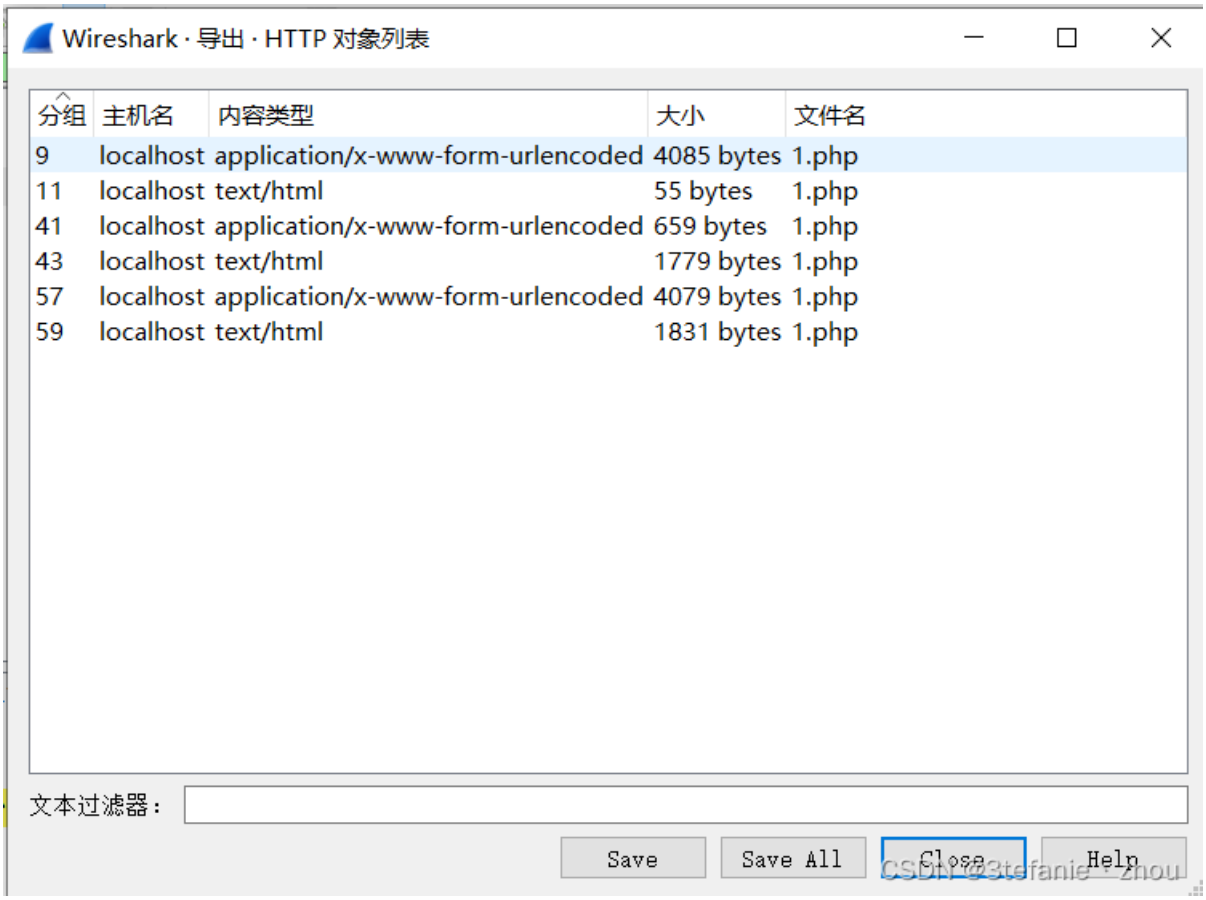


经过的字为：战长恙长战恙河长山山安战疫疫战疫安疫长安恙
flag:

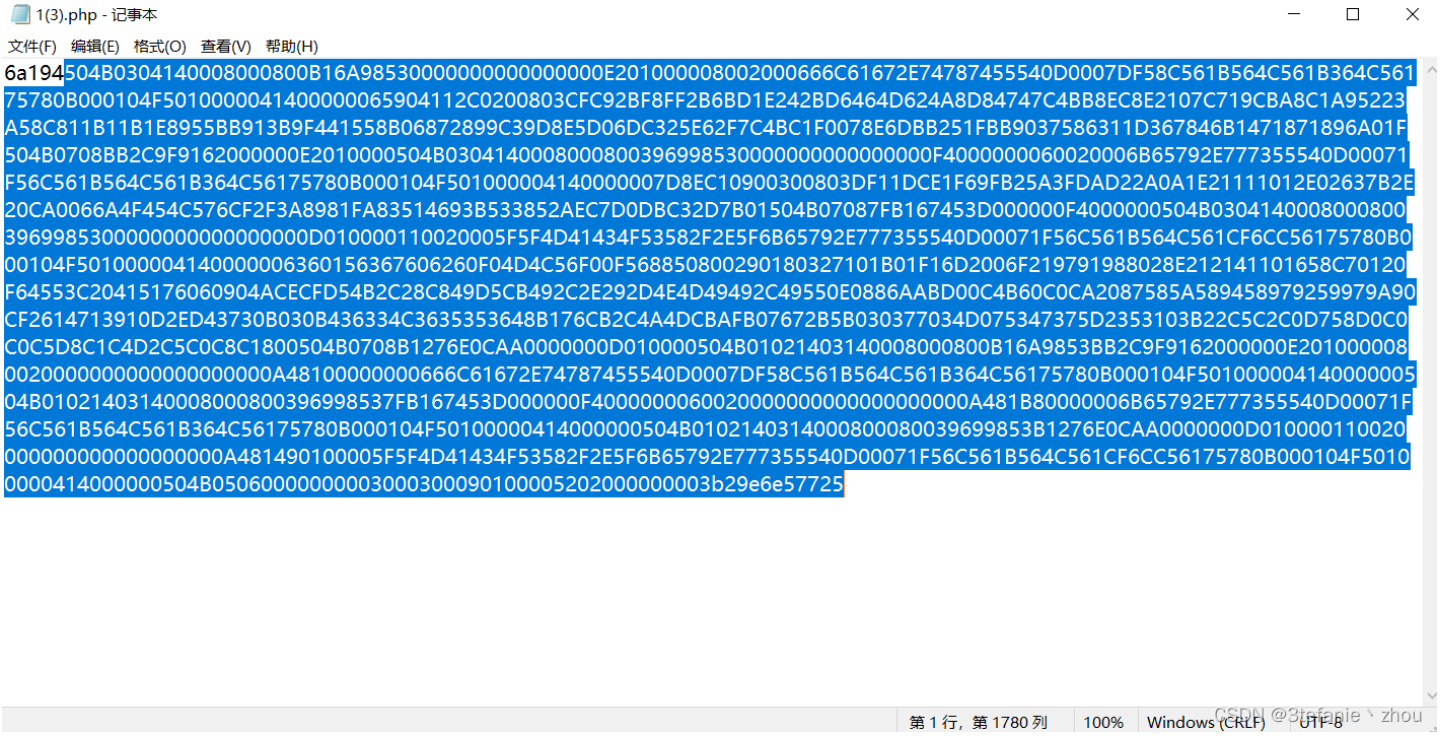
```
cazy{zhanchangyangchangzhanyanghechangshanshananzhanyiyizhanyianyichanganyang}
```

无字天书

打开secret.pcap，导出http对象列表



在1(3).php中发现504b开头一段16进制数据

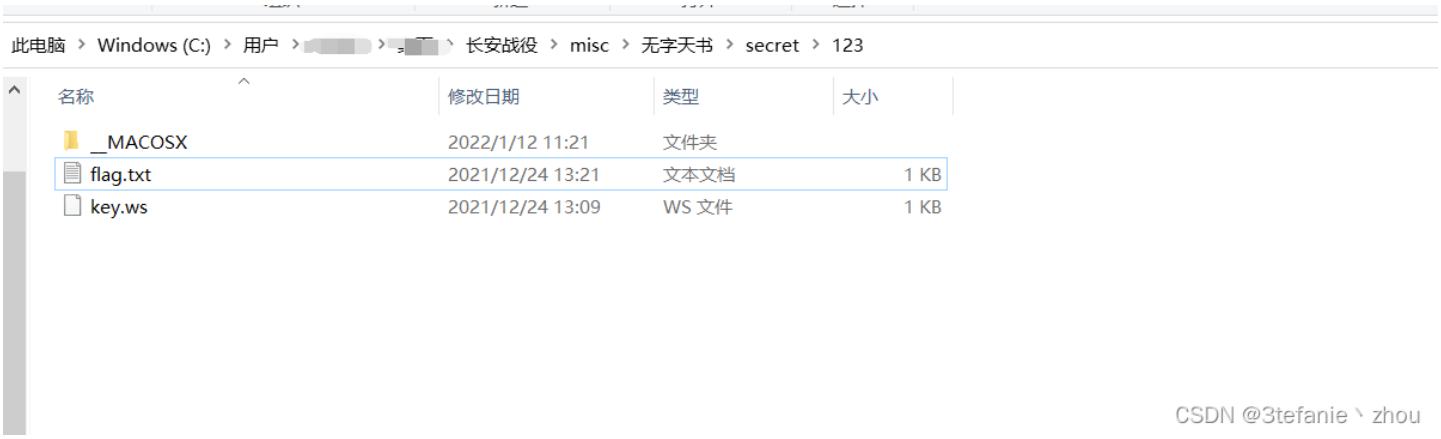


取出来，简单的用python脚本处理一下，生成zip压缩包

```
from binascii import *

hex_code = '504B030414000800080B16A9853000000000000000E201000008002000666C61672E74787455540D0007DF58C561B564C5
61B364C56175780B000104F5010000041400000065904112C0200803CFC92BF8FF2B6BD1E242BD6464D624A8D84747C4BB8EC8E2107C719C
BA8C1A95223A58C811B11B1E8955BB913B9F441558B06872899C39D8E5D06DC325E62F7C4BC1F0078E6DBB251FBB9037586311D367846B14
71871896A01F504B0708BB2C9F9162000000E2010000504B0304140008000800396998530000000000000000F400000060020006B65792E
777355540D00071F56C561B564C561B364C56175780B000104F5010000041400000007D8EC10900300803DF11DCE1F69FB25A3FDAD22A0A1E
21111012E02637B2E20CA0066A4F454C576CF2F3A8981FA83514693B533852AEC7D0DBC32D7B01504B07087FB167453D000000F400000050
4B030414000800080039699853000000000000000000D010000110020005F5F4D41434F53582F2E5F6B65792E777355540D00071F56C561B5
64C561CF6CC56175780B000104F5010000041400000063601563676062600F04D4C56F00F5688508002901803271 01B01F16D2006F2197919
88028E212141101658C70120F64553C20415176060904ACECFD54B2C28C849D5CB492C2E292D4E4D49492C49550E0886AABD00C4B60C0CA2
087585A589458979259979A90CF2614713910D2ED43730B030B436334C3635353648B176CB2C4A4DCBAFB07672B5B030377034D075347375
D2353103B22C5C2C0D758D0C0C0C5D8C1C4D2C5C0C8C1800504B0708B1276E0CAA0000000D010000504B0102140314000800080 0B16A9853
BB2C9F9162000000E2010000080020000000000000000000A4810000000666C61672E74787455540D0007DF58C561B564C561B364C56175
780B000104F5010000041400000504B0102140314000800080039699853 7FB167453D000000F400000006002000000000000000000A481
B80000006B65792E777355540D00071F56C561B564C561B364C56175780B000104F5010000041400000504B0102140314000800080039969
9853B1276E0CAA0000000D010000110020000000000000000000A481490100005F5F4D41434F53582F2E5F6B65792E777355540D00071F56
C561B564C561CF6CC56175780B000104F5010000041400000504B0506000000000300030009010000520200000000 3b29e6e57725'
with open('123.zip','wb') as f:
    f.write(unhexlify(hex_code))
f.close()
```

解压压缩包得到flag.txt以及key.ws

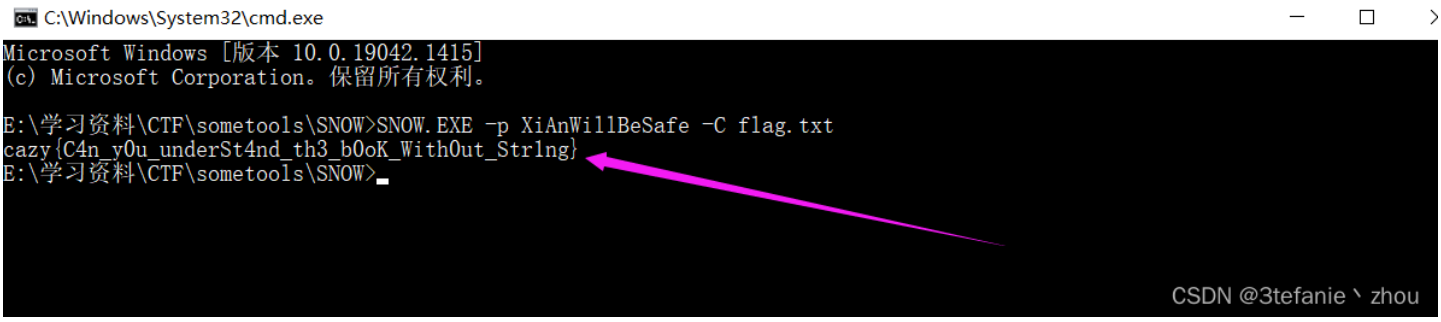


key.ws明显是whitespace

找个在线网站处理一下https://vii5ard.github.io/whitespace/

得到key: XiAnWillBeSafe

flag.txt则是snow隐写，直接上工具解密



flag:

```
cazy{C4n_y0u_underSt4nd_th3_b0oK_With0ut_Str1ng}
```

西安加油

打开流量包，追踪tcp流，发现是一个目录扫描的流量
查看各个流的数据，发现只有3个http状态码是200 ok，分别是hint.txt

```
HTTP/1.1 200 OK
Date: Sat, 25 Dec 2021 04:49:03 GMT
Server: Apache/2.4.25 (Debian)
Last-Modified: Sat, 25 Dec 2021 04:42:01 GMT
ETag: "471-5d3f117a7dbaf"
Accept-Ranges: bytes
Content-Length: 1137
Vary: Accept-Encoding
Content-Type: text/plain

HE2DAMZOOBXGOIDJOMQDACRYGA4DMLTQNZTSA2LTEAYQUNZTGAYS44DOM4QGS4ZAGIFDONBSGIXHA3THEBUXGIBTBIZTSNZYFZYG4ZZANFZSANAKHAZDMNROOB
XGOIDJOMQDKCRXGY4DGLTQNZTSA2LTEA3AUNJUGEYC44DOM4QGS4ZAG4FDIMZWGUXHA3THEBUXGIBYBIZDIMRWFZYG4ZZANFZSAOIKHEYDKNROOBXGOIDJOMQD
CMAKGMZDANJOOBXGOIDJOMQDCMIKGYZTMMJOOBXGOIDJOMQDCMQKHEYTMNZOOBXGOIDJOMQDCMYKGMYTSNJOOBXGOIDJOMQDCNAKGU4DKMROOBXGOIDJOMQDCN
IKHEZDQMBOOBXGOIDJOMQDCNQKHE3TAMROOBXGOIDJOMQDCNYKHA2DENBOOBXGOIDJOMQDCOAKGE3DONJOOBXGOIDJOMQDCOIKGMYDCNBOOBXGOIDJOMQDEMAK
G44TQNROOBXGOIDJOMQDEMIKHA2DGMROOBXGOIDJOMQDEMQKG4YTGOJOOBXGOIDJOMQDEMYKGQ3DKNJOOBXGOIDJOMQDENAKG4ZDKOBOOBXGOIDJOMQDENIKGM
2TMNJOOBXGOIDJOMQDENQKGU2DINBOOBXGOIDJOMQDENYKG4ZTQNBOOBXGOIDJOMQDEOAKGIYDAMZOOBXGOIDJOMQDEOIKHA3DQOBOOBXGOIDJOMQDGMAKGU4T
KNROOBXGOIDJOMQDGMIKGM2TAOJOOBXGOIDJOMQDGMQKHEYDENZOOBXGOIDJOMQDGMYKGE4TANJOOBXGOIDJOMQDGNAKGYYDQNJOOBXGOIDJOMQDGNIKG42DAN
ROOBXGOIDJOMQDGNQKGE3DKMBOOBXGOIDJOMQDGNYKHA3DAMROOBXGOIDJOMQDGOAKHEZTONZOOBXGOIDJOMQDGOIKGEZTEMZOOBXGOIDJOMQDIMAKG4ZTEMJO
OBXGOIDJOMQDIMIKGI3TINZOOBXGOIDJOMQDIMQKG4YTENJOOBXGOIDJOMQDIMYKGEZDEMBOOBXGOIDJOMQDINAKG4YDOOJOOBXGOIDJOMQDINIKGUYTOMROOB
XGOIDJOMQDINQKGUYDOMBOOBXGOIDJOMQDINY=
```


secret.txt

```
GET /secret.txt HTTP/1.1
Host: localhost
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/87.0.4280.88 Safari/
537.36
Accept-Language: *
Accept-Encoding: *
Keep-Alive: timeout=15, max=1000
Cache-Control: max-age=0

HTTP/1.1 200 OK
Date: Sat, 25 Dec 2021 04:49:03 GMT
Server: Apache/2.4.25 (Debian)
Last-Modified: Sat, 25 Dec 2021 04:41:07 GMT
ETag: "141291-5d3f1147c78e0"
Accept-Ranges: bytes
Content-Length: 1315473
Vary: Accept-Encoding
Content-Type: text/plain

UEsDBBQAAAAAAAtlmVMAAAAAAAAAAAAAAAAAGACAAY2hpcHMvVVQNAAe3oMZhxqDGYcagxmF1eAsAAQT1AQAABBQAAABQSwMEFAAIAAgAC2WZUwAAAAAAAAAA0g
AAABAAIABfX01BQ09TWC8uX2NoaXBzVVQNAAe3oMZhxqDGYcagxmF1eAsAAQT1AQAABBQAAABjYBVjZ2BiYPBNTFbwD1aIUIACkBgDJxAbAfECIAbxLzEQBRxD
QoKgTJCOFUCshaaEESGukpyfq5dYUJCTqpebWpKYkliSaBWf7eviWZKaG1qcWhSSmF7MwJBUkJNZXGJgsIADagAjkknIgBMAUEsHCJbeAqhtAAAA0gAAAFBLAw
QUAAgACADUY5lTAAAAAAAAAAB8aAAADgAgAGNoaXBzLzkyODAucG5nVVQNAAdwnsZhHKDGYRygxmF1eAsAAQT1AQAABBQAAADst/
VbVN8bNrqBAYYQhpCQGnDoDiWVcKgRiRGBQSSkQ1q6u7tTgRGRFgZEOiSkQUKQUGKkGyQGDt/3h/P+cv6D87mva+31rLX3Xteq537uJ1pbU/
UO6T1SAADuqKvBkbe1xf8KGP/2eROETwAAkE+WBupWz54BfLddYAA/0hYA3Vp4tw2xTWaA+LYmv21z3RaAefP/fPMf/sN/+A//4T/8h/+/
gjCJAPifjKC91RBBSaD/105LSf4/NoGICACkpPxf+/+qCbD7/wb4T038h//wH/7Df/gP//
+GmIiYqIyomIyYOPTWeCApIy71/9kHAPHfVokAQD9eHa6o65X3AudZj/75li1qp3VU2qTlfDFzqTyvXOaF6jumvypQIASILMkS0GFFpMHt4m3sBQfNtg/
i5OxRp14Z0vdQNHL3h7PoOM3UksRIqGFiOTbvmsfLvpZ/4m/zOXH9Iu2/EbYj7/ig5Hzax37h7Np7yXP38eU2juyyO/
UuGwBRAFMRm0FAyhmaXDQNDcbVqsGFHzbcxaiUJOxP7NCrGlVHAqcE6B/
uUv0pEsehY2elKzoYw+EjZqrcSpWcD946FVWCi189i39WaE1aOAYcDJSPMr+V2cqV7UsoZD7uK7YVY0XveGBN27vJXYyQQNqalnHT1YBWy4+KF3UWuqSh3a07T
lffCh8HnmxMWmtmrICBMIjJ5dyM3OhlF33g+hyxZPt55Z6IW5MRRfd+E7bAd385eO9S69GJLsYwX4NLWWdodHSp2XPvcummDRLSqaIDS6dW6nH5teOR6n4vwkw
6IQT6t1EWzUO0VWXU1vK1ZTXGKMRNT3z+PDwDxgF3n75nbpWIiFKErNraxYmqQIuQpFTRagjbnxqx+Iz3FCGZg0pg/
SyYepfI0NEvw5eVeqFQnvrT2zmy+e6eN281ckYL5Ac478wdpJYKmbTsd8bnoj7lVp73zsWkuUrkldg6auisfkVVOe7sBDrjes/
dSn9uxsefLI4H74VD4e2SeZqlOsuRZtt55iqjRwUBFxuOTjXt7fL34olCO0OJKdOQsbGxjY4Lmyc+03PjNu7bs7WFN+eFS7Ozs/
```


ds_store

```
GET /.ds_store HTTP/1.1
Host: localhost
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/87.0.4280.88 Safari/
537.36
Accept-Language: *
Accept-Encoding: *
Keep-Alive: timeout=15, max=1000
Cache-Control: max-age=0

HTTP/1.1 200 OK
Date: Sat, 25 Dec 2021 04:49:03 GMT
Server: Apache/2.4.25 (Debian)
```

```
Last-Modified: Sat, 25 Dec 2021 04:41:29 GMT
ETag: "1804-5d3f115c64b81"
Accept-Ranges: bytes
Content-Length: 6148

....Bud1.....................................................................tIlocblob.....................
.....................
1...t.x.tIlocblob..........K.....................................................................................
.....................................................................................
.....................................................................................
.....................................................................................
.....................................................................................
.....................................................................................
.....................................................................................
```


其中，hint.txt为base32编码，解码得到

BXGOIDJOMQDCOAKGE3DONJOOBXGOIDJOMQDCOIKGMYDCNBOOBXGOIDJOMQDEMAKG44TQNROOBXGOIDJOMQDE
MIKHA2DGMROOBXGOIDJOMQDEMQKG4YTGOJOOBXGOIDJOMQDEMYKGQ3DKNJOOBXGOIDJOMQDENAKG4ZDKOBOO
BXGOIDJOMQDENIKGM2TMNJOOBXGOIDJOMQDENQKGU2DINBOOBXGOIDJOMQDENYKG4ZTQNBOOBXGOIDJOMQDEO
AKGIYDAMZOOBXGOIDJOMQDEOIKHA3DQOBOOBXGOIDJOMQDGMAKGU4TKNROOBXGOIDJOMQDGMIKGM2TAOJOOBX
GOIDJOMQDGMQKHEYDENZOOBXGOIDJOMQDGMYKGE4TANJOOBXGOIDJOMQDGNAKGYYDQNJOOBXGOIDJOMQDGNI
KG42DANROOBXGOIDJOMQDGNQKGE3DKMBOOBXGOIDJOMQDGNYKHA3DAMROOBXGOIDJOMQDGOAKHEZTONZOOB
XGOIDJOMQDGOIKGEZTEMZOOBXGOIDJOMQDIMAKG4ZTEMJOOBXGOIDJOMQDIMIKGI3TINZOOBXGOIDJOMQDIMQKG4
YTENJOOBXGOIDJOMQDIMYKGEZDEMBOOBXGOIDJOMQDINAKG4YDOOJOOBXGOIDJOMQDINIKGUYTOMROOBXGOIDJ
OMQDINQKGUYDOMBOOBXGOIDJOMQDINY=

加密 解密

9403.png is 0
8086.png is 1
7301.png is 2
7422.png is 3
3978.png is 4
8266.png is 5
7683.png is 6
5410.png is 7
4365.png is 8

secret.txt内容base64解码一下，是一个zip压缩包

HEXXwAAAKwAAAAZACAAAAAAAAAAAAC0gWNLDgBfX01BQ09TWC9jaGlwcy8uXzUwNzAucG5nVVQNAAdwnsZhHaDGYcagxmF1eAsAAQT1A
QAABBQAAABQSwECFAMUAAgACADUY5lTTDGuvuxgAAAdcQAADgAgAAAAAAAAAAAAtIEpTA4AY2hpcHMvOTcwMi5wbmdVVA0AB3CexmEco
MZhHKDGYXV4CwABBPUBAAAEFAAAAFBLAQIUAxQACAAIANRjmVOmXHEXXwAAAKwAAAAZACAAAAAAAAAAAAC0gXGtDgBfX01BQ09TW
C9jaGlwcy8uXzk3MDIucG5nVVQNAAdwnsZhHKDGYcagxmF1eAsAAQT1AQAABBQAAABQSwECFAMUAAgACADUY5lTmeSQoHY4AAClSAAAD
gAgAAAAAAAAAAAAtIE3rg4AY2hpcHMvMzk3OC5wbmdVVA0AB3CexmEcoMZhHKDGYXV4CwABBPUBAAAEFAAAAFBLAQIUAxQACAAIANRjm
VOmXHEXXwAAAKwAAAAZACAAAAAAAAAAAAC0gQnnDgBfX01BQ09TWC9jaGlwcy8uXzM5NzgucG5nVVQNAAdwnsZhHKDGYcagxmF1eAsAAQT1A

编码源格式：◉文本 ○Hex 解码结果： 自动检测 中文编码： UTF-8 编码 解码

```
Zip Data Incluce:
-----------------
0Byte   chips/
210Byte __MACOSX/._chips
26.12KByte      chips/9280.png
172Byte __MACOSX/chips/._9280.png
15.07KByte      chips/7125.png
172Byte __MACOSX/chips/._7125.png
24.24KByte      chips/7079.png
172Byte __MACOSX/chips/._7079.png
27.78KByte      chips/5444.png
172Byte __MACOSX/chips/._5444.png
```

插件【Zip】Zip-based or zip file
另存为：**zip文件**
附加信息：

```
Encrypted:false
Files:100
Total Size:1182014
```

显示内容非原始信息
数据长度：*986,604 Bytes*
插件数：*18*，耗时：*36ms*

解压得到包含flag的图片

hint解码的内容为图片的排列顺序

9403.png is 0
8086.png is 1
7301.png is 2
7422.png is 3
3978.png is 4
8266.png is 5
7683.png is 6
5410.png is 7
4365.png is 8
2426.png is 9
9056.png is 10
3205.png is 11
6361.png is 12
9167.png is 13
3195.png is 14
5852.png is 15
9280.png is 16
9702.png is 17
8424.png is 18
1675.png is 19
3014.png is 20
7986.png is 21
8432.png is 22
7139.png is 23
4655.png is 24
7258.png is 25
3565.png is 26
5444.png is 27
7384.png is 28
2003.png is 29
8688.png is 30
5956.png is 31
3509.png is 32
9027.png is 33
1905.png is 34
6085.png is 35
7406.png is 36
1650.png is 37
8602.png is 38
9377.png is 39
1323.png is 40
7321.png is 41
2747.png is 42
7125.png is 43
1220.png is 44
7079.png is 45
5172.png is 46
5070.png is 47

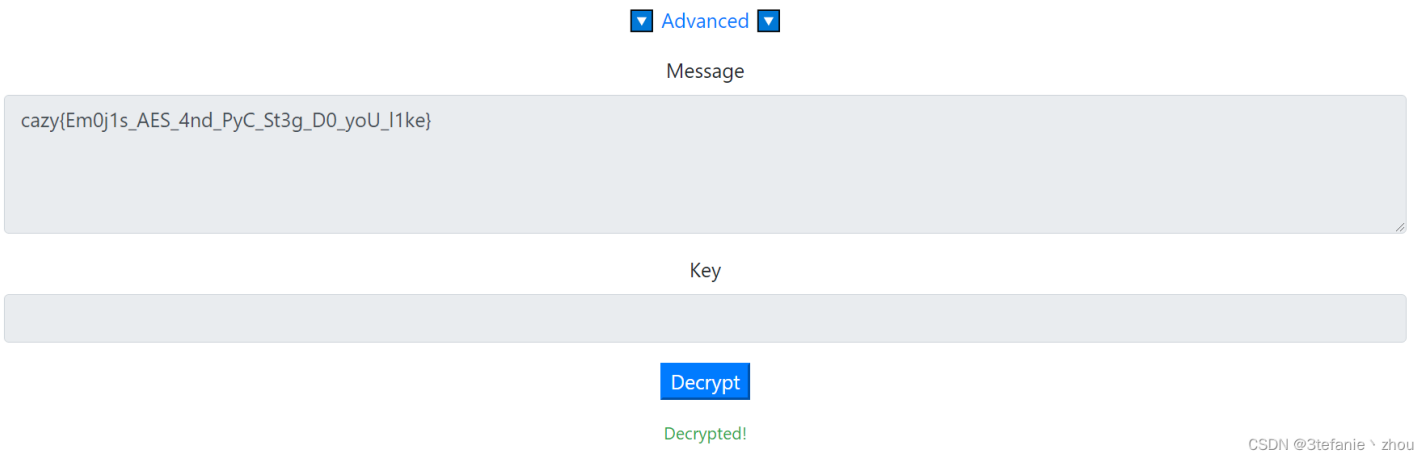
按照顺序拼图即可得到flag

flag:

```
cazy{make_XiAN_great_Again}
```

steg

下载文件，得到一个zip压缩包，存在备注：`Password is six number`
直接用工具爆破，得到解压密码 `220101`
解压得到steg.pyc和emoji.txt
steg.pyc是stegosaurus隐写，直接上工具跑，得到key
`St3g1sV3ryFuNny`
emoji.txt是emoji-aes加密，github上有项目可以在线解密



flag:

```
cazy{Em0j1s_AES_4nd_PyC_St3g_D0_yoU_l1ke}
```

binary

下载文件，是一个无后缀名的文件，notepad++打开查看一下，应该是一个java文件，使用jadx反编译一下
得到一串accsi列表

{77, 68, 65, 119, 77, 68, 65, 119, 77, 68, 69, 119, 77, 84, 69, 120, 77, 68, 65, 119, 77, 68, 65, 119, 77, 68, 6
5, 120, 77, 84, 69, 120, 77, 84, 69, 119, 77, 84, 69, 120, 77, 68, 65, 119, 77, 68, 65, 119, 77, 70, 120, 117, 7
7, 68, 69, 120, 77, 84, 69, 120, 77, 68, 69, 119, 77, 84, 69, 119, 77, 84, 65, 120, 77, 68, 69, 120, 77, 84, 69,
 120, 77, 68, 65, 119, 77, 84, 69, 120, 77, 68, 69, 120, 77, 68, 69, 120, 77, 84, 69, 120, 77, 70, 120, 117, 77,
 68, 69, 119, 77, 68, 65, 120, 77, 68, 69, 119, 77, 68, 65, 119, 77, 84, 69, 120, 77, 84, 65, 119, 77, 68, 69, 1
20, 77, 84, 65, 120, 77, 68, 69, 120, 77, 68, 69, 120, 77, 68, 69, 119, 77, 68, 65, 120, 77, 70, 120, 117, 77, 6
8, 69, 119, 77, 68, 65, 120, 77, 68, 69, 120, 77, 68, 65, 119, 77, 68, 65, 120, 77, 84, 65, 119, 77, 68, 69, 120
, 77, 84, 65, 119, 77, 68, 65, 119, 77, 84, 65, 120, 77, 68, 69, 119, 77, 68, 65, 120, 77, 70, 120, 117, 77, 68,
 69, 119, 77, 68, 65, 120, 77, 68, 69, 120, 77, 84, 65, 120, 77, 84, 65, 120, 77, 84, 65, 119, 77, 84, 69, 119,
77, 84, 69, 119, 77, 84, 65, 120, 77, 84, 69, 120, 77, 68, 69, 119, 77, 68, 65, 120, 77, 70, 120, 117, 77, 68, 6
9, 120, 77, 84, 69, 120, 77, 68, 69, 119, 77, 84, 69, 120, 77, 68, 69, 119, 77, 68, 65, 119, 77, 68, 65, 119, 77
, 84, 65, 119, 77, 84, 65, 119, 77, 68, 65, 120, 77, 68, 69, 120, 77, 84, 69, 120, 77, 70, 120, 117, 77, 68, 65,
 119, 77, 68, 65, 119, 77, 68, 69, 119, 77, 84, 65, 120, 77, 68, 69, 119, 77, 84, 65, 120, 77, 68, 69, 119, 77,
84, 65, 120, 77, 68, 69, 119, 77, 84, 65, 120, 77, 68, 65, 119, 77, 68, 65, 119, 77, 70, 120, 117, 77, 84, 69, 1
20, 77, 84, 69, 120, 77, 84, 69, 119, 77, 68, 69, 119, 77, 68, 65, 119, 77, 68, 65, 119, 77, 68, 69, 119, 77, 68
, 69, 120, 77, 68, 65, 120, 77, 84, 69, 120, 77, 84, 69, 120, 77, 84, 69, 120, 77, 86, 120, 117, 77, 84, 69, 119
, 77, 68, 65, 120, 77, 68, 69, 119, 77, 84, 65, 120, 77, 68, 65, 119, 77, 68, 69, 119, 77, 84, 69, 120, 77, 84,
69, 120, 77, 68, 69, 119, 77, 68, 65, 119, 77, 84, 65, 119, 77, 70, 120, 117, 77, 68, 69, 119,
77, 84, 69, 119, 77, 84, 65, 119, 77, 68, 69, 120, 77, 68, 65, 120, 77, 68, 65, 120, 77, 68, 65, 119, 77, 68, 69
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for i in accsi_num_list:
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qrcode = str(num_string).replace(r'\\n','').replace('b','').replace("'",'')
print(qrcode)
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得到一串2进制数据

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00000001011100000000011111101110000000011111010110101011111000111011011111001000101000011110001110101101101000100
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000001010101010101010101010100000001111111001000000001001100111111111111100010101010000101111110100000011000010
11010001100100100001001101010111011011000001001111001100011010000010010111011111111100101011010001101010111001010
1100011100000001101000000000000100110101001000100011011101011101111101001010010011111110111000011001010001000100
0110111011011001100110011001110111101001100011111110110100110000000100000111010100011100000101101111110111110110
0110101101001100010100110000100010100100111100100000100111001001011101010100110001110001100100000101010001001101
1111011101100100111111010111011101100010111000000101110110001011010001100100011110110001111010010011110101010000
0111010111011010111111010001001010110110010010000001101000100111110110100010001110010110011011111001100011100111
110000000101101101110011111000100110010110010100010111011000000000011111111010110011100111001010111010110000000111
00011101101011000101010010001111101110011010101101011000111011110100010100110000110011010000000000001001000101011
1110110001111111111101001110100010101101111111100000001010101011001111101111111000101101001111000110110000000011111
1011110110000000100011000
```

用Python简单处理一下，将2进制数据转成二维码

```python
import base64
from PIL import Image

accsi_num_list = [77, 68, 65, 119, 77, 68, 65, 119, 77, 68, 69, 119, 77, 84, 69, 120, 77, 68, 65, 119, 77, 68, 6
5, 119, 77, 68, 65, 120, 77, 84, 69, 120, 77, 84, 69, 119, 77, 84, 69, 120, 77, 68, 65, 119, 77, 68, 65, 119, 77
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70, 120, 117, 77, 68, 69, 119, 77, 68, 65, 120, 77, 68, 69, 119, 77, 68, 65, 119, 77, 84, 69, 120, 77, 84, 65, 1
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, 120, 117, 77, 68, 69, 119, 77, 68, 65, 120, 77, 68, 69, 120, 77, 68, 65, 119, 77, 68, 65, 120, 77, 84, 65, 119
, 77, 68, 69, 120, 77, 84, 65, 119, 77, 68, 65, 119, 77, 84, 65, 120, 77, 68, 69, 119, 77, 68, 65, 120, 77, 70,
120, 117, 77, 68, 69, 119, 77, 68, 65, 120, 77, 68, 69, 120, 77, 84, 65, 120, 77, 84, 65, 120, 77, 84, 65, 119,
77, 84, 69, 119, 77, 84, 69, 119, 77, 84, 65, 120, 77, 84, 69, 120, 77, 68, 69, 119, 77, 68, 65, 120, 77, 70, 12
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77, 68, 69, 119, 77, 84, 69, 119, 77, 84, 65, 119, 77, 68, 69, 120, 77, 68, 65, 120, 77, 68, 65, 120, 77, 68, 65
, 119, 77, 68, 69, 119, 77, 68, 69, 120, 77, 68, 69, 119, 77, 84, 65, 120, 77, 84, 69, 119, 77, 86, 120, 117, 77
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69, 120, 77, 84, 65, 119, 77, 68, 69, 120, 77, 84, 65, 120, 77, 84, 65, 120, 77, 68, 69, 120, 77, 68, 65, 119, 7
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7, 84, 69, 120, 77, 84, 65, 119, 77, 68, 69, 119, 77, 84, 69, 119, 77, 84, 65, 119, 77, 84, 69, 120, 77, 84, 65,
 119, 77, 68, 69, 120, 77, 68, 69, 120, 77, 70, 120, 117, 77, 68, 65, 119, 77, 68, 65, 119, 77, 68, 69, 120, 77,
 84, 69, 120, 77, 84, 65, 120, 77, 84, 69, 120, 77, 68, 69, 120, 77, 68, 65, 119, 77, 68, 65, 119, 77, 68, 69, 1
19, 77, 68, 65, 120, 77, 84, 65, 119, 77, 65, 61, 61]
accsi_str = ''
for i in accsi_num_list:
    accsi_str += chr(i)
num_string = base64.b64decode(accsi_str)
qrcode = str(num_string).replace(r'\\n','').replace('b','').replace("'",'')
print(qrcode)
MAX = int(len(qrcode)**(1/2))
pic = Image.new("RGB",(MAX, MAX))
i=0
for y in range (0,MAX):
    for x in range (0,MAX):
        if(qrcode[i] == '0'):
            pic.putpixel([x,y],(0, 0, 0))
        else:
            pic.putpixel([x,y],(255,255,255))
        i = i+1

pic.save('binary_flag.png')
```
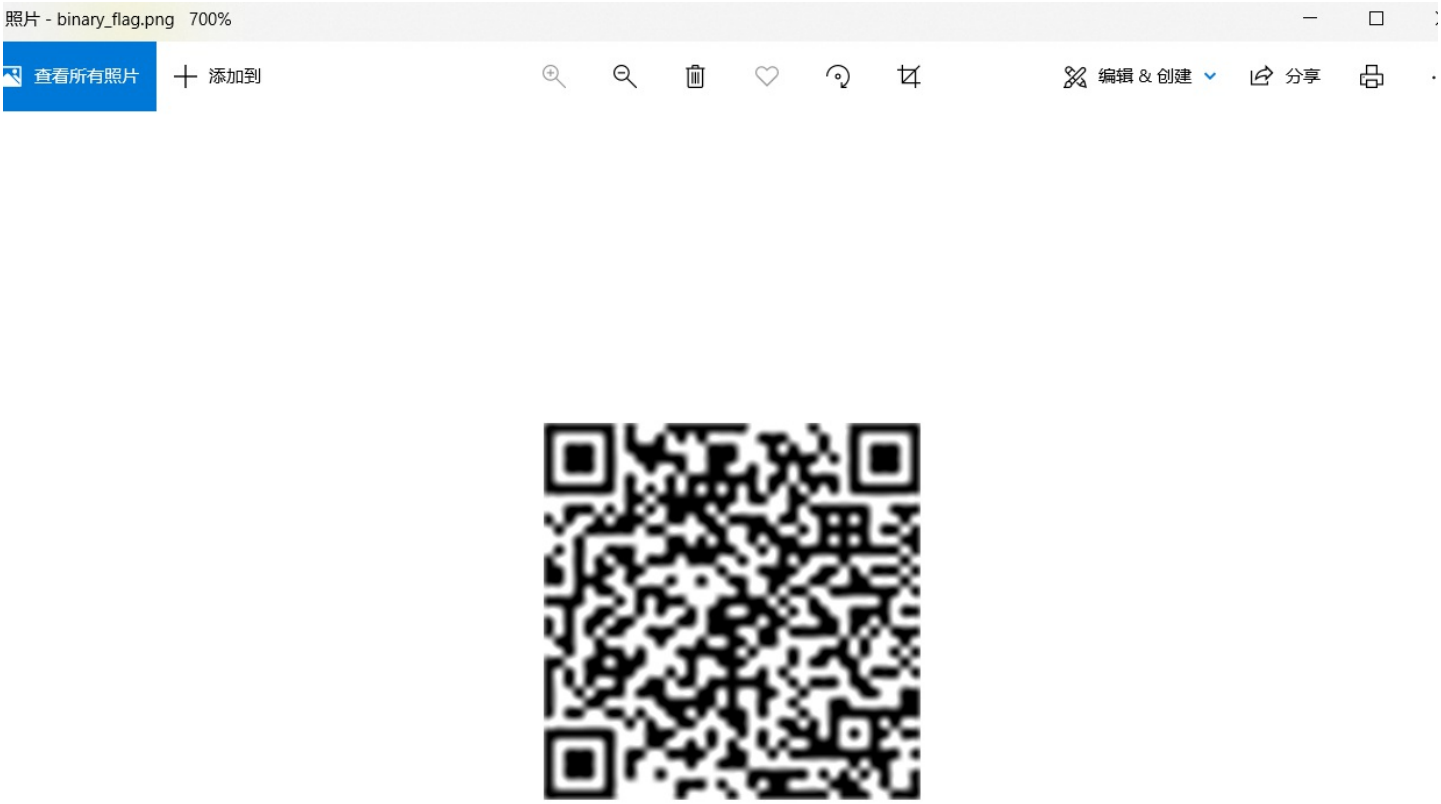



扫描一下二维码得到
flag:

```
flag{932b2c0070e4897ea7df0190dbf36ece}
```

Crypto

no_cry_no_bb

题目内容

```
assert flag[:5] ==b'cazy{'

def pad(m):
    tmp = 16-(len(m)%16)
    return m + bytes([tmp for _ in range(tmp)])

def encrypt(m,key):
    aes = AES.new(key,AES.MODE_ECB)
    return aes.encrypt(m)

if __name__ == "__main__":
    flag = pad(flag)
    key = pad(long_to_bytes(random.randrange(1,1<<20)))
    c = encrypt(flag,key)
    print(c)
# b'\x9d\x18K\x84n\xb8b|\x18\xad4\xc6\xfc\xec\xfe\x14\x0b_T\xe3\x1b\x03Q\x96e\x9e\xb8MQ\xd5\xc3\x1c'
```

看一下代码，大抵在范围（1，1<<20）取一个随机数在经过pad()方法作为key进行aes加密
解题方法没啥好说的，就是去爆破加密时所取得随机数再aes解密,最后判断一下解密后得明文是否存在`cazy{`即可

```
from Crypto.Util.number import *
from Crypto.Cipher import AES
import random
def pad(m):
    tmp = 16-(len(m)%16)
    return m + bytes([tmp for _ in range(tmp)])

def decrypt(c,key):
    aes = AES.new(key,AES.MODE_ECB)
    return aes.decrypt(c)

if __name__ == '__main__':
    c = b'\x9d\x18K\x84n\xb8b|\x18\xad4\xc6\xfc\xec\xfe\x14\x0b_T\xe3\x1b\x03Q\x96e\x9e\xb8MQ\xd5\xc3\x1c'
    while True:
        key = pad(long_to_bytes(random.randrange(1,1<<20)))
        flag = decrypt(c,key)
        if 'cazy{' in str(flag):
            print(flag)
            break
```

flag:

```
cazy{n0_c4n,bb?n0p3!}
```

no_cry_no_can

题目内容

```
flag = cazy{xxxxxxxxxx}
assert len(key) <= 5
assert flag[:5] == b'cazy{'
def can_encrypt(flag,key):
    block_len = len(flag) // len(key) + 1
    new_key = key * block_len
    return bytes([i^j for i,j in zip(flag,new_key)])

c = can_encrypt(flag,key)
print(c)

# b'<pH\x86\x1a&"m\xce\x12\x00pm\x97U1uA\xcf\x0c:NP\xcf\x18~l'
```

密文是做异或得到得结果，所以我们通过给定的flag格式`cazy{`获取到key即可，再用得到的key对密文做异或即可得到flag

```
c = b'<pH\x86\x1a&"m\xce\x12\x00pm\x97U1uA\xcf\x0c:NP\xcf\x18~l'
b = b'cazy{'
key = bytes([i^j for i,j in zip(c,b)])
block_len = len(c)//len(key)+1
new_key = key * block_len
flag = bytes([i^j for i,j in zip(c,new_key)])
print(flag)
```

flag:

```
cazy{y3_1s_a_h4nds0me_b0y!}
```

no_math_no_cry

题目内容

```
from Crypto.Util.number import*
from secret import flag

assert len(flag) <= 80
def sec_encry(m):
    cip = (m - (1<<500))**2 + 0x0338470
    return cip

if __name__ == "__main__":
    m = bytes_to_long(flag)
    c = sec_encry(m)
    print(c)

# 10715086071862673209484250490600018105614048117055336074437503883703510511248211671489145400471130049712947188
505612184220711949974689275316345656079538583389095869818942817127245278601695124271626668045250476877726638182 3
966145878079254577354287199728749442791721284115002091114065071125859960985301 69
```

纯粹的数学计算问题，直接根据加密方式逆着解就ok

```
c = 10715086071862673209484250490600018105614048117055336074437503883703510511248211671489145400471130049712947188505612184220711949974689275316345656079538583389095869818942817127245278601695124271626668045250476877726638182396614587807925457735428719972874944279172128411500209111406507112585996098530169
b = int('0x0338470',16)
m1 = gmpy2.iroot(c-b,2)[0]
m1 = -m1
m = m1 + (1<<500)
print(long_to_bytes(m))
```

flag:

```
cazy{1234567890_no_m4th_n0_cRy}
```

Reverse

combat_slogan

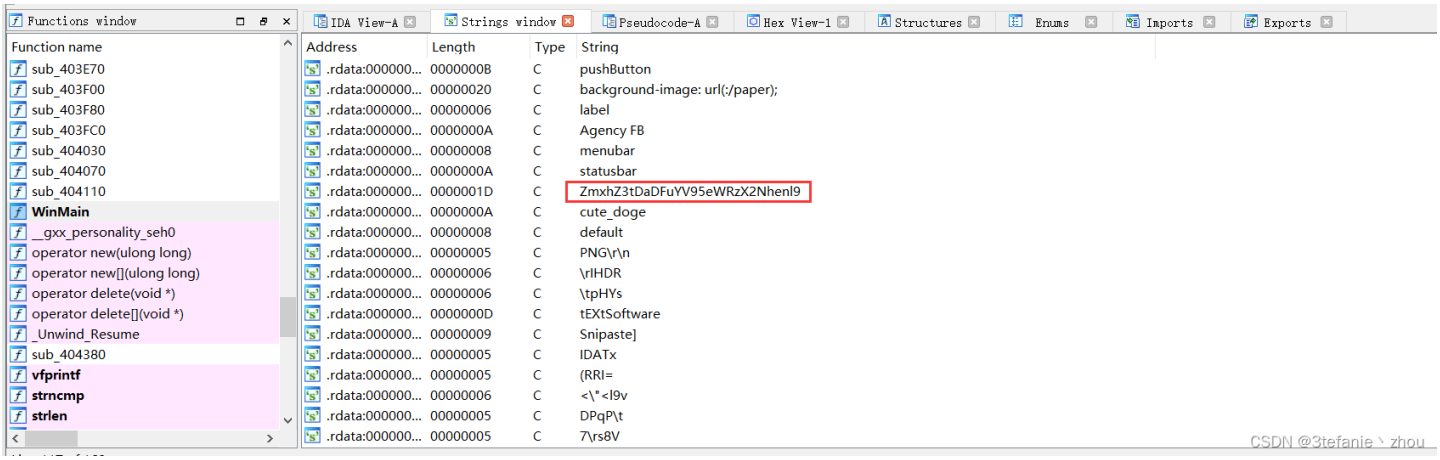
下载文件，是一个jar包，直接用jdgui打开
在main中发现字符串，`Jr_j11y_s1tug_g0_raq_g0_raq_pnml`
凯撒全位移一下

flag:

```
flag{We_w11l_f1ght_t0_end_t0_end_cazy}
```

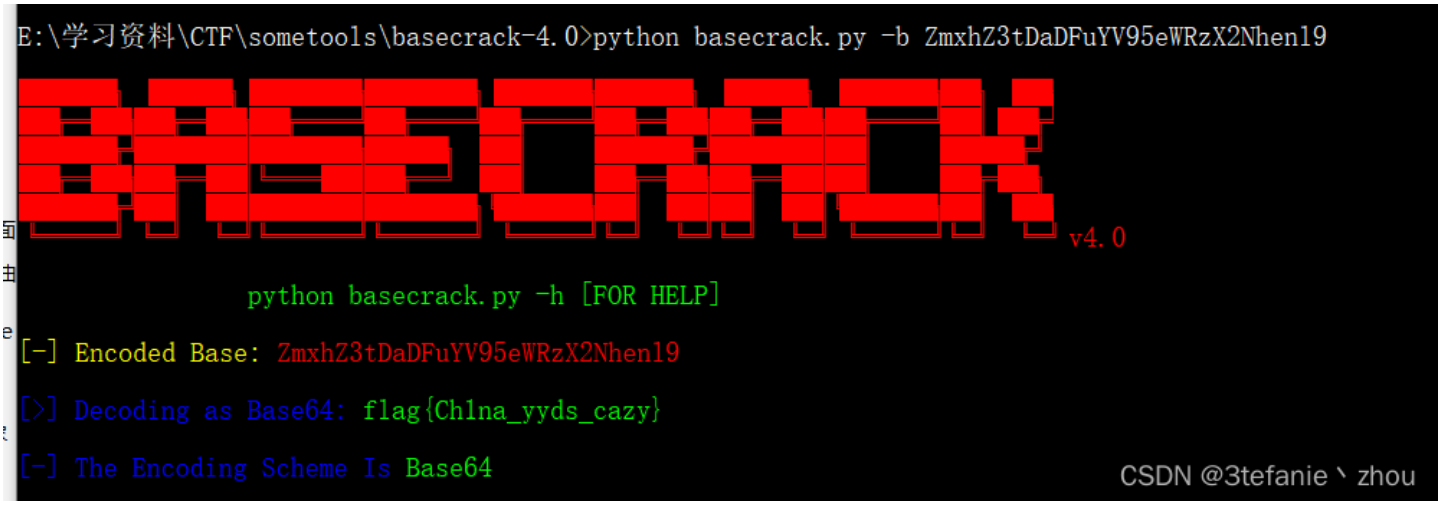
cute_doge

下载文件，ctf1.exe，用ida打开，查看字符串



发现可疑字符串`ZmxhZ3tDaDFuYV95eWRzX2Nhenl9`

base家族解密，发现是Base64



flag：

```
flag{Ch1na_yyds_cazy}
```

【始终被他人寄予希望，方觉自己不孤单】