

0x7CF

We have a binary on trying to run it normally it says

```
[└(docx㉿kali)-[~/0x7CF]
$ ./0x7CF
Current System Year: 2025
[ACCESS DENIED] The time portal is closed.
```

so we have to either change the system time since it is mentioned in the overview as:

My logic is frozen in a specific frame of reference.
If you query me now, I am silent; my memory is fragmented,
built instruction by instruction on the
stack to hide from your prying eyes.

I require a specific environment to function—a temporal
coordinate where the fear of the null byte gripped the world.
Synchronize your watches.

The countdown ends where the zeros begin.

‘The fear of the nullbyte gripped the world’

this line is important as in saying it is talking about the date 1999-12-31
so we can either fake the time or use a debugging tool to find the flag

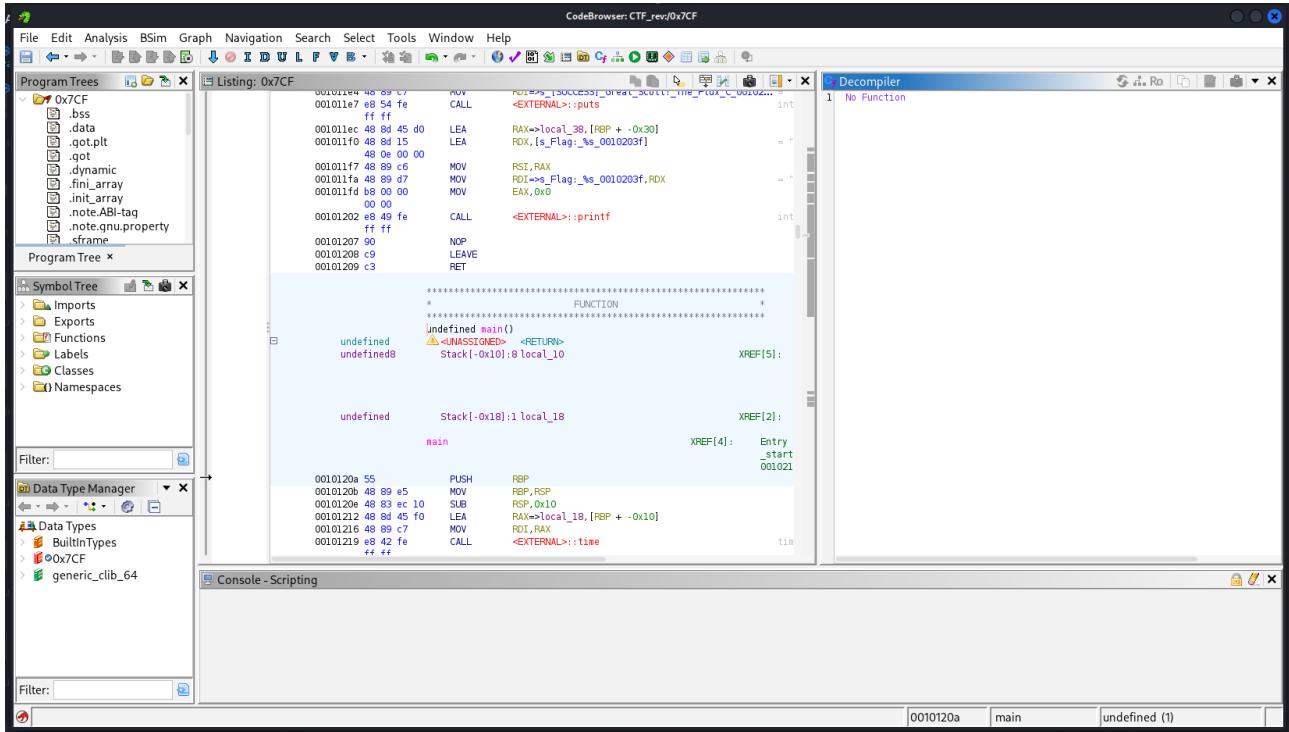
first we will try the fake time

```
[└(docx㉿kali)-[~/0x7CF]
$ faketime '1999-12-31 23:59:50' ./0x7CF
Current System Year: 1999
[SUCCESS] Great Scott! The Flux Capacitor is fluxing.
Flag: SGCTF{party_like_its_1999}
```

which gets us the flag
SGCTF{party_like_its_1999}

now we can try the debugging tool way

import the binary file to ghidra project folder and analyse it with default selections



we find the print_flag function which has a series of bytes

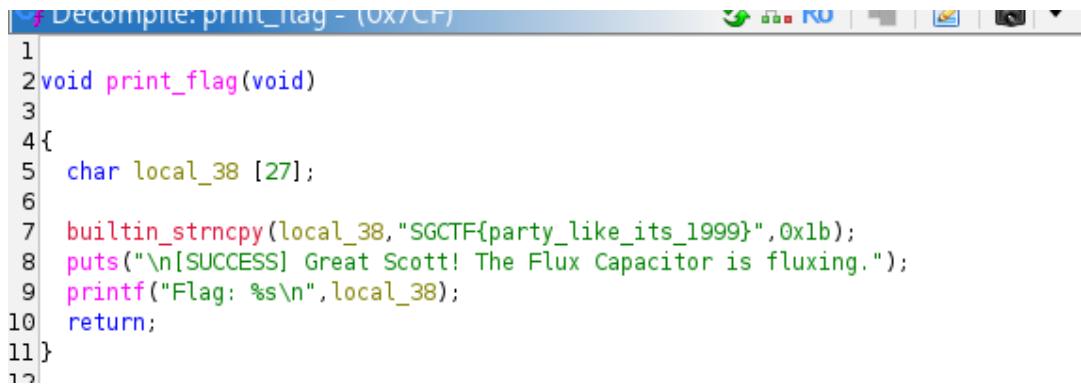
print_flag XREF [4]

```
00101169 55          PUSH    RBP
0010116a 48 89 e5     MOV     RBP, RSP
0010116d 48 83 ec 30  SUB    RSP, 0x30
00101171 c6 45 d0 53  MOV    byte ptr [RBP + local_38], 0x53
00101175 c6 45 d1 47  MOV    byte ptr [RBP + local_37], 0x47
00101179 c6 45 d2 43  MOV    byte ptr [RBP + local_36], 0x43
0010117d c6 45 d3 54  MOV    byte ptr [RBP + local_35], 0x54
00101181 c6 45 d4 46  MOV    byte ptr [RBP + local_34], 0x46
00101185 c6 45 d5 7b  MOV    byte ptr [RBP + local_33], 0x7b
00101189 c6 45 d6 70  MOV    byte ptr [RBP + local_32], 0x70
0010118d c6 45 d7 61  MOV    byte ptr [RBP + local_31], 0x61
00101191 c6 45 d8 72  MOV    byte ptr [RBP + local_30], 0x72
00101195 c6 45 d9 74  MOV    byte ptr [RBP + local_2f], 0x74
00101199 c6 45 da 79  MOV    byte ptr [RBP + local_2e], 0x79
0010119d c6 45 db 5f  MOV    byte ptr [RBP + local_2d], 0x5f
001011a1 c6 45 dc 6c  MOV    byte ptr [RBP + local_2c], 0x6c
001011a5 c6 45 dd 69  MOV    byte ptr [RBP + local_2b], 0x69
001011a9 c6 45 de 6b  MOV    byte ptr [RBP + local_2a], 0x6b
001011ad c6 45 df 65  MOV    byte ptr [RBP + local_29], 0x65
001011b1 c6 45 e0 5f  MOV    byte ptr [RBP + local_28], 0x5f
001011b5 c6 45 e1 69  MOV    byte ptr [RBP + local_27], 0x69
001011b9 c6 45 e2 74  MOV    byte ptr [RBP + local_26], 0x74
001011bd c6 45 e3 73  MOV    byte ptr [RBP + local_25], 0x73
001011c1 c6 45 e4 5f  MOV    byte ptr [RBP + local_24], 0x5f
001011c5 c6 45 e5 31  MOV    byte ptr [RBP + local_23], 0x31
001011c9 c6 45 e6 39  MOV    byte ptr [RBP + local_22], 0x39
001011cd c6 45 e7 39  MOV    byte ptr [RBP + local_21], 0x39
001011d1 c6 45 e8 39  MOV    byte ptr [RBP + local_20], 0x39
001011d5 c6 45 e9 7d  MOV    byte ptr [RBP + local_1f], 0x7d
001011d9 c6 45 ea 00  MOV    byte ptr [RBP + local_1e], 0x0
001011dd 48 8d 05    LEA    RAX, [s_[SUCCESS]_Great_Scott!_The_Flux_]
```

select local_38 in it and select retype variable in ghidra

and type char[27]

which turns into



The screenshot shows the Ghidra decompiler interface with the title "Decompile: print_flag - (0x7CF)". The code window contains the following C-like pseudocode:

```
1
2 void print_flag(void)
3 {
4     char local_38 [27];
5
6     builtin_strncpy(local_38,"SGCTF{party_like_its_1999}",0x1b);
7     puts("\n[SUCCESS] Great Scott! The Flux Capacitor is fluxing.");
8     printf("Flag: %s\n",local_38);
9
10    return;
11 }
12
```

which gives us the flag SGCTF{party_like_its_1999}