

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

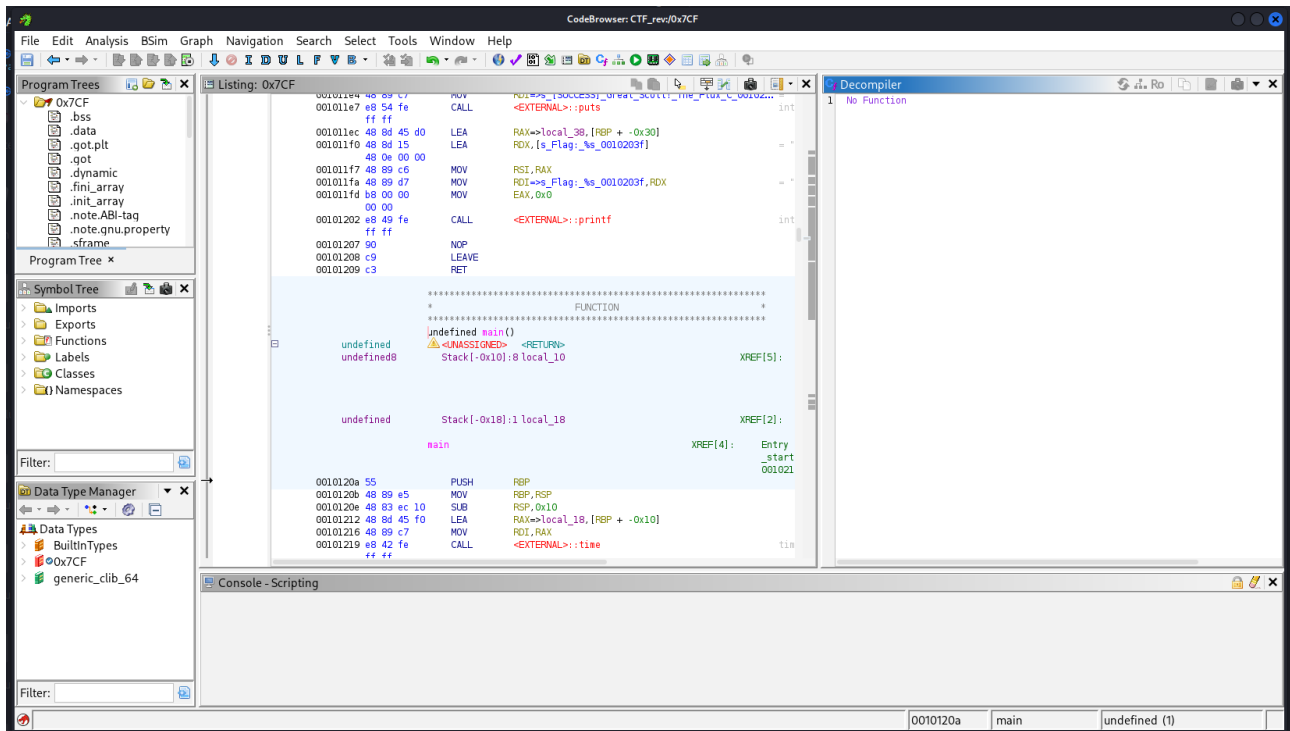
```
(docx@kali)-[~/0x7CF]
$ faketime '1999-12-31 23:59:50' ./0x7CF
Current System Year: 1999

[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_]	
74 0a 00 00			

select local\_38 in it and select retype variable in ghidra

and type char[27]

which turns into



```
Decompile: print_flag - (0x7CF)
1
2 void print_flag(void)
3
4 {
5     char local_38 [27];
6
7     builtin_strncpy(local_38,"SGCTF{party_like_its_1999}",0x1b);
8     puts("\n[SUCCESS] Great Scott! The Flux Capacitor is fluxing.");
9     printf("Flag: %s\n",local_38);
10    return;
11 }
```

which gives us the flag SGCTF{party\_like\_its\_1999}