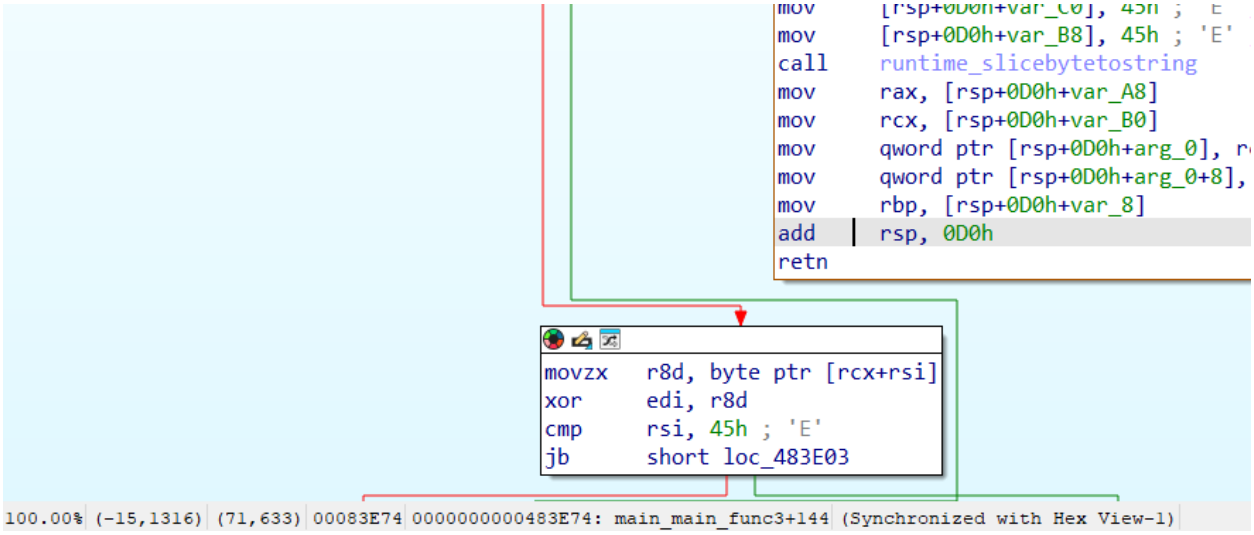
First, we open the executable and IDA and start analyzing the main functions. All of them seem to take 2 byte string, xor them then print them. main_main_func3 seems to handle the flag since it uses 69 characters, which is confirmed after a bit of investigation.

To view the value of flag we need to view the value of v6 before the return. First, we open the executable in gdb, then we set a breakpoint to *0x483e74, the last action done before the return (we saw this address in ida here):



After that, we inspect what is on the stack:

```
(gdb) x/50x $sp
0xc420043e10:   0x00000000      0x00000000      0x20043e8b      0x000000c4
0xc420043e20:   0x00000045      0x00000000      0x00000045      0x00000000
0xc420043e30:   0x200ae0a0      0x000000c4      0x00000045      0x00000000
0xc420043e40:   0x00000045      0x00000000      0x00000020      0x00000000
0xc420043e50:   0x0000000b      0x00000000      0x00000000      0x00000000
0xc420043e60:   0x00000000      0x00000000      0x0000000b      0x00000000
0xc420043e70:   0x200aa000      0x000000c4      0x00000000      0x00000000
0xc420043e80:   0x00000000      0x00000000      0x63043ed8      0x317b6674
0xc420043e90:   0x39366566      0x37383435      0x62616230      0x62353564
0xc420043ea0:   0x35653661      0x35616664      0x65346437      0x61313164
0xc420043eb0:   0x37626261      0x33333530      0x62373933      0x63353839
0xc420043ec0:   0x37303938      0x62633934      0x65376366      0x7d363033
0xc420043ed0:   0x200ae000      0x000000c4
```

Those look like the flag characters, so we dump this section of memory with

dump memory mem.dump 0x000000c41fff8000 0x000000c420100000

The flag is in mem.dump

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