PicoCTF - Low Level Binary Intro

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Intro to Assembly

Bit-O-Asm-1

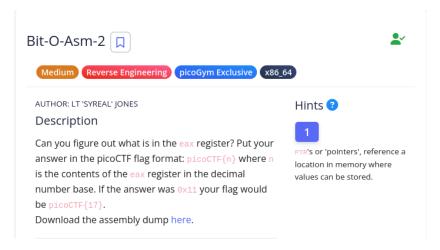


Hint: As with most assembly, there is a lot of noise in the instruction dump. Find the one line that pertains to this question and don't second guess yourself!

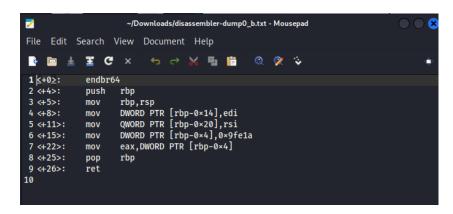
```
~/Downloads/disassembler-dump0_a.txt - Mousepad
File Edit Search View Document Help
B □ □ C ×
                        5 c % 🖺 📋 Q & A
                                                                                    83
1 <+0≥:
            endbr64
                   rbp
2 <+4>:
            push
3 <+5>:
                   rbp,rsp
DWORD PTR [rbp-0×4],edi
QWORD PTR [rbp-0×10],rsi
            mov
4 <+8>:
            mov
5 <+11>:
            mov
6 <+15>:
                   eax,0×30
            mov
7 <+20>:
            pop
8 <+21>:
```

0x30 = 48

Bit-O-Asm-2

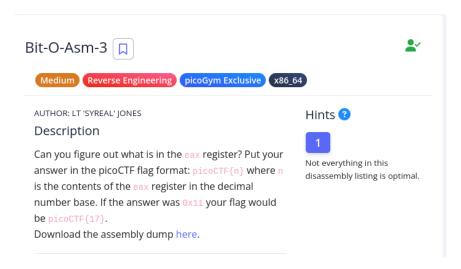


Hint: PTR's or 'pointers', reference a location in memory where values can be stored.

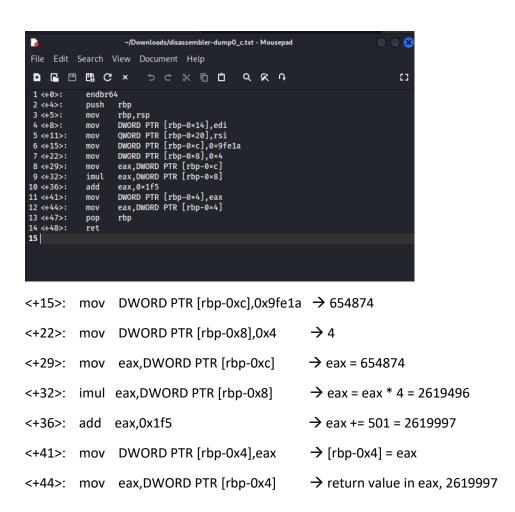


0x9fe1a = 654874

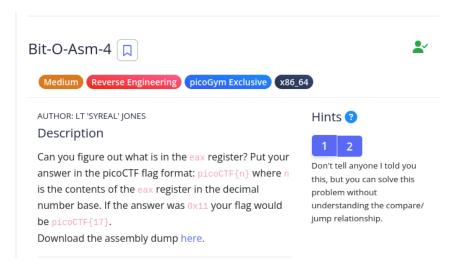
Bit-O-Asm-3



Hint: Not everything in this disassembly listing is optimal.

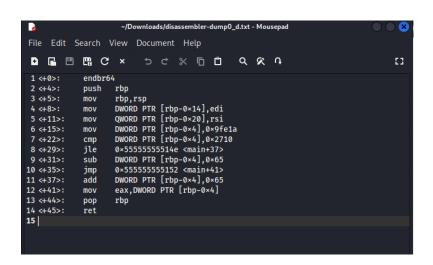


Bit-O-Asm-4



Hint 1: Don't tell anyone I told you this, but you can solve this problem without understanding the compare/jump relationship.

Hint 2: Of course, if you're really good, you'll only need one attempt to solve this problem.



<+15>: mov DWORD PTR [rbp-0x4],0x9fe1a → 654874

<+41>: mov eax,DWORD PTR [rbp-0x4]

→ return value in eax, 654773