



Medium Reverse Engineering picoGym Exclusive x86_64

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Hints ?

1

Not everything in this disassembly listing is optimal.

Description

Can you figure out what is in the `eax` register? Put your answer in the picoCTF flag format: `picoCTF{n}` where *n* is the contents of the `eax` register in the decimal number base. If the answer was `0x11` your flag would be `picoCTF{17}`.

Download the assembly dump [here](#).

```
Bit-0-Asm3 % cat disassembler-dump0_c.txt
<+0>:    endbr64
<+4>:    push   rbp
<+5>:    mov    rbp,rsi
<+8>:    mov    DWORD PTR [rbp-0x14],edi
<+11>:   mov    QWORD PTR [rbp-0x20],rsi
<+15>:   mov    DWORD PTR [rbp-0xc],0x9fe1a
<+22>:   mov    DWORD PTR [rbp-0x8],0x4
<+29>:   mov    eax,DWORD PTR [rbp-0xc]
<+32>:   imul   eax,DWORD PTR [rbp-0x8]
<+36>:   add    eax,0x1f5
<+41>:   mov    DWORD PTR [rbp-0x4],eax
<+44>:   mov    eax,DWORD PTR [rbp-0x4]
<+47>:   pop    rbp
<+48>:   ret
Bit-0-Asm3 % python3
Python 3.13.0 (v3.13.0:60403a5409f, Oct  7 2024, 00:37:40) [Clang 15.0.0 (clang-1500.3.9.4)] on darwin
Type "help", "copyright", "credits" or "license" for more information.
>>> 0x9fe1a
654874
>>> 0xc
12
>>> 0x8
8
>>> 0x9fe1a
654874
>>> 0x4
4
>>> print(654874 * 4)
2619496
>>> 0x1f5
501
>>> print(2619496 + 501)
2619997
>>> █
```

flag : PicoCTF{2619997}t