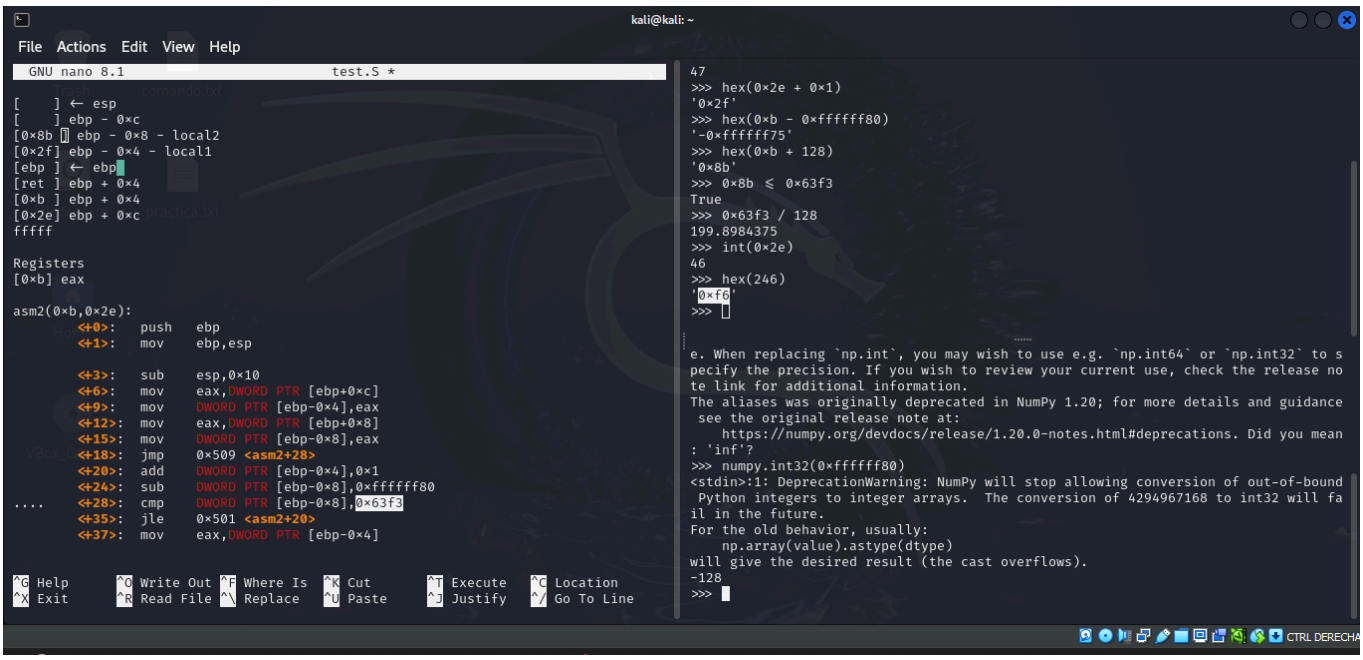
Description

What does asm2(0xb,0x2e) return? Submit the flag as a hexadecimal value (starting with '0x'). NOTE: Your submission for this question will NOT be in the normal flag format. Source

Hints

- assembly conditions

Solución




```
┌──(kali㉿kali)-[~/…/categorias/reversing/parte_03/asm2]
└─$ cat test.S
Stack
00000



[     ] <- esp
[     ] ebp - 0xc
[0x8b ] ebp - 0x8 - local2
[0x2f] ebp - 0x4 - local1
[ebp ] <- ebp
[ret ] ebp + 0x4
[0xb ] ebp + 0x4
[0x2e] ebp + 0xc
fffff
```

```
Registers
[0xb] eax

asm2(0xb,0x2e):
        <+0>:   push   ebp
        <+1>:   mov    ebp,esp

        <+3>:   sub    esp,0x10
        <+6>:   mov    eax,DWORD PTR [ebp+0xc]
        <+9>:   mov    DWORD PTR [ebp-0x4],eax
        <+12>:  mov    eax,DWORD PTR [ebp+0x8]
        <+15>:  mov    DWORD PTR [ebp-0x8],eax
        <+18>:  jmp    0x509 <asm2+28>
        <+20>:  add    DWORD PTR [ebp-0x4],0x1
        <+24>:  sub    DWORD PTR [ebp-0x8],0xffffff80
....    <+28>:  cmp    DWORD PTR [ebp-0x8],0x63f3
        <+35>:  jle    0x501 <asm2+20>
        <+37>:  mov    eax,DWORD PTR [ebp-0x4]

        <+40>:  leave
        <+41>:  ret

┌──(kali㉿kali)-[~]
└─$ python3
Python 3.11.9 (main, Apr 10 2024, 13:16:36) [GCC 13.2.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> int(0x10)
16
>>> 0xb <= 0x63f3
True
>>> 0x2e + 0x1
47
>>> hex(0x2e + 0x1)
'0x2f'
>>> hex(0xb - 0xffffff80)
'-0xffffff75'
>>> hex(0xb + 128)
'0x8b'
>>> 0x8b <= 0x63f3
True
>>> 0x63f3 / 128
199.8984375
>>> int(0x2e)
46
>>> hex(246)
```

```
'0xf6'
>>>



┌──(kali㉿kali)-[~]
└─$ python3
Python 3.11.9 (main, Apr 10 2024, 13:16:36) [GCC 13.2.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> import numpy
>>> numpy.int32(0xffffff80)
<stdin>:1: DeprecationWarning: NumPy will stop allowing conversion of out-of-
bound Python integers to integer arrays.  The conversion of 4294967168 to
int32 will fail in the future.
For the old behavior, usually:
    np.array(value).astype(dtype)
will give the desired result (the cast overflows).
-128
>>>
```

Bandera

```
flag: 0xf6
```

Notas Adicionales

Referencias

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