```
(No debugging symbols found in stack)
(gdb) b foo
Breakpoint 1 at 0x11c1
(gdb) r
Starting program: /home/ubuntu/stack
Downloading separate debug info for /lib/ld-linux.so.2
Downloading separate debug info for system-supplied DSO at 0xf7fc7000
Downloading separate debug info for /lib32/libc.so.6
[Thread debugging using libthread_db enabled]
Using host libthread_db library "/lib/x86_64-linux-gnu/libthread_db.so.1".

Program received signal SIGSEGV, Segmentation fault.
0xf7dfb336 in fread () from /lib32/libc.so.6
(gdb) p system
$1 = {<text variable, no debug info>} 0xf7dd58e0 <system>
(gdb) p exit
$2 = {<text variable, no debug info>} 0xf7dc45b0 <exit>
(gdb) find 0xf7e00000, 0xf7ffffff, "/bin/sh"
0xf7f42de8
warning: Unable to access 16000 bytes of target memory at 0xf7fb80f0, halting search.
1 pattern found.
(gdb) exit
A debugging session is active.

        Inferior 1 [process 17784] will be killed.

Quit anyway? (y or n) y
ubuntu@primary:~$ nano exploit_libc.py
ubuntu@primary:~$ python3 exploit_libc.py
  File "/home/ubuntu/exploit_libc.py", line 1
    0xf7dd58e00xf7dc45b0#!/usr/bin/python3
              ^
SyntaxError: invalid hexadecimal literal
ubuntu@primary:~$ nano exploit_libc.py
ubuntu@primary:~$ nano exploit_libc.py
ubuntu@primary:~$ python3 exploit_libc.py
ubuntu@primary:~$ ls
Home  exploit_libc.py  snap  stack  stack.c
ubuntu@primary:~$ nano exploit_libc.py
ubuntu@primary:~$ nano stack.c
ubuntu@primary:~$ nano badfile
ubuntu@primary:~$ ./stack
Returned Properly
ubuntu@primary:~$ nano stack.c
ubuntu@primary:~$ nano libc_exploit.py
ubuntu@primary:~$ nano libc_exploit.py
ubuntu@primary:~$ python3 libc_exploit.py
ubuntu@primary:~$ ls
Home  badfile  exploit_libc.py  libc_exploit.py  snap  stack  stack.c
ubuntu@primary:~$ ./stack
Returned Properly
ubuntu@primary:~$ system("/bin/sh");
-bash: syntax error near unexpected token `"/bin/sh"'
ubuntu@primary:~$
```

HUNCHO

PROGRAMMING