


```
P printEmail
P showEmails
P main
```

Knowing these details it is a simple matter to fire up GDB and find the address that the "showEmails" function is loaded into.

```
willy@willy-Mint ~/TUCTF $ gdb -q ./funmail2.0
Reading symbols from ./funmail2.0...(no debugging symbols found)...done.
(gdb) break main
Breakpoint 1 at 0xb33
(gdb) run
Starting program: /home/willy/TUCTF/funmail2.0

Breakpoint 1, 0x56555b33 in main ()
(gdb) disassemble showEmails
Dump of assembler code for function showEmails:
   0x56555a2c <+0>:   push    %ebp
   0x56555a2d <+1>:   mov     %ebp, %esp
   0x56555a2e <+2>:   mov     $0, %eax
   0x56555a2f <+3>:   ret     4
```

Then we can simply change EIP to point to that function and let the program run to receive our flag!

```
(gdb) set $eip = 0x56555a2c
(gdb) c
Continuing.
You have 1 unread email.
1) Read Email
2) Quit
>> 1
-----
From: Leeroy Jenkins
To: whoisjohngalt
Subject: RE: I need a flag

Hey John it's Leeroy.
You were asking about a fun flag to use in your next challenge
and I think I got one. Tell me what you think of:
TUCTF{l0c4l_< r3m073_3x3cu710n}
Get back to me as soon as you can. Thanks!
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```