Princeton University
COS 217: Introduction to Programming Systems
Linker Output for powerfunction via gdb

$ gcc -o powerfunction powerfunction.o

$ gdb powerfunction

(gdb) x/17i power
0x804835c <power>:       push   %ebp
0x804835d <power+1>:     mov    %esp,%ebp
0x804835f <power+3>:     push   $0x1
0x8048361 <power+5>:     push   $0x0
0x8048363 <power+7>:     movl   $0x1,0xffffffff8(%ebp)
0x804836a <loop1>:       movl   0xffffffff8(%ebp),%eax
0x804836d <loop1+3>:     cmp    0xc(%ebp),%eax
0x8048370 <loop1+6>:     jg     0x8048380 <loopend1>
0x8048372 <loop1+8>:     mov    0xffffffff8(%ebp),%eax
0x8048375 <loop1+11>:    imull  0x8(%ebp)
0x8048378 <loop1+14>:    mov    %eax,0xffffffff8(%ebp)
0x804837b <loop1+17>:    incl   0xffffffff8(%ebp)
0x804837e <loop1+20>:    jmp    0x804836a <loop1>
0x8048380 <loopend1>:    mov    0xffffffff8(%ebp),%eax
0x8048383 <loopend1+3>:  mov    %ebp,%esp
0x8048385 <loopend1+5>:  pop    %ebp
0x8048386 <loopend1+6>:  ret

(gdb) x/43b power
0x804835c <power>:       0x55 0x89 0xe5 0x6a 0x01 0x6a 0x00 0xc7
0x8048364 <power+8>:     0x45 0xf8 0x01 0x00 0x00 0x00 0x8b 0x45
0x804836c <loop1+2>:     0xf8 0x3b 0x45 0xc 0x7f 0x0e 0x8b 0x45
0x8048374 <loop1+10>:    0xfc 0xf7 0x6d 0x08 0x89 0x45 0xfc 0xf7
0x804837c <loop1+18>:    0x45 0xf8 0x0eb 0x0ea 0x8b 0x45 0xfc 0x89
0x8048384 <loopend1+4>:  0xec 0x5d 0xc3