```
                              push   %ebp
                              mov    %esp,%ebp
                              sub    $0x28,%esp
                              movl   $0x0,-0xc(%ebp)
unsigned int foo(char *buf,   cmpl   $0x0,0x8(%ebp)
        unsigned int *out)    je     8048442 <foo+0x23>
{                             mov    0x8(%ebp),%eax
  unsigned int c;             mov    %eax,(%esp)
  c = 0;                      call   804831c <strlen@plt>
  if (buf) {                  mov    0xc(%ebp),%edx
    *out = strlen(buf);       mov    %eax,(%edx)
  }                           mov    0xc(%ebp),%eax
  if (*out) {                 mov    (%eax),%eax
    c = *out - 1;             test   %eax,%eax
  }                           je     8048456 <foo+0x37>
  return c;                   mov    0xc(%ebp),%eax
}                             mov    (%eax),%eax
                              sub    $0x1,%eax
                              mov    %eax,-0xc(%ebp)
                              mov    -0xc(%ebp),%eax
                              leave
                              ret
```

(a) Source code

(b) Disassembled code