```
000000000040057d <main>:
  40057d:   55                      push   %rbp
  40057e:   48 89 e5                mov    %rsp,%rbp
  400581:   48 83 ec 10             sub    $0x10,%rsp
  400585:   48 c7 45 f0 04 00 00    movq   $0x4,-0x10(%rbp)
  40058c:   00
  40058d:   bf b0 06 40 00          mov    $0x4006b0,%edi
  400592:   b8 00 00 00 00          mov    $0x0,%eax
  400597:   e8 b4 fe ff ff          callq  400450 <printf@plt>
  40059c:   48 8d 45 f0             lea    -0x10(%rbp),%rax
  4005a0:   48 89 c6                mov    %rax,%rsi
  4005a3:   bf c0 06 40 00          mov    $0x4006c0,%edi
  4005a8:   b8 00 00 00 00          mov    $0x0,%eax
  4005ad:   e8 ce fe ff ff          callq  400480 <scanf@plt>
  4005b2:   48 8b 45 f0             mov    -0x10(%rbp),%rax
  4005b6:   48 89 c7                mov    %rax,%rdi
  4005b9:   e8 25 00 00 00          callq  4005e3 <fib>
  4005be:   48 89 45 f8             mov    %rax,-0x8(%rbp)
  4005c2:   48 8b 45 f0             mov    -0x10(%rbp),%rax
  4005c6:   48 8b 55 f8             mov    -0x8(%rbp),%rdx
  4005ca:   48 89 c6                mov    %rax,%rsi
  4005cd:   bf c3 06 40 00          mov    $0x4006c3,%edi
  4005d2:   b8 00 00 00 00          mov    $0x0,%eax
  4005d7:   e8 74 fe ff ff          callq  400450 <printf@plt>
  4005dc:   b8 00 00 00 00          mov    $0x0,%eax
  4005e1:   c9                      leaveq
  4005e2:   c3                      retq

00000000004005e3 <fib>:
  4005e3:   55                      push   %rbp
  4005e4:   48 89 e5                mov    %rsp,%rbp
  4005e7:   48 89 f8                mov    %rdi,%rax
  4005ea:   48 83 ff 02             cmp    $0x2,%rdi
  4005ee:   72 22                   jb     400612 <done>
  4005f0:   53                      push   %rbx
  4005f1:   41 54                   push   %r12
  4005f3:   48 ff cf                dec    %rdi
  4005f6:   48 89 fb                mov    %rdi,%rbx
  4005f9:   e8 e5 ff ff ff          callq  4005e3 <fib>
  4005fe:   49 89 c4                mov    %rax,%r12
  400601:   48 89 df                mov    %rbx,%rdi
  400604:   48 ff cf                dec    %rdi
  400607:   e8 d7 ff ff ff          callq  4005e3 <fib>
  40060c:   4c 01 e0                add    %r12,%rax
  40060f:   41 5c                   pop    %r12
  400611:   5b                      pop    %rbx

0000000000400612 <done>:
  400612:   c9                      leaveq
  400613:   c3                      retq
```