bomb_64:   file format elf64-x86-64

Disassembly of section .init:

0000000000400a48 <_init>:
```
  400a48:   48 83 ec 08           sub     $0x8,%rsp
  400a4c:   e8 1b 02 00 00        callq   400c6c <call_gmon_start>
  400a51:   e8 aa 02 00 00        callq   400d00 <frame_dummy>
  400a56:   e8 45 0e 00 00        callq   4018a0 <__do_global_ctors_aux>
  400a5b:   48 83 c4 08           add     $0x8,%rsp
  400a5f:   c3                        retq
```

Disassembly of section .plt:

0000000000400a60 <.plt>:
```
  400a60:   ff 35 22 1a 20 00     pushq     0x201a22(%rip)              #   602488
<_GLOBAL_OFFSET_TABLE_+0x8>
  400a66:   ff 25 24 1a 20 00     jmpq      *0x201a24(%rip)            #   602490
<_GLOBAL_OFFSET_TABLE_+0x10>
  400a6c:   0f 1f 40 00           nopl    0x0(%rax)
```

0000000000400a70 <printf@plt>:
```
  400a70:   ff 25 22 1a 20 00     jmpq      *0x201a22(%rip)            #   602498
<printf@GLIBC_2.2.5>
  400a76:   68 00 00 00 00        pushq   $0x0
  400a7b:   e9 e0 ff ff ff        jmpq    400a60 <.plt>
```

0000000000400a80 <close@plt>:
```
  400a80:   ff 25 1a 1a 20 00     jmpq      *0x201a1a(%rip)            #   6024a0
<close@GLIBC_2.2.5>
  400a86:   68 01 00 00 00        pushq   $0x1
  400a8b:   e9 d0 ff ff ff        jmpq    400a60 <.plt>
```

0000000000400a90 <gethostbyname@plt>:
```
  400a90:   ff 25 12 1a 20 00     jmpq      *0x201a12(%rip)            #   6024a8
<gethostbyname@GLIBC_2.2.5>
  400a96:   68 02 00 00 00        pushq   $0x2
  400a9b:   e9 c0 ff ff ff        jmpq    400a60 <.plt>
```

0000000000400aa0 <puts@plt>:
```
  400aa0:   ff 25 0a 1a 20 00     jmpq      *0x201a0a(%rip)            #   6024b0
<puts@GLIBC_2.2.5>
```

```
  400aa6:      68 03 00 00 00         pushq   $0x3
  400aab:      e9 b0 ff ff ff         jmpq    400a60 <.plt>


0000000000400ab0 <__isoc99_sscanf@plt>:
  400ab0:      ff 25 02 1a 20 00      jmpq    *0x201a02(%rip)        #   6024b8
<__isoc99_sscanf@GLIBC_2.7>
  400ab6:      68 04 00 00 00         pushq   $0x4
  400abb:      e9 a0 ff ff ff         jmpq    400a60 <.plt>


0000000000400ac0 <exit@plt>:
  400ac0:      ff 25 fa 19 20 00      jmpq    *0x2019fa(%rip)        #   6024c0
<exit@GLIBC_2.2.5>
  400ac6:      68 05 00 00 00         pushq   $0x5
  400acb:      e9 90 ff ff ff         jmpq    400a60 <.plt>


0000000000400ad0 <fopen@plt>:
  400ad0:      ff 25 f2 19 20 00      jmpq    *0x2019f2(%rip)        #   6024c8
<fopen@GLIBC_2.2.5>
  400ad6:      68 06 00 00 00         pushq   $0x6
  400adb:      e9 80 ff ff ff         jmpq    400a60 <.plt>


0000000000400ae0 <__libc_start_main@plt>:
  400ae0:      ff 25 ea 19 20 00      jmpq    *0x2019ea(%rip)        #   6024d0
<__libc_start_main@GLIBC_2.2.5>
  400ae6:      68 07 00 00 00         pushq   $0x7
  400aeb:      e9 70 ff ff ff         jmpq    400a60 <.plt>


0000000000400af0 <dup@plt>:
  400af0:      ff 25 e2 19 20 00      jmpq    *0x2019e2(%rip)        #   6024d8
<dup@GLIBC_2.2.5>
  400af6:      68 08 00 00 00         pushq   $0x8
  400afb:      e9 60 ff ff ff         jmpq    400a60 <.plt>


0000000000400b00 <system@plt>:
  400b00:      ff 25 da 19 20 00      jmpq    *0x2019da(%rip)        #   6024e0
<system@GLIBC_2.2.5>
  400b06:      68 09 00 00 00         pushq   $0x9
  400b0b:      e9 50 ff ff ff         jmpq    400a60 <.plt>


0000000000400b10 <fgets@plt>:
  400b10:      ff 25 d2 19 20 00      jmpq    *0x2019d2(%rip)        #   6024e8
<fgets@GLIBC_2.2.5>
  400b16:      68 0a 00 00 00         pushq   $0xa
  400b1b:      e9 40 ff ff ff         jmpq    400a60 <.plt>
```

```
0000000000400b20 <fputc@plt>:
  400b20:    ff 25 ca 19 20 00      jmpq    *0x2019ca(%rip)        #   6024f0
<fputc@GLIBC_2.2.5>
  400b26:    68 0b 00 00 00         pushq   $0xb
  400b2b:    e9 30 ff ff ff         jmpq    400a60 <.plt>

0000000000400b30 <bcopy@plt>:
  400b30:    ff 25 c2 19 20 00      jmpq    *0x2019c2(%rip)        #   6024f8
<bcopy@GLIBC_2.2.5>
  400b36:    68 0c 00 00 00         pushq   $0xc
  400b3b:    e9 20 ff ff ff         jmpq    400a60 <.plt>

0000000000400b40 <__ctype_b_loc@plt>:
  400b40:    ff 25 ba 19 20 00      jmpq    *0x2019ba(%rip)        #   602500
<__ctype_b_loc@GLIBC_2.3>
  400b46:    68 0d 00 00 00         pushq   $0xd
  400b4b:    e9 10 ff ff ff         jmpq    400a60 <.plt>

0000000000400b50 <sprintf@plt>:
  400b50:    ff 25 b2 19 20 00      jmpq    *0x2019b2(%rip)        #   602508
<sprintf@GLIBC_2.2.5>
  400b56:    68 0e 00 00 00         pushq   $0xe
  400b5b:    e9 00 ff ff ff         jmpq    400a60 <.plt>

0000000000400b60 <sleep@plt>:
  400b60:    ff 25 aa 19 20 00      jmpq    *0x2019aa(%rip)        #   602510
<sleep@GLIBC_2.2.5>
  400b66:    68 0f 00 00 00         pushq   $0xf
  400b6b:    e9 f0 fe ff ff         jmpq    400a60 <.plt>

0000000000400b70 <rewind@plt>:
  400b70:    ff 25 a2 19 20 00      jmpq    *0x2019a2(%rip)        #   602518
<rewind@GLIBC_2.2.5>
  400b76:    68 10 00 00 00         pushq   $0x10
  400b7b:    e9 e0 fe ff ff         jmpq    400a60 <.plt>

0000000000400b80 <strtol@plt>:
  400b80:    ff 25 9a 19 20 00      jmpq    *0x20199a(%rip)        #   602520
<strtol@GLIBC_2.2.5>
  400b86:    68 11 00 00 00         pushq   $0x11
  400b8b:    e9 d0 fe ff ff         jmpq    400a60 <.plt>

0000000000400b90 <connect@plt>:
```

```
  400b90:    ff 25 92 19 20 00      jmpq    *0x201992(%rip)          #  602528
<connect@GLIBC_2.2.5>
  400b96:    68 12 00 00 00         pushq   $0x12
  400b9b:    e9 c0 fe ff ff         jmpq    400a60 <.plt>


0000000000400ba0 <tmpfile@plt>:
  400ba0:    ff 25 8a 19 20 00      jmpq    *0x20198a(%rip)          #  602530
<tmpfile@GLIBC_2.2.5>
  400ba6:    68 13 00 00 00         pushq   $0x13
  400bab:    e9 b0 fe ff ff         jmpq    400a60 <.plt>


0000000000400bb0 <signal@plt>:
  400bb0:    ff 25 82 19 20 00      jmpq    *0x201982(%rip)          #  602538
<signal@GLIBC_2.2.5>
  400bb6:    68 14 00 00 00         pushq   $0x14
  400bbb:    e9 a0 fe ff ff         jmpq    400a60 <.plt>


0000000000400bc0 <socket@plt>:
  400bc0:    ff 25 7a 19 20 00      jmpq    *0x20197a(%rip)          #  602540
<socket@GLIBC_2.2.5>
  400bc6:    68 15 00 00 00         pushq   $0x15
  400bcb:    e9 90 fe ff ff         jmpq    400a60 <.plt>


0000000000400bd0 <getenv@plt>:
  400bd0:    ff 25 72 19 20 00      jmpq    *0x201972(%rip)          #  602548
<getenv@GLIBC_2.2.5>
  400bd6:    68 16 00 00 00         pushq   $0x16
  400bdb:    e9 80 fe ff ff         jmpq    400a60 <.plt>


0000000000400be0 <cuserid@plt>:
  400be0:    ff 25 6a 19 20 00      jmpq    *0x20196a(%rip)          #  602550
<cuserid@GLIBC_2.2.5>
  400be6:    68 17 00 00 00         pushq   $0x17
  400beb:    e9 70 fe ff ff         jmpq    400a60 <.plt>


0000000000400bf0 <strcpy@plt>:
  400bf0:    ff 25 62 19 20 00      jmpq    *0x201962(%rip)          #  602558
<strcpy@GLIBC_2.2.5>
  400bf6:    68 18 00 00 00         pushq   $0x18
  400bfb:    e9 60 fe ff ff         jmpq    400a60 <.plt>


0000000000400c00 <fclose@plt>:
  400c00:    ff 25 5a 19 20 00      jmpq    *0x20195a(%rip)          #  602560
<fclose@GLIBC_2.2.5>
```

```
  400c06:      68 19 00 00 00          pushq   $0x19
  400c0b:      e9 50 fe ff ff          jmpq    400a60 <.plt>


0000000000400c10 <fwrite@plt>:
  400c10:      ff 25 52 19 20 00       jmpq     *0x201952(%rip)          #   602568
<fwrite@GLIBC_2.2.5>
  400c16:      68 1a 00 00 00          pushq   $0x1a
  400c1b:      e9 40 fe ff ff          jmpq    400a60 <.plt>


0000000000400c20 <fprintf@plt>:
  400c20:      ff 25 4a 19 20 00       jmpq     *0x20194a(%rip)          #   602570
<fprintf@GLIBC_2.2.5>
  400c26:      68 1b 00 00 00          pushq   $0x1b
  400c2b:      e9 30 fe ff ff          jmpq    400a60 <.plt>


0000000000400c30 <fflush@plt>:
  400c30:      ff 25 42 19 20 00       jmpq     *0x201942(%rip)          #   602578
<fflush@GLIBC_2.2.5>
  400c36:      68 1c 00 00 00          pushq   $0x1c
  400c3b:      e9 20 fe ff ff          jmpq    400a60 <.plt>


Disassembly of section .text:


0000000000400c40 <_start>:
  400c40:      31 ed                   xor      %ebp,%ebp
  400c42:      49 89 d1                mov      %rdx,%r9
  400c45:      5e                      pop      %rsi
  400c46:      48 89 e2                mov      %rsp,%rdx
  400c49:      48 83 e4 f0             and      $0xfffffffffffffff0,%rsp
  400c4d:      50                      push     %rax
  400c4e:      54                      push     %rsp
  400c4f:      49 c7 c0 90 18 40 00    mov      $0x401890,%r8
  400c56:      48 c7 c1 00 18 40 00    mov      $0x401800,%rcx
  400c5d:      48 c7 c7 24 0d 40 00    mov      $0x400d24,%rdi
  400c64:      e8 77 fe ff ff          callq   400ae0 <__libc_start_main@plt>
  400c69:      f4                      hlt
  400c6a:      90                      nop
  400c6b:      90                      nop


0000000000400c6c <call_gmon_start>:
  400c6c:      48 83 ec 08             sub      $0x8,%rsp
  400c70:      48 8b 05 01 18 20 00    mov       0x201801(%rip),%rax          #   602478
<__gmon_start__>
  400c77:      48 85 c0                test     %rax,%rax
```

```
 400c7a:    74 02                           je      400c7e <call_gmon_start+0x12>
 400c7c:    ff d0                    callq   *%rax
 400c7e:    48 83 c4 08              add     $0x8,%rsp
 400c82:    c3                       retq
 400c83:    90                               nop
 400c84:    90                               nop
 400c85:    90                               nop
 400c86:    90                               nop
 400c87:    90                               nop
 400c88:    90                               nop
 400c89:    90                               nop
 400c8a:    90                               nop
 400c8b:    90                               nop
 400c8c:    90                               nop
 400c8d:    90                               nop
 400c8e:    90                               nop
 400c8f:    90                               nop


0000000000400c90 <__do_global_dtors_aux>:
  400c90:   55                               push    %rbp
  400c91:   48 89 e5                 mov     %rsp,%rbp
  400c94:   53                               push    %rbx
  400c95:   48 83 ec 08              sub     $0x8,%rsp
  400c99:   80 3d b8 1f 20 00 00     cmpb    $0x0,0x201fb8(%rip)              # 602c58
<completed.5895>
  400ca0:   75 4b                            jne     400ced <__do_global_dtors_aux+0x5d>
  400ca2:   bb d8 22 60 00           mov     $0x6022d8,%ebx
  400ca7:   48 8b 05 b2 1f 20 00     mov     0x201fb2(%rip),%rax             # 602c60
<dtor_idx.5897>
  400cae:   48 81 eb d0 22 60 00     sub     $0x6022d0,%rbx
  400cb5:   48 c1 fb 03              sar     $0x3,%rbx
  400cb9:   48 83 eb 01              sub     $0x1,%rbx
  400cbd:   48 39 d8                 cmp     %rbx,%rax
  400cc0:   73 24                            jae     400ce6 <__do_global_dtors_aux+0x56>
  400cc2:   66 0f 1f 44 00 00        nopw    0x0(%rax,%rax,1)
  400cc8:   48 83 c0 01              add     $0x1,%rax
  400ccc:   48 89 05 8d 1f 20 00     mov     %rax,0x201f8d(%rip)            # 602c60
<dtor_idx.5897>
  400cd3:   ff 14 c5 d0 22 60 00     callq   *0x6022d0(,%rax,8)
  400cda:   48 8b 05 7f 1f 20 00     mov     0x201f7f(%rip),%rax             # 602c60
<dtor_idx.5897>
  400ce1:   48 39 d8                 cmp     %rbx,%rax
  400ce4:   72 e2                            jb      400cc8 <__do_global_dtors_aux+0x38>
  400ce6:   c6 05 6b 1f 20 00 01     movb    $0x1,0x201f6b(%rip)            # 602c58
```

```
<completed.5895>
  400ced:    48 83 c4 08              add      $0x8,%rsp
  400cf1:    5b                       pop      %rbx
  400cf2:    5d                       pop      %rbp
  400cf3:    c3                       retq
  400cf4:    66 66 66 2e 0f 1f 84     data16 data16 nopw %cs:0x0(%rax,%rax,1)
  400cfb:    00 00 00 00 00


0000000000400d00 <frame_dummy>:
  400d00:    48 83 3d d8 15 20 00     cmpq     $0x0,0x2015d8(%rip)          #  6022e0
<__JCR_END__>
  400d07:    00
  400d08:    55                       push     %rbp
  400d09:    48 89 e5                 mov      %rsp,%rbp
  400d0c:    74 12                    je       400d20 <frame_dummy+0x20>
  400d0e:    b8 00 00 00 00           mov      $0x0,%eax
  400d13:    48 85 c0                 test     %rax,%rax
  400d16:    74 08                    je       400d20 <frame_dummy+0x20>
  400d18:    5d                       pop      %rbp
  400d19:    bf e0 22 60 00           mov      $0x6022e0,%edi
  400d1e:    ff e0                    jmpq     *%rax
  400d20:    5d                       pop      %rbp
  400d21:    c3                       retq
  400d22:    90                       nop
  400d23:    90                       nop


0000000000400d24 <main>:
  400d24:    53                       push     %rbx
  400d25:    48 89 f3                 mov      %rsi,%rbx
  400d28:    83 ff 01                 cmp      $0x1,%edi
  400d2b:    75 10                    jne      400d3d <main+0x19>
  400d2d:    48 8b 05 0c 1f 20 00     mov      0x201f0c(%rip),%rax          #  602c40
<stdin@@GLIBC_2.2.5>
  400d34:    48 89 05 e5 21 20 00     mov      %rax,0x2021e5(%rip)          # 602f20 <infile>
  400d3b:    eb 56                    jmp      400d93 <main+0x6f>
  400d3d:    83 ff 02                 cmp      $0x2,%edi
  400d40:    75 35                    jne      400d77 <main+0x53>
  400d42:    48 8b 7e 08              mov      0x8(%rsi),%rdi
  400d46:    be 46 1d 40 00           mov      $0x401d46,%esi
  400d4b:    e8 80 fd ff ff           callq    400ad0 <fopen@plt>
  400d50:    48 89 05 c9 21 20 00     mov      %rax,0x2021c9(%rip)          # 602f20 <infile>
  400d57:    48 85 c0                 test     %rax,%rax
  400d5a:    75 37                    jne      400d93 <main+0x6f>
  400d5c:    48 8b 53 08              mov      0x8(%rbx),%rdx
```

```
400d60:    48 8b 33                    mov     (%rbx),%rsi
400d63:    bf 10 19 40 00              mov     $0x401910,%edi
400d68:    e8 03 fd ff ff              callq   400a70 <printf@plt>
400d6d:    bf 08 00 00 00              mov     $0x8,%edi
400d72:    e8 49 fd ff ff              callq   400ac0 <exit@plt>
400d77:    48 8b 36                    mov     (%rsi),%rsi
400d7a:    bf 2d 19 40 00              mov     $0x40192d,%edi
400d7f:    b8 00 00 00 00              mov     $0x0,%eax
400d84:    e8 e7 fc ff ff              callq   400a70 <printf@plt>
400d89:    bf 08 00 00 00              mov     $0x8,%edi
400d8e:    e8 2d fd ff ff              callq   400ac0 <exit@plt>
400d93:    e8 ff 05 00 00              callq   401397 <initialize_bomb>
400d98:    bf 78 19 40 00              mov     $0x401978,%edi
400d9d:    e8 fe fc ff ff              callq   400aa0 <puts@plt>
400da2:    bf b8 19 40 00              mov     $0x4019b8,%edi
400da7:    e8 f4 fc ff ff              callq   400aa0 <puts@plt>
400dac:    e8 ae 08 00 00              callq   40165f <read_line>
400db1:    48 89 c7                    mov     %rax,%rdi
400db4:    e8 b7 00 00 00              callq   400e70 <phase_1>
400db9:    e8 c7 09 00 00              callq   401785 <phase_defused>
400dbe:    bf e8 19 40 00              mov     $0x4019e8,%edi
400dc3:    e8 d8 fc ff ff              callq   400aa0 <puts@plt>
400dc8:    e8 92 08 00 00              callq   40165f <read_line>
400dcd:    48 89 c7                    mov     %rax,%rdi
400dd0:    e8 b7 00 00 00              callq   400e8c <phase_2>
400dd5:    e8 ab 09 00 00              callq   401785 <phase_defused>
400dda:    bf 47 19 40 00              mov     $0x401947,%edi
400ddf:    e8 bc fc ff ff              callq   400aa0 <puts@plt>
400de4:    e8 76 08 00 00              callq   40165f <read_line>
400de9:    48 89 c7                    mov     %rax,%rdi
400dec:    e8 08 01 00 00              callq   400ef9 <phase_3>
400df1:    e8 8f 09 00 00              callq   401785 <phase_defused>
400df6:    bf 65 19 40 00              mov     $0x401965,%edi
400dfb:    e8 a0 fc ff ff              callq   400aa0 <puts@plt>
400e00:    e8 5a 08 00 00              callq   40165f <read_line>
400e05:    48 89 c7                    mov     %rax,%rdi
400e08:    e8 b4 01 00 00              callq   400fc1 <phase_4>
400e0d:    e8 73 09 00 00              callq   401785 <phase_defused>
400e12:    bf 18 1a 40 00              mov     $0x401a18,%edi
400e17:    e8 84 fc ff ff              callq   400aa0 <puts@plt>
400e1c:    e8 3e 08 00 00              callq   40165f <read_line>
400e21:    48 89 c7                    mov     %rax,%rdi
400e24:    e8 d9 01 00 00              callq   401002 <phase_5>
400e29:    e8 57 09 00 00              callq   401785 <phase_defused>
```

```
400e2e:    bf 40 1a 40 00         mov      $0x401a40,%edi
400e33:    e8 68 fc ff ff         callq    400aa0 <puts@plt>
400e38:    bf 78 1a 40 00         mov      $0x401a78,%edi
400e3d:    e8 5e fc ff ff         callq    400aa0 <puts@plt>
400e42:    bf b8 1a 40 00         mov      $0x401ab8,%edi
400e47:    e8 54 fc ff ff         callq    400aa0 <puts@plt>
400e4c:    e8 0e 08 00 00         callq    40165f <read_line>
400e51:    48 89 c7               mov      %rax,%rdi
400e54:    e8 80 02 00 00         callq    4010d9 <phase_6>
400e59:    e8 27 09 00 00         callq    401785 <phase_defused>
400e5e:    b8 00 00 00 00         mov      $0x0,%eax
400e63:    5b                     pop      %rbx
400e64:    c3                     retq
400e65:    90                     nop
400e66:    90                     nop
400e67:    90                     nop
400e68:    90                     nop
400e69:    90                     nop
400e6a:    90                     nop
400e6b:    90                     nop
400e6c:    90                     nop
400e6d:    90                     nop
400e6e:    90                     nop
400e6f:    90                     nop

0000000000400e70 <phase_1>:
400e70:    48 83 ec 08            sub      $0x8,%rsp
400e74:    be f8 1a 40 00         mov      $0x401af8,%esi
400e79:    e8 bf 03 00 00         callq    40123d <strings_not_equal>
400e7e:    85 c0                  test     %eax,%eax
400e80:    74 05                  je       400e87 <phase_1+0x17>
400e82:    e8 b6 07 00 00         callq    40163d <explode_bomb>
400e87:    48 83 c4 08            add      $0x8,%rsp
400e8b:    c3                     retq

0000000000400e8c <phase_2>:
400e8c:    48 89 5c 24 e0         mov      %rbx,-0x20(%rsp)
400e91:    48 89 6c 24 e8         mov      %rbp,-0x18(%rsp)
400e96:    4c 89 64 24 f0         mov      %r12,-0x10(%rsp)
400e9b:    4c 89 6c 24 f8         mov      %r13,-0x8(%rsp)
400ea0:    48 83 ec 48            sub      $0x48,%rsp
400ea4:    48 89 e6               mov      %rsp,%rsi
400ea7:    e8 97 08 00 00         callq    401743 <read_six_numbers>
400eac:    48 89 e5               mov      %rsp,%rbp
```

```
400eaf:    4c 8d 6c 24 0c          lea     0xc(%rsp),%r13
400eb4:    41 bc 00 00 00 00       mov     $0x0,%r12d
400eba:    48 89 eb                mov     %rbp,%rbx
400ebd:    8b 45 0c                mov     0xc(%rbp),%eax
400ec0:    39 45 00                cmp     %eax,0x0(%rbp)
400ec3:    74 05                   je      400eca <phase_2+0x3e>
400ec5:    e8 73 07 00 00          callq   40163d <explode_bomb>
400eca:    44 03 23                add     (%rbx),%r12d
400ecd:    48 83 c5 04             add     $0x4,%rbp
400ed1:    4c 39 ed                cmp     %r13,%rbp
400ed4:    75 e4                   jne     400eba <phase_2+0x2e>
400ed6:    45 85 e4                test    %r12d,%r12d
400ed9:    75 05                   jne     400ee0 <phase_2+0x54>
400edb:    e8 5d 07 00 00          callq   40163d <explode_bomb>
400ee0:    48 8b 5c 24 28          mov     0x28(%rsp),%rbx
400ee5:    48 8b 6c 24 30          mov     0x30(%rsp),%rbp
400eea:    4c 8b 64 24 38          mov     0x38(%rsp),%r12
400eef:    4c 8b 6c 24 40          mov     0x40(%rsp),%r13
400ef4:    48 83 c4 48             add     $0x48,%rsp
400ef8:    c3                      retq

0000000000400ef9 <phase_3>:
400ef9:    48 83 ec 18             sub     $0x18,%rsp
400efd:    48 8d 4c 24 08          lea     0x8(%rsp),%rcx
400f02:    48 8d 54 24 0c          lea     0xc(%rsp),%rdx
400f07:    be be 1e 40 00          mov     $0x401ebe,%esi
400f0c:    b8 00 00 00 00          mov     $0x0,%eax
400f11:    e8 9a fb ff ff          callq   400ab0 <__isoc99_sscanf@plt>
400f16:    83 f8 01                cmp     $0x1,%eax
400f19:    7f 05                   jg      400f20 <phase_3+0x27>
400f1b:    e8 1d 07 00 00          callq   40163d <explode_bomb>
400f20:    83 7c 24 0c 07          cmpl    $0x7,0xc(%rsp)
400f25:    77 3c                   ja      400f63 <phase_3+0x6a>
400f27:    8b 44 24 0c             mov     0xc(%rsp),%eax
400f2b:    ff 24 c5 60 1b 40 00    jmpq    *0x401b60(,%rax,8)
400f32:    b8 17 02 00 00          mov     $0x217,%eax
400f37:    eb 3b                   jmp     400f74 <phase_3+0x7b>
400f39:    b8 d6 00 00 00          mov     $0xd6,%eax
400f3e:    eb 34                   jmp     400f74 <phase_3+0x7b>
400f40:    b8 53 01 00 00          mov     $0x153,%eax
400f45:    eb 2d                   jmp     400f74 <phase_3+0x7b>
400f47:    b8 77 00 00 00          mov     $0x77,%eax
400f4c:    eb 26                   jmp     400f74 <phase_3+0x7b>
400f4e:    b8 60 01 00 00          mov     $0x160,%eax
```

```
400f53:    eb 1f                    jmp    400f74 <phase_3+0x7b>
400f55:    b8 97 03 00 00           mov    $0x397,%eax
400f5a:    eb 18                    jmp    400f74 <phase_3+0x7b>
400f5c:    b8 9c 01 00 00           mov    $0x19c,%eax
400f61:    eb 11                    jmp    400f74 <phase_3+0x7b>
400f63:    e8 d5 06 00 00           callq  40163d <explode_bomb>
400f68:    b8 00 00 00 00           mov    $0x0,%eax
400f6d:    eb 05                    jmp    400f74 <phase_3+0x7b>
400f6f:    b8 9e 03 00 00           mov    $0x39e,%eax
400f74:    3b 44 24 08              cmp    0x8(%rsp),%eax
400f78:    74 05                    je     400f7f <phase_3+0x86>
400f7a:    e8 be 06 00 00           callq  40163d <explode_bomb>
400f7f:    48 83 c4 18              add    $0x18,%rsp
400f83:    c3                       retq

0000000000400f84 <func4>:
400f84:    48 89 5c 24 f0           mov    %rbx,-0x10(%rsp)
400f89:    48 89 6c 24 f8           mov    %rbp,-0x8(%rsp)
400f8e:    48 83 ec 18              sub    $0x18,%rsp
400f92:    89 fb                    mov    %edi,%ebx
400f94:    b8 01 00 00 00           mov    $0x1,%eax
400f99:    83 ff 01                 cmp    $0x1,%edi
400f9c:    7e 14                    jle    400fb2 <func4+0x2e>
400f9e:    8d 7b ff                 lea    -0x1(%rbx),%edi
400fa1:    e8 de ff ff ff           callq  400f84 <func4>
400fa6:    89 c5                    mov    %eax,%ebp
400fa8:    8d 7b fe                 lea    -0x2(%rbx),%edi
400fab:    e8 d4 ff ff ff           callq  400f84 <func4>
400fb0:    01 e8                    add    %ebp,%eax
400fb2:    48 8b 5c 24 08           mov    0x8(%rsp),%rbx
400fb7:    48 8b 6c 24 10           mov    0x10(%rsp),%rbp
400fbc:    48 83 c4 18              add    $0x18,%rsp
400fc0:    c3                       retq

0000000000400fc1 <phase_4>:
400fc1:    48 83 ec 18              sub    $0x18,%rsp
400fc5:    48 8d 54 24 0c           lea    0xc(%rsp),%rdx
400fca:    be c1 1e 40 00           mov    $0x401ec1,%esi
400fcf:    b8 00 00 00 00           mov    $0x0,%eax
400fd4:    e8 d7 fa ff ff           callq  400ab0 <__isoc99_sscanf@plt>
400fd9:    83 f8 01                 cmp    $0x1,%eax
400fdc:    75 07                    jne    400fe5 <phase_4+0x24>
400fde:    83 7c 24 0c 00           cmpl   $0x0,0xc(%rsp)
400fe3:    7f 05                    jg     400fea <phase_4+0x29>
```

```
400fe5:    e8 53 06 00 00            callq   40163d <explode_bomb>
400fea:    8b 7c 24 0c               mov     0xc(%rsp),%edi
400fee:    e8 91 ff ff ff            callq   400f84 <func4>
400ff3: 83 f8 37                     cmp     $0x37,%eax
400ff6: 74 05                        je      400ffd <phase_4+0x3c>
400ff8: e8 40 06 00 00               callq   40163d <explode_bomb>
400ffd: 48 83 c4 18                  add     $0x18,%rsp
401001:    c3                        retq


0000000000401002 <phase_5>:
401002:    48 83 ec 18               sub     $0x18,%rsp
401006:    48 8d 4c 24 08            lea     0x8(%rsp),%rcx
40100b:    48 8d 54 24 0c            lea     0xc(%rsp),%rdx
401010:    be be 1e 40 00            mov     $0x401ebe,%esi
401015:    b8 00 00 00 00            mov     $0x0,%eax
40101a:    e8 91 fa ff ff            callq   400ab0 <__isoc99_sscanf@plt>
40101f:    83 f8 01                  cmp     $0x1,%eax
401022:    7f 05                     jg      401029 <phase_5+0x27>
401024:    e8 14 06 00 00            callq   40163d <explode_bomb>
401029:    8b 44 24 0c               mov     0xc(%rsp),%eax
40102d:    83 e0 0f                  and     $0xf,%eax
401030:    89 44 24 0c               mov     %eax,0xc(%rsp)
401034:    83 f8 0f                  cmp     $0xf,%eax
401037:    74 2c                     je      401065 <phase_5+0x63>
401039:    b9 00 00 00 00            mov     $0x0,%ecx
40103e:    ba 00 00 00 00            mov     $0x0,%edx
401043:    83 c2 01                  add     $0x1,%edx
401046:    48 98                     cltq
401048:    8b 04 85 a0 1b 40 00      mov     0x401ba0(,%rax,4),%eax
40104f:    01 c1                     add     %eax,%ecx
401051:    83 f8 0f                  cmp     $0xf,%eax
401054:    75 ed                     jne     401043 <phase_5+0x41>
401056:    89 44 24 0c               mov     %eax,0xc(%rsp)
40105a:    83 fa 0c                  cmp     $0xc,%edx
40105d:    75 06                     jne     401065 <phase_5+0x63>
40105f:    3b 4c 24 08               cmp     0x8(%rsp),%ecx
401063:    74 05                     je      40106a <phase_5+0x68>
401065:    e8 d3 05 00 00            callq   40163d <explode_bomb>
40106a:    48 83 c4 18               add     $0x18,%rsp
40106e:    c3                        retq


000000000040106f <fun6>:
40106f:    4c 8b 47 08               mov     0x8(%rdi),%r8
401073:    48 c7 47 08 00 00 00 00   movq    $0x0,0x8(%rdi)
```

```
  40107a:    00
  40107b:    48 89 f8                mov     %rdi,%rax
  40107e:    48 89 f9                mov     %rdi,%rcx
  401081:    4d 85 c0                test    %r8,%r8
  401084:    75 40                   jne     4010c6 <fun6+0x57>
  401086:    48 89 f8                mov     %rdi,%rax
  401089:    c3                      retq
  40108a:    48 89 d1                mov     %rdx,%rcx
  40108d:    48 8b 51 08             mov     0x8(%rcx),%rdx
  401091:    48 85 d2                test    %rdx,%rdx
  401094:    74 09                   je      40109f <fun6+0x30>
  401096:    39 32                   cmp     %esi,(%rdx)
  401098:    7f f0                   jg      40108a <fun6+0x1b>
  40109a:    48 89 cf                mov     %rcx,%rdi
  40109d:    eb 03                   jmp     4010a2 <fun6+0x33>
  40109f:    48 89 cf                mov     %rcx,%rdi
  4010a2:    48 39 d7                cmp     %rdx,%rdi
  4010a5:    74 06                   je      4010ad <fun6+0x3e>
  4010a7:    4c 89 47 08             mov     %r8,0x8(%rdi)
  4010ab:    eb 03                   jmp     4010b0 <fun6+0x41>
  4010ad:    4c 89 c0                mov     %r8,%rax
  4010b0:    49 8b 48 08             mov     0x8(%r8),%rcx
  4010b4:    49 89 50 08             mov     %rdx,0x8(%r8)
  4010b8:    48 85 c9                test    %rcx,%rcx
  4010bb:    74 1a                   je      4010d7 <fun6+0x68>
  4010bd:    49 89 c8                mov     %rcx,%r8
  4010c0:    48 89 c1                mov     %rax,%rcx
  4010c3:    48 89 c7                mov     %rax,%rdi
  4010c6:    48 89 ca                mov     %rcx,%rdx
  4010c9:    48 85 c9                test    %rcx,%rcx
  4010cc:    74 d4                   je      4010a2 <fun6+0x33>
  4010ce:    41 8b 30                mov     (%r8),%esi
  4010d1:    39 31                   cmp     %esi,(%rcx)
  4010d3:    7f b8                   jg      40108d <fun6+0x1e>
  4010d5:    eb cb                   jmp     4010a2 <fun6+0x33>
  4010d7:    f3 c3                   repz retq
```

```
00000000004010d9 <phase_6>:
  4010d9:    48 83 ec 08             sub     $0x8,%rsp
  4010dd:    ba 0a 00 00 00          mov     $0xa,%edx
  4010e2:    be 00 00 00 00          mov     $0x0,%esi
  4010e7:    e8 94 fa ff ff          callq   400b80 <strtol@plt>
  4010ec:    89 05 8e 16 20 00       mov     %eax,0x20168e(%rip)        #   602780
<node0>
```

```
4010f2:    bf 80 27 60 00          mov     $0x602780,%edi
4010f7:    e8 73 ff ff ff          callq   40106f <fun6>
4010fc:    48 8b 40 08             mov     0x8(%rax),%rax
401100:    48 8b 40 08             mov     0x8(%rax),%rax
401104:    48 8b 40 08             mov     0x8(%rax),%rax
401108:    8b 15 72 16 20 00       mov     0x201672(%rip),%edx        #   602780
<node0>
40110e:    39 10                   cmp     %edx,(%rax)
401110:    74 05                   je      401117 <phase_6+0x3e>
401112:    e8 26 05 00 00          callq   40163d <explode_bomb>
401117:    48 83 c4 08             add     $0x8,%rsp
40111b:    c3                      retq


000000000040111c <fun7>:
40111c:    48 83 ec 08             sub     $0x8,%rsp
401120:    48 85 ff                test    %rdi,%rdi
401123:    74 2b                   je      401150 <fun7+0x34>
401125:    8b 17                   mov     (%rdi),%edx
401127:    39 f2                   cmp     %esi,%edx
401129:    7e 0d                   jle     401138 <fun7+0x1c>
40112b:    48 8b 7f 08             mov     0x8(%rdi),%rdi
40112f:    e8 e8 ff ff ff          callq   40111c <fun7>
401134:    01 c0                   add     %eax,%eax
401136:    eb 1d                   jmp     401155 <fun7+0x39>
401138:    b8 00 00 00 00          mov     $0x0,%eax
40113d:    39 f2                   cmp     %esi,%edx
40113f:    74 14                   je      401155 <fun7+0x39>
401141:    48 8b 7f 10             mov     0x10(%rdi),%rdi
401145:    e8 d2 ff ff ff          callq   40111c <fun7>
40114a:    8d 44 00 01             lea     0x1(%rax,%rax,1),%eax
40114e:    eb 05                   jmp     401155 <fun7+0x39>
401150:    b8 ff ff ff ff          mov     $0xffffffff,%eax
401155:    48 83 c4 08             add     $0x8,%rsp
401159:    c3                      retq


000000000040115a <secret_phase>:
40115a:    53                      push    %rbx
40115b:    e8 ff 04 00 00          callq   40165f <read_line>
401160:    ba 0a 00 00 00          mov     $0xa,%edx
401165:    be 00 00 00 00          mov     $0x0,%esi
40116a:    48 89 c7                mov     %rax,%rdi
40116d:    e8 0e fa ff ff          callq   400b80 <strtol@plt>
401172:    89 c3                   mov     %eax,%ebx
401174:    8d 43 ff                lea     -0x1(%rbx),%eax
```

```
401177:     3d e8 03 00 00          cmp     $0x3e8,%eax
40117c:     76 05                   jbe     401183 <secret_phase+0x29>
40117e:     e8 ba 04 00 00          callq   40163d <explode_bomb>
401183:     89 de                   mov     %ebx,%esi
401185:     bf a0 25 60 00          mov     $0x6025a0,%edi
40118a:     e8 8d ff ff ff          callq   40111c <fun7>
40118f:     83 f8 03                cmp     $0x3,%eax
401192:     74 05                   je      401199 <secret_phase+0x3f>
401194:     e8 a4 04 00 00          callq   40163d <explode_bomb>
401199:     bf 28 1b 40 00          mov     $0x401b28,%edi
40119e:     e8 fd f8 ff ff          callq   400aa0 <puts@plt>
4011a3:     e8 dd 05 00 00          callq   401785 <phase_defused>
4011a8:     5b                      pop     %rbx
4011a9:     c3                      retq
4011aa:     90                      nop
4011ab:     90                      nop
4011ac:     90                      nop
4011ad:     90                      nop
4011ae:     90                      nop
4011af:     90                      nop

00000000004011b0 <sig_handler>:
4011b0:     48 83 ec 08             sub     $0x8,%rsp
4011b4:     bf e0 1b 40 00          mov     $0x401be0,%edi
4011b9:     e8 e2 f8 ff ff          callq   400aa0 <puts@plt>
4011be:     bf 03 00 00 00          mov     $0x3,%edi
4011c3:     e8 98 f9 ff ff          callq   400b60 <sleep@plt>
4011c8:     bf d8 1c 40 00          mov     $0x401cd8,%edi
4011cd:     b8 00 00 00 00          mov     $0x0,%eax
4011d2:     e8 99 f8 ff ff          callq   400a70 <printf@plt>
4011d7:     48 8b 3d 72 1a 20 00    mov     0x201a72(%rip),%rdi         #  602c50
<stdout@@GLIBC_2.2.5>
4011de:     e8 4d fa ff ff          callq   400c30 <fflush@plt>
4011e3:     bf 01 00 00 00          mov     $0x1,%edi
4011e8:     e8 73 f9 ff ff          callq   400b60 <sleep@plt>
4011ed:     bf e0 1c 40 00          mov     $0x401ce0,%edi
4011f2:     e8 a9 f8 ff ff          callq   400aa0 <puts@plt>
4011f7:     bf 10 00 00 00          mov     $0x10,%edi
4011fc:     e8 bf f8 ff ff          callq   400ac0 <exit@plt>

0000000000401201 <invalid_phase>:
401201:     48 83 ec 08             sub     $0x8,%rsp
401205:     48 89 fe                mov     %rdi,%rsi
401208:     bf e8 1c 40 00          mov     $0x401ce8,%edi
```

```
40120d:    b8 00 00 00 00         mov     $0x0,%eax
401212:    e8 59 f8 ff ff         callq   400a70 <printf@plt>
401217:    bf 08 00 00 00         mov     $0x8,%edi
40121c:    e8 9f f8 ff ff         callq   400ac0 <exit@plt>


0000000000401221 <string_length>:
401221:    b8 00 00 00 00         mov     $0x0,%eax
401226:    80 3f 00               cmpb    $0x0,(%rdi)
401229:    74 10                  je      40123b <string_length+0x1a>
40122b:    48 89 fa               mov     %rdi,%rdx
40122e:    48 83 c2 01            add     $0x1,%rdx
401232:    89 d0                  mov     %edx,%eax
401234:    29 f8                  sub     %edi,%eax
401236:    80 3a 00               cmpb    $0x0,(%rdx)
401239:    75 f3                  jne     40122e <string_length+0xd>
40123b:    f3 c3                  repz retq


000000000040123d <strings_not_equal>:
40123d:    48 89 5c 24 e8         mov     %rbx,-0x18(%rsp)
401242:    48 89 6c 24 f0         mov     %rbp,-0x10(%rsp)
401247:    4c 89 64 24 f8         mov     %r12,-0x8(%rsp)
40124c:    48 83 ec 18            sub     $0x18,%rsp
401250:    48 89 fb               mov     %rdi,%rbx
401253:    48 89 f5               mov     %rsi,%rbp
401256:    e8 c6 ff ff ff         callq   401221 <string_length>
40125b:    41 89 c4               mov     %eax,%r12d
40125e:    48 89 ef               mov     %rbp,%rdi
401261:    e8 bb ff ff ff         callq   401221 <string_length>
401266:    ba 01 00 00 00         mov     $0x1,%edx
40126b:    41 39 c4               cmp     %eax,%r12d
40126e:    75 36                  jne     4012a6 <strings_not_equal+0x69>
401270:    0f b6 03               movzbl (%rbx),%eax
401273:    b2 00                  mov     $0x0,%dl
401275:    84 c0                  test    %al,%al
401277:    74 2d                  je      4012a6 <strings_not_equal+0x69>
401279:    b2 01                  mov     $0x1,%dl
40127b:    3a 45 00               cmp     0x0(%rbp),%al
40127e:    75 26                  jne     4012a6 <strings_not_equal+0x69>
401280:    b8 00 00 00 00         mov     $0x0,%eax
401285:    eb 0a                  jmp     401291 <strings_not_equal+0x54>
401287:    48 83 c0 01            add     $0x1,%rax
40128b:    3a 54 05 00            cmp     0x0(%rbp,%rax,1),%dl
40128f:    75 10                  jne     4012a1 <strings_not_equal+0x64>
401291:    0f b6 54 03 01         movzbl 0x1(%rbx,%rax,1),%edx
```

```
401296:     84 d2                       test    %dl,%dl
401298:     75 ed                       jne     401287 <strings_not_equal+0x4a>
40129a:     ba 00 00 00 00       mov     $0x0,%edx
40129f:     eb 05                       jmp     4012a6 <strings_not_equal+0x69>
4012a1:     ba 01 00 00 00       mov     $0x1,%edx
4012a6:     89 d0                       mov     %edx,%eax
4012a8:     48 8b 1c 24           mov     (%rsp),%rbx
4012ac:     48 8b 6c 24 08       mov     0x8(%rsp),%rbp
4012b1:     4c 8b 64 24 10       mov     0x10(%rsp),%r12
4012b6:     48 83 c4 18           add     $0x18,%rsp
4012ba:     c3                           retq

00000000004012bb <open_clientfd>:
4012bb:     48 89 5c 24 e8       mov     %rbx,-0x18(%rsp)
4012c0:     48 89 6c 24 f0       mov     %rbp,-0x10(%rsp)
4012c5:     4c 89 64 24 f8       mov     %r12,-0x8(%rsp)
4012ca:     48 83 ec 28           sub     $0x28,%rsp
4012ce:     48 89 fd               mov     %rdi,%rbp
4012d1:     41 89 f4               mov     %esi,%r12d
4012d4:     ba 00 00 00 00       mov     $0x0,%edx
4012d9:     be 01 00 00 00       mov     $0x1,%esi
4012de:     bf 02 00 00 00       mov     $0x2,%edi
4012e3:     e8 d8 f8 ff ff         callq   400bc0 <socket@plt>
4012e8:     89 c3                       mov     %eax,%ebx
4012ea:     85 c0                       test    %eax,%eax
4012ec:     79 14                       jns     401302 <open_clientfd+0x47>
4012ee:     bf f9 1c 40 00         mov     $0x401cf9,%edi
4012f3:     e8 a8 f7 ff ff         callq   400aa0 <puts@plt>
4012f8:     bf 08 00 00 00       mov     $0x8,%edi
4012fd:     e8 be f7 ff ff         callq   400ac0 <exit@plt>
401302:     48 89 ef               mov     %rbp,%rdi
401305:     e8 86 f7 ff ff         callq   400a90 <gethostbyname@plt>
40130a:     48 85 c0               test    %rax,%rax
40130d:     75 14                       jne     401323 <open_clientfd+0x68>
40130f:     bf 07 1d 40 00         mov     $0x401d07,%edi
401314:     e8 87 f7 ff ff         callq   400aa0 <puts@plt>
401319:     bf 08 00 00 00       mov     $0x8,%edi
40131e:     e8 9d f7 ff ff         callq   400ac0 <exit@plt>
401323:     48 c7 04 24 00 00 00   movq    $0x0,(%rsp)
40132a:     00
40132b:     48 c7 44 24 08 00 00   movq    $0x0,0x8(%rsp)
401332:     00 00
401334:     66 c7 04 24 02 00     movw    $0x2,(%rsp)
40133a:     48 63 50 14           movslq 0x14(%rax),%rdx
```

```
40133e:     48 8d 74 24 04          lea      0x4(%rsp),%rsi
401343:     48 8b 40 18             mov      0x18(%rax),%rax
401347:     48 8b 38                mov      (%rax),%rdi
40134a:     e8 e1 f7 ff ff          callq    400b30 <bcopy@plt>
40134f:     66 41 c1 cc 08          ror      $0x8,%r12w
401354:     66 44 89 64 24 02       mov      %r12w,0x2(%rsp)
40135a:     ba 10 00 00 00          mov      $0x10,%edx
40135f:     48 89 e6                mov      %rsp,%rsi
401362:     89 df                   mov      %ebx,%edi
401364:     e8 27 f8 ff ff          callq    400b90 <connect@plt>
401369:     85 c0                   test     %eax,%eax
40136b:     79 14                   jns      401381 <open_clientfd+0xc6>
40136d:     bf 15 1d 40 00          mov      $0x401d15,%edi
401372:     e8 29 f7 ff ff          callq    400aa0 <puts@plt>
401377:     bf 08 00 00 00          mov      $0x8,%edi
40137c:     e8 3f f7 ff ff          callq    400ac0 <exit@plt>
401381:     89 d8                   mov      %ebx,%eax
401383:     48 8b 5c 24 10          mov      0x10(%rsp),%rbx
401388:     48 8b 6c 24 18          mov      0x18(%rsp),%rbp
40138d:     4c 8b 64 24 20          mov      0x20(%rsp),%r12
401392:     48 83 c4 28             add      $0x28,%rsp
401396:     c3                      retq
```

0000000000401397 <initialize_bomb>:
```
401397:     48 83 ec 08             sub      $0x8,%rsp
40139b:     be b0 11 40 00          mov      $0x4011b0,%esi
4013a0:     bf 02 00 00 00          mov      $0x2,%edi
4013a5:     e8 06 f8 ff ff          callq    400bb0 <signal@plt>
4013aa:     48 83 c4 08             add      $0x8,%rsp
4013ae:     c3                      retq
```

00000000004013af <blank_line>:
```
4013af:     55                      push     %rbp
4013b0:     53                      push     %rbx
4013b1:     48 83 ec 08             sub      $0x8,%rsp
4013b5:     48 89 fd                mov      %rdi,%rbp
4013b8:     eb 17                   jmp      4013d1 <blank_line+0x22>
4013ba:     e8 81 f7 ff ff          callq    400b40 <__ctype_b_loc@plt>
4013bf:     48 83 c5 01             add      $0x1,%rbp
4013c3:     48 0f be db             movsbq   %bl,%rbx
4013c7:     48 8b 00                mov      (%rax),%rax
4013ca:     f6 44 58 01 20          testb    $0x20,0x1(%rax,%rbx,2)
4013cf:     74 0f                   je       4013e0 <blank_line+0x31>
4013d1:     0f b6 5d 00             movzbl   0x0(%rbp),%ebx
```

```
4013d5:    84 db                    test    %bl,%bl
4013d7:    75 e1                    jne     4013ba <blank_line+0xb>
4013d9:    b8 01 00 00 00       mov     $0x1,%eax
4013de:    eb 05                    jmp     4013e5 <blank_line+0x36>
4013e0:    b8 00 00 00 00       mov     $0x0,%eax
4013e5:    48 83 c4 08          add     $0x8,%rsp
4013e9:    5b                       pop     %rbx
4013ea:    5d                       pop     %rbp
4013eb:    c3                       retq

00000000004013ec <skip>:
4013ec:    53                       push    %rbx
4013ed:    48 63 05 8c 18 20 00    movslq  0x20188c(%rip),%rax              #   602c80
<num_input_strings>
4013f4:    48 8d 3c 80          lea     (%rax,%rax,4),%rdi
4013f8:    48 c1 e7 04          shl     $0x4,%rdi
4013fc:    48 81 c7 40 2f 60 00    add     $0x602f40,%rdi
401403:    48 8b 15 16 1b 20 00    mov     0x201b16(%rip),%rdx         # 602f20 <infile>
40140a:    be 50 00 00 00       mov     $0x50,%esi
40140f:    e8 fc f6 ff ff       callq   400b10 <fgets@plt>
401414:    48 89 c3             mov     %rax,%rbx
401417:    48 85 c0             test    %rax,%rax
40141a:    74 0c                    je      401428 <skip+0x3c>
40141c:    48 89 c7             mov     %rax,%rdi
40141f:    e8 8b ff ff ff       callq   4013af <blank_line>
401424:    85 c0                    test    %eax,%eax
401426:    75 c5                    jne     4013ed <skip+0x1>
401428:    48 89 d8             mov     %rbx,%rax
40142b:    5b                       pop     %rbx
40142c:    c3                       retq

000000000040142d <send_msg>:
40142d:    41 54                    push    %r12
40142f:    55                       push    %rbp
401430:    53                       push    %rbx
401431:    48 83 ec 60          sub     $0x60,%rsp
401435:    89 fb                    mov     %edi,%ebx
401437:    bf 00 00 00 00       mov     $0x0,%edi
40143c:    e8 af f6 ff ff       callq   400af0 <dup@plt>
401441:    41 89 c4             mov     %eax,%r12d
401444:    83 f8 ff                 cmp     $0xffffffff,%eax
401447:    75 14                    jne     40145d <send_msg+0x30>
401449:    bf 34 1d 40 00       mov     $0x401d34,%edi
40144e:    e8 4d f6 ff ff       callq   400aa0 <puts@plt>
```

```
401453:    bf 08 00 00 00        mov     $0x8,%edi
401458:    e8 63 f6 ff ff        callq   400ac0 <exit@plt>
40145d:    bf 00 00 00 00        mov     $0x0,%edi
401462:    e8 19 f6 ff ff        callq   400a80 <close@plt>
401467:    83 f8 ff              cmp     $0xffffffff,%eax
40146a:    75 14                 jne     401480 <send_msg+0x53>
40146c:    bf 48 1d 40 00        mov     $0x401d48,%edi
401471:    e8 2a f6 ff ff        callq   400aa0 <puts@plt>
401476:    bf 08 00 00 00        mov     $0x8,%edi
40147b:    e8 40 f6 ff ff        callq   400ac0 <exit@plt>
401480:    e8 1b f7 ff ff        callq   400ba0 <tmpfile@plt>
401485:    48 89 c5              mov     %rax,%rbp
401488:    48 85 c0              test    %rax,%rax
40148b:    75 14                 jne     4014a1 <send_msg+0x74>
40148d:    bf 5b 1d 40 00        mov     $0x401d5b,%edi
401492:    e8 09 f6 ff ff        callq   400aa0 <puts@plt>
401497:    bf 08 00 00 00        mov     $0x8,%edi
40149c:    e8 1f f6 ff ff        callq   400ac0 <exit@plt>
4014a1:    48 89 c1              mov     %rax,%rcx
4014a4:    ba 1b 00 00 00        mov     $0x1b,%edx
4014a9:    be 01 00 00 00        mov     $0x1,%esi
4014ae:    bf 70 1d 40 00        mov     $0x401d70,%edi
4014b3:    e8 58 f7 ff ff        callq   400c10 <fwrite@plt>
4014b8:    48 89 ee              mov     %rbp,%rsi
4014bb:    bf 0a 00 00 00        mov     $0xa,%edi
4014c0:    e8 5b f6 ff ff        callq   400b20 <fputc@plt>
4014c5:    bf 00 00 00 00        mov     $0x0,%edi
4014ca:    e8 11 f7 ff ff        callq   400be0 <cuserid@plt>
4014cf:    48 85 c0              test    %rax,%rax
4014d2:    75 16                 jne     4014ea <send_msg+0xbd>
4014d4:    c7 44 24 10 6e 6f 62  movl    $0x6f626f6e,0x10(%rsp)
4014db:    6f
4014dc:    66 c7 44 24 14 64 79  movw    $0x7964,0x14(%rsp)
4014e3:    c6 44 24 16 00        movb    $0x0,0x16(%rsp)
4014e8:    eb 0d                 jmp     4014f7 <send_msg+0xca>
4014ea:    48 89 c6              mov     %rax,%rsi
4014ed:    48 8d 7c 24 10        lea     0x10(%rsp),%rdi
4014f2:    e8 f9 f6 ff ff        callq   400bf0 <strcpy@plt>
4014f7:    85 db                 test    %ebx,%ebx
4014f9:    b8 23 1d 40 00        mov     $0x401d23,%eax
4014fe:    41 b9 2b 1d 40 00     mov     $0x401d2b,%r9d
401504:    4c 0f 45 c8           cmovne  %rax,%r9
401508:    8b 05 72 17 20 00     mov     0x201772(%rip),%eax          #   602c80
<num_input_strings>
```

```
  40150e:    89 04 24            mov     %eax,(%rsp)
  401511:    4c 8d 44 24 10      lea     0x10(%rsp),%r8
  401516:    8b 0d 04 17 20 00   mov     0x201704(%rip),%ecx          #  602c20
<bomb_id>
  40151c:    ba 20 28 60 00      mov     $0x602820,%edx
  401521:    be 8c 1d 40 00      mov     $0x401d8c,%esi
  401526:    48 89 ef            mov     %rbp,%rdi
  401529:    b8 00 00 00 00      mov     $0x0,%eax
  40152e:    e8 ed f6 ff ff      callq   400c20 <fprintf@plt>
  401533:    83 3d 46 17 20 00 00 cmpl   $0x0,0x201746(%rip)          #  602c80
<num_input_strings>
  40153a:    7e 4a              jle      401586 <send_msg+0x159>
  40153c:    bb 00 00 00 00      mov     $0x0,%ebx
  401541:    48 63 c3           movslq %ebx,%rax
  401544:    48 8d 04 80        lea      (%rax,%rax,4),%rax
  401548:    48 c1 e0 04        shl      $0x4,%rax
  40154c:    48 05 40 2f 60 00  add      $0x602f40,%rax
  401552:    83 c3 01           add      $0x1,%ebx
  401555:    48 89 04 24        mov      %rax,(%rsp)
  401559:    41 89 d9              mov      %ebx,%r9d
  40155c:    4c 8d 44 24 10     lea      0x10(%rsp),%r8
  401561:    8b 0d b9 16 20 00   mov     0x2016b9(%rip),%ecx          #  602c20
<bomb_id>
  401567:    ba 20 28 60 00      mov     $0x602820,%edx
  40156c:    be a8 1d 40 00      mov     $0x401da8,%esi
  401571:    48 89 ef            mov     %rbp,%rdi
  401574:    b8 00 00 00 00      mov     $0x0,%eax
  401579:    e8 a2 f6 ff ff      callq   400c20 <fprintf@plt>
  40157e:    39 1d fc 16 20 00   cmp     %ebx,0x2016fc(%rip)          #  602c80
<num_input_strings>
  401584:    7f bb              jg       401541 <send_msg+0x114>
  401586:    48 89 ef            mov      %rbp,%rdi
  401589:    e8 e2 f5 ff ff      callq   400b70 <rewind@plt>
  40158e:    41 b8 18 1c 40 00   mov     $0x401c18,%r8d
  401594:    b9 c4 1d 40 00      mov     $0x401dc4,%ecx
  401599:    ba c9 1d 40 00      mov     $0x401dc9,%edx
  40159e:    be e0 1d 40 00      mov     $0x401de0,%esi
  4015a3:    bf 80 35 60 00      mov     $0x603580,%edi
  4015a8:    b8 00 00 00 00      mov     $0x0,%eax
  4015ad:    e8 9e f5 ff ff      callq   400b50 <sprintf@plt>
  4015b2:    bf 80 35 60 00      mov     $0x603580,%edi
  4015b7:    e8 44 f5 ff ff      callq   400b00 <system@plt>
  4015bc:    85 c0              test     %eax,%eax
  4015be:    74 14              je       4015d4 <send_msg+0x1a7>
```

```
4015c0:    bf e9 1d 40 00          mov     $0x401de9,%edi
4015c5:    e8 d6 f4 ff ff          callq   400aa0 <puts@plt>
4015ca:    bf 08 00 00 00          mov     $0x8,%edi
4015cf:    e8 ec f4 ff ff          callq   400ac0 <exit@plt>
4015d4:    48 89 ef                mov     %rbp,%rdi
4015d7:    e8 24 f6 ff ff          callq   400c00 <fclose@plt>
4015dc:    85 c0                   test    %eax,%eax
4015de:    74 14                   je      4015f4 <send_msg+0x1c7>
4015e0:    bf 03 1e 40 00          mov     $0x401e03,%edi
4015e5:    e8 b6 f4 ff ff          callq   400aa0 <puts@plt>
4015ea:    bf 08 00 00 00          mov     $0x8,%edi
4015ef:    e8 cc f4 ff ff          callq   400ac0 <exit@plt>
4015f4:    44 89 e7                mov     %r12d,%edi
4015f7:    e8 f4 f4 ff ff          callq   400af0 <dup@plt>
4015fc:    85 c0                   test    %eax,%eax
4015fe:    74 14                   je      401614 <send_msg+0x1e7>
401600:    bf 1c 1e 40 00          mov     $0x401e1c,%edi
401605:    e8 96 f4 ff ff          callq   400aa0 <puts@plt>
40160a:    bf 08 00 00 00          mov     $0x8,%edi
40160f:    e8 ac f4 ff ff          callq   400ac0 <exit@plt>
401614:    44 89 e7                mov     %r12d,%edi
401617:    e8 64 f4 ff ff          callq   400a80 <close@plt>
40161c:    85 c0                   test    %eax,%eax
40161e:    74 14                   je      401634 <send_msg+0x207>
401620:    bf 37 1e 40 00          mov     $0x401e37,%edi
401625:    e8 76 f4 ff ff          callq   400aa0 <puts@plt>
40162a:    bf 08 00 00 00          mov     $0x8,%edi
40162f:    e8 8c f4 ff ff          callq   400ac0 <exit@plt>
401634:    48 83 c4 60             add     $0x60,%rsp
401638:    5b                      pop     %rbx
401639:    5d                      pop     %rbp
40163a:    41 5c                   pop     %r12
40163c:    c3                      retq
```

```
000000000040163d <explode_bomb>:
40163d:    48 83 ec 08             sub     $0x8,%rsp
401641:    bf 4e 1e 40 00          mov     $0x401e4e,%edi
401646:    e8 55 f4 ff ff          callq   400aa0 <puts@plt>
40164b:    bf 57 1e 40 00          mov     $0x401e57,%edi
401650:    e8 4b f4 ff ff          callq   400aa0 <puts@plt>
401655:    bf 08 00 00 00          mov     $0x8,%edi
40165a:    e8 61 f4 ff ff          callq   400ac0 <exit@plt>
```

```
000000000040165f <read_line>:
```

```
  40165f:    48 83 ec 08             sub     $0x8,%rsp
  401663:    b8 00 00 00 00          mov     $0x0,%eax
  401668:    e8 7f fd ff ff          callq   4013ec <skip>
  40166d:    48 85 c0                test    %rax,%rax
  401670:    75 64                         jne      4016d6 <read_line+0x77>
  401672:    48 8b 05 c7 15 20 00    mov      0x2015c7(%rip),%rax          #  602c40
<stdin@@GLIBC_2.2.5>
  401679:    48 39 05 a0 18 20 00    cmp      %rax,0x2018a0(%rip)          # 602f20 <infile>
  401680:    75 0f                         jne      401691 <read_line+0x32>
  401682:    bf 6e 1e 40 00          mov     $0x401e6e,%edi
  401687:    e8 14 f4 ff ff          callq   400aa0 <puts@plt>
  40168c:    e8 ac ff ff ff          callq   40163d <explode_bomb>
  401691:    bf 8c 1e 40 00          mov     $0x401e8c,%edi
  401696:    e8 35 f5 ff ff          callq   400bd0 <getenv@plt>
  40169b:    48 85 c0                test    %rax,%rax
  40169e:    74 0a                        je       4016aa <read_line+0x4b>
  4016a0:    bf 00 00 00 00          mov     $0x0,%edi
  4016a5:    e8 16 f4 ff ff          callq   400ac0 <exit@plt>
  4016aa:    48 8b 05 8f 15 20 00    mov      0x20158f(%rip),%rax          #  602c40
<stdin@@GLIBC_2.2.5>
  4016b1:    48 89 05 68 18 20 00    mov      %rax,0x201868(%rip)          # 602f20 <infile>
  4016b8:    b8 00 00 00 00          mov     $0x0,%eax
  4016bd:    e8 2a fd ff ff          callq   4013ec <skip>
  4016c2:    48 85 c0                test    %rax,%rax
  4016c5:    75 0f                         jne      4016d6 <read_line+0x77>
  4016c7:    bf 6e 1e 40 00          mov     $0x401e6e,%edi
  4016cc:    e8 cf f3 ff ff          callq   400aa0 <puts@plt>
  4016d1:    e8 67 ff ff ff          callq   40163d <explode_bomb>
  4016d6:    8b 15 a4 15 20 00       mov      0x2015a4(%rip),%edx          #  602c80
<num_input_strings>
  4016dc:    48 63 c2                movslq %edx,%rax
  4016df:    48 8d 34 80             lea     (%rax,%rax,4),%rsi
  4016e3:    48 c1 e6 04             shl     $0x4,%rsi
  4016e7:    48 81 c6 40 2f 60 00    add     $0x602f40,%rsi
  4016ee:    48 89 f7                mov      %rsi,%rdi
  4016f1:    b8 00 00 00 00          mov     $0x0,%eax
  4016f6:    48 c7 c1 ff ff ff ff    mov     $0xffffffffffffffff,%rcx
  4016fd:    f2 ae                        repnz scas %es:(%rdi),%al
  4016ff: 48 f7 d1              not     %rcx
  401702:    83 e9 01                sub     $0x1,%ecx
  401705:    83 f9 4f                cmp     $0x4f,%ecx
  401708:    75 0f                        jne      401719 <read_line+0xba>
  40170a:    bf 97 1e 40 00          mov     $0x401e97,%edi
  40170f:    e8 8c f3 ff ff          callq   400aa0 <puts@plt>
```

```
401714:    e8 24 ff ff ff          callq   40163d <explode_bomb>
401719:    83 e9 01                sub     $0x1,%ecx
40171c:    48 63 c9                movslq %ecx,%rcx
40171f:    48 63 c2                movslq %edx,%rax
401722:    48 8d 04 80             lea     (%rax,%rax,4),%rax
401726:    48 c1 e0 04             shl     $0x4,%rax
40172a:    c6 84 01 40 2f 60 00    movb    $0x0,0x602f40(%rcx,%rax,1)
401731:    00
401732:    83 c2 01                add     $0x1,%edx
401735:    89 15 45 15 20 00       mov     %edx,0x201545(%rip)        #  602c80
<num_input_strings>
40173b:    48 89 f0                mov     %rsi,%rax
40173e:    48 83 c4 08             add     $0x8,%rsp
401742:    c3                              retq


0000000000401743 <read_six_numbers>:
401743:    48 83 ec 18             sub     $0x18,%rsp
401747:    48 89 f2                mov     %rsi,%rdx
40174a:    48 8d 4e 04             lea     0x4(%rsi),%rcx
40174e:    48 8d 46 14             lea     0x14(%rsi),%rax
401752:    48 89 44 24 08          mov     %rax,0x8(%rsp)
401757:    48 8d 46 10             lea     0x10(%rsi),%rax
40175b:    48 89 04 24             mov     %rax,(%rsp)
40175f:    4c 8d 4e 0c             lea     0xc(%rsi),%r9
401763:    4c 8d 46 08             lea     0x8(%rsi),%r8
401767:    be b2 1e 40 00          mov     $0x401eb2,%esi
40176c:    b8 00 00 00 00          mov     $0x0,%eax
401771:    e8 3a f3 ff ff          callq   400ab0 <__isoc99_sscanf@plt>
401776:    83 f8 05                cmp     $0x5,%eax
401779:    7f 05                           jg      401780 <read_six_numbers+0x3d>
40177b:    e8 bd fe ff ff          callq   40163d <explode_bomb>
401780:    48 83 c4 18             add     $0x18,%rsp
401784:    c3                              retq


0000000000401785 <phase_defused>:
401785:    48 83 ec 68             sub     $0x68,%rsp
401789:    83 3d f0 14 20 00 06    cmpl    $0x6,0x2014f0(%rip)        #  602c80
<num_input_strings>
401790:    75 5e                           jne     4017f0 <phase_defused+0x6b>
401792:    48 8d 4c 24 10          lea     0x10(%rsp),%rcx
401797:    48 8d 54 24 0c          lea     0xc(%rsp),%rdx
40179c:    be c4 1e 40 00          mov     $0x401ec4,%esi
4017a1:    bf 30 30 60 00          mov     $0x603030,%edi
4017a6:    b8 00 00 00 00          mov     $0x0,%eax
```

```
4017ab:    e8 00 f3 ff ff              callq   400ab0 <__isoc99_sscanf@plt>
4017b0:    83 f8 02                    cmp     $0x2,%eax
4017b3:    75 31                       jne     4017e6 <phase_defused+0x61>
4017b5:    be ca 1e 40 00              mov     $0x401eca,%esi
4017ba:    48 8d 7c 24 10              lea     0x10(%rsp),%rdi
4017bf:    e8 79 fa ff ff              callq   40123d <strings_not_equal>
4017c4:    85 c0                       test    %eax,%eax
4017c6:    75 1e                       jne     4017e6 <phase_defused+0x61>
4017c8:    bf 40 1c 40 00              mov     $0x401c40,%edi
4017cd:    e8 ce f2 ff ff              callq   400aa0 <puts@plt>
4017d2:    bf 68 1c 40 00              mov     $0x401c68,%edi
4017d7:    e8 c4 f2 ff ff              callq   400aa0 <puts@plt>
4017dc:    b8 00 00 00 00              mov     $0x0,%eax
4017e1:    e8 74 f9 ff ff              callq   40115a <secret_phase>
4017e6:    bf a0 1c 40 00              mov     $0x401ca0,%edi
4017eb:    e8 b0 f2 ff ff              callq   400aa0 <puts@plt>
4017f0:    48 83 c4 68                 add     $0x68,%rsp
4017f4:    c3                          retq
4017f5:    90                          nop
4017f6:    90                          nop
4017f7:    90                          nop
4017f8:    90                          nop
4017f9:    90                          nop
4017fa:    90                          nop
4017fb:    90                          nop
4017fc:    90                          nop
4017fd:    90                          nop
4017fe:    90                          nop
4017ff:90                              nop


0000000000401800 <__libc_csu_init>:
  401800:    48 89 6c 24 d8            mov     %rbp,-0x28(%rsp)
  401805:    4c 89 64 24 e0            mov     %r12,-0x20(%rsp)
  40180a:    48 8d 2d ab 0a 20 00      lea     0x200aab(%rip),%rbp      #  6022bc
<__init_array_end>
  401811:    4c 8d 25 a4 0a 20 00      lea     0x200aa4(%rip),%r12      #  6022bc
<__init_array_end>
  401818:    4c 89 6c 24 e8            mov     %r13,-0x18(%rsp)
  40181d:    4c 89 74 24 f0            mov     %r14,-0x10(%rsp)
  401822:    4c 89 7c 24 f8            mov     %r15,-0x8(%rsp)
  401827:    48 89 5c 24 d0            mov     %rbx,-0x30(%rsp)
  40182c:    48 83 ec 38               sub     $0x38,%rsp
  401830:    4c 29 e5                  sub     %r12,%rbp
  401833:    41 89 fd                  mov     %edi,%r13d
```

```
401836:    49 89 f6              mov     %rsi,%r14
401839:    48 c1 fd 03          sar     $0x3,%rbp
40183d:    49 89 d7              mov     %rdx,%r15
401840:    e8 03 f2 ff ff       callq   400a48 <_init>
401845:    48 85 ed             test    %rbp,%rbp
401848:    74 1c                je      401866 <__libc_csu_init+0x66>
40184a:    31 db                xor     %ebx,%ebx
40184c:    0f 1f 40 00          nopl    0x0(%rax)
401850:    4c 89 fa             mov     %r15,%rdx
401853:    4c 89 f6             mov     %r14,%rsi
401856:    44 89 ef             mov     %r13d,%edi
401859:    41 ff 14 dc          callq   *(%r12,%rbx,8)
40185d:    48 83 c3 01          add     $0x1,%rbx
401861:    48 39 eb             cmp     %rbp,%rbx
401864:    75 ea                jne     401850 <__libc_csu_init+0x50>
401866:    48 8b 5c 24 08       mov     0x8(%rsp),%rbx
40186b:    48 8b 6c 24 10       mov     0x10(%rsp),%rbp
401870:    4c 8b 64 24 18       mov     0x18(%rsp),%r12
401875:    4c 8b 6c 24 20       mov     0x20(%rsp),%r13
40187a:    4c 8b 74 24 28       mov     0x28(%rsp),%r14
40187f:    4c 8b 7c 24 30       mov     0x30(%rsp),%r15
401884:    48 83 c4 38          add     $0x38,%rsp
401888:    c3                   retq
401889:    0f 1f 80 00 00 00 00 nopl    0x0(%rax)


0000000000401890 <__libc_csu_fini>:
401890:    f3 c3                repz retq
401892:    90                   nop
401893:    90                   nop
401894:    90                   nop
401895:    90                   nop
401896:    90                   nop
401897:    90                   nop
401898:    90                   nop
401899:    90                   nop
40189a:    90                   nop
40189b:    90                   nop
40189c:    90                   nop
40189d:    90                   nop
40189e:    90                   nop
40189f:    90                   nop


00000000004018a0 <__do_global_ctors_aux>:
4018a0:    55                   push    %rbp
```

```
 4018a1:    48 89 e5              mov     %rsp,%rbp
 4018a4:    53                       push     %rbx
 4018a5:    48 83 ec 08           sub     $0x8,%rsp
 4018a9:    48 8b 05 10 0a 20 00  mov      0x200a10(%rip),%rax        #  6022c0
<__CTOR_LIST__>
 4018b0:    48 83 f8 ff           cmp      $0xffffffffffffffff,%rax
 4018b4:    74 19                    je      4018cf <__do_global_ctors_aux+0x2f>
 4018b6:    bb c0 22 60 00        mov     $0x6022c0,%ebx
 4018bb:    0f 1f 44 00 00        nopl    0x0(%rax,%rax,1)
 4018c0:    48 83 eb 08           sub     $0x8,%rbx
 4018c4:    ff d0                 callq   *%rax
 4018c6:    48 8b 03                mov      (%rbx),%rax
 4018c9:    48 83 f8 ff           cmp      $0xffffffffffffffff,%rax
 4018cd:    75 f1                    jne      4018c0 <__do_global_ctors_aux+0x20>
 4018cf:    48 83 c4 08           add     $0x8,%rsp
 4018d3:    5b                       pop      %rbx
 4018d4:    5d                       pop      %rbp
 4018d5:    c3                       retq
 4018d6:    90                       nop
 4018d7:    90                       nop

Disassembly of section .fini:

00000000004018d8 <_fini>:
 4018d8:    48 83 ec 08           sub     $0x8,%rsp
 4018dc:    e8 af f3 ff ff        callq   400c90 <__do_global_dtors_aux>
 4018e1:    48 83 c4 08           add     $0x8,%rsp
 4018e5:    c3                       retq
```