# Binary Bomb CSCI 2021 P3 Prob 2 Guide

Guide made 11-10-2021 by Alice Zhang

# Helpful Links

Phases 1-6 outlined + more info if you're into this stuff: <a href="http://zpalexander.com/binary-bomb-lab-phase-1/">http://zpalexander.com/binary-bomb-lab-phase-1/</a>

Another set of guides on bombs for phases 1-7 (7 is the secret phase): <a href="https://caminek.rocks/tag/#binary-bomb">https://caminek.rocks/tag/#binary-bomb</a>

## **Notes and Tips**

## My notes

Jump to the bookmarked sections to avoid scrolling through 75 painful pages of assembly. Yes, I did just copy my entire bomb into this file (no I don't recommend doing that).

My notes are formatted like so:

Abc = my comments

Abc = assembly commands I think are important

## General tips

Set a breakpoint at explode bomb **b explode\_bomb** 

Make sure to always put soemthing in for the next phase before testing input for the current phase. People have blown up bombs a ton of times because of this issues. Don't put extra spaces at the end of a line.

Pay attention to all the **cmp jl je jne etc** commands. Usually before you explode a bomb you'll have a comparison statement so the first thing I always do is just look out for those.

You don't have to understand what each command is doing but you do need to understand why your code is jumping from one place to another. Like know where your going but not necessarily why each step is taken and you'll be okay.

Take notes if you need to so you can keep track of general flow. Here's a useful command if you want to look at all the assembly

### objdump -d bomb > bombFileName

This dumps all the assmebly code of the bomb into a fille so you can have a ton of fun looking at it.

If all else fails, you can download another bomb. This doesn't always work so I'd do that as a last resort. But if you get super stuck don't keep grinding at it. Crying over a binary bomb will not help you become better at cs. Trust me. Just wait for help or download another bomb.

## Disclaimer

Everyone's bomb's are different but some phases like phase 1, 2, and 6 stay the same for everyone (or that's what I've heard). Work with other people. It's helpful.

b	Yeah I don't know why I have this either. Guess it's a vertical version of the bomb title. Hilarious
0	
m	
b	
:	
f	
i	
1	
е	
f	
0	
r	
m	
a	
t	
e	
1	
f	
6	
4	
-	
X	
8	
6	

### Disassembly of section .init:

## 0000000000003000 <\_init>:

	3000:	f3 Of 1e fa	endbr6	4	
	3004:	48 83 ec 08	sub	\$0x8,%rsp	
	3008:	48 8b 05 d9 4f 00 00	mov	0x4fd9(%rip),%rax	# 7fe8
<_	_gmon_start	=>			
	300f:	48 85 c0	test	%rax,%rax	
	3012:	74 02	je	3016 <_init+0x16>	
	3014:	ff d0	callq	*%rax	
	3016:	48 83 c4 08	add	\$0x8,%rsp	
	301a:	c3	retq		

### Disassembly of section .plt:

### 00000000000003020 <.plt>:

3020:	ff 35 c2 4e 00 00	pushq 0x4ec2(%rip)	# 7ee8
<_GLOBAL_OFFS	SET_TABLE_+0x8>		
3026:	f2 ff 25 c3 4e 00 00	bnd jmpq *0x4ec3(%rip)	# 7ef0
<_GLOBAL_OFFS	SET_TABLE_+0x10>		
302d:	Of 1f 00	nopl (%rax)	
3030:	f3 Of 1e fa	endbr64	
3034:	68 00 00 00 00	pushq \$0x0	
3039:	f2 e9 e1 ff ff ff	bnd jmpq 3020 <.plt>	
303f:	90	nop	
3040:	f3 Of 1e fa	endbr64	
3044:	68 01 00 00 00	pushq \$0x1	

3	049:	f2	е9	d1	ff	ff	ff	bnd jmpq 3020 <.plt>
31	04f:	90						nop
3	050:	f3	0f	1e	fa			endbr64
3	054:	68	02	00	00	00		pushq \$0x2
3	059:	f2	е9	с1	ff	ff	ff	bnd jmpq 3020 <.plt>
3	05f:	90						nop
3	060:	f3	0f	1e	fa			endbr64
3	064:	68	03	00	00	00		pushq \$0x3
3	069:	f2	е9	b1	ff	ff	ff	bnd jmpq 3020 <.plt>
3	06f:	90						nop
3	070:	f3	0f	1e	fa			endbr64
3	074:	68	04	00	00	00		pushq \$0x4
3	079:	f2	е9	a1	ff	ff	ff	bnd jmpq 3020 <.plt>
3	07f:	90						nop
3	080:	f3	0f	1e	fa			endbr64
3	084:	68	05	00	00	00		pushq \$0x5
3	089:	f2	е9	91	ff	ff	ff	bnd jmpq 3020 <.plt>
3	08f:	90						nop
3	090:	f3	0f	1e	fa			endbr64
3	094:	68	06	00	00	00		pushq \$0x6
3	099:	f2	е9	81	ff	ff	ff	bnd jmpq 3020 <.plt>
3	09f:	90						nop
3	0a0:	f3	0f	1e	fa			endbr64
3	0a4:	68	07	00	00	00		pushq \$0x7
3	0a9:	f2	е9	71	ff	ff	ff	bnd jmpq 3020 <.plt>
3	Oaf:	90						nop
3	0b0:	f3	0f	1e	fa			endbr64
3	0b4:	68	08	00	00	00		pushq \$0x8
3	0b9:	f2	е9	61	ff	ff	ff	bnd jmpq 3020 <.plt>
31	Obf:	90						nop
31	0c0:	f3	0f	1e	fa			endbr64
31	0c4:	68	09	00	00	00		pushq \$0x9

30c9:	f2 e9 51 ff ff ff	bnd jmpq 3020 <.plt>
30cf:	90	nop
30d0:	f3 Of le fa	endbr64
30d4:	68 0a 00 00 00	pushq \$0xa
30d9:	f2 e9 41 ff ff ff	bnd jmpq 3020 <.plt>
30df:	90	nop
30e0:	f3 Of le fa	endbr64
30e4:	68 0b 00 00 00	pushq \$0xb
30e9:	f2 e9 31 ff ff ff	bnd jmpq 3020 <.plt>
30ef:	90	nop
30f0:	f3 Of le fa	endbr64
30f4:	68 0c 00 00 00	pushq \$0xc
30f9:	f2 e9 21 ff ff ff	bnd jmpq 3020 <.plt>
30ff:	90	nop
3100:	f3 Of 1e fa	endbr64
3104:	68 0d 00 00 00	pushq \$0xd
3109:	f2 e9 11 ff ff ff	bnd jmpq 3020 <.plt>
310f:	90	nop
3110:	f3 Of 1e fa	endbr64
3114:	68 0e 00 00 00	pushq \$0xe
3119:	f2 e9 01 ff ff ff	bnd jmpq 3020 <.plt>
311f:	90	nop
3120:	f3 Of 1e fa	endbr64
3124:	68 Of 00 00 00	pushq \$0xf
3129:	f2 e9 f1 fe ff ff	bnd jmpq 3020 <.plt>
312f:	90	nop
3130:	f3 Of 1e fa	endbr64
3134:	68 10 00 00 00	pushq \$0x10
3139:	f2 e9 e1 fe ff ff	bnd jmpq 3020 <.plt>
313f:	90	nop
3140:	f3 Of 1e fa	endbr64
3144:	68 11 00 00 00	pushq \$0x11

3149:	f2 e9 d1 fe ff ff	bnd jmpq 3020 <.plt>
314f:	90	nop
3150:	f3 Of 1e fa	endbr64
3154:	68 12 00 00 00	pushq \$0x12
3159:	f2 e9 c1 fe ff ff	bnd jmpq 3020 <.plt>
315f:	90	nop
3160:	f3 Of le fa	endbr64
3164:	68 13 00 00 00	pushq \$0x13
3169:	f2 e9 b1 fe ff ff	bnd jmpq 3020 <.plt>
316f:	90	nop
3170:	f3 Of le fa	endbr64
3174:	68 14 00 00 00	pushq \$0x14
3179:	f2 e9 a1 fe ff ff	bnd jmpq 3020 <.plt>
317f:	90	nop
3180:	f3 Of le fa	endbr64
3184:	68 15 00 00 00	pushq \$0x15
3189:	f2 e9 91 fe ff ff	bnd jmpq 3020 <.plt>
318f:	90	nop
3190:	f3 Of 1e fa	endbr64
3194:	68 16 00 00 00	pushq \$0x16
3199:	f2 e9 81 fe ff ff	bnd jmpq 3020 <.plt>
319f:	90	nop
31a0:	f3 Of 1e fa	endbr64
31a4:	68 17 00 00 00	pushq \$0x17
31a9:	f2 e9 71 fe ff ff	bnd jmpq 3020 <.plt>
31af:	90	nop
31b0:	f3 Of 1e fa	endbr64
31b4:	68 18 00 00 00	pushq \$0x18
31b9:	f2 e9 61 fe ff ff	bnd jmpq 3020 <.plt>
31bf:	90	nop
31c0:	f3 Of le fa	endbr64
31c4:	68 19 00 00 00	pushq \$0x19

```
31c9: f2 e9 51 fe ff ff
                             bnd jmpq 3020 <.plt>
31cf:
       90
                              nop
31d0:
       f3 Of 1e fa
                             endbr64
       68 1a 00 00 00
                             pushq $0x1a
31d4:
31d9:
       f2 e9 41 fe ff ff
                             bnd jmpq 3020 <.plt>
31df:
       90
                              nop
31e0: f3 Of 1e fa
                              endbr64
31e4: 68 1b 00 00 00
                             pushq $0x1b
31e9: f2 e9 31 fe ff ff bnd jmpq 3020 <.plt>
31ef: 90
                              nop
```

Disassembly of section .plt.got:

0000000000031f0 <\_\_cxa\_finalize@plt>:

31f0: f3 Of 1e fa endbr64

31f4: f2 ff 25 fd 4d 00 00 bnd jmpq \*0x4dfd(%rip) # 7ff8

< cxa finalize@GLIBC 2.2.5>

31fb: Of 1f 44 00 00 nopl 0x0(%rax,%rax,1)

Disassembly of section .plt.sec:

0000000000003200 <getenv@plt>:

3200: f3 Of 1e fa endbr64

3204: f2 ff 25 ed 4c 00 00 bnd jmpq \*0x4ced(%rip) # 7ef8

<getenv@GLIBC 2.2.5>

320b: Of 1f 44 00 00 nopl 0x0(%rax,%rax,1)

000000000003210 <\_\_snprintf\_chk@plt>:

3210: f3 Of 1e fa endbr64

3214: f2 ff 25 e5 4c 00 00 bnd jmpq \*0x4ce5(%rip) # 7f00

<\_\_snprintf\_chk@GLIBC\_2.3.4>

321b: 0f 1f 44 00 00 nopl 0x0(%rax,%rax,1)

0000000000003220 <strcasecmp@plt>:

3220: f3 Of le fa endbr64

3224: f2 ff 25 dd 4c 00 00 bnd jmpq \*0x4cdd(%rip) # 7f08

<strcasecmp@GLIBC 2.2.5>

322b: 0f 1f 44 00 00 nopl 0x0(%rax,%rax,1)

000000000003230 < errno location@plt>:

3230: f3 Of 1e fa endbr64

3234: f2 ff 25 d5 4c 00 00 bnd jmpq \*0x4cd5(%rip) # 7f10

< errno location@GLIBC 2.2.5>

323b: Of 1f 44 00 00 nopl 0x0(%rax,%rax,1)

0000000000003240 <strcpy@plt>:

3240: f3 Of le fa endbr64

3244: f2 ff 25 cd 4c 00 00 bnd jmpq \*0x4ccd(%rip) # 7f18

<strcpy@GLIBC\_2.2.5>

324b: Of 1f 44 00 00 nopl 0x0(%rax,%rax,1)

0000000000003250 <puts@plt>:

3250: f3 Of le fa endbr64

3254: f2 ff 25 c5 4c 00 00 bnd jmpq \*0x4cc5(%rip) # 7f20

<puts@GLIBC 2.2.5>

325b: 0f 1f 44 00 00 nopl 0x0(%rax,%rax,1)

0000000000003260 out

3260: f3 Of 1e fa endbr64

3264: f2 ff 25 bd 4c 00 00 bnd jmpq \*0x4cbd(%rip) # 7f28

<write@GLIBC\_2.2.5>

326b: 0f 1f 44 00 00 nopl 0x0(%rax,%rax,1)

000000000003270 <\_\_stack\_chk\_fail@plt>:

3270: f3 Of le fa endbr64

3274: f2 ff 25 b5 4c 00 00 bnd jmpq \*0x4cb5(%rip) # 7f30

<\_\_stack\_chk\_fail@GLIBC\_2.4>

327b: 0f 1f 44 00 00 nopl 0x0(%rax,%rax,1)

0000000000003280 <alarm@plt>:

3280: f3 Of le fa endbr64

3284: f2 ff 25 ad 4c 00 00 bnd jmpq \*0x4cad(%rip) # 7f38

<alarm@GLIBC 2.2.5>

328b: Of 1f 44 00 00 nopl 0x0(%rax,%rax,1)

0000000000003290 <close@plt>:

3290: f3 Of le fa endbr64

3294: f2 ff 25 a5 4c 00 00 bnd jmpq \*0x4ca5(%rip) # 7f40

<close@GLIBC 2.2.5>

329b: Of 1f 44 00 00 nopl 0x0(%rax, %rax, 1)

00000000000032a0 <read@plt>:

32a0: f3 Of le fa endbr64

32a4: f2 ff 25 9d 4c 00 00 bnd jmpq \*0x4c9d(%rip) # 7f48

<read@GLIBC\_2.2.5>

32ab: 0f 1f 44 00 00 nopl 0x0(%rax,%rax,1)

00000000000032b0 <fgets@plt>:

32b0: f3 Of le fa endbr64

32b4: f2 ff 25 95 4c 00 00 bnd jmpq \*0x4c95(%rip) # 7f50

<fgets@GLIBC 2.2.5>

32bb: 0f 1f 44 00 00 nopl 0x0(%rax,%rax,1)

00000000000032c0 <signal@plt>:

32c0: f3 Of le fa endbr64

32c4: f2 ff 25 8d 4c 00 00 bnd jmpq \*0x4c8d(%rip) # 7f58

<signal@GLIBC 2.2.5>

32cb: 0f 1f 44 00 00 nopl 0x0(%rax,%rax,1)

0000000000032d0 <gethostbyname@plt>:

32d0: f3 Of le fa endbr64

32d4: f2 ff 25 85 4c 00 00 bnd jmpq \*0x4c85(%rip) # 7f60

<gethostbyname@GLIBC 2.2.5>

32db: 0f 1f 44 00 00 nopl 0x0(%rax, %rax, 1)

0000000000032e0 <\_\_memmove\_chk@plt>:

32e0: f3 Of 1e fa endbr64

32e4: f2 ff 25 7d 4c 00 00 bnd jmpq \*0x4c7d(%rip) # 7f68

< memmove chk@GLIBC 2.3.4>

32eb: 0f 1f 44 00 00 nopl 0x0(%rax, %rax,1)

00000000000032f0 <strtol@plt>:

32f0: f3 Of le fa endbr64

32f4: f2 ff 25 75 4c 00 00 bnd jmpq \*0x4c75(%rip) # 7f70

<strtol@GLIBC\_2.2.5>

32fb: 0f 1f 44 00 00 nopl 0x0(%rax,%rax,1)

 $\tt 00000000000003300 < fflush@plt>:$ 

3300: f3 Of le fa endbr64

3304: f2 ff 25 6d 4c 00 00 bnd jmpq \*0x4c6d(%rip) # 7f78

<fflush@GLIBC\_2.2.5>

330b: Of 1f 44 00 00 nopl 0x0(%rax, %rax, 1)

000000000003310 <\_\_isoc99\_sscanf@plt>:

3310: f3 Of le fa endbr64

3314: f2 ff 25 65 4c 00 00 bnd jmpq \*0x4c65(%rip) # 7f80

< isoc99 sscanf@GLIBC 2.7>

331b: Of 1f 44 00 00 nopl 0x0(%rax, %rax, 1)

000000000003320 < printf chk@plt>:

3320: f3 Of le fa endbr64

3324: f2 ff 25 5d 4c 00 00 bnd jmpq \*0x4c5d(%rip) # 7f88

< printf chk@GLIBC 2.3.4>

332b: 0f 1f 44 00 00 nopl 0x0(%rax,%rax,1)

000000000003330 <fopen@plt>:

3330: f3 Of 1e fa endbr64

3334: f2 ff 25 55 4c 00 00 bnd jmpq \*0x4c55(%rip) # 7f90

<fopen@GLIBC 2.2.5>

333b: 0f 1f 44 00 00 nopl 0x0(%rax, %rax, 1)

000000000003340 <gethostname@plt>:

3340: f3 Of 1e fa endbr64

3344: f2 ff 25 4d 4c 00 00 bnd jmpq \*0x4c4d(%rip) # 7f98

<gethostname@GLIBC\_2.2.5>

334b: 0f 1f 44 00 00 nopl 0x0(%rax,%rax,1)

0000000000003350 <exit@plt>:

3350: f3 Of 1e fa endbr64

3354: f2 ff 25 45 4c 00 00 bnd jmpq \*0x4c45(%rip) # 7fa0

<exit@GLIBC\_2.2.5>

335b: 0f 1f 44 00 00 nopl 0x0(%rax, %rax, 1)

0000000000003360 <connect@plt>:

3360: f3 Of le fa endbr64

3364: f2 ff 25 3d 4c 00 00 bnd jmpq \*0x4c3d(%rip) # 7fa8

<connect@GLIBC 2.2.5>

336b: Of 1f 44 00 00 nopl 0x0(%rax, %rax, 1)

000000000003370 <\_\_fprintf\_chk@plt>:

3370: f3 Of le fa endbr64

3374: f2 ff 25 35 4c 00 00 bnd jmpq \*0x4c35(%rip) # 7fb0

<\_\_fprintf\_chk@GLIBC\_2.3.4>

337b: 0f 1f 44 00 00 nopl 0x0(%rax,%rax,1)

0000000000003380 <sleep@plt>:

3380: f3 Of 1e fa endbr64

3384: f2 ff 25 2d 4c 00 00 bnd jmpq \*0x4c2d(%rip) # 7fb8

<sleep@GLIBC 2.2.5>

338b: Of 1f 44 00 00 nopl 0x0(%rax, %rax, 1)

000000000003390 <\_\_ctype\_b\_loc@plt>:

3390: f3 Of le fa endbr64

3394: f2 ff 25 25 4c 00 00 bnd jmpq \*0x4c25(%rip) # 7fc0

<\_\_ctype\_b\_loc@GLIBC\_2.3>

339b: Of 1f 44 00 00 nopl 0x0(%rax,%rax,1)

00000000000033a0 <\_\_sprintf\_chk@plt>:

33a0: f3 Of le fa endbr64

33a4: f2 ff 25 1d 4c 00 00 bnd jmpq \*0x4c1d(%rip) # 7fc8

<\_\_sprintf\_chk@GLIBC\_2.3.4>

33ab: 0f 1f 44 00 00 nopl 0x0(%rax,%rax,1)

0000000000033b0 <socket@plt>:

33b0: f3 Of le fa endbr64

33b4: f2 ff 25 15 4c 00 00 bnd jmpq \*0x4c15(%rip) # 7fd0

<socket@GLIBC 2.2.5>

33bb: Of 1f 44 00 00 nopl 0x0(%rax,%rax,1)

Disassembly of section .text:

00000000000033c0 <\_start>:

	33c0:	f3 Of le fa	endbr6	4
	33c4:	31 ed	xor	%ebp,%ebp
	33c6:	49 89 d1	mov	%rdx,%r9
	33c9:	5e	pop	%rsi
	33ca:	48 89 e2	mov	%rsp,%rdx
	33cd:	48 83 e4 f0	and	\$0xfffffffffffff,%rsp
	33d1:	50	push	%rax
	33d2:	54	push	%rsp
	33d3:	4c 8d 05 f6 1a 00 00	lea	0x1af6(%rip),%r8 # 4ed0
<_	_libc_csu_f			
_	33da: _libc_csu_i	48 8d 0d 7f 1a 00 00	lea	0x1a7f(%rip),%rcx # 4e60
`-		48 8d 3d c1 00 00 00	lea	0xcl(%rip),%rdi # 34a9 <main></main>
	33e8:	ff 15 f2 4b 00 00	callq	*0x4bf2(%rip) # 7fe0
<_	_libc_start	_main@GLIBC_2.2.5>		
	33ee:	f4	hlt	
	33ef:	90	nop	
00	00000000003	33f0 <deregister_tm_clones>:</deregister_tm_clones>	:	
		48 8d 3d 89 5e 00 00	lea	0x5e89(%rip),%rdi # 9280
<s< td=""><td>tdout@@GLIE</td><td>_</td><td></td><td></td></s<>	tdout@@GLIE	_		
/0		48 8d 05 82 5e 00 00	lea	0x5e82(%rip),%rax # 9280
\5	tdout@GLIE 33fe:	48 39 f8	cmp	%rdi,%rax
	3401:	74 15	je	3418 <deregister_tm_clones+0x28></deregister_tm_clones+0x28>
	3403:	48 8b 05 ce 4b 00 00	mov	0x4bce(%rip),%rax  # 7fd8
<	ITM deregis	sterTMCloneTable>		•
_	340a:	48 85 c0	test	%rax,%rax
	340d:	74 09	je	3418 <deregister_tm_clones+0x28></deregister_tm_clones+0x28>
	340f:	ff e0	jmpq	*%rax
	3411:	Of 1f 80 00 00 00 00	nopl	0x0(%rax)
	3418:	c3	retq	
	3419:	Of 1f 80 00 00 00 00	nopl	0x0(%rax)

```
000000000003420 <register_tm_clones>:
  3420: 48 8d 3d 59 5e 00 00 lea 0x5e59(%rip),%rdi # 9280
<stdout@@GLIBC 2.2.5>
  3427: 48 8d 35 52 5e 00 00 lea 0x5e52(%rip),%rsi # 9280
<stdout@@GLIBC 2.2.5>
  342e: 48 29 fe
                               sub %rdi,%rsi
  3431: 48 89 f0
                              mov %rsi,%rax
  3434: 48 c1 ee 3f
                              shr $0x3f,%rsi
  3438: 48 c1 f8 03
                              sar $0x3,%rax
  343c: 48 01 c6
                              add %rax,%rsi
  343f: 48 d1 fe
                              sar %rsi
         74 14
  3442:
                                    3458 <register tm clones+0x38>
                               jе
  3444:
         48 8b 05 a5 4b 00 00
                              mov 0x4ba5(%rip),%rax # 7ff0
<_ITM_registerTMCloneTable>
  344b: 48 85 c0
                              test %rax,%rax
  344e: 74 08
                                     3458 <register tm clones+0x38>
                               jе
```

### 000000000003460 < \_\_do\_global\_dtors\_aux>:

3452: 66 Of 1f 44 00 00

3459: Of 1f 80 00 00 00 00 nopl 0x0(%rax)

3450: ff e0

3458: c3

3460:	f3 Of le fa	endbr6	4
3464:	80 3d 3d 5e 00 00 00	cmpb	\$0x0,0x5e3d(%rip) # 92a8
<completed< td=""><td>.8060&gt;</td><td></td><td></td></completed<>	.8060>		
346b:	75 2b	jne	3498 <do_global_dtors_aux+0x38></do_global_dtors_aux+0x38>
346d:	55	push	%rbp
346e:	48 83 3d 82 4b 00 00	cmpq	\$0x0,0x4b82(%rip) # 7ff8
<cxa_fin< td=""><td>alize@GLIBC_2.2.5&gt;</td><td></td><td></td></cxa_fin<>	alize@GLIBC_2.2.5>		
3475:	00		
3476:	48 89 e5	mov	%rsp,%rbp
3479:	74 Oc	je	3487 <do_global_dtors_aux+0x27></do_global_dtors_aux+0x27>
347b:	48 8b 3d 86 4b 00 00	mov	0x4b86(%rip),%rdi # 8008 <dso_handle></dso_handle>
3482:	e8 69 fd ff ff	callq	31f0 <cxa_finalize@plt></cxa_finalize@plt>

jmpq \*%rax

retq

nopw 0x0(%rax,%rax,1)

3487: e8 64 ff ff ff callq 33f0 <deregister\_tm\_clones> c6 05 15 5e 00 00 01 348c: movb \$0x1,0x5e15(%rip) # 92a8 <completed.8060> 3493: 5d %rbp pop 3494: с3 retq 3495: Of 1f 00 nopl (%rax) 3498: c3 retq 3499: Of 1f 80 00 00 00 00 0x0(%rax) nopl 0000000000034a0 <frame dummy>: 34a0: f3 Of le fa endbr64 34a4: e9 77 ff ff ff jmpq 3420 <register tm clones> 00000000000034a9 <main>: 34a9: f3 Of 1e fa endbr64 34ad: 53 %rbx push 34ae: 83 ff 01 \$0x1,%edi cmp 34b1: Of 84 f8 00 00 00 35af <main+0x106> jе 34b7: 48 89 f3 mov %rsi,%rbx 83 ff 02 34ba: \$0x2,%edi cmp Of 85 21 01 00 00 35e4 <main+0x13b> 34bd: jne 34c3: 48 8b 7e 08 mov 0x8(%rsi),%rdi 48 8d 35 7d 20 00 00 34c7: lea 0x207d(%rip),%rsi # 554b <array.3481+0x36b> 34ce: e8 5d fe ff ff callq 3330 <fopen@plt> 34d3: 48 89 05 d6 5d 00 00 %rax,0x5dd6(%rip) # 92b0 <infile> mov 34da: 48 85 c0 test %rax, %rax 34dd: 0f 84 df 00 00 00 jе 35c2 <main+0x119> e8 de 06 00 00 34e3: callq 3bc6 <initialize bomb> 34e8: 48 8d 3d 99 1b 00 00 0x1b99(%rip),%rdi # 5088 lea

callq 3250 <puts@plt>

< IO stdin used+0x88>

e8 5c fd ff ff

34ef:

34f4:	48 8d 3d	. cd 1b	00 00	lea	0x1bcd(%rip),%rdi	# 50c8
<_IO_stdin_	used+0xc8>					
34fb:	e8 50 fd	ff ff		callq	3250 <puts@plt></puts@plt>	
3500:	e8 32 0a	00 00		callq	3f37 <read_line></read_line>	
3505:	48 89 c7			mov	%rax,%rdi	
3508:	e8 fa 00	00 00		callq	3607 <phase_1></phase_1>	
350d:	e8 6d 0b	00 00		callq	407f <phase_defused></phase_defused>	
3512:	48 8d 3d	df 1b	00 00	lea	0x1bdf(%rip),%rdi	# 50f8
<_IO_stdin_	used+0xf8>					
3519:	e8 32 fd	ff ff		callq	3250 <puts@plt></puts@plt>	
351e:	e8 14 0a	00 00		callq	3f37 <read_line></read_line>	
3523:	48 89 c7			mov	%rax,%rdi	
3526:	e8 00 01	00 00		callq	362b <phase_2></phase_2>	
352b:	e8 4f 0b	00 00		callq	407f <phase_defused></phase_defused>	
3530:	48 8d 3d	04 1b	00 00	lea	0x1b04(%rip),%rdi	# 503b
<_IO_stdin_	used+0x3b>					
3537:	e8 14 fd	ff ff		callq	3250 <puts@plt></puts@plt>	
353c:	e8 f6 09	00 00		callq	3f37 <read_line></read_line>	
3541:	48 89 c7			mov	%rax,%rdi	
3544:	e8 56 01	00 00		callq	369f <phase_3></phase_3>	
3549:	e8 31 0b	00 00		callq	407f <phase_defused></phase_defused>	
354e:	48 8d 3d	.04 1b	00 00	lea	0x1b04(%rip),%rdi	# 5059
<_IO_stdin_	used+0x59>					
3555:	e8 f6 fc	ff ff		callq	3250 <puts@plt></puts@plt>	
355a:	e8 d8 09	00 00		callq	3f37 <read_line></read_line>	
355f:	48 89 c7			mov	%rax,%rdi	
3562:	e8 4f 02	00 00		callq	37b6 <phase_4></phase_4>	
3567:	e8 13 0b	00 00		callq	407f <phase_defused></phase_defused>	
356c:	48 8d 3d	b5 1b	00 00	lea	0x1bb5(%rip),%rdi	# 5128
<_IO_stdin_	used+0x128	>				
3573:	e8 d8 fc	ff ff		callq	3250 <puts@plt></puts@plt>	
3578:	e8 ba 09	00 00		callq	3f37 <read_line></read_line>	
357d:	48 89 c7			mov	%rax,%rdi	
3580:	e8 a6 02	00 00		callq	382b <phase_5></phase_5>	

```
3585: e8 f5 0a 00 00
                                  callq 407f <phase defused>
  358a:
          48 8d 3d d7 1a 00 00
                                  lea 0x1ad7(%rip),%rdi # 5068
< IO stdin used+0x68>
  3591:
                                   callq 3250 <puts@plt>
           e8 ba fc ff ff
  3596:
         e8 9c 09 00 00
                                   callq 3f37 <read line>
         48 89 c7
  359b:
                                         %rax,%rdi
                                   mov
  359e:
       e8 14 03 00 00
                                   callq 38b7 <phase 6>
        e8 d7 0a 00 00
                                   callq 407f <phase defused>
  35a3:
  35a8: b8 00 00 00 00
                                   mov
                                         $0x0,%eax
  35ad:
         5b
                                         %rbx
                                   pop
  35ae:
                                   reta
  35af:
         48 8b 05 da 5c 00 00
                                         0x5cda(%rip),%rax # 9290
                                   mov
<stdin@@GLIBC 2.2.5>
  35b6: 48 89 05 f3 5c 00 00
                                         %rax,0x5cf3(%rip)
                                                              # 92b0 <infile>
                                   mov
          e9 21 ff ff ff
  35bd:
                                        34e3 <main+0x3a>
                                   jmpq
  35c2: 48 8b 4b 08
                                         0x8(%rbx),%rcx
                                   mov
  35c6: 48 8b 13
                                         (%rbx),%rdx
                                   mov
  35c9: 48 8d 35 34 1a 00 00
                                   lea
                                         0x1a34(%rip),%rsi # 5004
< IO stdin used+0x4>
         bf 01 00 00 00
  35d0:
                                         $0x1, %edi
                                   mov
  35d5:
          e8 46 fd ff ff
                                  callq 3320 < printf chk@plt>
          bf 08 00 00 00
  35da:
                                         $0x8,%edi
                                   mov
  35df:
          e8 6c fd ff ff
                                   callq 3350 <exit@plt>
  35e4:
          48 8b 16
                                         (%rsi),%rdx
                                   mov
  35e7:
          48 8d 35 33 1a 00 00
                                   lea 0x1a33(%rip),%rsi # 5021
<_IO_stdin used+0x21>
  35ee:
         bf 01 00 00 00
                                   mov $0x1, %edi
  35f3: b8 00 00 00 00
                                   mov
                                         $0x0, %eax
                                  callq 3320 < printf chk@plt>
  35f8: e8 23 fd ff ff
  35fd: bf 08 00 00 00
                                         $0x8,%edi
                                   mov
                                  callq 3350 <exit@plt>
  3602: e8 49 fd ff ff
```

# Phase 1 | match the word

This one you just need to do x/s \$rsi at the cmp line and then copy that string and put it as your input

```
0000000000003607 <phase 1>:
  3607: f3 Of 1e fa
                                  endbr64
  360b: 48 83 ec 08 print out rsp here sub $0x8,%rsp
  360f: 48 8d 35 3a 1b 00 00 lea 0x1b3a(%rip),%rsi # 5150
< IO stdin used+0x150>
  3616: e8 4b 05 00 00
                                 callq 3b66 <strings_not_equal>
  361b:
         85 c0
                                 test %eax, %eax
  361d:
          75 05
                                  jne
                                        3624 <phase 1+0x1d>
  361f:
          48 83 c4 08
                                  add
                                        $0x8,%rsp
  3623:
           с3
                                  retq
  3624: e8 87 08 00 00
                                  callq 3eb0 <explode bomb>
  3629: eb f4
                                  jmp
                                        361f <phase 1+0x18>
```

# Phase\_2 | number sequence

This one you need to get the first 2 numbers to pass the cmp statements and then go through the for loop and change the input then rerun with the breakpoint each time

A shortcut (if you're lucky and get an easy sequence) is to just find the first 3 numbers and then look up the sequence online

```
000000000000362b <phase 2>:
  362b:
       f3 Of 1e fa
                                 endbr64
         55
  362f:
                                        %rbp
                                  push
         53
  3630:
                                 push %rbx
  3631:
          48 83 ec 28
                                        $0x28,%rsp
                                  sub
  3635:
          64 48 8b 04 25 28 00
                                        %fs:0x28,%rax
                                  mov
  363c:
          00 00
  363e:
          48 89 44 24 18
                                        %rax,0x18(%rsp)
                                  mov
  3643: 31 c0
                                        %eax, %eax
                                  xor
  3645: 48 89 e6
                                        %rsp,%rsi
                                  mov
```

```
3648: e8 a5 08 00 00
                               callq 3ef2 <read_six_numbers>
       83 3c 24 00 arg1 = 0
364d:
                                cmpl $0x0,(%rsp)
        75 07
                                      365a <phase 2+0x2f>
3651:
                                jne
       83 \ 7c \ 24 \ 04 \ 01 \ arg2 = 1
                                cmpl $0x1,0x4(%rsp)
3653:
       74 05
3658:
                                      365f < phase 2 + 0x34 >
                                jе
365a: e8 51 08 00 00
                                callq 3eb0 <explode bomb>
365f: 48 89 e3
                                      %rsp,%rbx
                                mov
3662: 48 8d 6c 24 10
                                lea 0x10(%rsp),%rbp
3667: eb 0e
                                jmp
                                      3677 <phase 2+0x4c>
3669: e8 42 08 00 00
                        callq 3eb0 <explode bomb>
366e: 48 83 c3 04
                                add
                                      $0x4,%rbx
      48 39 eb
3672:
                                cmp
                                      %rbp,%rbx
3675:
       74 Oc
                                jе
                                      3683 <phase_2+0x58>
3677:
       8b 43 04
                                      0x4(%rbx),%eax
                                mov
       03 03
367a:
                                      (%rbx),%eax
                                add
367c:
       39 43 08 arg3-arg6 = whatever eax is here
                                                       cmp %eax,0x8(%rbx)
367f: 74 ed
                                      366e <phase 2+0x43>
                                jе
3681: eb e6
                                      3669 <phase 2+0x3e>
                                jmp
3683: 48 8b 44 24 18
                                mov 0x18(%rsp),%rax
3688: 64 48 33 04 25 28 00
                                xor
                                    %fs:0x28,%rax
368f: 00 00
                                      369a <phase 2+0x6f>
3691: 75 07
                                jne
       48 83 c4 28
                                      $0x28,%rsp
3693:
                                add
3697:
        5b
                                      %rbx
                                pop
3698:
        5d
                                      %rbp
                                pop
3699:
        с3
                                retq
369a: e8 d1 fb ff ff
                                callq 3270 < stack chk fail@plt>
```

# Phase\_3 | cipher

Ignore the unimaginative naming of this phase

# This phase has two numbers and you basically just need to get both numbers to pass the cmp statements

000000000000000000000000000000000000000	0000000000369f <phase_3>:</phase_3>										
369f:	f3 Of 1e fa	endbr64									
36a3:	48 83 ec 18	sub \$0x18,%rsp									
36a7:	64 48 8b 04 25 28 00	mov %fs:0x28,%rax									
36ae:	00 00										
36b0:	48 89 44 24 08	mov %rax,0x8(%rsp)									
36b5:	31 c0	xor %eax,%eax									
36b7:	48 8d 4c 24 04	lea 0x4(%rsp),%rcx									
36bc:	48 89 e2	mov %rsp,%rdx									
36bf:	48 8d 35 1e 1e 00 00	lea									
<array.3481-< td=""><td>-0x304&gt;</td><td></td></array.3481-<>	-0x304>										
36c6:	e8 45 fc ff ff	callq 3310 <isoc99_sscanf@plt></isoc99_sscanf@plt>									
36cb:	83 f8 01 2 inputs	cmp \$0x1,%eax									
36ce:	7e 1e	<pre>jle 36ee <phase_3+0x4f></phase_3+0x4f></pre>									
36d0:	83 3c 24 07	cmpl \$0x7,(%rsp)									
36d4:	Of 87 90 00 00 00	ja 376a <phase_3+0xcb></phase_3+0xcb>									
36da:	8b 04 24	mov (%rsp),%eax									
36dd:	48 8d 15 dc 1a 00 00	lea									
<_IO_stdin_u	used+0x1c0>										
36e4:	48 63 04 82	movslq (%rdx,%rax,4),%rax									
36e8:	48 01 d0	add %rdx,%rax									
36eb:	3e ff e0	notrack jmpq *%rax									
36ee:	e8 bd 07 00 00	callq 3eb0 <explode_bomb></explode_bomb>									
36f3:	eb db	<pre>jmp 36d0 <phase_3+0x31></phase_3+0x31></pre>									
36f5:	b8 69 02 00 00	mov \$0x269,%eax									
36fa:	2d 99 02 00 00	sub \$0x299,%eax									
36ff:	05 ca 01 00 00	add \$0x1ca,%eax									
3704:	83 e8 6f	sub \$0x6f,%eax									
3707:	83 c0 6f	add \$0x6f,%eax									
370a:	83 e8 6f	sub \$0x6f,%eax									
370d:	83 c0 6f	add \$0x6f,%eax									

3710:	83	e8	6f					sub	\$0x6f,%eax
3713:	83	3с	24	05				cmpl	\$0x5,(%rsp)
3717:	7f	06						jg	371f <phase_3+0x80></phase_3+0x80>
3719:	39	44	24	04				cmp	%eax,0x4(%rsp)
371d:	74	05						je	3724 <phase_3+0x85></phase_3+0x85>
371f:	e8	8c	07	00	00			callq	3eb0 <explode_bomb></explode_bomb>
3724:	48	8b	44	24	08			mov	0x8(%rsp),%rax
3729:	64	48	33	04	25	28	00	xor	%fs:0x28,%rax
3730:	00	00							
3732:	75	42						jne	3776 <phase_3+0xd7></phase_3+0xd7>
3734:	48	83	с4	18				add	\$0x18,%rsp
3738:	с3							retq	
3739:	b8	00	00	00	00			mov	\$0x0,%eax
373e:	eb	ba						jmp	36fa <phase_3+0x5b></phase_3+0x5b>
3740:	b8	00	00	00	00			mov	\$0x0,%eax
3745:	eb	b8						jmp	36ff <phase_3+0x60></phase_3+0x60>
3747:	b8	00	00	00	00			mov	\$0x0,%eax
374c:	eb	b6						jmp	3704 <phase_3+0x65></phase_3+0x65>
374e:	b8	00	00	00	00			mov	\$0x0,%eax
3753:	eb	b2						jmp	3707 <phase_3+0x68></phase_3+0x68>
3755:	b8	00	00	00	00			mov	\$0x0,%eax
375a:	eb	ae						jmp	370a <phase_3+0x6b></phase_3+0x6b>
375c:	b8	00	00	00	00			mov	\$0x0,%eax
3761:	eb	aa						jmp	370d <phase_3+0x6e></phase_3+0x6e>
3763:	b8	00	00	00	00			mov	\$0x0,%eax
3768:	eb	a6						jmp	3710 <phase_3+0x71></phase_3+0x71>
376a:	e8	41	07	00	00			callq	3eb0 <explode_bomb></explode_bomb>
376f:	b8	00	00	00	00			mov	\$0x0,%eax
3774:	eb	9d						jmp	3713 <phase_3+0x74></phase_3+0x74>
3776:	e8	f5	fa	ff	ff			callq	3270 <stack_chk_fail@plt></stack_chk_fail@plt>

```
000000000000377b <func4>:
  377b:
           f3 Of 1e fa
                                      endbr64
  377f:
           b8 00 00 00 00
                                      mov
                                             $0x0, %eax
           85 ff
  3784:
                                      test
                                             %edi,%edi
  3786:
           7e 2d
                                             37b5 <func4+0x3a>
                                      jle
  3788:
           41 54
                                      push %r12
  378a:
            55
                                      push
                                             %rbp
  378b:
            53
                                             %rbx
                                      push
  378c:
        89 fb
                                             %edi,%ebx
                                      mov
  378e: 89 f5
                                      mov
                                             %esi,%ebp
          89 f0
  3790:
                                             %esi,%eax
                                      mov
  3792:
           83 ff 01
                                             $0x1,%edi
                                      cmp
  3795:
           74 19
                                      jе
                                             37b0 <func4+0x35>
  3797:
           8d 7f ff
                                             -0x1(%rdi),%edi
                                      lea
                                      callq 377b <func4>
  379a:
            e8 dc ff ff ff
  379f:
           44 8d 24 28
                                      lea
                                             (%rax,%rbp,1),%r12d
  37a3:
          8d 7b fe
                                      lea
                                             -0x2(%rbx),%edi
  37a6:
          89 ee
                                      mov
                                             %ebp,%esi
  37a8:
          e8 ce ff ff ff
                                      callq 377b <func4>
            44 01 e0
  37ad:
                                      add
                                             %r12d, %eax
  37b0:
            5b
                                             %rbx
                                      pop
  37b1:
            5d
                                             %rbp
                                      pop
  37b2:
            41 5c
                                      pop
                                             %r12
  37b4:
            с3
                                      retq
  37b5:
                                      retq
```

## Phase\_4 | I don't even know

This one can vary. If you get a super long func4, it's probably a palindrome. Try just like two number sets like 54345 and 65456 or something about that.

Otherwise you might get a one argument palindrome. In that case try something liek 65456

### Otherwise you might just get two numbers like mine. I had 216 and 4.

00000000000037b6 <phase 4>: endbr64 37b6: f3 Of le fa 37ba: 48 83 ec 18 sub \$0x18,%rsp 37be: 64 48 8b 04 25 28 00 mov %fs:0x28,%rax 37c5: 00 00 37c7: 48 89 44 24 08 %rax,0x8(%rsp) mov 31 c0 37cc: %eax, %eax xor 48 89 el 37ce: mov %rsp,%rcx 37d1: 48 8d 54 24 04 0x4(%rsp),%rdx lea 37d6: 48 8d 35 07 1d 00 00 0x1d07(%rip),%rsi # 54e4 lea <array.3481+0x304> 37dd: e8 2e fb ff ff callq 3310 < isoc99 sscanf@plt> 37e2: 83 f8 02 2 inputs cmp \$0x2, %eax 37e5: 75 0b 37f2 <phase 4+0x3c> jne 37e7: 8b 04 24 mov (%rsp),%eax 37ea: 83 e8 02 sub \$0x2, %eax 37ed: 83 f8 02 cmp \$0x2,%eax 76 05 37f7 < phase 4 + 0x41 >37f0: jbe 37f2: e8 b9 06 00 00 callq 3eb0 <explode\_bomb> 37f7: 8b 34 24 (%rsp),%esi mov 37fa: bf 08 00 00 00 mov \$0x8,%edi 37ff: e8 77 ff ff ff callq 377b <func4> 3804: 39 44 24 04 %eax, 0x4(%rsp) cmp 3808: 75 15 jne 381f <phase 4+0x69> 380a: 48 8b 44 24 08 mov 0x8(%rsp),%rax 380f: 64 48 33 04 25 28 00 xor %fs:0x28,%rax 00 00 3816: 75 Oc 3818: 3826 <phase 4+0x70> jne 48 83 c4 18 381a: add \$0x18,%rsp 381e: с3 retq

callq 3eb0 <explode\_bomb>

381f: e8 8c 06 00 00

```
3824: eb e4 jmp 380a <phase_4+0x54>
3826: e8 45 fa ff ff callq 3270 < stack chk fail@plt>
```

# Phase\_5 | Indexing or whatever

This one I had to do x/Indexd \$reg where Index stands for a specific index.

Since integers are 4 bytes I did multiples of 4 for indexes so for example **x/5d \$rg** I do 5 instead of 4 since index starts at 0.

So in the end I figured out that I needed the memory address of ecx to match like 0x32 and that was 50 in decimal so my numbers had to index into this array and then add up to 50.

### My final answer was: 444288

```
000000000000382b <phase_5>:
          f3 Of le fa
  382b:
                                 endbr64
  382f:
          53
                                 push %rbx
  3830: 48 83 ec 60
                                 sub $0x60,%rsp
  3834: 64 48 8b 04 25 28 00
                                       %fs:0x28,%rax
                                 mov
  383b: 00 00
  383d: 48 89 44 24 58
                                       %rax,0x58(%rsp)
                                 mov
  3842: 31 c0
                                       %eax,%eax
                                 xor
         48 89 e3
  3844:
                                       %rsp,%rbx
                                 mov
  3847:
         48 89 da
                                 mov
                                       %rbx,%rdx
          48 8d 35 02 1d 00 00
                                lea
                                       0x1d02(%rip),%rsi # 5553
<array.3481+0x373>
  3851: e8 ba fa ff ff
                                 callq 3310 < isoc99 sscanf@plt>
  3856: 48 89 df
                                       %rbx,%rdi
  3859: e8 e7 02 00 00 input = 1 arg callq 3b45 <string length>
  385e: 83 f8 06 length of input has to = 6 cmp $0x6, %eax
  3861: 75 41
                                     38a4 <phase_5+0x79>
                                 jne
  3863: 48 89 e0
                                mov %rsp,%rax
  3866:
         48 8d 7c 24 06
                                lea 0x6(%rsp),%rdi
  386b: b9 00 00 00 00
                                mov $0x0,%ecx
```

```
3870: 48 8d 35 69 19 00 00 lea 0x1969(%rip),%rsi # 51e0 <array.3481>
      0f b6 10
3877:
                            movzbl (%rax),%edx
387a: 83 e2 Of
                                 $0xf,%edx
                             and
387d: 03 0c 96 indexing with input numbers add (%rsi,%rdx,4),%ecx
3880: 48 83 c0 01
                            add $0x1,%rax
3884: 48 39 f8
                            cmp %rdi,%rax
3887: 75 ee
                             jne 3877 <phase 5+0x4c>
3889: 83 f9 32 memory add. of ecx has to = 0x32 cmp $0x32, ecx
388c: 75 1d
                            jne 38ab <phase_5+0x80>
388e: 48 8b 44 24 58
                            mov 0x58(%rsp),%rax
3893: 64 48 33 04 25 28 00 xor %fs:0x28,%rax
      00 00
389a:
       75 14
389c:
                                  38b2 <phase 5+0x87>
                             jne
389e:
       48 83 c4 60
                             add $0x60,%rsp
38a2:
       5b
                                  %rbx
                             pop
38a3: c3
                            retq
38a4: e8 07 06 00 00 callq 3eb0 <explode bomb>
38a9: eb b8
                             jmp 3863 <phase 5+0x38>
38ab: e8 00 06 00 00 callq 3eb0 <explode bomb>
38b0: eb dc
                         jmp 388e <phase 5+0x63>
38b2: e8 b9 f9 ff ff callq 3270 <__stack_chk_fail@plt>
```

# Phase\_6 | binary tree

The guides I linked on top had a good overview of this. It's a binary tree. I didn't do this.

0000000000038b7 <phase\_6>:

38b7:	f3	0f	1e	fa		endbr64	l
38bb:	41	57				push	%r15
38bd:	41	56				push	%r14
38bf:	41	55				push	%r13

38c1:	41 54	push	%r12
38c3:	55	push	%rbp
38c4:	53	push	%rbx
38c5:	48 83 ec 68	sub	\$0x68,%rsp
38c9:	64 48 8b 04 25 28 00	mov	%fs:0x28,%rax
38d0:	00 00		
38d2:	48 89 44 24 58	mov	%rax,0x58(%rsp)
38d7:	31 c0	xor	%eax, %eax
38d9:	49 89 e6	mov	%rsp,%r14
38dc:	4c 89 f6	mov	%r14,%rsi
38df:	e8 0e 06 00 00	callq	<pre>3ef2 <read_six_numbers></read_six_numbers></pre>
38e4:	4d 89 f4	mov	%r14,%r12
38e7:	41 bf 01 00 00 00	mov	\$0x1,%r15d
38ed:	49 89 e5	mov	%rsp,%r13
38f0:	e9 c1 00 00 00	jmpq	39b6 <phase_6+0xff></phase_6+0xff>
38f5:	e8 b6 05 00 00	callq	3eb0 <explode_bomb></explode_bomb>
38fa:	e9 c9 00 00 00	jmpq	39c8 <phase_6+0x111></phase_6+0x111>
38ff:	e8 ac 05 00 00	callq	3eb0 <explode_bomb></explode_bomb>
3904:	48 83 c3 01	add	\$0x1,%rbx
3908:	83 fb 05	cmp	\$0x5, %ebx
390b:	Of 8f 9d 00 00 00	jg	39ae <phase_6+0xf7></phase_6+0xf7>
3911:	41 8b 44 9d 00	mov	0x0(%r13,%rbx,4),%eax
3916:	39 45 00	cmp	%eax,0x0(%rbp)
3919:	75 e9	jne	3904 <phase_6+0x4d></phase_6+0x4d>
391b:	eb e2	jmp	38ff <phase_6+0x48></phase_6+0x48>
391d:	49 8d 4c 24 18	lea	0x18(%r12),%rcx
3922:	ba 07 00 00 00	mov	\$0x7, %edx
3927:	89 d0	mov	%edx, %eax
3929:	41 2b 04 24	sub	(%r12),%eax
392d:	41 89 04 24	mov	%eax,(%r12)
3931:	49 83 c4 04	add	\$0x4,%r12
3935:	4c 39 e1	cmp	%r12,%rcx

3938:	7	5	ed						jne	3927 <phase_6+0x70></phase_6+0x70>
393a:	b	е	00	00	00	00			mov	\$0x0,%esi
393f:	8	b	0с	b4					mov	(%rsp,%rsi,4),%ecx
3942:	b	8	01	00	00	00			mov	\$0x1,%eax
3947:	4	8	8d	15	e2	48	00	00	lea	0x48e2(%rip),%rdx # 8230 <node1></node1>
394e:	8	3	f9	01					cmp	\$0x1,%ecx
3951:	7	е	0b						jle	395e <phase_6+0xa7></phase_6+0xa7>
3953:	4	8	8b	52	08				mov	0x8(%rdx),%rdx
3957:	8	3	с0	01					add	\$0x1,%eax
395a:	3	9	с8						cmp	%ecx, %eax
395c:	7	5	f5						jne	3953 <phase_6+0x9c></phase_6+0x9c>
395e:	4	8	89	54	f4	20			mov	%rdx,0x20(%rsp,%rsi,8)
3963:	4	8	83	с6	01				add	\$0x1,%rsi
3967:	4	8	83	fe	06				cmp	\$0x6,%rsi
396b:	7	5	d2						jne	393f <phase_6+0x88></phase_6+0x88>
396d:	4	8	8b	5с	24	20			mov	0x20(%rsp),%rbx
3972:	4	8	8b	44	24	28			mov	0x28(%rsp),%rax
3977:	4	8	89	43	08				mov	%rax,0x8(%rbx)
397b:	4	8	8b	54	24	30			mov	0x30(%rsp),%rdx
3980:	4	8	89	50	08				mov	%rdx,0x8(%rax)
3984:	4	8	8b	44	24	38			mov	0x38(%rsp),%rax
3989:	4	8	89	42	08				mov	%rax,0x8(%rdx)
398d:	4	8	8b	54	24	40			mov	0x40(%rsp),%rdx
3992:	4	8	89	50	08				mov	%rdx,0x8(%rax)
3996:	4	8	8b	44	24	48			mov	0x48(%rsp),%rax
399b:	4	8	89	42	08				mov	%rax,0x8(%rdx)
399f:	4	8	с7	40	08	00	00	00	movq	\$0x0,0x8(%rax)
39a6:	0	0								
39a7:	b	d	05	00	00	00			mov	\$0x5,%ebp
39ac:	е	b	35						jmp	39e3 <phase_6+0x12c></phase_6+0x12c>
39ae:	4	9	83	с7	01				add	\$0x1,%r15
39b2:	4	9	83	с6	04				add	\$0x4,%r14

39b6:	4c 89 f5	mov %r14,%	rbp
39b9:	41 8b 06	mov (%r14)	,%eax
39bc:	83 e8 01	sub \$0x1,%	eax
39bf:	83 f8 05	cmp \$0x5,%	eax
39c2:	Of 87 2d ff ff ff	ja 38f5 <	phase_6+0x3e>
39c8:	41 83 ff 05	cmp \$0x5,%	r15d
39cc:	Of 8f 4b ff ff ff	jg 391d <	phase_6+0x66>
39d2:	4c 89 fb	mov %r15,%	rbx
39d5:	e9 37 ff ff ff	jmpq 3911 <	phase_6+0x5a>
39da:	48 8b 5b 08	mov 0x8(%r	bx),%rbx
39de:	83 ed 01	sub \$0x1,%	ebp
39e1:	74 11	je 39f4 <	phase_6+0x13d>
39e3:	48 8b 43 08	mov 0x8(%r	bx),%rax
39e7:	8b 00	mov (%rax)	,%eax
39e9:	39 03	cmp %eax,(	%rbx)
39eb:	7d ed	jge 39da <	phase_6+0x123>
39ed:	e8 be 04 00 00	callq 3eb0 <	explode_bomb>
39f2:	eb e6	jmp 39da <	phase_6+0x123>
39f4:	48 8b 44 24 58	mov 0x58(%	rsp),%rax
39f9:	64 48 33 04 25 28 00	xor %fs:0x	28,%rax
3a00:	00 00		
3a02:	75 Of	jne 3a13 <	phase_6+0x15c>
3a04:	48 83 c4 68	add \$0x68,	%rsp
3a08:	5b	pop %rbx	
3a09:	5d	pop %rbp	
3a0a:	41 5c	pop %r12	
3a0c:	41 5d	pop %r13	
3a0e:	41 5e	pop %r14	
3a10:	41 5f	pop %r15	
3a12:	c3	retq	
3a13:	e8 58 f8 ff ff	callq 3270 <	stack_chk_fail@plt>

#### 0000000000003a18 <fun7>: 3a18: f3 Of le fa endbr64 3a1c: 48 85 ff test %rdi,%rdi 3a1f: 74 32 je 3a53 <fun7+0x3b> 3a21: 48 83 ec 08 sub \$0x8,%rsp 3a25: 8b 17 (%rdi),%edx mov 3a27: 39 f2 %esi,%edx cmp 3a29: 7f 0c 3a37 < fun7 + 0x1f >jg 3a2b: b8 00 00 00 00 \$0x0,%eax mov 3a30: 75 12 3a44 <fun7+0x2c> jne 3a32: 48 83 c4 08 add \$0x8,%rsp 3a36: c3 retq 3a37: 48 8b 7f 08 mov 0x8(%rdi),%rdi 3a3b: e8 d8 ff ff ff callq 3a18 <fun7> 3a40: 01 c0 add %eax, %eax 3a42: eb ee jmp 3a32 <fun7+0x1a> 3a44: 48 8b 7f 10 mov 0x10(%rdi),%rdi 3a48: e8 cb ff ff ff callq 3a18 <fun7> 8d 44 00 01 3a4d: lea 0x1(%rax,%rax,1),%eax 3a51: eb df jmp 3a32 <fun7+0x1a> b8 ff ff ff ff 3a53: mov \$0xfffffffff, %eax

# Phase\_7 | secret phase

### Yeah I skipped this. Look at the guides for this

000000000003a59 <secret\_phase>:

с3

3a58:

3a59:	f3 Of 1e fa	endbr64
3a5d:	53	push %rbx
3a5e:	e8 d4 04 00 00	callq 3f37 <read line=""></read>

retq

	3a63:	4	8	89	с7					mov	%rax,	,%rdi			
	3a66:	b	а	0a	00	00	00			mov	\$0xa,	,%edx			
	3a6b:	b	9	00	00	00	00			mov	\$0x0,	,%esi			
	3a70:	е	8	7b	f8	ff	ff			callq	32f0	<strtol@plt></strtol@plt>			
	3a75:	4	8	89	с3					mov	%rax,	,%rbx			
	3a78:	8	d	40	ff					lea	-0x1	(%rax),%eax			
	3a7b:	3	d	e8	03	00	00			cmp	\$0x3e	e8,%eax			
	3a80:	7	7	26						ja	3aa8	<secret_phase+0x4f< td=""><td>&gt;</td><td></td><td></td></secret_phase+0x4f<>	>		
	3a82:	8	9	de						mov	%ebx,	,%esi			
	3a84:	4	8	8d	3d	с5	46	00	00	lea	0x46c	c5(%rip),%rdi	#	8150	<n1></n1>
	3a8b:	е	8	88	ff	ff	ff			callq	3a18	<fun7></fun7>			
	3a90:	8	3	f8	01					cmp	\$0x1,	,%eax			
	3a93:	7	5	1a						jne	3aaf	<secret_phase+0x56< td=""><td>&gt;</td><td></td><td></td></secret_phase+0x56<>	>		
	3a95:	4	8	8d	3d	ес	16	00	00	lea	0x16e	ec(%rip),%rdi	#	5188	
<_	IO_stdin_us	sec	1+(	0x1	88>										
	3a9c:	е	8	af	f7	ff	ff			callq	3250	<puts@plt></puts@plt>			
	3aa1:	е	8	d9	05	00	00			callq	407f	<pre><phase_defused></phase_defused></pre>			
	3aa6:	51	0							pop	%rbx				
	3aa7:	C	3							retq					
	3aa8:	е	8	03	04	00	00			callq	3eb0	<explode_bomb></explode_bomb>			
	3aad:	e]	0	d3						jmp	3a82	<secret_phase+0x29< td=""><td>&gt;</td><td></td><td></td></secret_phase+0x29<>	>		
	3aaf:	е	8	fc	03	00	00			callq	3eb0	<explode_bomb></explode_bomb>			
	3ab4:	el	0	df						jmp	3a95	<secret_phase+0x3c< td=""><td>&gt;</td><td></td><td></td></secret_phase+0x3c<>	>		

## 0000000000003ab6 <sig\_handler>:

	3ab6:	f3 Of 1e fa	endbr64	1	
	3aba:	50	push	%rax	
	3abb:	58	pop	%rax	
	3abc:	48 83 ec 08	sub	\$0x8,%rsp	
	3ac0:	48 8d 3d 59 17 00 00	lea	0x1759(%rip),%rdi	# 5220
<a< td=""><td>rray.3481+0</td><td>)x40&gt;</td><td></td><td></td><td></td></a<>	rray.3481+0	)x40>			
	3ac7:	e8 84 f7 ff ff	callq	3250 <puts@plt></puts@plt>	

3acc:	bf 03 0	00 00		mov	\$0x3,%edi	
3ad1:	e8 aa f	8 ff ff		callq	3380 <sleep@plt></sleep@plt>	
3ad6:	48 8d 3	5 61 19	00 00	lea	0x1961(%rip),%rsi	# 543e
<array.348< td=""><td>1+0x25e&gt;</td><td></td><td></td><td></td><td></td><td></td></array.348<>	1+0x25e>					
3add:	bf 01 0	00 00		mov	\$0x1,%edi	
3ae2:	b8 00 0	00 00		mov	\$0x0,%eax	
3ae7:	e8 34 f	8 ff ff		callq	3320 <printf_chk@plt></printf_chk@plt>	
3aec:	48 8b 3	d 8d 57	00 00	mov	0x578d(%rip),%rdi	# 9280
<stdout@@g< td=""><td>SLIBC_2.2.5&gt;</td><td>•</td><td></td><td></td><td></td><td></td></stdout@@g<>	SLIBC_2.2.5>	•				
3af3:	e8 08 f	8 ff ff		callq	3300 <fflush@plt></fflush@plt>	
3af8:	bf 01 0	00 00		mov	\$0x1,%edi	
3afd:	e8 7e f	8 ff ff		callq	3380 <sleep@plt></sleep@plt>	
3b02:	48 8d 3	d 3d 19	00 00	lea	0x193d(%rip),%rdi	# 5446
<array.348< td=""><td>1+0x266&gt;</td><td></td><td></td><td></td><td></td><td></td></array.348<>	1+0x266>					
3b09:	e8 42 f	7 ff ff		callq	3250 <puts@plt></puts@plt>	
3b0e:	bf 10 0	00 00		mov	\$0x10,%edi	
3b13:	e8 38 f	8 ff ff		callq	3350 <exit@plt></exit@plt>	
0000000000	1003b18 <int< td=""><td>alid pl</td><td>nase&gt;:</td><td></td><td></td><td></td></int<>	alid pl	nase>:			
	003b18 <inv< td=""><td>_</td><td>nase&gt;:</td><td></td><td></td><td></td></inv<>	_	nase>:			
00000000000000000000000000000000000000	003b18 <inv< td=""><td>_</td><td>nase&gt;:</td><td>endbr6</td><td>4</td><td></td></inv<>	_	nase>:	endbr6	4	
		_	nase>:	endbr6	4 %rax	
3b18:	f3 Of 1	_	nase>:			
3b18: 3b1c:	f3 Of 16	e fa	nase>:	push	%rax	
3b18: 3b1c: 3b1d: 3b1e:	f3 Of 10 50 58	e fa	nase>:	push	%rax %rax	
3b18: 3b1c: 3b1d: 3b1e: 3b22:	f3 Of 10 50 58 48 83 e	e fa		push pop sub	%rax %rax \$0x8,%rsp %rdi,%rdx	# 544e
3b18: 3b1c: 3b1d: 3b1e: 3b22:	f3 Of 16 50 58 48 83 e6 48 89 f6 48 8d 3	e fa		push pop sub mov	%rax %rax \$0x8,%rsp %rdi,%rdx	# 544e
3b18: 3b1c: 3b1d: 3b1e: 3b22: 3b25:	f3 Of 16 50 58 48 83 e6 48 89 f6 48 8d 3	e fa c 08 a 5 22 19	00 00	push pop sub mov	%rax %rax \$0x8,%rsp %rdi,%rdx	# 544e
3b18: 3b1c: 3b1d: 3b1e: 3b22: 3b25: <array.348< td=""><td>f3 0f 16 50 58 48 83 e6 48 89 f6 48 8d 3: 1+0x26e&gt; bf 01 06</td><td>e fa c 08 a c 08 0 00 00</td><td>00 00</td><td>push pop sub mov lea</td><td>%rax %rax \$0x8,%rsp %rdi,%rdx 0x1922(%rip),%rsi</td><td># 544e</td></array.348<>	f3 0f 16 50 58 48 83 e6 48 89 f6 48 8d 3: 1+0x26e> bf 01 06	e fa c 08 a c 08 0 00 00	00 00	push pop sub mov lea	%rax %rax \$0x8,%rsp %rdi,%rdx 0x1922(%rip),%rsi	# 544e
3b18: 3b1c: 3b1d: 3b1e: 3b22: 3b25: <array.348 3b2c:="" 3b31:<="" td=""><td>f3 0f 16 50 58 48 83 e6 48 89 f6 48 8d 3. 11+0x26e&gt; bf 01 06</td><td>e fa</td><td>00 00</td><td>push pop sub mov lea mov mov</td><td>%rax  \$0x8,%rsp  %rdi,%rdx  0x1922(%rip),%rsi  \$0x1,%edi</td><td># 544e</td></array.348>	f3 0f 16 50 58 48 83 e6 48 89 f6 48 8d 3. 11+0x26e> bf 01 06	e fa	00 00	push pop sub mov lea mov mov	%rax  \$0x8,%rsp  %rdi,%rdx  0x1922(%rip),%rsi  \$0x1,%edi	# 544e
3b18: 3b1c: 3b1d: 3b1e: 3b22: 3b25: <array.348 3b2c:="" 3b31:<="" td=""><td>f3 0f 16 50 58 48 83 e6 48 89 f6 48 8d 3 11+0x26e&gt; bf 01 06 b8 00 06 e8 e5 f</td><td>c 08 a 5 22 19 0 00 00 7 ff ff</td><td>00 00</td><td>push pop sub mov lea mov mov</td><td><pre>%rax %rax \$0x8,%rsp %rdi,%rdx 0x1922(%rip),%rsi \$0x1,%edi \$0x0,%eax</pre></td><td># 544e</td></array.348>	f3 0f 16 50 58 48 83 e6 48 89 f6 48 8d 3 11+0x26e> bf 01 06 b8 00 06 e8 e5 f	c 08 a 5 22 19 0 00 00 7 ff ff	00 00	push pop sub mov lea mov mov	<pre>%rax %rax \$0x8,%rsp %rdi,%rdx 0x1922(%rip),%rsi \$0x1,%edi \$0x0,%eax</pre>	# 544e

3b45:	f3 Of 1e fa	endbr6	4
3b49:	80 3f 00	cmpb	\$0x0,(%rdi)
3b4c:	74 12	je	3b60 <string_length+0x1b></string_length+0x1b>
3b4e:	b8 00 00 00 00	mov	\$0x0,%eax
3b53:	48 83 c7 01	add	\$0x1,%rdi
3b57:	83 c0 01	add	\$0x1,%eax
3b5a:	80 3f 00	cmpb	\$0x0,(%rdi)
3b5d:	75 f4	jne	3b53 <string_length+0xe></string_length+0xe>
3b5f:	c3	retq	
3b60:	b8 00 00 00 00	mov	\$0x0,%eax
3b65:	c3	retq	

## 0000000000003b66 <strings\_not\_equal>:

3b66:	f3	0f	1e	fa		endbr64	4
3b6a:	41	54				push	%r12
3b6c:	55					push	%rbp
3b6d:	53					push	%rbx
3b6e:	48	89	fb			mov	%rdi,%rbx
3b71:	48	89	f5			mov	%rsi,%rbp
3b74:	e8	CC	ff	ff	ff	callq	3b45 <string_length></string_length>
3b79:	41	89	с4			mov	%eax,%r12d
3b7c:	48	89	ef			mov	%rbp,%rdi
3b7f:	е8	с1	ff	ff	ff	callq	3b45 <string_length></string_length>
3b84:	89	с2				mov	%eax, %edx
3b86:	b8	01	00	00	00	mov	\$0x1,%eax
3b8b:	41	39	d4			cmp	%edx,%r12d
3b8e:	75	31				jne	3bc1 <strings_not_equal+0x5b></strings_not_equal+0x5b>
3b90:	0f	b6	13			movzbl	(%rbx),%edx
3b93:	84	d2				test	%dl,%dl
3b95:	74	1e				je	3bb5 <strings_not_equal+0x4f></strings_not_equal+0x4f>
3b97:	b8	00	00	00	00	mov	\$0x0,%eax

3b9c:	38	54	05	00		cmp	%dl,0x0(%rbp,%rax,1)
3ba0:	75	1a				jne	<pre>3bbc <strings_not_equal+0x56></strings_not_equal+0x56></pre>
3ba2:	48	83	с0	01		add	\$0x1,%rax
3ba6:	0f	b6	14	03		movzbl	(%rbx,%rax,1),%edx
3baa:	84	d2				test	%dl,%dl
3bac:	75	ee				jne	3b9c <strings_not_equal+0x36></strings_not_equal+0x36>
3bae:	b8	00	00	00	00	mov	\$0x0,%eax
3bb3:	eb	0c				jmp	3bc1 <strings_not_equal+0x5b></strings_not_equal+0x5b>
3bb5:	b8	00	00	00	00	mov	\$0x0,%eax
3bba:	eb	05				jmp	3bc1 <strings_not_equal+0x5b></strings_not_equal+0x5b>
3bbc:	b8	01	00	00	00	mov	\$0x1,%eax
3bc1:	5b					pop	%rbx
3bc2:	5d					pop	%rbp
3bc3:	41	5с				pop	%r12
3bc5:	сЗ					retq	

## 0000000000003bc6 <initialize\_bomb>:

3bc6:	f3 Of 1e fa	endbr64	1
3bca:	55	push	%rbp
3bcb:	53	push	%rbx
3bcc:	48 81 ec 00 10 00 00	sub	\$0x1000,%rsp
3bd3:	48 83 0c 24 00	orq	\$0x0,(%rsp)
3bd8:	48 81 ec 00 10 00 00	sub	\$0x1000,%rsp
3bdf:	48 83 Oc 24 OO	orq	\$0x0,(%rsp)
3be4:	48 83 ec 58	sub	\$0x58,%rsp
3be8:	64 48 8b 04 25 28 00	mov	%fs:0x28,%rax
3bef:	00 00		
3bf1:	48 89 84 24 48 20 00	mov	%rax,0x2048(%rsp)
3bf8:	00		
3bf9:	31 c0	xor	%eax, %eax
3bfb:	48 8d 35 b4 fe ff ff	lea	-0x14c(%rip),%rsi

3c02:	bf 02 00 00 00	mov	\$0x2,%edi
3c07:	e8 b4 f6 ff ff	callq	32c0 <signal@plt></signal@plt>
3c0c:	48 89 e7	mov	%rsp,%rdi
3c0f:	be 40 00 00 00	mov	\$0x40,%esi
3c14:	e8 27 f7 ff ff	callq	3340 <gethostname@plt></gethostname@plt>
3c19:	85 c0	test	%eax,%eax
3c1b:	0f 85 9b 00 00 00	jne	3cbc <initialize_bomb+0xf6></initialize_bomb+0xf6>
3c21:	48 8b 3d 58 46 00 00	mov	0x4658(%rip),%rdi  # 8280 <host_table></host_table>
3c28:	48 8d 1d 59 46 00 00	lea	0x4659(%rip),%rbx # 8288
<host_table< td=""><td>+0x8&gt;</td><td></td><td></td></host_table<>	+0x8>		
3c2f:	48 89 e5	mov	%rsp,%rbp
3c32:	48 85 ff	test	%rdi,%rdi
3c35:	74 1d	je	3c54 <initialize_bomb+0x8e></initialize_bomb+0x8e>
3c37:	48 89 ee	mov	%rbp,%rsi
3c3a:	e8 e1 f5 ff ff	callq	3220 <strcasecmp@plt></strcasecmp@plt>
3c3f:	85 c0	test	%eax, %eax
3c41:	0f 84 b0 00 00 00	je	<pre>3cf7 <initialize_bomb+0x131></initialize_bomb+0x131></pre>
3c47:	48 83 c3 08	add	\$0x8,%rbx
3c4b:	48 8b 7b f8	mov	-0x8(%rbx),%rdi
3c4f:	48 85 ff	test	%rdi,%rdi
3c52:	75 e3	jne	3c37 <initialize_bomb+0x71></initialize_bomb+0x71>
3c54:	48 89 e2	mov	%rsp,%rdx
3c57:	48 8d 35 32 16 00 00	lea	0x1632(%rip),%rsi # 5290
<array.3481< td=""><td>+0xb0&gt;</td><td></td><td></td></array.3481<>	+0xb0>		
3c5e:	bf 01 00 00 00	mov	\$0x1,%edi
3c63:	b8 00 00 00 00	mov	\$0x0,%eax
3c68:	e8 b3 f6 ff ff	callq	3320 <printf_chk@plt></printf_chk@plt>
3c6d:		lea	0x180b(%rip),%rdi # 547f
<array.3481< td=""><td></td><td></td><td></td></array.3481<>			
3c74:	e8 d7 f5 ff ff	callq	3250 <puts@plt></puts@plt>
3c79:	48 8b 15 00 46 00 00	mov	0x4600(%rip),%rdx # 8280 <host_table></host_table>
3c80:	48 8d 1d 01 46 00 00	lea	0x4601(%rip),%rbx # 8288
<host_table< td=""><td>+0x8&gt;</td><td></td><td></td></host_table<>	+0x8>		

3c87:	48 8d	2 d	d1	17	00	00	lea	0x17d1(%rip),%rbp	# 545f
<array.3481 3c8e:<="" td=""><td></td><td>42</td><td></td><td></td><td></td><td></td><td>test</td><td>%rdx,%rdx</td><td></td></array.3481>		42					test	%rdx,%rdx	
									>
3c91:							je	3cb2 <initialize_bomb+0xe< td=""><td>ec&gt;</td></initialize_bomb+0xe<>	ec>
3c93:							mov	%rbp,%rsi	
3c96:	bf 01	0.0	00	00			mov	\$0x1,%edi	
3c9b:	b8 00	00	00	00			mov	\$0x0,%eax	
3ca0:	e8 7b	f6	ff	ff			callq	3320 <printf_chk@plt></printf_chk@plt>	
3ca5:	48 83	с3	08				add	\$0x8,%rbx	
3ca9:	48 8b	53	f8				mov	-0x8(%rbx),%rdx	
3cad:	48 85	d2					test	%rdx,%rdx	
3cb0:	75 e1						jne	3c93 <initialize_bomb+0xc< td=""><td>cd&gt;</td></initialize_bomb+0xc<>	cd>
3cb2:	bf 08	00	00	00			mov	\$0x8,%edi	
3cb7:	e8 94	f6	ff	ff			callq	3350 <exit@plt></exit@plt>	
3cbc:	48 8d	3 d	95	15	00	00	lea	0x1595(%rip),%rdi	# 5258
<array.3481< td=""><td>+0x78&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></array.3481<>	+0x78>								
3cc3:	e8 88	f5	ff	ff			callq	3250 <puts@plt></puts@plt>	
3cc8:	bf 08	00	00	00			mov	\$0x8,%edi	
3ccd:	e8 7e	f6	ff	ff			callq	3350 <exit@plt></exit@plt>	
3cd2:	48 8d	54	24	40			lea	0x40(%rsp),%rdx	
3cd7:	48 8d	35	87	17	00	00	lea	0x1787(%rip),%rsi	# 5465
<array.3481+0x285></array.3481+0x285>									
3cde:	bf 01	00	00	00			mov	\$0x1,%edi	
3ce3:	b8 00	00	00	00			mov	\$0x0,%eax	
3ce8:	e8 33	f6	ff	ff			callq	3320 <printf_chk@plt></printf_chk@plt>	
3ced:	bf 08	00	00	00			mov	\$0x8,%edi	
3cf2:	e8 59	f6	ff	ff			callq	3350 <exit@plt></exit@plt>	
3cf7:	48 8d	7c	24	40			lea	0x40(%rsp),%rdi	
3cfc:	e8 ea	0e	00	00			callq	4beb <init_driver></init_driver>	
3d01:	85 c0						test	%eax, %eax	
3d03:	78 cd	l					js	3cd2 <initialize_bomb+0x3< td=""><td>10c&gt;</td></initialize_bomb+0x3<>	10c>
3d05:	48 8b	84	24	48	20	00	mov	0x2048(%rsp),%rax	
3d0c:	00								

3d0d:	64	48	33	04	25	28	00	xor	%fs:0	x28,%rax
3d14:	00	00								
3d16:	75	0a						jne	3d22	<pre><initialize_bomb+0x15c></initialize_bomb+0x15c></pre>
3d18:	48	81	с4	58	20	00	00	add	\$0x20	58,%rsp
3d1f:	5b							pop	%rbx	
3d20:	5d							pop	%rbp	
3d21:	с3							retq		

3d22: e8 49 f5 ff ff callq 3270 <\_\_stack\_chk\_fail@plt>

## 0000000000003d27 <initialize\_bomb\_solve>:

3d27: f3 Of le fa endbr64
3d2b: c3 retq

### 0000000000003d2c <blank\_line>:

3d2c:	f	3	0f	1e	fa		endbr64	1
3d30:	5	5					push	%rbp
3d31:	5	3					push	%rbx
3d32:	4	8	83	ес	08		sub	\$0x8,%rsp
3d36:	4	8	89	fd			mov	%rdi,%rbp
3d39:	0	f	b6	5d	00		movzbl	0x0(%rbp),%ebx
3d3d:	8	4	db				test	%bl,%bl
3d3f:	7	4	1e				je	3d5f <blank_line+0x33></blank_line+0x33>
3d41:	е	8	4a	f6	ff	ff	callq	3390 <ctype_b_loc@plt></ctype_b_loc@plt>
3d46:	4	8	83	с5	01		add	\$0x1,%rbp
3d4a:	4	8	0f	be	db		movsbq	%bl,%rbx
3d4e:	4	8	8b	00			mov	(%rax),%rax
3d51:	f	6	44	58	01	20	testb	\$0x20,0x1(%rax,%rbx,2)
3d56:	7	5	e1				jne	3d39 <blank_line+0xd></blank_line+0xd>
3d58:	b	8	00	00	00	00	mov	\$0x0,%eax
3d5d:	е	b	05				jmp	3d64 <blank_line+0x38></blank_line+0x38>
3d5f:	b	8	01	00	00	00	mov	\$0x1,%eax

3d64: 48 83 c4 08 add \$0x8,%rsp

3d68: 5b pop %rbx 3d69: 5d pop %rbp

3d6a: c3 retq

### 0000000000003d6b <skip>:

3d6b: f3 Of le fa endbr64

3d6f: 55 push %rbp

3d70: 53 push %rbx

3d71: 48 83 ec 08 sub \$0x8,%rsp

3d75: 48 8d 2d 44 55 00 00 lea 0x5544(%rip),%rbp # 92c0

<input strings>

3d7c: 48 63 05 29 55 00 00 movslq 0x5529(%rip),%rax # 92ac

<num input strings>

3d83: 48 8d 3c 80 lea (%rax,%rax,4),%rdi

3d87: 48 c1 e7 04 shl \$0x4,%rdi

3d8b: 48 01 ef add %rbp,%rdi

3d8e: 48 8b 15 1b 55 00 00 mov 0x551b(%rip),%rdx # 92b0 <infile>

3d95: be 50 00 00 00 mov \$0x50,%esi

3d9a: e8 11 f5 ff ff callq 32b0 <fgets@plt>

3d9f: 48 89 c3 mov %rax,%rbx 3da2: 48 85 c0 test %rax,%rax

3da5: 74 0c je 3db3 <skip+0x48>

3da7: 48 89 c7 mov %rax,%rdi

3daa: e8 7d ff ff ff callq 3d2c <blank\_line>

3daf: 85 c0 test %eax, %eax

3db1: 75 c9 jne 3d7c <skip+0x11>

3db3: 48 89 d8 mov %rbx,%rax 3db6: 48 83 c4 08 add \$0x8,%rsp

3dba: 5b pop %rbx

3dbb: 5d pop %rbp

3dbc: c3 retq

# 0000000000003dbd <send\_msg>:

	3dbd:	f3	0f	1e	fa				endbr64		
	3dc1:	53							push	%rbx	
	3dc2:	4c	8d	9с	24	00	с0	ff	lea	-0x4000(%rsp),%r11	
	3dc9:	ff									
	3dca:	48	81	ес	00	10	00	00	sub	\$0x1000,%rsp	
	3dd1:	48	83	0c	24	00			orq	\$0x0,(%rsp)	
	3dd6:	4c	39	dc					cmp	%r11,%rsp	
	3dd9:	75	ef						jne	3dca <send_msg+0xd></send_msg+0xd>	
	3ddb:	48	83	ес	10				sub	\$0x10,%rsp	
	3ddf:	64	48	8b	04	25	28	00	mov	%fs:0x28,%rax	
	3de6:	00	00								
	3de8:	48	89	84	24	08	40	00	mov	%rax,0x4008(%rsp)	
	3def:	00									
	3df0:	31	с0						xor	%eax, %eax	
	3df2:	8b	15	b4	54	00	00		mov	0x54b4(%rip),%edx	# 92ac
<n< td=""><td>um_input_st</td><td>rin</td><td>gs&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></n<>	um_input_st	rin	gs>								
	3df8:	8d	42	ff					lea	-0x1(%rdx),%eax	
	3dfb:	48	98						cltq		
	3dfd:	48	8d	04	80				lea	(%rax,%rax,4),%rax	
	3e01:	48	с1	e0	04				shl	\$0x4,%rax	
	3e05:	48	8d	0d	b4	54	00	00	lea	0x54b4(%rip),%rcx	# 92c0
<i:< td=""><td>nput_string</td><td>s&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></i:<>	nput_string	s>									
	3e0c:	48	01	с8					add	%rcx,%rax	
	3e0f:	85	ff						test	%edi,%edi	
	3e11:	4c	8d	0d	83	16	00	00	lea	0x1683(%rip),%r9	# 549b
<a< td=""><td>rray.3481+0</td><td>x2b</td><td>b&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></a<>	rray.3481+0	x2b	b>								
	3e18:			0d	84	16	00	00	lea	0x1684(%rip),%rcx	# 54a3
<a.< td=""><td>rray.3481+0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></a.<>	rray.3481+0										
	3e1f:	4c	0f	44	С9				cmove	%rcx,%r9	
	3e23:	48	89	е3					mov	%rsp,%rbx	
	3e26:	50							push	%rax	

3e27:	52	push	%rdx	
3e28:	44 8b 05 15 43 00 0	00 mov	0x4315(%rip),%r8d	# 8144 <bomb_id></bomb_id>
3e2f:	48 8d 0d 76 16 00 0	00 lea	0x1676(%rip),%rcx	# 54ac
<array.3481< td=""><td>+0x2cc&gt;</td><td></td><td></td><td></td></array.3481<>	+0x2cc>			
3e36:	ba 00 20 00 00	mov	\$0x2000, %edx	
3e3b:	be 01 00 00 00	mov	\$0x1,%esi	
3e40:	48 89 df	mov	%rbx,%rdi	
3e43:	b8 00 00 00 00	mov	\$0x0,%eax	
3e48:	e8 53 f5 ff ff	callq	33a0 <sprintf_chk@plt></sprintf_chk@plt>	
3e4d:	4c 8d 84 24 10 20 0	00 lea	0x2010(%rsp),%r8	
3e54:	00			
3e55:	b9 00 00 00 00	mov	\$0x0,%ecx	
3e5a:	48 89 da	mov	%rbx,%rdx	
3e5d:	48 8d 35 bc 42 00 0	00 lea	0x42bc(%rip),%rsi	# 8120
<user_passwo< td=""><td>ord&gt;</td><td></td><td></td><td></td></user_passwo<>	ord>			
3e64:	48 8d 3d cd 42 00 0	00 lea	0x42cd(%rip),%rdi	# 8138 <userid></userid>
3e6b:	e8 70 Of 00 00	callq	4de0 <driver_post></driver_post>	
3e70:	48 83 c4 10	add	\$0x10,%rsp	
3e74:	85 c0	test	%eax, %eax	
3e76:	78 1c	js	3e94 <send_msg+0xd7></send_msg+0xd7>	
3e78:	48 8b 84 24 08 40 0	00 mov	0x4008(%rsp),%rax	
3e7f:	00			
3e80:	64 48 33 04 25 28 0	00 xor	%fs:0x28,%rax	
3e87:	00 00			
3e89:	75 20	jne	<pre>3eab <send_msg+0xee></send_msg+0xee></pre>	
3e8b:	48 81 c4 10 40 00 0	0 add	\$0x4010,%rsp	
3e92:	5b	pop	%rbx	
3e93:	c3	retq		
3e94:	48 8d bc 24 00 20 0	00 lea	0x2000(%rsp),%rdi	
3e9b:	00			
3e9c:	e8 af f3 ff ff	callq	3250 <puts@plt></puts@plt>	
3ea1:	bf 00 00 00 00	mov	\$0x0,%edi	
3ea6:	e8 a5 f4 ff ff	callq	3350 <exit@plt></exit@plt>	

endbr64

#### 0000000000003eb0 <explode bomb>:

3eb0: f3 Of 1e fa

3eb4: 50 push %rax

3eb5: 58 pop %rax

3eb6: 48 83 ec 08 sub \$0x8, %rsp

3eba: 48 8d 3d f7 15 00 00 lea 0x15f7(%rip), %rdi # 54b8

<array.3481+0x2d8>
3ec1: e8 8a f3 ff ff callq 3250 <puts@plt>
3ec6: 48 8d 3d f4 15 00 00 lea 0x15f4(%rip), %rdi # 54c1

3ec6: 48 8d 3d 14 15 00 00 lea 0x1514(%rip),%rdi # 54c

<array.3481+0x2e1>

3ecd: e8 7e f3 ff ff callq 3250  $\langle puts@plt \rangle$ 

3ed2: bf 00 00 00 00 mov \$0x0,%edi

3ed7: e8 e1 fe ff ff callq 3dbd <send\_msg>

3edc: 48 8d 3d dd 13 00 00 lea 0x13dd(%rip),%rdi # 52c0

<array.3481+0xe0>

3ee3: e8 68 f3 ff ff callq 3250 <puts@plt>

3ee8: bf 08 00 00 00 mov \$0x8,%edi

3eed: e8 5e f4 ff ff callq 3350 <exit@plt>

## 0000000000003ef2 <read\_six\_numbers>:

3ef2:	f3 Of 1e fa	endbr6	4
3ef6:	48 83 ec 08	sub	\$0x8,%rsp
3efa:	48 89 f2	mov	%rsi,%rdx
3efd:	48 8d 4e 04	lea	0x4(%rsi),%rcx
3f01:	48 8d 46 14	lea	0x14(%rsi),%rax
3f05:	50	push	%rax
3f06:	48 8d 46 10	lea	0x10(%rsi),%rax
3f0a:	50	push	%rax
3f0b:	4c 8d 4e 0c	lea	0xc(%rsi),%r9
3f0f:	4c 8d 46 08	lea	0x8(%rsi),%r8

3f13:	48 8d 35 be 15 00 00	lea
<array.3481< td=""><td>+0x2f8&gt;</td><td></td></array.3481<>	+0x2f8>	
3f1a:	b8 00 00 00 00	mov \$0x0,%eax
3f1f:	e8 ec f3 ff ff	callq 3310 <isoc99_sscanf@plt></isoc99_sscanf@plt>
3f24:	48 83 c4 10	add \$0x10,%rsp
3f28:	83 f8 05	cmp \$0x5,%eax
3f2b:	7e 05	<pre>jle 3f32 <read_six_numbers+0x40></read_six_numbers+0x40></pre>
3f2d:	48 83 c4 08	add \$0x8,%rsp
3f31:	c3	retq
3f32:	e8 79 ff ff ff	callq 3eb0 <explode_bomb></explode_bomb>
000000000000	03f37 <read line="">:</read>	
3f37:	- f3 Of 1e fa	endbr64
3f3b:	48 83 ec 08	sub \$0x8,%rsp
3f3f:	b8 00 00 00 00	mov \$0x0,%eax
3f44:	e8 22 fe ff ff	callq 3d6b <skip></skip>
3f49:	48 85 c0	test %rax,%rax
3f4c:	74 6f	je 3fbd <read_line+0x86></read_line+0x86>
3f4e:	8b 35 58 53 00 00	mov 0x5358(%rip),%esi # 92ac
<num_input_s< td=""><td>strings&gt;</td><td></td></num_input_s<>	strings>	
3f54:	48 63 c6	movslq %esi, %rax
3f57:	48 8d 14 80	lea (%rax,%rax,4),%rdx
3f5b:	48 c1 e2 04	shl \$0x4,%rdx
3f5f:	48 8d 05 5a 53 00 00	lea 0x535a(%rip),%rax # 92c0
<pre><input_stri 3f66:<="" pre=""></input_stri></pre>	ngs> 48 01 c2	add %rax,%rdx
3f69:	48 c7 c1 ff ff ff ff	mov \$0xffffffffffffff,%rcx
3f70:	b8 00 00 00 00	mov \$0x0,%eax
3f75:	48 89 d7	mov %rdx,%rdi
3f78:	f2 ae	
		repnz scas %es:(%rdi),%al
3f7a:	48 f7 d1	not %rcx
3f7d:	48 83 e9 01	sub \$0x1,%rcx
3f81:	83 f9 4e	cmp \$0x4e, %ecx

3f84:	Of 8f ab 00 00 00	jg	4035 <read_line+0xfe></read_line+0xfe>	
3f8a:	83 e9 01	sub	\$0x1,%ecx	
3f8d:	48 63 c9	movslq	%ecx,%rcx	
3f90:	48 63 c6	movslq	%esi,%rax	
3f93:	48 8d 04 80	lea	(%rax,%rax,4),%rax	
3f97:	48 c1 e0 04	shl	\$0x4,%rax	
3f9b:	48 89 c7	mov	%rax,%rdi	
3f9e:	48 8d 05 1b 53 00 00	lea	0x531b(%rip),%rax	# 92c0
<input string<="" td=""/> <td>gs&gt;</td> <td></td> <td></td> <td></td>	gs>			
3fa5:	48 01 f8	add	%rdi,%rax	
3fa8:	c6 04 08 00	movb	\$0x0,(%rax,%rcx,1)	
3fac:	83 c6 01	add	\$0x1,%esi	
3faf:	89 35 f7 52 00 00	mov	%esi,0x52f7(%rip)	# 92ac
<num_input_s< td=""><td>trings&gt;</td><td></td><td></td><td></td></num_input_s<>	trings>			
3fb5:	48 89 d0	mov	%rdx,%rax	
3fb8:	48 83 c4 08	add	\$0x8,%rsp	
3fbc:	c3	retq		
	48 8b 05 cc 52 00 00	mov	0x52cc(%rip),%rax	# 9290
<stdin@@glib< td=""><td>C_2.2.5&gt;</td><td></td><td></td><td></td></stdin@@glib<>	C_2.2.5>			
3fc4:	48 39 05 e5 52 00 00	cmp	%rax,0x52e5(%rip)	# 92b0 <infile></infile>
3fcb:	74 1b	je	3fe8 <read_line+0xb1></read_line+0xb1>	
3fcd:	48 8d 3d 34 15 00 00	lea	0x1534(%rip),%rdi	# 5508
<array.3481+< td=""><td>0x328&gt;</td><td></td><td></td><td></td></array.3481+<>	0x328>			
3fd4:	e8 27 f2 ff ff	callq	3200 <getenv@plt></getenv@plt>	
3fd9:	48 85 c0	test	%rax,%rax	
3fdc:	74 20	je	<pre>3ffe <read_line+0xc7></read_line+0xc7></pre>	
3fde:	bf 00 00 00 00	mov	\$0x0,%edi	
3fe3:	e8 68 f3 ff ff	callq	3350 <exit@plt></exit@plt>	
3fe8:	48 8d 3d fb 14 00 00	lea	0x14fb(%rip),%rdi	# 54ea
<array.3481+< td=""><td>0x30a&gt;</td><td></td><td></td><td></td></array.3481+<>	0x30a>			
3fef:	e8 5c f2 ff ff	callq	3250 <puts@plt></puts@plt>	
3ff4:	bf 08 00 00 00	mov	\$0x8,%edi	
3ff9:	e8 52 f3 ff ff	callq	3350 <exit@plt></exit@plt>	
3ffe:	48 8b 05 8b 52 00 00	mov	0x528b(%rip),%rax	# 9290
<stdin@@glib< td=""><td>C_Z.2.5&gt;</td><td></td><td></td><td></td></stdin@@glib<>	C_Z.2.5>			

4005:	48 89 05	a4 52 00 00	mov	%rax,0x52a4(%rip)	# 92b0 <infile></infile>
400c:	b8 00 00	00 00	mov	\$0x0,%eax	
4011:	e8 55 fd	l ff ff	callq	3d6b <skip></skip>	
4016:	48 85 c0	)	test	%rax,%rax	
4019:	Of 85 2f	ff ff ff	jne	3f4e <read_line+0x17></read_line+0x17>	
401f:	48 8d 3d	l c4 14 00 00	lea	0x14c4(%rip),%rdi	# 54ea
<array.3481+< td=""><td>·0x30a&gt;</td><td></td><td></td><td></td><td></td></array.3481+<>	·0x30a>				
4026:		ff ff	callq	3250 <puts@plt></puts@plt>	
402b:	bf 00 00	00 00	mov	\$0x0,%edi	
4030:	e8 1b f3	ff ff	callq	3350 <exit@plt></exit@plt>	
4035:	48 8d 3d	l d7 14 00 00	lea	0x14d7(%rip),%rdi	# 5513
<array.3481+< td=""><td>·0x333&gt;</td><td></td><td></td><td></td><td></td></array.3481+<>	·0x333>				
403c:		ff ff	callq	3250 <puts@plt></puts@plt>	
4041:	8b 05 65	52 00 00	mov	0x5265(%rip),%eax	# 92ac
<num_input_s< td=""><td>trings&gt;</td><td></td><td></td><td></td><td></td></num_input_s<>	trings>				
4047:	8d 50 01		lea	0x1(%rax),%edx	
404a:		: 52 00 00	mov	%edx,0x525c(%rip)	# 92ac
<num_input_s< td=""><td>trings&gt;</td><td></td><td></td><td></td><td></td></num_input_s<>	trings>				
4050:	48 98		cltq		
4052:	48 6b c0	50	imul	\$0x50,%rax,%rax	
4056:		63 52 00 00	lea	0x5263(%rip),%rdx	# 92c0
<pre><input_strin< pre=""></input_strin<></pre>	igs>				
405d:	48 be 2a	2a 2a 74 72	movabs	\$0x636e7572742a2a2a,%rsi	
4064:	75 6e 63	3			
4067:	48 bf 61	74 65 64 2a	movabs	\$0x2a2a2a64657461,%rdi	
406e:	2a 2a 00				
4071:	48 89 34	02	mov	%rsi,(%rdx,%rax,1)	
4075:	48 89 7c	: 02 08	mov	%rdi,0x8(%rdx,%rax,1)	
407a:	e8 31 fe	e ff ff	callq	<pre>3eb0 <explode_bomb></explode_bomb></pre>	

## 000000000000407f <phase\_defused>:

407f:	f3 Of le fa	endbr64
4083:	48 81 ec b8 00 00 00	sub \$0xb8,%rsp
408a:	64 48 8b 04 25 28 00	mov %fs:0x28,%rax

	4091:	00	00								
	4093:	48	89	84	24	a8	00	00	mov	%rax,0xa8(%rsp)	
	409a:	00									
	409b:	31	c0						xor	%eax,%eax	
	409d:	bf	01	00	00	00			mov	\$0x1,%edi	
	40a2:	e8	16	fd	ff	ff			callq	3dbd <send_msg></send_msg>	
	40a7:	83	3d	fe	51	00	00	06	cmpl	\$0x6,0x51fe(%rip)	# 92ac
<1	num_input_st	trin	ıgs>								
	40ae:	74							je	40cf <phase_defused+0x50></phase_defused+0x50>	•
	40b0:	48	8b	84	24	a8	00	00	mov	0xa8(%rsp),%rax	
	40b7:	00									
	40b8:	64	48	33	04	25	28	00	xor	%fs:0x28,%rax	
	40bf:	00	00								
	40c1:	0f	85	58	01	00	00		jne	421f <phase_defused+0x1a0< td=""><td>)&gt;</td></phase_defused+0x1a0<>	)>
	40c7:	48	81	с4	b8	00	00	00	add	\$0xb8,%rsp	
	40ce:	сЗ							retq		
	40cf:	48	8d	4c	24	30			lea	0x30(%rsp),%rcx	
	40d4:	48	8d	54	24	10			lea	0x10(%rsp),%rdx	
	40d9:	4c	8d	44	24	50			lea	0x50(%rsp),%r8	
	40de:		8d	35	49	14	00	00	lea	0x1449(%rip),%rsi	# 552e
< 8	array.3481+0	0x34	e>								
	40e5:	48	8d	3d	14	53	00	00	lea	0x5314(%rip),%rdi	# 9400
<:	input_string	gs+O	x14	0>							
	40ec:	b8	00	00	00	00			mov	\$0x0,%eax	
	40f1:	e8	1a	f2	ff	ff			callq	3310 <isoc99_sscanf@plt< td=""><td>:&gt;</td></isoc99_sscanf@plt<>	:>
	40f6:	83	f8	03					cmp	\$0x3, %eax	
	40f9:	0f	84	e0	00	00	00		je	41df <phase_defused+0x160< td=""><td>)&gt;</td></phase_defused+0x160<>	)>
	40ff:			3d	4a	12	00	00	lea	0x124a(%rip),%rdi	# 5350
< ?	array.3481+0										
	4106:								callq	3250 <puts@plt></puts@plt>	
		48		3d	6e	12	00	00	lea	0x126e(%rip),%rdi	# 5380
< ?	array.3481+0	)x1a	0>								
	4112:	e8	39	f1	ff	ff			callq	3250 <puts@plt></puts@plt>	
	4117:	48	8d	4c	24	0c			lea	0xc(%rsp),%rcx	

411c:	48 8d 54 24 08	lea 0x8(%rsp),%rdx	
4121:	4c 8d 44 24 50	lea 0x50(%rsp),%r8	
4126:	48 8d 35 20 14 00 00	lea 0x1420(%rip),%rs.	i # 554d
<array.3481< td=""><td>+0x36d&gt;</td><td></td><td></td></array.3481<>	+0x36d>		
412d:	48 8d 3d 7c 52 00 00	lea 0x527c(%rip),%rd	i # 93b0
<pre><input_stri< pre=""></input_stri<></pre>	ngs+0xf0>		
4134:	ъ8 00 00 00 00	mov \$0x0,%eax	
4139:	e8 d2 f1 ff ff	callq 3310 <isoc99_s< td=""><td>scanf@plt&gt;</td></isoc99_s<>	scanf@plt>
413e:	83 f8 03	cmp	
4141:	Of 85 69 ff ff ff	jne 40b0 <phase_defu< td=""><td>sed+0x31&gt;</td></phase_defu<>	sed+0x31>
4147:	48 8d 7c 24 50	lea 0x50(%rsp),%rdi	
414c:	48 8d 35 03 14 00 00	lea 0x1403(%rip),%rs	i # 5556
<array.3481< td=""><td>+0x376&gt;</td><td></td><td></td></array.3481<>	+0x376>		
4153:	e8 Oe fa ff ff	callq 3b66 <strings_no< td=""><td>t_equal&gt;</td></strings_no<>	t_equal>
4158:	85 c0	test %eax,%eax	
415a:	0f 85 50 ff ff ff	jne 40b0 <phase_defu< td=""><td>sed+0x31&gt;</td></phase_defu<>	sed+0x31>
4160:	48 8d 3d 1b 14 00 00	lea 0x141b(%rip),%rd	i # 5582
<array.3481< td=""><td></td><td></td><td></td></array.3481<>			
4167:	e8 e4 f0 ff ff	callq 3250 <puts@plt></puts@plt>	
416c:	bf 02 00 00 00	mov \$0x2,%edi	
4171:	e8 0a f2 ff ff	callq 3380 <sleep@plt></sleep@plt>	
4176:	48 8d 3d e0 13 00 00	lea 0x13e0(%rip),%rd	i # 555d
<array.3481< td=""><td>+0x37d&gt;</td><td></td><td></td></array.3481<>	+0x37d>		
417d:	e8 ce f0 ff ff	callq 3250 <puts@plt></puts@plt>	
4182:	bf 03 00 00 00	mov \$0x3,%edi	
4187:	e8 f4 f1 ff ff	callq 3380 <sleep@plt></sleep@plt>	
418c:		lea 0x13dd(%rip),%rd	i # 5570
<array.3481< td=""><td></td><td></td><td></td></array.3481<>			
4193:	e8 b8 f0 ff ff	callq 3250 <puts@plt></puts@plt>	
4198:	bf 04 00 00 00	mov \$0x4,%edi	
419d:	e8 de f1 ff ff	callq 3380 <sleep@plt></sleep@plt>	
41a2:	48 8d 3d dd 13 00 00	lea 0x13dd(%rip),%rd	i # 5586
<array.3481< td=""><td>+0x3a6&gt;</td><td></td><td></td></array.3481<>	+0x3a6>		
41a9:	e8 a2 f0 ff ff	callq 3250 <puts@plt></puts@plt>	
41ae:	bf 05 00 00 00	mov \$0x5,%edi	
41b3:	e8 c8 f1 ff ff	callq 3380 <sleep@plt></sleep@plt>	

41b8:	48 8d 3d 09 12 00 00	lea 0x1209(%rip),%rdi # 53c8	
<array.3481+< td=""><td>+0x1e8&gt;</td><td></td><td></td></array.3481+<>	+0x1e8>		
41bf:	e8 8c f0 ff ff	callq 3250 <puts@plt></puts@plt>	
41c4:	bf 05 00 00 00	mov \$0x5,%edi	
41c9:	e8 b2 f1 ff ff	callq 3380 <sleep@plt></sleep@plt>	
41ce:		lea 0x122b(%rip),%rdi # 5400	
<array.3481+< td=""><td></td><td></td><td></td></array.3481+<>			
41d5:		callq 3250 <puts@plt></puts@plt>	
41da:	e9 d1 fe ff ff	<pre>jmpq 40b0 <phase_defused+0x31></phase_defused+0x31></pre>	
41df:	48 8d 7c 24 50	lea 0x50(%rsp),%rdi	
41e4:		lea 0x134c(%rip),%rsi # 5537	
<array.3481+< td=""><td></td><td></td><td></td></array.3481+<>			
41eb:	e8 76 f9 ff ff	callq 3b66 <strings_not_equal></strings_not_equal>	
41f0:		test %eax, %eax	
41f2:	0f 85 07 ff ff ff	jne 40ff <phase_defused+0x80></phase_defused+0x80>	
41f8: <array.3481+< td=""><td></td><td>lea 0x10e9(%rip),%rdi # 52e8</td><td></td></array.3481+<>		lea 0x10e9(%rip),%rdi # 52e8	
_		11 2050 ( ) 0 110	
41ff:		callq 3250 <puts@plt></puts@plt>	
4204:		lea 0x110d(%rip),%rdi # 5318	
<array.3481+< td=""><td></td><td></td><td></td></array.3481+<>			
420b:		callq 3250 <puts@plt></puts@plt>	
4210:	b8 00 00 00 00	mov \$0x0,%eax	
4215:	e8 3f f8 ff ff	callq 3a59 <secret_phase></secret_phase>	
421a:	e9 e0 fe ff ff	<pre>jmpq 40ff <phase_defused+0x80></phase_defused+0x80></pre>	
421f:	e8 4c f0 ff ff	callq 3270 <stack_chk_fail@plt></stack_chk_fail@plt>	
000000000000000000000000000000000000000	04224 <sigalrm handler="">:</sigalrm>		
4224:	f3 Of 1e fa	endbr64	
4228:	50	push %rax	
4229:	58	pop %rax	
422a:	48 83 ec 08	sub \$0x8,%rsp	
422e:	b9 00 00 00 00	mov \$0x0,%ecx	
4233:	48 8d 15 96 20 00 00	lea 0x2096(%rip),%rdx # 62d0	
<array.3481+< td=""><td>+0x10f0&gt;</td><td></td><td></td></array.3481+<>	+0x10f0>		
423a:	be 01 00 00 00	mov \$0x1,%esi	

	423f:	48 8b 3d 5a 50 00 00	mov	0x505a(%rip),%rdi # 92a0
<	stderr@@GLI	_		
	4246:	b8 00 00 00 00	mov	\$0x0,%eax
	424b:	e8 20 f1 ff ff	callq	3370 <fprintf_chk@plt></fprintf_chk@plt>
	4250:	bf 01 00 00 00	mov	\$0x1,%edi
	4255:	e8 f6 f0 ff ff	callq	3350 <exit@plt></exit@plt>
0	000000000000	425a <rio_readlineb>:</rio_readlineb>		
	425a:	41 56	push	%r14
	425c:	41 55	push	%r13
	425e:	41 54	push	%r12
	4260:	55	push	%rbp
	4261:	53	push	%rbx
	4262:	48 89 f5	mov	%rsi,%rbp
	4265:	48 83 fa 01	cmp	\$0x1,%rdx
	4269:	Of 86 90 00 00 00	jbe	42ff <rio_readlineb+0xa5></rio_readlineb+0xa5>
	426f:	48 89 fb	mov	%rdi,%rbx
	4272:	4c 8d 74 16 ff	lea	-0x1(%rsi,%rdx,1),%r14
	4277:	41 bd 01 00 00 00	mov	\$0x1,%r13d
	427d:	4c 8d 67 10	lea	0x10(%rdi),%r12
	4281:	eb 54	jmp	42d7 <rio_readlineb+0x7d></rio_readlineb+0x7d>
	4283:	e8 a8 ef ff ff	callq	3230 <errno_location@plt></errno_location@plt>
	4288:	83 38 04	cmpl	\$0x4,(%rax)
	428b:	75 53	jne	42e0 <rio_readlineb+0x86></rio_readlineb+0x86>
	428d:	ba 00 20 00 00	mov	\$0x2000, %edx
	4292:	4c 89 e6	mov	%r12,%rsi
	4295:	8b 3b	mov	(%rbx),%edi
	4297:	e8 04 f0 ff ff	callq	32a0 <read@plt></read@plt>
	429c:	89 c2	mov	%eax, %edx
	429e:	89 43 04	mov	%eax,0x4(%rbx)
	42a1:	85 c0	test	%eax, %eax
	42a3:	78 de	js	4283 <rio_readlineb+0x29></rio_readlineb+0x29>

42a7:         74 40         je         42e9 < rio_readlineb+0x8f>           42a9:         4c 89 63 08         mov         %r12,0x8(%rbx)           42ad:         48 8b 43 08         mov         0x8(%rbx),%rax           42b1:         0f b6 08         movxbl (%rax),%ecx           42b4:         48 83 c0 01         add         \$0x1,%rax           42b8:         48 89 43 08         mov         %rax,0x8(%rbx)           42bc:         83 ea 01         sub         \$0x1,%edx           42bf:         89 53 04         mov         %edx,0x4(%rbx)           42c2:         48 83 c5 01         add         \$0x1,%rbp           42c6:         88 4d ff         mov         %cl,-0x1(%rbp)           42c9:         80 f9 0a         cmp         \$0xa,%cl           42c9:         43 c         je         430a <rio_readlineb+0xb0>           42ce:         74 3c         je         430a <rio_readlineb+0xad>           42d1:         85 c5 01         add         \$0x1,%r13d           42d2:         4c 39 f5         mov         0x4(%rbx),%edx           42d3:         7c af         je         4307 <rio_readlineb+0xad>           42d2:         4c 39 f5         mov         0x4(%rbx),%edx<!--</th--><th>42a5:</th><th>85 c0</th><th>test</th><th>%eax, %eax</th></rio_readlineb+0xad></rio_readlineb+0xad></rio_readlineb+0xb0>	42a5:	85 c0	test	%eax, %eax
### ### ### ### ### ### ### ### ### ##	42a7:	74 40	jе	42e9 <rio_readlineb+0x8f></rio_readlineb+0x8f>
42b1:       0f b6 08       movzbl (%rax),%ecx         42b4:       48 83 c0 01       add \$0x1,%rax         42b8:       48 89 43 08       mov %rax,0x8(%rbx)         42bc:       83 ea 01       sub \$0x1,%edx         42bf:       89 53 04       mov %edx,0x4(%rbx)         42c2:       48 83 c5 01       add \$0x1,%rbp         42c6:       88 4d ff       mov %cl,-0xl(%rbp)         42c9:       80 f9 0a       cmp \$0xa,%cl         42ce:       74 3c       je 430a <rio_readlineb+0xb0>         42ce:       41 83 c5 01       add \$0x1,%rl3d         42d2:       4c 39 f5       cmp %rl4,%rbp         42d3:       74 30       je 4307 <rio_readlineb+0xad>         42d4:       85 d2       test %edx,%edx         42da:       85 d2       test %edx,%edx         42da:       7e af       jle 428d <rio_readlineb+0x33>         42e0:       48 c7 c0 ff ff ff ff       mov \$0x1ffffffffffffffffffffffffffffffffffff</rio_readlineb+0x33></rio_readlineb+0xad></rio_readlineb+0xb0>	42a9:	4c 89 63 08	mov	%r12,0x8(%rbx)
42b4:       48 83 c0 01       add       \$0x1, %rax         42b8:       48 89 43 08       mov       %rax,0x8(%rbx)         42bc:       83 ea 01       sub       \$0x1, %edx         42bf:       89 53 04       mov       %edx,0x4(%rbx)         42c2:       48 83 c5 01       add       \$0x1, %rbp         42c6:       88 4d ff       mov       %c1, -0x1(%rbp)         42c9:       80 f9 0a       cmp       \$0xa, %c1         42ce:       41 83 c5 01       add       \$0x1, %r13d         42ce:       41 83 c5 01       add       \$0x1, %r13d         42d2:       4c 39 f5       cmp       %r14, %rbp         42d5:       74 30       je       4307 <rio_readlineb+0xad>         42d7:       8b 53 04       mov       0x4(%rbx), %edx         42da:       85 d2       test       %edx, %edx         42de:       eb cd       jmp       42ad <rio_readlineb+0x33>         42ee:       eb cd       jmp       42ad <rio_readlineb+0x94>         42e7:       eb 05       jmp       42ee <rio_readlineb+0x94>         42e9:       b8 00 00 00 00       mov       \$0x0, %eax         42f1:       b8 00 00 00 00       mov       \$0x0, %</rio_readlineb+0x94></rio_readlineb+0x94></rio_readlineb+0x33></rio_readlineb+0xad>	42ad:	48 8b 43 08	mov	0x8(%rbx),%rax
42b8:       48 89 43 08       mov       %rax,0x8(%rbx)         42bc:       83 ea 01       sub       \$0x1,%edx         42bf:       89 53 04       mov       %edx,0x4(%rbx)         42c2:       48 83 c5 01       add       \$0x1,%rbp         42c6:       88 4d ff       mov       %c1,-0x1(%rbp)         42c9:       80 f9 0a       cmp       \$0xa,%c1         42ce:       41 83 c5 01       add       \$0x1,%r13d         42d2:       4c 39 f5       cmp       %r14,%rbp         42d5:       74 30       je       4307 <rio_readlineb+0xad>         42d7:       8b 53 04       mov       0x4(%rbx),%edx         42da:       85 d2       test       %edx,%edx         42de:       eb cd       jle       428d <rio_readlineb+0x33>         42e0:       48 c7 c0 ff ff ff ff       mov       \$0xffffffffffffffffffffffffffffffffffff</rio_readlineb+0x33></rio_readlineb+0xad>	42b1:	0f b6 08	movzbl	(%rax),%ecx
### ### ##############################	42b4:	48 83 c0 01	add	\$0x1,%rax
42bf:       89 53 04       mov       %edx,0x4(%rbx)         42c2:       48 83 c5 01       add       \$0x1,%rbp         42c6:       88 4d ff       mov       %c1,-0x1(%rbp)         42c9:       80 f9 0a       cmp       \$0xa,%c1         42ce:       41 83 c5 01       add       \$0x1,%r13d         42d2:       4c 39 f5       cmp       %r14,%rbp         42d5:       74 30       je       4307 <rio_readlineb+0xad>         42d7:       8b 53 04       mov       0x4(%rbx),%edx         42da:       85 d2       test       %edx,%edx         42dc:       7e af       jle       428d <rio_readlineb+0x33>         42e0:       48 c7 c0 ff ff ff ff       mov       \$0xffffffffffffffffffffffffffffffffffff</rio_readlineb+0x33></rio_readlineb+0xad>	42b8:	48 89 43 08	mov	%rax,0x8(%rbx)
42c2:       48 83 c5 01       add       \$0x1, %rbp         42c6:       88 4d ff       mov       %c1, -0x1(%rbp)         42c9:       80 f9 0a       cmp       \$0xa, %c1         42cc:       74 3c       je       430a <rio_readlineb+0xb0>         42ce:       41 83 c5 01       add       \$0x1, %r13d         42d2:       4c 39 f5       cmp       %r14, %rbp         42d5:       74 30       je       4307 <rio_readlineb+0xad>         42d7:       8b 53 04       mov       0x4(%rbx), %edx         42da:       85 d2       test       %edx, %edx         42dc:       7e af       jle       428d <rio_readlineb+0x33>         42de:       eb cd       jmp       42ad <rio_readlineb+0x53>         42e0:       48 c7 c0 ff ff ff ff       mov       \$0xffffffffffffffffffffffffffffffffffff</rio_readlineb+0x53></rio_readlineb+0x33></rio_readlineb+0xad></rio_readlineb+0xb0>	42bc:	83 ea 01	sub	\$0x1,%edx
42c6: 88 4d ff mov %cl,-0xl(%rbp) 42c9: 80 f9 0a cmp \$0xa,%cl 42cc: 74 3c je 430a <rio_readlineb+0xb0> 42ce: 41 83 c5 01 add \$0x1,%r13d 42d2: 4c 39 f5 cmp %r14,%rbp 42d5: 74 30 je 4307 <rio_readlineb+0xad> 42cd: 8b 53 04 mov 0x4(%rbx),%edx 42da: 85 d2 test %edx,%edx 42da: 85 d2 jle 428d <rio_readlineb+0x33> 42ce: eb cd jmp 42ad <rio_readlineb+0x53> 42c0: 48 c7 c0 ff ff ff ff mov \$0xffffffffffffffffffffffffffffffffffff</rio_readlineb+0x53></rio_readlineb+0x33></rio_readlineb+0xad></rio_readlineb+0xb0>	42bf:	89 53 04	mov	%edx,0x4(%rbx)
42c9: 80 f9 0a cmp \$0xa,%cl  42cc: 74 3c je 430a <rio_readlineb+0xb0>  42ce: 41 83 c5 01 add \$0x1,%r13d  42d2: 4c 39 f5 cmp %r14,%rbp  42d5: 74 30 je 4307 <rio_readlineb+0xad>  42d7: 8b 53 04 mov 0x4(%rbx),%edx  42da: 85 d2 test %edx,%edx  42dc: 7e af jle 428d <rio_readlineb+0x33>  42e0: 48 c7 c0 ff ff ff ff mov \$0xffffffffffffffffffffffffffffffffffff</rio_readlineb+0x33></rio_readlineb+0xad></rio_readlineb+0xb0>	42c2:	48 83 c5 01	add	\$0x1,%rbp
42cc: 74 3c je 430a <rio_readlineb+0xb0> 42ce: 41 83 c5 01 add \$0x1, %r13d 42d2: 4c 39 f5 cmp %r14, %rbp 42d5: 74 30 je 4307 <rio_readlineb+0xad> 42d7: 8b 53 04 mov 0x4(%rbx), %edx 42da: 85 d2 test %edx, %edx 42dc: 7e af jle 428d <rio_readlineb+0x33> 42e0: 48 c7 c0 ff ff ff ff mov \$0xffffffffffffffffffffffffffffffffffff</rio_readlineb+0x33></rio_readlineb+0xad></rio_readlineb+0xb0>	42c6:	88 4d ff	mov	%cl,-0x1(%rbp)
42ce: 41 83 c5 01 add \$0x1, %r13d  42d2: 4c 39 f5 cmp %r14, %rbp  42d5: 74 30 je 4307 <rio_readlineb+0xad>  42d7: 8b 53 04 mov 0x4(%rbx), %edx  42da: 85 d2 test %edx, %edx  42dc: 7e af jle 428d <rio_readlineb+0x33>  42de: eb cd jmp 42ad <rio_readlineb+0x53>  42e0: 48 c7 c0 ff ff ff ff mov \$0xffffffffffffffffffffffffffffffffffff</rio_readlineb+0x53></rio_readlineb+0x33></rio_readlineb+0xad>	42c9:	80 f9 0a	cmp	\$0xa,%cl
42d2:       4c 39 f5       cmp       %r14,%rbp         42d5:       74 30       je       4307 <rio_readlineb+0xad>         42d7:       8b 53 04       mov       0x4(%rbx),%edx         42da:       85 d2       test       %edx,%edx         42dc:       7e af       jle       428d <rio_readlineb+0x33>         42de:       eb cd       jmp       42ad <rio_readlineb+0x53>         42e0:       48 c7 c0 fff ff ff ff       mov       \$0xfffffffffffffffffffffffffffff,%rax         42e7:       eb 05       jmp       42ee <rio_readlineb+0x94>         42e9:       b8 00 00 00 00       mov       \$0x0,%eax         42f0:       75 28       jne       431a <rio_readlineb+0xc0>         42f1:       b8 00 00 00 00       mov       \$0x0,%eax         42f7:       41 83 fd 01       cmp       \$0x1,%r13d         42fd:       eb 12       jmp       4311 <rio_readlineb+0xb7>         42ff:       41 bd 01 00 00 00       mov       \$0x1,%r13d         4305:       eb 03       jmp       430a <rio_readlineb+0xb0></rio_readlineb+0xb0></rio_readlineb+0xb7></rio_readlineb+0xc0></rio_readlineb+0x94></rio_readlineb+0x53></rio_readlineb+0x33></rio_readlineb+0xad>	42cc:	74 3c	je	430a <rio_readlineb+0xb0></rio_readlineb+0xb0>
42d5: 74 30 je 4307 <rio_readlineb+0xad> 42d7: 8b 53 04 mov 0x4(%rbx),%edx 42da: 85 d2 test %edx,%edx 42dc: 7e af jle 428d <rio_readlineb+0x33> 42de: eb cd jmp 42ad <rio_readlineb+0x53> 42e0: 48 c7 c0 ff ff ff ff mov \$0xffffffffffffffffffffffffffffffffffff</rio_readlineb+0x53></rio_readlineb+0x33></rio_readlineb+0xad>	42ce:	41 83 c5 01	add	\$0x1,%r13d
42d7: 8b 53 04 mov 0x4(%rbx),%edx 42da: 85 d2 test %edx,%edx 42dc: 7e af jle 428d <rio_readlineb+0x33> 42de: eb cd jmp 42ad <rio_readlineb+0x53> 42e0: 48 c7 c0 ff ff ff ff mov \$0xffffffffffffffffffffffffffffffffffff</rio_readlineb+0x53></rio_readlineb+0x33>	42d2:	4c 39 f5	cmp	%r14,%rbp
42da:       85 d2       test       %edx,%edx         42dc:       7e af       jle       428d <rio_readlineb+0x33>         42de:       eb cd       jmp       42ad <rio_readlineb+0x53>         42e0:       48 c7 c0 ff ff ff ff       mov       \$0xffffffffffffffffffffffffffffffffffff</rio_readlineb+0x53></rio_readlineb+0x33>	42d5:	74 30	je	4307 <rio_readlineb+0xad></rio_readlineb+0xad>
42dc:       7e af       jle       428d <rio_readlineb+0x33>         42de:       eb cd       jmp       42ad <rio_readlineb+0x53>         42e0:       48 c7 c0 ff ff ff ff       mov       \$0xffffffffffffffffffffffffffffffffffff</rio_readlineb+0x53></rio_readlineb+0x33>	42d7:	8b 53 04	mov	0x4(%rbx),%edx
42de: eb cd jmp 42ad <rio_readlineb+0x53> 42e0: 48 c7 c0 ff ff ff ff mov \$0xffffffffffffffffffffffffffffffffffff</rio_readlineb+0x53>	42da:	85 d2	test	%edx, %edx
42e0: 48 c7 c0 ff ff ff ff mov \$0xffffffffffffffffffffffffffffffffffff	42dc:	7e af	jle	428d <rio_readlineb+0x33></rio_readlineb+0x33>
42e7:       eb 05       jmp       42ee <rio_readlineb+0x94>         42e9:       b8 00 00 00 00       mov       \$0x0, %eax         42ee:       85 c0       test       %eax, %eax         42f0:       75 28       jne       431a <rio_readlineb+0xc0>         42f2:       b8 00 00 00 00       mov       \$0x0, %eax         42f7:       41 83 fd 01       cmp       \$0x1, %r13d         42fb:       75 0d       jne       430a <rio_readlineb+0xb0>         42fd:       eb 12       jmp       4311 <rio_readlineb+0xb7>         42ff:       41 bd 01 00 00 00       mov       \$0x1, %r13d         4305:       eb 03       jmp       430a <rio_readlineb+0xb0></rio_readlineb+0xb0></rio_readlineb+0xb7></rio_readlineb+0xb0></rio_readlineb+0xc0></rio_readlineb+0x94>	42de:	eb cd	jmp	42ad <rio_readlineb+0x53></rio_readlineb+0x53>
42e9: b8 00 00 00 00 mov \$0x0,%eax  42ee: 85 c0 test %eax,%eax  42f0: 75 28 jne 431a <rio_readlineb+0xc0>  42f2: b8 00 00 00 00 mov \$0x0,%eax  42f7: 41 83 fd 01 cmp \$0x1,%r13d  42fb: 75 0d jne 430a <rio_readlineb+0xb0>  42fd: eb 12 jmp 4311 <rio_readlineb+0xb7>  42ff: 41 bd 01 00 00 00 mov \$0x1,%r13d  4305: eb 03 jmp 430a <rio_readlineb+0xb0></rio_readlineb+0xb0></rio_readlineb+0xb7></rio_readlineb+0xb0></rio_readlineb+0xc0>	42e0:	48 c7 c0 ff ff ff ff	mov	<pre>\$0xffffffffffffffffffffffffffffffffffff</pre>
42ee:       85 c0       test %eax,%eax         42f0:       75 28       jne 431a <rio_readlineb+0xc0>         42f2:       b8 00 00 00 00       mov \$0x0,%eax         42f7:       41 83 fd 01       cmp \$0x1,%r13d         42fb:       75 0d       jne 430a <rio_readlineb+0xb0>         42fd:       eb 12       jmp 4311 <rio_readlineb+0xb7>         42ff:       41 bd 01 00 00 00       mov \$0x1,%r13d         4305:       eb 03       jmp 430a <rio_readlineb+0xb0></rio_readlineb+0xb0></rio_readlineb+0xb7></rio_readlineb+0xb0></rio_readlineb+0xc0>	42e7:	eb 05	jmp	42ee <rio_readlineb+0x94></rio_readlineb+0x94>
42f0:       75 28       jne       431a <rio_readlineb+0xc0>         42f2:       b8 00 00 00 00       mov       \$0x0, %eax         42f7:       41 83 fd 01       cmp       \$0x1, %r13d         42fb:       75 0d       jne       430a <rio_readlineb+0xb0>         42fd:       eb 12       jmp       4311 <rio_readlineb+0xb7>         42ff:       41 bd 01 00 00 00       mov       \$0x1, %r13d         4305:       eb 03       jmp       430a <rio_readlineb+0xb0></rio_readlineb+0xb0></rio_readlineb+0xb7></rio_readlineb+0xb0></rio_readlineb+0xc0>	42e9:	b8 00 00 00 00	mov	\$0x0,%eax
42f2: b8 00 00 00 00 mov \$0x0,%eax  42f7: 41 83 fd 01 cmp \$0x1,%r13d  42fb: 75 0d jne 430a <rio_readlineb+0xb0>  42fd: eb 12 jmp 4311 <rio_readlineb+0xb7>  42ff: 41 bd 01 00 00 00 mov \$0x1,%r13d  4305: eb 03 jmp 430a <rio_readlineb+0xb0></rio_readlineb+0xb0></rio_readlineb+0xb7></rio_readlineb+0xb0>	42ee:	85 c0	test	%eax,%eax
42f7:       41 83 fd 01       cmp       \$0x1,%r13d         42fb:       75 0d       jne       430a <rio_readlineb+0xb0>         42fd:       eb 12       jmp       4311 <rio_readlineb+0xb7>         42ff:       41 bd 01 00 00 00       mov       \$0x1,%r13d         4305:       eb 03       jmp       430a <rio_readlineb+0xb0></rio_readlineb+0xb0></rio_readlineb+0xb7></rio_readlineb+0xb0>	42f0:	75 28	jne	431a <rio_readlineb+0xc0></rio_readlineb+0xc0>
42fb: 75 0d jne 430a <rio_readlineb+0xb0> 42fd: eb 12 jmp 4311 <rio_readlineb+0xb7> 42ff: 41 bd 01 00 00 00 mov \$0x1,%r13d 4305: eb 03 jmp 430a <rio_readlineb+0xb0></rio_readlineb+0xb0></rio_readlineb+0xb7></rio_readlineb+0xb0>	42f2:	b8 00 00 00 00	mov	\$0x0,%eax
42fd: eb 12 jmp 4311 <rio_readlineb+0xb7> 42ff: 41 bd 01 00 00 00 mov \$0x1,%r13d 4305: eb 03 jmp 430a <rio_readlineb+0xb0></rio_readlineb+0xb0></rio_readlineb+0xb7>	42f7:	41 83 fd 01	cmp	\$0x1,%r13d
42ff: 41 bd 01 00 00 00 mov \$0x1,%r13d 4305: eb 03 jmp 430a <rio_readlineb+0xb0></rio_readlineb+0xb0>	42fb:	75 0d	jne	430a <rio_readlineb+0xb0></rio_readlineb+0xb0>
4305: eb 03 jmp 430a <rio_readlineb+0xb0></rio_readlineb+0xb0>	42fd:	eb 12	jmp	4311 <rio_readlineb+0xb7></rio_readlineb+0xb7>
_	42ff:	41 bd 01 00 00 00	mov	\$0x1,%r13d
4307: 4c 89 f5 mov %r14,%rbp	4305:	eb 03	jmp	430a <rio_readlineb+0xb0></rio_readlineb+0xb0>
	4307:	4c 89 f5	mov	%r14,%rbp

430a:	c6 45 00 00	movb	\$0x0,0x0(%rbp)
430e:	49 63 c5	movslq	%r13d,%rax
4311:	5b	pop	%rbx
4312:	5d	pop	%rbp
4313:	41 5c	pop	%r12
4315:	41 5d	pop	%r13
4317:	41 5e	pop	%r14
4319:	c3	retq	
431a:	48 c7 c0 ff ff ff ff	mov	<pre>\$0xffffffffffffffffffffffffffffffffffff</pre>
4321:	eb ee	jmp	4311 <rio_readlineb+0xb7></rio_readlineb+0xb7>

### 0000000000004323 <submitr>:

, ,	0000000004	J	, \3	uDII	LLLL	· ·				
	4323:	f3	0f	1e	fa				endbr64	4
	4327:	41	57						push	%r15
	4329:	41	56						push	%r14
	432b:	41	55						push	%r13
	432d:	41	54						push	%r12
	432f:	55							push	%rbp
	4330:	53							push	%rbx
	4331:	4c	8d	9с	24	00	60	ff	lea	-0xa000(%rsp),%r11
	4338:	ff								
	4339:	48	81	ес	00	10	00	00	sub	\$0x1000,%rsp
	4340:	48	83	0c	24	00			orq	\$0x0,(%rsp)
	4345:	4c	39	dc					cmp	%r11,%rsp
	4348:	75	ef						jne	4339 <submitr+0x16></submitr+0x16>
	434a:	48	83	ес	68				sub	\$0x68,%rsp
	434e:	49	89	fd					mov	%rdi,%r13
	4351:	89	f5						mov	%esi,%ebp
	4353:	48	89	14	24				mov	%rdx,(%rsp)
	4357:	48	89	4c	24	08			mov	%rcx,0x8(%rsp)
	435c:	4c	89	44	24	18			mov	%r8,0x18(%rsp)

4361:	4c 89 4c 24 10	mov %r9,0x10(%rsp)
4366:	48 8b 9c 24 a0 a0 00	mov 0xa0a0(%rsp),%rbx
436d:	00	
436e:	4c 8b bc 24 a8 a0 00	mov 0xa0a8(%rsp),%r15
4375:	00	
4376:	64 48 8b 04 25 28 00	mov %fs:0x28,%rax
437d:	00 00	
437f:	48 89 84 24 58 a0 00	mov %rax,0xa058(%rsp)
4386:	00	
4387:	31 c0	xor %eax,%eax
4389:	c7 44 24 2c 00 00 00	movl \$0x0,0x2c(%rsp)
4390:	00	
4391:	ba 00 00 00 00	mov \$0x0,%edx
4396:	be 01 00 00 00	mov \$0x1,%esi
439b:	bf 02 00 00 00	mov \$0x2,%edi
43a0:	e8 0b f0 ff ff	callq 33b0 <socket@plt></socket@plt>
43a5:	85 c0	test %eax,%eax
43a5: 43a7:	85 c0 Of 88 17 01 00 00	test %eax,%eax js 44c4 <submitr+0x1a1></submitr+0x1a1>
43a7:	Of 88 17 01 00 00	js 44c4 <submitr+0x1a1></submitr+0x1a1>
43a7: 43ad:	0f 88 17 01 00 00 41 89 c4	<pre>js 44c4 <submitr+0x1a1> mov %eax,%r12d</submitr+0x1a1></pre>
43a7: 43ad: 43b0:	0f 88 17 01 00 00 41 89 c4 4c 89 ef	<pre>js 44c4 <submitr+0x1a1> mov %eax,%r12d mov %r13,%rdi</submitr+0x1a1></pre>
43a7: 43ad: 43b0: 43b3:	0f 88 17 01 00 00 41 89 c4 4c 89 ef e8 18 ef ff ff	<pre>js 44c4 <submitr+0x1a1> mov %eax,%r12d mov %r13,%rdi callq 32d0 <gethostbyname@plt></gethostbyname@plt></submitr+0x1a1></pre>
43a7: 43ad: 43b0: 43b3: 43b8:	0f 88 17 01 00 00 41 89 c4 4c 89 ef e8 18 ef ff ff 48 85 c0	<pre>js 44c4 <submitr+0x1a1> mov %eax,%r12d mov %r13,%rdi callq 32d0 <gethostbyname@plt> test %rax,%rax</gethostbyname@plt></submitr+0x1a1></pre>
43a7: 43ad: 43b0: 43b3: 43b8:	0f 88 17 01 00 00 41 89 c4 4c 89 ef e8 18 ef ff ff 48 85 c0 0f 84 53 01 00 00	<pre>js 44c4 <submitr+0x1a1> mov %eax,%r12d mov %r13,%rdi callq 32d0 <gethostbyname@plt> test %rax,%rax je 4514 <submitr+0x1f1></submitr+0x1f1></gethostbyname@plt></submitr+0x1a1></pre>
43a7: 43ad: 43b0: 43b3: 43b8: 43bb:	0f 88 17 01 00 00 41 89 c4 4c 89 ef e8 18 ef ff ff 48 85 c0 0f 84 53 01 00 00 4c 8d 6c 24 30	<pre>js 44c4 <submitr+0x1a1> mov %eax,%r12d mov %r13,%rdi callq 32d0 <gethostbyname@plt> test %rax,%rax je 4514 <submitr+0x1f1> lea 0x30(%rsp),%r13</submitr+0x1f1></gethostbyname@plt></submitr+0x1a1></pre>
43a7: 43ad: 43b0: 43b3: 43b8: 43c1: 43c6:	0f 88 17 01 00 00 41 89 c4 4c 89 ef e8 18 ef ff ff 48 85 c0 0f 84 53 01 00 00 4c 8d 6c 24 30 48 c7 44 24 30 00 00	<pre>js 44c4 <submitr+0x1a1> mov %eax,%r12d mov %r13,%rdi callq 32d0 <gethostbyname@plt> test %rax,%rax je 4514 <submitr+0x1f1> lea 0x30(%rsp),%r13</submitr+0x1f1></gethostbyname@plt></submitr+0x1a1></pre>
43a7: 43ad: 43b0: 43b3: 43b8: 43bb: 43c1: 43c6:	0f 88 17 01 00 00 41 89 c4 4c 89 ef e8 18 ef ff ff 48 85 c0 0f 84 53 01 00 00 4c 8d 6c 24 30 48 c7 44 24 30 00 00 00 00	<pre>js     44c4 <submitr+0x1a1> mov     %eax,%r12d mov     %r13,%rdi callq     32d0 <gethostbyname@plt> test     %rax,%rax je     4514 <submitr+0x1f1> lea     0x30(%rsp),%r13 movq     \$0x0,0x30(%rsp)</submitr+0x1f1></gethostbyname@plt></submitr+0x1a1></pre>
43a7: 43ad: 43b0: 43b3: 43b8: 43bb: 43c1: 43c6: 43cd:	0f 88 17 01 00 00 41 89 c4 4c 89 ef e8 18 ef ff ff 48 85 c0 0f 84 53 01 00 00 4c 8d 6c 24 30 48 c7 44 24 30 00 00 00 00 48 c7 44 24 38 00 00	<pre>js     44c4 <submitr+0x1a1> mov     %eax,%r12d mov     %r13,%rdi callq     32d0 <gethostbyname@plt> test     %rax,%rax je     4514 <submitr+0x1f1> lea     0x30(%rsp),%r13 movq     \$0x0,0x30(%rsp)</submitr+0x1f1></gethostbyname@plt></submitr+0x1a1></pre>
43a7: 43ad: 43b0: 43b3: 43b8: 43bb: 43c1: 43c6: 43c6: 43c6:	0f 88 17 01 00 00 41 89 c4 4c 89 ef e8 18 ef ff ff 48 85 c0 0f 84 53 01 00 00 4c 8d 6c 24 30 48 c7 44 24 30 00 00 00 00 48 c7 44 24 38 00 00	<pre>js     44c4 <submitr+0x1a1> mov     %eax,%r12d mov     %r13,%rdi callq     32d0 <gethostbyname@plt> test     %rax,%rax je     4514 <submitr+0x1f1> lea     0x30(%rsp),%r13 movq     \$0x0,0x30(%rsp)</submitr+0x1f1></gethostbyname@plt></submitr+0x1a1></pre> movq \$0x0,0x38(%rsp)
43a7: 43ad: 43b0: 43b3: 43b8: 43bb: 43c1: 43c6: 43c6: 43d6: 43d8:	0f 88 17 01 00 00 41 89 c4 4c 89 ef e8 18 ef ff ff 48 85 c0 0f 84 53 01 00 00 4c 8d 6c 24 30 48 c7 44 24 30 00 00 00 00 48 c7 44 24 38 00 00 00 00 66 c7 44 24 30 02 00	<pre>js     44c4 <submitr+0x1a1> mov     %eax,%r12d mov     %r13,%rdi callq     32d0 <gethostbyname@plt> test     %rax,%rax je     4514 <submitr+0x1f1> lea     0x30(%rsp),%r13 movq     \$0x0,0x30(%rsp)  movq     \$0x0,0x38(%rsp)</submitr+0x1f1></gethostbyname@plt></submitr+0x1a1></pre>

43ec:	b9 0c 00 00 00	mov \$0xc,%ecx
43f1:	48 8b 30	mov (%rax),%rsi
43f4:	e8 e7 ee ff ff	callq 32e0 <memmove_chk@plt></memmove_chk@plt>
43f9:	66 c1 c5 08	rol \$0x8,%bp
43fd:	66 89 6c 24 32	mov %bp,0x32(%rsp)
4402:	ba 10 00 00 00	mov \$0x10,%edx
4407:	4c 89 ee	mov %r13,%rsi
440a:	44 89 e7	mov %r12d,%edi
440d:	e8 4e ef ff ff	callq 3360 <connect@plt></connect@plt>
4412:	85 c0	test %eax, %eax
4414:	Of 88 65 01 00 00	js 457f <submitr+0x25c></submitr+0x25c>
441a:	49 c7 c1 ff ff ff	mov \$0xffffffffffffffff,%r9
4421:	b8 00 00 00 00	mov \$0x0,%eax
4426:	4c 89 c9	mov %r9,%rcx
4429:	48 89 df	mov %rbx,%rdi
442c:	f2 ae	repnz scas %es:(%rdi),%al
442e:	48 f7 d1	not %rcx
	48 89 ce	mov %rcx,%rsi
4431:	10 03 00	mov ofon, of of
4431: 4434:	4c 89 c9	mov %r9,%rcx
4434:	4c 89 c9	mov %r9,%rcx
4434: 4437:	4c 89 c9 48 8b 3c 24	mov %r9,%rcx mov (%rsp),%rdi
4434: 4437: 443b:	4c 89 c9 48 8b 3c 24 f2 ae	<pre>mov %r9,%rcx mov (%rsp),%rdi repnz scas %es:(%rdi),%al</pre>
4434: 4437: 443b: 443d:	4c 89 c9 48 8b 3c 24 f2 ae 49 89 c8	mov %r9,%rcx  mov (%rsp),%rdi  repnz scas %es:(%rdi),%al  mov %rcx,%r8
4434: 4437: 443b: 443d: 4440:	4c 89 c9 48 8b 3c 24 f2 ae 49 89 c8 4c 89 c9	mov %r9,%rcx  mov (%rsp),%rdi  repnz scas %es:(%rdi),%al  mov %rcx,%r8  mov %r9,%rcx
4434: 4437: 443b: 443d: 4440: 4443:	4c 89 c9 48 8b 3c 24 f2 ae 49 89 c8 4c 89 c9 48 8b 7c 24 08	<pre>mov %r9,%rcx mov (%rsp),%rdi repnz scas %es:(%rdi),%al mov %rcx,%r8 mov %r9,%rcx mov 0x8(%rsp),%rdi</pre>
4434: 4437: 443b: 443d: 4440: 4443: 4448:	4c 89 c9 48 8b 3c 24 f2 ae 49 89 c8 4c 89 c9 48 8b 7c 24 08 f2 ae	<pre>mov %r9,%rcx mov (%rsp),%rdi repnz scas %es:(%rdi),%al mov %rcx,%r8 mov %r9,%rcx mov 0x8(%rsp),%rdi repnz scas %es:(%rdi),%al</pre>
4434: 4437: 443b: 443d: 4440: 4443: 4448: 444a:	4c 89 c9 48 8b 3c 24 f2 ae 49 89 c8 4c 89 c9 48 8b 7c 24 08 f2 ae 48 89 ca	<pre>mov %r9,%rcx mov (%rsp),%rdi repnz scas %es:(%rdi),%al mov %rcx,%r8 mov %r9,%rcx mov 0x8(%rsp),%rdi repnz scas %es:(%rdi),%al mov %rcx,%rdx</pre>
4434: 4437: 443b: 443d: 4440: 4443: 4448: 444a: 444d:	4c 89 c9  48 8b 3c 24  f2 ae  49 89 c8  4c 89 c9  48 8b 7c 24 08  f2 ae  48 89 ca  48 f7 d2	<pre>mov %r9,%rcx mov (%rsp),%rdi repnz scas %es:(%rdi),%al mov %rcx,%r8 mov %r9,%rcx mov 0x8(%rsp),%rdi repnz scas %es:(%rdi),%al mov %rcx,%rdx not %rdx</pre>
4434: 4437: 443b: 443d: 4440: 4443: 4448: 444a: 444a: 4450:	4c 89 c9  48 8b 3c 24  f2 ae  49 89 c8  4c 89 c9  48 8b 7c 24 08  f2 ae  48 89 ca  48 f7 d2  4c 89 c9	<pre>mov %r9,%rcx mov (%rsp),%rdi repnz scas %es:(%rdi),%al mov %rcx,%r8 mov %r9,%rcx mov 0x8(%rsp),%rdi repnz scas %es:(%rdi),%al mov %rcx,%rdx not %rdx mov %r9,%rcx</pre>
4434: 4437: 443b: 443d: 4440: 4443: 4448: 444a: 444a: 4450: 4453:	4c 89 c9  48 8b 3c 24  f2 ae  49 89 c8  4c 89 c9  48 8b 7c 24 08  f2 ae  48 89 ca  48 f7 d2  4c 89 c9  48 8b 7c 24 10	<pre>mov %r9,%rcx mov (%rsp),%rdi repnz scas %es:(%rdi),%al mov %rcx,%r8 mov %r9,%rcx mov 0x8(%rsp),%rdi repnz scas %es:(%rdi),%al mov %rcx,%rdx not %rdx mov %r9,%rcx mov 0x10(%rsp),%rdi</pre>

4460:	48 8d 44 76 fd	lea -0x3(%rsi,%rsi,2),%rax
4465:	48 8d 44 02 7b	lea 0x7b(%rdx,%rax,1),%rax
446a:	48 3d 00 20 00 00	cmp \$0x2000,%rax
4470:	0f 87 66 01 00 00	ja 45dc <submitr+0x2b9></submitr+0x2b9>
4476:	48 8d 94 24 50 40 00	lea 0x4050(%rsp),%rdx
447d:	00	
447e:	b9 00 04 00 00	mov \$0x400,%ecx
4483:	b8 00 00 00 00	mov \$0x0,%eax
4488:	48 89 d7	mov %rdx,%rdi
448b:	f3 48 ab	rep stos %rax, %es:(%rdi)
448e:	48 c7 c1 ff ff ff ff	mov \$0xffffffffffffff,%rcx
4495:	48 89 df	mov %rbx,%rdi
4498:	f2 ae	repnz scas %es:(%rdi),%al
449a:	48 f7 d1	not %rcx
449d:	48 8d 41 ff	lea -0x1(%rcx),%rax
44a1:	83 f9 01	cmp \$0x1,%ecx
44a4:	Of 84 84 06 00 00	je 4b2e <submitr+0x80b></submitr+0x80b>
44aa:	8d 40 ff	lea -0x1(%rax),%eax
44ad:	4c 8d 74 03 01	lea 0x1(%rbx,%rax,1),%r14
44b2:	48 89 d5	mov %rdx,%rbp
44b5:	49 bd d9 ff 00 00 00	movabs \$0x200000000ffd9,%r13
44bc:	00 20 00	
44bf:	e9 a6 01 00 00	<pre>jmpq 466a <submitr+0x347></submitr+0x347></pre>
44c4:	48 b8 45 72 72 6f 72	movabs \$0x43203a726f727245,%rax
44cb:	3a 20 43	
44ce:	48 ba 6c 69 65 6e 74	movabs \$0x6e7520746e65696c,%rdx
44d5:	20 75 6e	
44d8:	49 89 07	mov %rax,(%r15)
44db:	49 89 57 08	mov %rdx,0x8(%r15)
44df:	48 b8 61 62 6c 65 20	movabs \$0x206f7420656c6261,%rax
44e6:	74 6f 20	
44e9:	48 ba 63 72 65 61 74	movabs \$0x7320657461657263,%rdx

44f0:	65	20	73						
44f3:	49	89	47	10				mov	%rax,0x10(%r15)
44f7:	49	89	57	18				mov	%rdx,0x18(%r15)
44fb:	41	c7	47	20	6f	63	6b	movl	\$0x656b636f,0x20(%r15)
4502:	65								
4503:	66	41	с7	47	24	74	00	movw	\$0x74,0x24(%r15)
450a:	b8 :	ff	ff	ff	ff			mov	<pre>\$0xfffffffff,%eax</pre>
450f:	e9	92	04	00	00			jmpq	49a6 <submitr+0x683></submitr+0x683>
4514:	48 ]	b8	45	72	72	6f	72	movabs	\$0x44203a726f727245,%rax
451b:	3a 2	20	44						
451e:	48 ]	ba	4e	53	20	69	73	movabs	\$0x6e7520736920534e,%rdx
4525:	20	75	6e						
4528:	49	89	07					mov	%rax, (%r15)
452b:	49	89	57	8 0				mov	%rdx,0x8(%r15)
452f:	48 ]	b8	61	62	6с	65	20	movabs	\$0x206f7420656c6261,%rax
4536:	74	6f :	20						
4539:	48 ]	ba	72	65	73	6f	6c	movabs	\$0x2065766c6f736572,%rdx
4540:	76	65	20						
4543:	49	89	47	10				mov	%rax,0x10(%r15)
4547:	49	89	57	18				mov	%rdx,0x18(%r15)
454b:	48 ]	b8	73	65	72	76	65	movabs	\$0x6120726576726573,%rax
4552:	72	20	61						
4555:	49	89	47	20				mov	%rax,0x20(%r15)
4559:	41	c7	47	28	64	64	72	movl	\$0x65726464,0x28(%r15)
4560:	65								
4561:	66	41	с7	47	2c	73	73	movw	\$0x7373,0x2c(%r15)
4568:	41	с6	47	2e	00			movb	\$0x0,0x2e(%r15)
456d:	44	89	e7					mov	%r12d,%edi
4570:	e8 :	1b	ed	ff	ff			callq	3290 <close@plt></close@plt>
4575:	b8 :	ff	ff	ff	ff			mov	<pre>\$0xfffffffff,%eax</pre>
457a:	e9 2	27	04	00	00			jmpq	49a6 <submitr+0x683></submitr+0x683>
457f:	48 ]	b8	45	72	72	6f	72	movabs	\$0x55203a726f727245,%rax

4586:	3a 2	0 55						
4589:	48 b	a 6e	61	62	6с	65	movabs	\$0x6f7420656c62616e,%rdx
4590:	20 7	4 6f						
4593:	49 8	9 07					mov	%rax,(%r15)
4596:	49 8	9 57	08				mov	%rdx,0x8(%r15)
459a:	48 b	8 20	63	6f	6e	6e	movabs	\$0x7463656e6e6f6320,%rax
45a1:	65 6	3 74						
45a4:	48 b	a 20	74	6f	20	74	movabs	\$0x20656874206f7420,%rdx
45ab:	68 6	5 20						
45ae:	49 8	9 47	10				mov	%rax,0x10(%r15)
45b2:	49 8	9 57	18				mov	%rdx,0x18(%r15)
45b6:	41 c	7 47	20	73	65	72	movl	\$0x76726573,0x20(%r15)
45bd:	76							
45be:	66 4	1 c7	47	24	65	72	movw	\$0x7265,0x24(%r15)
45c5:	41 c	6 47	26	00			movb	\$0x0,0x26(%r15)
45ca:	44 8	9 e7					mov	%r12d,%edi
45cd:	e8 b	e ec	ff	ff			callq	3290 <close@plt></close@plt>
45d2:	b8 f	f ff	ff	ff			mov	<pre>\$0xfffffffff, %eax</pre>
45d7:	е9 с	a 03	00	00			jmpq	49a6 <submitr+0x683></submitr+0x683>
45dc:	48 b	8 45	72	72	6f	72	movabs	\$0x52203a726f727245,%rax
45e3:	3a 2	0 52						
45e6:	48 b	a 65	73	75	6с	74	movabs	\$0x747320746c757365,%rdx
45ed:	20 7	3 74						
45f0:	49 8	9 07					mov	%rax, (%r15)
45f3:	49 8	9 57	08				mov	%rdx,0x8(%r15)
45f7:	48 b	8 72	69	6e	67	20	movabs	\$0x6f6f7420676e6972,%rax
45fe:	74 6	f 6f						
4601:	48 b	a 20	6с	61	72	67	movabs	\$0x202e656772616c20,%rdx
4608:	65 2	e 20						
460b:	49 8	9 47	10				mov	%rax,0x10(%r15)
460f:	49 8	9 57	18				mov	%rdx,0x18(%r15)
4613:	48 b	8 49	6e	63	72	65	movabs	\$0x6573616572636e49,%rax

461a:	61 73	65				
461d:	48 ba	20 53	55 43	2 4d	movabs	\$0x5254494d42555320,%rdx
4624:	49 54	52				
4627:	49 89	47 20			mov	%rax,0x20(%r15)
462b:	49 89	57 28			mov	%rdx,0x28(%r15)
462f:	48 b8	5f 4d	41 5	8 42	movabs	\$0x46554258414d5f,%rax
4636:	55 46	00				
4639:	49 89	47 30			mov	%rax,0x30(%r15)
463d:	44 89	e7			mov	%r12d,%edi
4640:	e8 4b	ec ff	ff		callq	3290 <close@plt></close@plt>
4645:	b8 ff	ff ff	ff		mov	<pre>\$0xffffffffffffffffffffffffffffffffffff</pre>
464a:	e9 57	03 00	00		jmpq	49a6 <submitr+0x683></submitr+0x683>
464f:	49 Of	a3 c5			bt	%rax,%r13
4653:	73 21				jae	4676 <submitr+0x353></submitr+0x353>
4655:	44 88	45 00			mov	%r8b,0x0(%rbp)
4659:	48 8d	6d 01			lea	0x1(%rbp),%rbp
465d:	48 83	c3 01			add	\$0x1,%rbx
4661:	4c 39	f3			cmp	%r14,%rbx
4664:	Of 84	c4 04	00 0	0	je	4b2e <submitr+0x80b></submitr+0x80b>
466a:	44 Of	b6 03			movzbl	(%rbx),%r8d
466e:	41 8d	40 d6			lea	-0x2a(%r8),%eax
4672:	3c 35				cmp	\$0x35,%al
4674:	76 d9				jbe	464f <submitr+0x32c></submitr+0x32c>
4676:	44 89	c0			mov	%r8d,%eax
4679:	83 e0	df			and	<pre>\$0xffffffffffffffffffffffffffffffffffff</pre>
467c:	83 e8	41			sub	\$0x41,%eax
467f:	3c 19				cmp	\$0x19,%al
4681:	76 d2				jbe	4655 <submitr+0x332></submitr+0x332>
4683:	41 80	f8 20			cmp	\$0x20,%r8b
4687:	74 63				je	46ec <submitr+0x3c9></submitr+0x3c9>
4689:	41 8d	40 e0			lea	-0x20(%r8),%eax
468d:	3c 5f				cmp	\$0x5f,%al

	468f:	76	0a						jbe	469b <submitr+0x378></submitr+0x378>
	4691:	41	80	f8	09				cmp	\$0x9,%r8b
	4695:	0f	85	06	04	00	00		jne	4aal <submitr+0x77e></submitr+0x77e>
	469b:	48	8d	bc	24	50	80	00	lea	0x8050(%rsp),%rdi
	46a2:	00								
	46a3:	45	0f	b6	с0				movzbl	%r8b,%r8d
	46a7:	48	8d	0d	f8	1c	00	00	lea	0x1cf8(%rip),%rcx # 63a6
<ar< td=""><td>ray.3481+0</td><td>x11</td><td>.c6&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></ar<>	ray.3481+0	x11	.c6>							
	46ae:	ba	08	00	00	00			mov	\$0x8, %edx
	46b3:	be	01	00	00	00			mov	\$0x1,%esi
	46b8:	b8	00	00	00	00			mov	\$0x0,%eax
	46bd:	e8	de	ес	ff	ff			callq	33a0 <sprintf_chk@plt></sprintf_chk@plt>
	46c2:	0f	b6	84	24	50	80	00	movzbl	0x8050(%rsp),%eax
	46c9:	00								
	46ca:	88	45	00					mov	%al,0x0(%rbp)
	46cd:	0f	b6	84	24	51	80	00	movzbl	0x8051(%rsp),%eax
	46d4:	00								
	46d5:	88	45	01					mov	%al,0x1(%rbp)
	46d8:	0f	b6	84	24	52	80	00	movzbl	0x8052(%rsp),%eax
	46df:	00								
	46e0:	88	45	02					mov	%al,0x2(%rbp)
	46e3:	48	8d	6d	03				lea	0x3(%rbp),%rbp
	46e7:	е9	71	ff	ff	ff			jmpq	465d <submitr+0x33a></submitr+0x33a>
	46ec:	с6	45	00	2b				movb	\$0x2b,0x0(%rbp)
	46f0:	48	8d	6d	01				lea	0x1(%rbp),%rbp
	46f4:	е9	64	ff	ff	ff			jmpq	465d <submitr+0x33a></submitr+0x33a>
	46f9:	48	b8	45	72	72	6f	72	movabs	\$0x47203a726f727245,%rax
	4700:	3a	20	47						
	4703:	48	ba	45	54	20	72	65	movabs	\$0x6575716572205445,%rdx
	470a:	71	75	65						
	470d:	49	89	07					mov	%rax,(%r15)
	4710:	49	89	57	08				mov	%rdx,0x8(%r15)

4714:	48	b8	73	74	20	65	78	movabs	\$0x6565637865207473,%rax
471b:	63	65	65						
471e:	48	ba	64	73	20	62	75	movabs	\$0x6566667562207364,%rdx
4725:	66	66	65						
4728:	49	89	47	10				mov	%rax,0x10(%r15)
472c:	49	89	57	18				mov	%rdx,0x18(%r15)
4730:	41	с7	47	20	72	20	73	movl	\$0x69732072,0x20(%r15)
4737:	69								
4738:	66	41	с7	47	24	7a	65	movw	\$0x657a,0x24(%r15)
473f:	41	с6	47	26	00			movb	\$0x0,0x26(%r15)
4744:	44	89	е7					mov	%r12d,%edi
4747:	е8	44	eb	ff	ff			callq	3290 <close@plt></close@plt>
474c:	b8	ff	ff	ff	ff			mov	<pre>\$0xfffffffff,%eax</pre>
4751:	е9	50	02	00	00			jmpq	49a6 <submitr+0x683></submitr+0x683>
4756:	48	01	с5					add	%rax,%rbp
4759:	48	29	с3					sub	%rax,%rbx
475c:	74	26						je	4784 <submitr+0x461></submitr+0x461>
475e:	48	89	da					mov	%rbx,%rdx
4761:	48	89	ee					mov	%rbp,%rsi
4764:	44	89	е7					mov	%r12d,%edi
4767:	е8	f4	ea	ff	ff			callq	3260 <write@plt></write@plt>
476c:	48	85	с0					test	%rax,%rax
476f:	7f	e5						jg	4756 <submitr+0x433></submitr+0x433>
4771:	е8	ba	ea	ff	ff			callq	3230 <errno_location@plt></errno_location@plt>
4776:	83	38	04					cmpl	\$0x4,(%rax)
4779:	0f	85	с3	02	00	00		jne	4a42 <submitr+0x71f></submitr+0x71f>
477f:	4c	89	е8					mov	%r13,%rax
4782:	eb	d2						jmp	4756 <submitr+0x433></submitr+0x433>
4784:	44	89	64	24	40			mov	%r12d,0x40(%rsp)
4789:	с7	44	24	44	00	00	00	movl	\$0x0,0x44(%rsp)
4790:	00								
4791:	48	8d	7с	24	40			lea	0x40(%rsp),%rdi

4796:	48	8d	44	24	50			lea	0x50(%rsp),%rax	
479b:	48	89	44	24	48			mov	%rax,0x48(%rsp)	
47a0:	48	8d	b4	24	50	20	00	lea	0x2050(%rsp),%rsi	
47a7:	00									
47a8:	ba	00	20	00	00			mov	\$0x2000, %edx	
47ad:	e8	a8	fa	ff	ff			callq	425a <rio_readlineb></rio_readlineb>	
47b2:	48	85	с0					test	%rax,%rax	
47b5:	0f	8e	ес	00	00	00		jle	48a7 <submitr+0x584></submitr+0x584>	
47bb:	48	8d	4c	24	2c			lea	0x2c(%rsp),%rcx	
47c0:	48	8d	94	24	50	60	00	lea	0x6050(%rsp),%rdx	
47c7:	00									
47c8:	48	8d	bc	24	50	20	00	lea	0x2050(%rsp),%rdi	
47cf:	00									
47d0:	4c	8d	84	24	50	80	00	lea	0x8050(%rsp),%r8	
47d7:	00									
47d8:	48	8d	35	се	1b	00	00	lea	0x1bce(%rip),%rsi # 63ac	d
<array.3481+0< td=""><td>)x11</td><td>.cd&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></array.3481+0<>	)x11	.cd>								
47df:	b8	00	00	00	00			mov	\$0x0,%eax	
47e4:	e8	27	eb	ff	ff			callq	3310 <isoc99_sscanf@plt></isoc99_sscanf@plt>	
47e9:	44	8b	44	24	2c			mov	0x2c(%rsp),%r8d	
47ee:	41	81	f8	с8	00	00	00	cmp	\$0xc8, %r8d	
47f5:	0f	85	20	01	00	00		jne	491b <submitr+0x5f8></submitr+0x5f8>	
47fb:	48	8d	1d	bc	1b	00	00	lea	0x1bbc(%rip),%rbx # 63be	€
<array.3481+0< td=""><td>)x11</td><td>.de&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></array.3481+0<>	)x11	.de>								
4802:	48	8d	b4	24	50	20	00	lea	0x2050(%rsp),%rsi	
4809:	00									
480a:	b9	03	00	00	00			mov	\$0x3,%ecx	
480f:	48	89	df					mov	%rbx,%rdi	
4812:	f3	a6						repz cr	mpsb %es:(%rdi),%ds:(%rsi)	
4814:	0f	97	с0					seta	%al	
4817:	1c	00						sbb	\$0x0,%al	
4819:	84	c0						test	%al,%al	
481b:	0f	84	31	01	00	00		je	4952 <submitr+0x62f></submitr+0x62f>	

4821:	48	8d	b4	24	50	20	00	lea	0x2050(%rsp),%rsi
4828:	00								
4829:	48	8d	7с	24	40			lea	0x40(%rsp),%rdi
482e:	ba	00	20	00	00			mov	\$0x2000, %edx
4833:	e8	22	fa	ff	ff			callq	425a <rio_readlineb></rio_readlineb>
4838:	48	85	с0					test	%rax,%rax
483b:	7f	с5						jg	4802 <submitr+0x4df></submitr+0x4df>
483d:	48	b8	45	72	72	6f	72	movabs	\$0x43203a726f727245,%rax
4844:	3a	20	43						
4847:	48	ba	6с	69	65	6e	74	movabs	\$0x6e7520746e65696c,%rdx
484e:	20	75	6e						
4851:	49	89	07					mov	%rax, (%r15)
4854:	49	89	57	08				mov	%rdx,0x8(%r15)
4858:	48	b8	61	62	6с	65	20	movabs	\$0x206f7420656c6261,%rax
485f:	74	6f	20						
4862:	48	ba	72	65	61	64	20	movabs	\$0x6165682064616572,%rdx
4869:	68	65	61						
486c:	49	89	47	10				mov	%rax,0x10(%r15)
4870:	49	89	57	18				mov	%rdx,0x18(%r15)
4874:	48	b8	64	65	72	73	20	movabs	\$0x6f72662073726564,%rax
487b:	66	72	6f						
487e:	48	ba	6d	20	73	65	72	movabs	\$0x726576726573206d,%rdx
4885:	76	65	72						
4888:	49	89	47	20				mov	%rax,0x20(%r15)
488c:	49	89	57	28				mov	%rdx,0x28(%r15)
4890:	41	с6	47	30	00			movb	\$0x0,0x30(%r15)
4895:	44	89	e7					mov	%r12d,%edi
4898:	e8	f3	e9	ff	ff			callq	3290 <close@plt></close@plt>
489d:	b8	ff	ff	ff	ff			mov	<pre>\$0xffffffffffffffffffffffffffffffffffff</pre>
48a2:	е9	ff	00	00	00			jmpq	49a6 <submitr+0x683></submitr+0x683>
48a7:	48	b8	45	72	72	6f	72	movabs	\$0x43203a726f727245,%rax
48ae:	3a	20	43						

	48b1:	48	ba	6с	69	65	6e	74	movabs	\$0x6e7520746e65696c,%rdx	
	48b8:	20	75	6e							
	48bb:	49	89	07					mov	%rax, (%r15)	
	48be:	49	89	57	08				mov	%rdx,0x8(%r15)	
	48c2:	48	b8	61	62	6c	65	20	movabs	\$0x206f7420656c6261,%rax	
	48c9:	74	6f	20							
	48cc:	48	ba	72	65	61	64	20	movabs	\$0x7269662064616572,%rdx	
	48d3:	66	69	72							
	48d6:	49	89	47	10				mov	%rax,0x10(%r15)	
	48da:	49	89	57	18				mov	%rdx,0x18(%r15)	
	48de:	48	b8	73	74	20	68	65	movabs	\$0x6564616568207473,%rax	
	48e5:	61	64	65							
	48e8:	48	ba	72	20	66	72	6f	movabs	\$0x73206d6f72662072,%rdx	
	48ef:	6d	20	73							
	48f2:	49	89	47	20				mov	%rax,0x20(%r15)	
	48f6:	49	89	57	28				mov	%rdx,0x28(%r15)	
	48fa:	41	с7	47	30	65	72	76	movl	\$0x65767265,0x30(%r15)	
	4901:	65									
	4902:	66	41	с7	47	34	72	00	movw	\$0x72,0x34(%r15)	
	4909:	44	89	е7					mov	%r12d, %edi	
	490c:	е8	7f	е9	ff	ff			callq	3290 <close@plt></close@plt>	
	4911:	b8	ff	ff	ff	ff			mov	<pre>\$0xfffffffff, %eax</pre>	
	4916:	е9	8b	00	00	00			jmpq	49a6 <submitr+0x683></submitr+0x683>	
	491b:	4c	8d	8c	24	50	80	00	lea	0x8050(%rsp),%r9	
	4922:	00									
	4923:		8d		се	19	00	00	lea	0x19ce(%rip),%rcx # 62f	8
<ar< td=""><td>ray.3481+0 492a:</td><td></td><td>18&gt; c7</td><td></td><td>ff</td><td>ff</td><td>ff</td><td>ff</td><td>mov</td><td>\$0xffffffffffffff,%rdx</td><td></td></ar<>	ray.3481+0 492a:		18> c7		ff	ff	ff	ff	mov	\$0xffffffffffffff,%rdx	
			01						mov	\$0x1,%esi	
			89						mov	%r15,%rdi	
			00		0.0	0.0			mov	\$0x0, %eax	
			5d							33a0 < sprintf chk@plt>	
	1300.		Ju	Cu					24114	occooprinci_cimepie,	

4943:	44	89	e7					mov	%r12d,%edi
4946:	e8	45	е9	ff	ff			callq	3290 <close@plt></close@plt>
494b:	b8	ff	ff	ff	ff			mov	\$0xffffffff,%eax
4950:	eb	54						jmp	49a6 <submitr+0x683></submitr+0x683>
4952:	48	8d	b4	24	50	20	00	lea	0x2050(%rsp),%rsi
4959:	00								
495a:	48	8d	7c	24	40			lea	0x40(%rsp),%rdi
495f:	ba	00	20	00	00			mov	\$0x2000, %edx
4964:	e8	f1	f8	ff	ff			callq	425a <rio_readlineb></rio_readlineb>
4969:	48	85	с0					test	%rax,%rax
496c:	7e	61						jle	49cf <submitr+0x6ac></submitr+0x6ac>
496e:	48	8d	b4	24	50	20	00	lea	0x2050(%rsp),%rsi
4975:	00								
4976:	4c	89	ff					mov	%r15,%rdi
4979:	e8	с2	e8	ff	ff			callq	3240 <strcpy@plt></strcpy@plt>
497e:	44	89	e7					mov	%r12d,%edi
4981:	e8	0a	e9	ff	ff			callq	3290 <close@plt></close@plt>
4986:	b9	03	00	00	00			mov	\$0x3,%ecx
498b:	48	8d	3d	2f	1a	00	00	lea	0x1a2f(%rip),%rdi # 63c1
<array.3481+0< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></array.3481+0<>									
4992:	4c	89	fe					MOA	%r15,%rsi
4995:	f3	a6						repz cr	mpsb %es:(%rdi),%ds:(%rsi)
4997:	0f	97	с0					seta	%al
499a:	1c	00						sbb	\$0x0,%al
499c:	84	c0						test	%al,%al
499e:	0f	95	c0					setne	%al
49a1:	0f	b6	с0					movzbl	%al,%eax
49a4:	f7	d8						neg	%eax
49a6:	48	8b	94	24	58	a0	00	mov	0xa058(%rsp),%rdx
49ad:	00								
49ae:	64	48	33	14	25	28	00	xor	%fs:0x28,%rdx
49b5:	00	00							

49b7:	0f	85	fb	01	00	00		jne	4bb8 <submitr+0x895></submitr+0x895>
49bd:	48	81	с4	68	a0	00	00	add	\$0xa068,%rsp
49c4:	5b							pop	%rbx
49c5:	5d							pop	%rbp
49c6:	41	5с						pop	%r12
49c8:	41	5d						pop	%r13
49ca:	41	5e						pop	%r14
49cc:	41	5f						pop	%r15
49ce:	с3							retq	
49cf:	48	b8	45	72	72	6f	72	movabs	\$0x43203a726f727245,%rax
49d6:	3a	20	43						
49d9:	48	ba	6с	69	65	6e	74	movabs	\$0x6e7520746e65696c,%rdx
49e0:	20	75	6e						
49e3:	49	89	07					mov	%rax, (%r15)
49e6:	49	89	57	8 0				mov	%rdx,0x8(%r15)
49ea:	48	b8	61	62	6c	65	20	movabs	\$0x206f7420656c6261,%rax
49f1:	74	6f	20						
49f1: 49f4:				65	61	64	20	movabs	\$0x6174732064616572,%rdx
		ba	72	65	61	64	20	movabs	\$0x6174732064616572,%rdx
49f4:	48 73	ba 74	72		61	64	20	movabs	
49f4: 49fb:	48 73	ba 74 89	72 61 47	10	61	64	20		%rax,0x10(%r15)
49f4: 49fb: 49fe:	48 73 49	ba 74 89 89	72 61 47 57	10			20 6d	mov	%rax,0x10(%r15)
49f4: 49fb: 49fe: 4a02:	48 73 49	ba 74 89 89 b8	72 61 47 57 74	10				mov	%rax,0x10(%r15) %rdx,0x18(%r15)
49f4: 49fb: 49fe: 4a02: 4a06:	48 73 49 49 48 65	ba 74 89 89 b8 73	72 61 47 57 74 73	10 18 75	73	20	6d	mov mov movabs	%rax,0x10(%r15) %rdx,0x18(%r15)
49f4: 49fb: 49fe: 4a02: 4a06: 4a0d:	48 73 49 49 48 65	ba 74 89 89 b8 73 ba	72 61 47 57 74 73 61	10 18 75	73	20	6d	mov mov movabs	%rax,0x10(%r15) %rdx,0x18(%r15) \$0x7373656d20737574,%rax
49f4: 49fb: 49fe: 4a02: 4a06: 4a0d: 4a10:	48 73 49 49 48 65 48	ba 74 89 89 b8 73 ba 6f	72 61 47 57 74 73 61	10 18 75	73	20	6d	mov mov movabs	%rax,0x10(%r15) %rdx,0x18(%r15) \$0x7373656d20737574,%rax
49f4: 49fb: 49fe: 4a02: 4a06: 4a0d: 4a10: 4a17:	48 73 49 49 48 65 48 72 49	ba 74 89 89 b8 73 ba 6f 89	72 61 47 57 74 73 61 6d	10 18 75 67	73	20	6d	mov mov movabs	%rax,0x10(%r15) %rdx,0x18(%r15) \$0x7373656d20737574,%rax \$0x6d6f726620656761,%rdx
49f4: 49fb: 49fe: 4a02: 4a06: 4a0d: 4a10: 4a17: 4a1a:	48 73 49 49 48 65 48 72 49	ba 74 89 89 b8 73 ba 6f 89	72 61 47 57 74 73 61 6d 47	10 18 75 67 20 28	73	20	6d	mov movabs movabs mov	%rax,0x10(%r15) %rdx,0x18(%r15) \$0x7373656d20737574,%rax \$0x6d6f726620656761,%rdx %rax,0x20(%r15)
49f4: 49fb: 49fe: 4a02: 4a06: 4a0d: 4a10: 4a17: 4a1a: 4a1e:	48 73 49 49 48 65 48 72 49	ba 74 89 89 b8 73 ba 6f 89 89	72 61 47 57 74 73 61 64 47 57	10 18 75 67 20 28	73	20	6d 66	mov movabs movabs mov	%rax,0x10(%r15) %rdx,0x18(%r15) \$0x7373656d20737574,%rax \$0x6d6f726620656761,%rdx %rax,0x20(%r15) %rdx,0x28(%r15)
49f4: 49fb: 49fe: 4a02: 4a06: 4a0d: 4a10: 4a17: 4a1a: 4a1e: 4a22:	48 73 49 49 48 65 48 72 49 49	ba 74 89 89 b8 73 ba 6f 89 b8 72	72 61 47 74 73 61 64 47 57 20	10 18 75 67 20 28 73	73	20	6d 66	mov movabs movabs mov	%rax,0x10(%r15) %rdx,0x18(%r15) \$0x7373656d20737574,%rax \$0x6d6f726620656761,%rdx %rax,0x20(%r15) %rdx,0x28(%r15)
49f4: 49fb: 49fe: 4a02: 4a06: 4a0d: 4a10: 4a17: 4a1a: 4a1e: 4a22: 4a29:	48 73 49 49 48 65 48 72 49 48 65	ba 74 89 89 b8 73 ba 6f 89 b8 72	72 61 47 74 73 61 64 47 20 00 47	10 18 75 67 20 28 73	73	20	6d 66	mov movabs movabs mov mov	%rax,0x10(%r15) %rdx,0x18(%r15) \$0x7373656d20737574,%rax \$0x6d6f726620656761,%rdx %rax,0x20(%r15) %rdx,0x28(%r15) \$0x72657672657320,%rax

4a38:	b8 f	f ff	ff	ff			mov	\$0xffffffff,%eax
4a3d:	e9 6	4 ff	ff	ff			jmpq	49a6 <submitr+0x683></submitr+0x683>
4a42:	48 b	8 45	72	72	6f	72	movabs	\$0x43203a726f727245,%rax
4a49:	3a 2	0 43						
4a4c:	48 b	a 6c	69	65	6e	74	movabs	\$0x6e7520746e65696c,%rdx
4a53:	20 7	5 6e						
4a56:	49 8	9 07					mov	%rax,(%r15)
4a59:	49 8	9 57	08				mov	%rdx,0x8(%r15)
4a5d:	48 b	8 61	62	6с	65	20	movabs	\$0x206f7420656c6261,%rax
4a64:	74 6	f 20						
4a67:	48 b	a 77	72	69	74	65	movabs	\$0x6f74206574697277,%rdx
4a6e:	20 7	4 6f						
4a71:	49 8	9 47	10				mov	%rax,0x10(%r15)
4a75:	49 8	9 57	18				mov	%rdx,0x18(%r15)
4a79:	48 b	8 20	74	68	65	20	movabs	\$0x7265732065687420,%rax
4a80:	73 6	5 72						
4a83:	49 8	9 47	20				mov	%rax,0x20(%r15)
4a83: 4a87:	49 8 41 c			76	65	72	mov movl	%rax,0x20(%r15) \$0x726576,0x28(%r15)
				76	65	72		
4a87:	41 c	7 47		76	65	72		
4a87: 4a8e:	41 c	7 47 9 e7	28		65	72	movl	\$0x726576,0x28(%r15) %r12d,%edi
4a87: 4a8e: 4a8f:	41 c	7 47 9 e7 9 e7	28 ff	ff	65	72	movl	\$0x726576,0x28(%r15) %r12d,%edi
4a87: 4a8e: 4a8f: 4a92:	41 c 00 44 8 e8 f	7 47 9 e7 9 e7 f ff	28 ff	ff	65	72	movl mov callq mov	\$0x726576,0x28(%r15) %r12d,%edi 3290 <close@plt></close@plt>
4a87: 4a8e: 4a8f: 4a92: 4a97:	41 c 00 44 8 e8 f b8 f e9 0	7 47 9 e7 9 e7 f ff 5 ff	28 ff ff	ff ff		72	movl callq mov jmpq	<pre>\$0x726576,0x28(%r15) %r12d,%edi 3290 <close@plt> \$0xfffffffff,%eax</close@plt></pre>
4a87: 4a8e: 4a8f: 4a92: 4a97: 4a9c:	41 c 00 44 8 e8 f b8 f e9 0	7 47 9 e7 9 e7 f ff 5 ff 8 45	28 ff ff	ff ff			movl callq mov jmpq	<pre>\$0x726576,0x28(%r15) %r12d,%edi 3290 <close@plt> \$0xfffffffff,%eax 49a6 <submitr+0x683></submitr+0x683></close@plt></pre>
4a87: 4a8e: 4a8f: 4a92: 4a97: 4a9c: 4aa1:	41 c 00 44 8 e8 f b8 f e9 0 48 b 3a 2	7 47 9 e7 9 e7 f ff 5 ff 8 45 0 52	28 ff ff ff 72	ff ff ff 72	6f	72	movl  mov  callq  mov  jmpq  movabs	<pre>\$0x726576,0x28(%r15) %r12d,%edi 3290 <close@plt> \$0xfffffffff,%eax 49a6 <submitr+0x683></submitr+0x683></close@plt></pre>
4a87: 4a8e: 4a8f: 4a92: 4a97: 4a9c: 4aa1: 4aa8:	41 c 00 44 8 e8 f b8 f e9 0 48 b 3a 2	7 47 9 e7 9 e7 f ff 8 45 0 52 a 65	28 ff ff ff 72	ff ff ff 72	6f	72	movl  mov  callq  mov  jmpq  movabs	<pre>\$0x726576,0x28(%r15) %r12d,%edi 3290 <close@plt> \$0xfffffffff,%eax 49a6 <submitr+0x683> \$0x52203a726f727245,%rax</submitr+0x683></close@plt></pre>
4a87: 4a8e: 4a8f: 4a92: 4a97: 4a9c: 4aa1: 4aa8: 4aab:	41 c 00   44 8 e8 f b8 f e9 0 48 b 3a 2 48 b	7 47 9 e7 9 e7 f ff 8 45 0 52 a 65 3 74	28 ff ff ff 72	ff ff ff 72	6f	72	movl  mov  callq  mov  jmpq  movabs  movabs	<pre>\$0x726576,0x28(%r15) %r12d,%edi 3290 <close@plt> \$0xfffffffff,%eax 49a6 <submitr+0x683> \$0x52203a726f727245,%rax</submitr+0x683></close@plt></pre>
4a87: 4a8e: 4a8f: 4a92: 4a97: 4a9c: 4aa1: 4aa8: 4aab: 4ab2:	41 c 00   44 8 e8 f b8 f e9 0 48 b 3a 2 48 b 20 7	7 47 9 e7 9 e7 f ff 8 45 0 52 a 65 3 74 9 07	28 ff ff ff 72	ff ff ff 72	6f	72	movl  mov  callq  mov  jmpq  movabs  movabs	<pre>\$0x726576,0x28(%r15) %r12d,%edi 3290 <close@plt> \$0xffffffffff,%eax 49a6 <submitr+0x683> \$0x52203a726f727245,%rax \$0x747320746c757365,%rdx</submitr+0x683></close@plt></pre>
4a87: 4a8e: 4a8f: 4a92: 4a97: 4a9c: 4aa1: 4aa8: 4aab: 4ab2: 4ab5:	41 c 00   44 8 e8 f b8 f e9 0 48 b 3a 2 48 b 20 7 49 8	7 47 9 e7 9 e7 f ff 5 ff 8 45 0 52 a 65 3 74 9 07 9 57	28 ff ff ff 72 73	fff fff 72	6f	72 74	movl  mov callq mov jmpq movabs  movabs  mov	<pre>\$0x726576,0x28(%r15) %r12d,%edi 3290 <close@plt> \$0xffffffffff,%eax 49a6 <submitr+0x683> \$0x52203a726f727245,%rax \$0x747320746c757365,%rdx %rax,(%r15)</submitr+0x683></close@plt></pre>
4a87: 4a8e: 4a8f: 4a92: 4a97: 4a9c: 4aa1: 4aa8: 4aab: 4ab2: 4ab5: 4ab8:	41 c 00   44 8 e8 f b8 f e9 0 48 b 3a 2 48 b 20 7 49 8	7 47 9 e7 9 e7 f ff 5 ff 8 45 0 52 a 65 3 74 9 07 9 57 8 72	28 ff ff ff 72 73	fff fff 72	6f	72 74	movl  mov callq mov jmpq movabs  movabs  mov	<pre>\$0x726576,0x28(%r15) %r12d,%edi 3290 <close@plt> \$0xffffffffff,%eax 49a6 <submitr+0x683> \$0x52203a726f727245,%rax \$0x747320746c757365,%rdx %rax,(%r15) %rdx,0x8(%r15)</submitr+0x683></close@plt></pre>

	4acd:	20	61	6e									
	4ad0:	49	89	47	10				mov	%rax,0x10(%r15)			
	4ad4:	49	89	57	18				mov	%rdx,0x18(%r15)			
	4ad8:	48	b8	20	69	6с	6с	65	movabs	\$0x6c6167656c6c6920,%rax			
	4adf:	67	61	6с									
	4ae2:	48	ba	20	6f	72	20	75	movabs	\$0x72706e7520726f20,%rdx			
	4ae9:	6e	70	72									
	4aec:	49	89	47	20				mov	%rax,0x20(%r15)			
	4af0:	49	89	57	28				mov	%rdx,0x28(%r15)			
	4af4:	48	b8	69	6e	74	61	62	movabs	\$0x20656c6261746e69,%rax			
	4afb:	6с	65	20									
	4afe:	48	ba	63	68	61	72	61	movabs	\$0x6574636172616863,%rdx			
	4b05:	63	74	65									
	4b08:	49	89	47	30				mov	%rax,0x30(%r15)			
	4b0c:	49	89	57	38				mov	%rdx,0x38(%r15)			
	4b10:	66	41	с7	47	40	72	2e	movw	\$0x2e72,0x40(%r15)			
	4b17:	41	с6	47	42	00			movb	\$0x0,0x42(%r15)			
	4b1c:	44	89	е7					mov	%r12d,%edi			
	4b1f:	е8	6с	e7	ff	ff			callq	3290 <close@plt></close@plt>			
	4b24:	b8	ff	ff	ff	ff			mov	<pre>\$0xfffffffff,%eax</pre>			
	4b29:	е9	78	fe	ff	ff			jmpq	49a6 <submitr+0x683></submitr+0x683>			
	4b2e:	48	8d	bc	24	50	20	00	lea	0x2050(%rsp),%rdi			
	4b35:	00											
	4b36:	48	8d	84	24	50	40	00	lea	0x4050(%rsp),%rax			
	4b3d:	00											
	4b3e:	50							push	%rax			
	4b3f:	ff	74	24	18				pushq	0x18(%rsp)			
	4b43:	ff	74	24	28				pushq	0x28(%rsp)			
	4b47:	ff	74	24	20				pushq	0x20(%rsp)			
	4b4b:	4c	8b	4c	24	20			mov	0x20(%rsp),%r9			
	4b50:	4c	8d	05	d1	17	00	00	lea	0x17d1(%rip),%r8	#	632	8.8
2 7	matt 3/191±0	<del>v</del> 11	125										

<array.3481+0x1148>

4b57:	b9	00	20	00	00			mov	\$0x2000, %ecx
4b5c:	ba	01	00	00	00			mov	\$0x1,%edx
4b61:	be	00	20	00	00			mov	\$0x2000,%esi
4b66:	b8	00	00	00	00			mov	\$0x0,%eax
4b6b:	e8	a0	e6	ff	ff			callq	3210 <snprintf_chk@plt></snprintf_chk@plt>
4b70:	48	83	с4	20				add	\$0x20,%rsp
4b74:	3d	ff	1f	00	00			cmp	\$0x1fff, %eax
4b79:	0f	8f	7a	fb	ff	ff		jg	46f9 <submitr+0x3d6></submitr+0x3d6>
4b7f:	48	8d	bc	24	50	20	00	lea	0x2050(%rsp),%rdi
4b86:	00								
4b87:	48	с7	с1	ff	ff	ff	ff	mov	\$0xffffffffffffff,%rcx
4b8e:	b8	00	00	00	00			mov	\$0x0,%eax
4b93:	f2	ae						repnz s	scas %es:(%rdi),%al
4b95:	48	f7	d1					not	%rcx
4b98:	48	89	cb					mov	%rcx,%rbx
4b9b:	48	83	eb	01				sub	\$0x1,%rbx
4b9f:	0f	84	df	fb	ff	ff		je	4784 <submitr+0x461></submitr+0x461>
4ba5:	48	8d	ac	24	50	20	00	lea	0x2050(%rsp),%rbp
4bac:	00								
4bad:	41	bd	00	00	00	00		mov	\$0x0,%r13d
4bb3:	е9	a6	fb	ff	ff			jmpq	475e <submitr+0x43b></submitr+0x43b>
4bb8:	e8	b3	e6	ff	ff			callq	3270 <stack_chk_fail@plt></stack_chk_fail@plt>

# 0000000000004bbd <init\_timeout>:

4bbd:	f3 Of le fa	endbr64	
4bc1:	85 ff	test %edi,%edi	
4bc3:	75 01	<pre>jne 4bc6 <init_timeout+0x9></init_timeout+0x9></pre>	
4bc5:	c3	retq	
4bc6:	53	push %rbx	
4bc7:	89 fb	mov %edi,%ebx	
4bc9:	48 8d 35 54 f6 ff ff	lea -0x9ac(%rip),%rsi # 422	24
<sigalrm_han< td=""><td>dler&gt;</td><td></td><td></td></sigalrm_han<>	dler>		

4bd0: bf 0e 00 00 00 mov \$0xe, %edi

4bd5: e8 e6 e6 ff ff callq 32c0 <signal@plt>

4bda: 85 db test %ebx,%ebx

4bdc: bf 00 00 00 00 mov \$0x0,%edi

4bel: Of 49 fb cmovns %ebx, %edi

4be4: e8 97 e6 ff ff callq 3280 <alarm@plt>

4be9: 5b pop %rbx

4bea: c3 retq

#### 0000000000004beb <init driver>:

4beb: f3 Of le fa endbr64

4bef: 41 54 push %r12

4bf1: 55 push %rbp

4bf2: 53 push %rbx

4bf3: 48 83 ec 20 sub \$0x20,%rsp

4bf7: 48 89 fd mov %rdi,%rbp

4bfa: 64 48 8b 04 25 28 00 mov %fs:0x28,%rax

4c01: 00 00

4c03: 48 89 44 24 18 mov %rax,0x18(%rsp)

4c08: 31 c0 xor %eax, %eax

4c0a: be 01 00 00 00 mov \$0x1, %esi

4c0f: bf 0d 00 00 00 mov \$0xd, %edi

4c14: e8 a7 e6 ff ff callq 32c0 <signal@plt>

4c19: be 01 00 00 00 mov \$0x1, %esi

4cle: bf 1d 00 00 00 mov \$0x1d, %edi

4c23: e8 98 e6 ff ff callq 32c0 <signal@plt>

4c28: be 01 00 00 00 mov \$0x1, %esi

4c2d: bf 1d 00 00 00 mov \$0x1d, %edi

4c32: e8 89 e6 ff ff callq 32c0 <signal@plt>

4c37: ba 00 00 00 00 mov \$0x0,%edx

4c3c: be 01 00 00 00 mov \$0x1,%esi

4c41:	bf 02 00 00 00	mov \$0x2,%edi
4c46:	e8 65 e7 ff ff	callq 33b0 <socket@plt></socket@plt>
4c4b:	85 c0	test %eax, %eax
4c4d:	0f 88 9c 00 00 00	js 4cef <init_driver+0x104></init_driver+0x104>
4c53:	89 c3	mov %eax,%ebx
4c55:	48 8d 3d 68 17 00 00	lea 0x1768(%rip),%rdi # 63c4
<array.3481+0< td=""><td></td><td></td></array.3481+0<>		
4c5c:	e8 6f e6 ff ff	callq 32d0 <gethostbyname@plt></gethostbyname@plt>
4c61:	48 85 c0	test %rax,%rax
4c64:	0f 84 d1 00 00 00	je 4d3b <init_driver+0x150></init_driver+0x150>
4c6a:	49 89 e4	mov %rsp,%r12
4c6d:	48 c7 04 24 00 00 00	movq \$0x0,(%rsp)
4c74:	00	
4c75:	48 c7 44 24 08 00 00	movq \$0x0,0x8(%rsp)
4c7c:	00 00	
4c7e:	66 c7 04 24 02 00	movw \$0x2,(%rsp)
4c84:	48 63 50 14	movslq 0x14(%rax),%rdx
4c88:	48 8b 40 18	mov 0x18(%rax),%rax
4c8c:	48 8d 7c 24 04	lea 0x4(%rsp),%rdi
4c91:	b9 0c 00 00 00	mov \$0xc, %ecx
4c96:	48 8b 30	mov (%rax),%rsi
4c99:	e8 42 e6 ff ff	callq 32e0 <memmove_chk@plt></memmove_chk@plt>
4c9e:	66 c7 44 24 02 3b 6e	movw \$0x6e3b,0x2(%rsp)
4ca5:	ba 10 00 00 00	mov \$0x10,%edx
4caa:	4c 89 e6	mov %r12,%rsi
4cad:	89 df	mov %ebx,%edi
4caf:	e8 ac e6 ff ff	callq 3360 <connect@plt></connect@plt>
4cb4:	85 c0	test %eax,%eax
4cb6:	Of 88 e7 00 00 00	<pre>js 4da3 <init_driver+0x1b8></init_driver+0x1b8></pre>
4cbc:	89 df	mov %ebx,%edi
4cbe:	e8 cd e5 ff ff	callq 3290 <close@plt></close@plt>
4cc3:	66 c7 45 00 4f 4b	movw \$0x4b4f,0x0(%rbp)

4cc9:	с6	45	02	00				movb	\$0x0,0x2(%rbp)
4ccd:	b8	00	00	00	00			mov	\$0x0,%eax
4cd2:	48	8b	4c	24	18			mov	0x18(%rsp),%rcx
4cd7:	64					28	00	xor	%fs:0x28,%rcx
4cde:	00								
4ce0:	0f	85	f5	00	00	00		jne	4ddb <init driver+0x1f0=""></init>
4ce6:	48	83	с4	20				add	- \$0x20,%rsp
4cea:	5b							pop	%rbx
4ceb:	5d							pop	%rbp
4cec:	41	5c						pop	%r12
4cee:	с3							retq	
4cef:	48	b8	45	72	72	6f	72	_	\$0x43203a726f727245,%rax
4cf6:	3a .	20	43						
4cf9:	48	ba	6с	69	65	6e	74	movabs	\$0x6e7520746e65696c,%rdx
4d00:	20	75	6e						
4d03:	48	89	45	00				mov	%rax,0x0(%rbp)
4d07:	48	89	55	08				mov	%rdx,0x8(%rbp)
4d0b:	48	b8	61	62	6с	65	20	movabs	\$0x206f7420656c6261,%rax
4d12:	74	6f	20						
4d12: 4d15:				72	65	61	74	movabs	\$0x7320657461657263,%rdx
		ba	63	72	65	61	74	movabs	\$0x7320657461657263,%rdx
4d15:	48	ba 20	63 73		65	61	74	movabs	\$0x7320657461657263,%rdx %rax,0x10(%rbp)
4d15: 4d1c:	48 1	ba 20 89	<ul><li>63</li><li>73</li><li>45</li></ul>	10	65	61	74		
4d15: 4d1c: 4d1f:	48 : 65 : 48	ba 20 89	<ul><li>63</li><li>73</li><li>45</li><li>55</li></ul>	10 18				mov	%rax,0x10(%rbp)
4d15: 4d1c: 4d1f: 4d23:	48 1 65 48 48	ba 20 89 89	63 73 45 55 20	10 18 6f	63	6b		mov	%rax,0x10(%rbp) %rdx,0x18(%rbp)
4d15: 4d1c: 4d1f: 4d23: 4d27:	48 : 65 : 48 : 48 : c7	ba 20 89 89 45	63 73 45 55 20 45	10 18 6f 24	63 74	6b		mov mov	%rax,0x10(%rbp) %rdx,0x18(%rbp) \$0x656b636f,0x20(%rbp)
4d15: 4d1c: 4d1f: 4d23: 4d27: 4d2e:	48 : 65 : 48 : 48 : c7 : 66 :	ba 20 89 89 45 c7	63 73 45 55 20 45	10 18 6f 24	63 74	6b		mov movl movw	%rax,0x10(%rbp) %rdx,0x18(%rbp) \$0x656b636f,0x20(%rbp) \$0x74,0x24(%rbp)
4d15: 4d1c: 4d1f: 4d23: 4d27: 4d2e: 4d34:	48 : 65 48 48 c7 66 b8 eb	ba 20 89 89 45 c7 fff	63 73 45 55 20 45 ff	10 18 6f 24 ff	63 74 ff	6b 00		mov movl movw mov jmp	%rax,0x10(%rbp) %rdx,0x18(%rbp) \$0x656b636f,0x20(%rbp) \$0x74,0x24(%rbp) \$0xfffffffff,%eax
4d15: 4d1c: 4d1f: 4d23: 4d27: 4d2e: 4d34: 4d39:	48 : 65 48 48 c7 66 b8 eb	ba 20 89 89 45 c7 fff 97 b8	63 73 45 55 20 45 ff	10 18 6f 24 ff	63 74 ff	6b 00	65	mov movl movw mov jmp	<pre>%rax,0x10(%rbp) %rdx,0x18(%rbp) \$0x656b636f,0x20(%rbp) \$0x74,0x24(%rbp) \$0xfffffffff,%eax 4cd2 <init_driver+0xe7></init_driver+0xe7></pre>
4d15: 4d1c: 4d1f: 4d23: 4d27: 4d2e: 4d34: 4d39: 4d3b:	48 : 65 48 48 66 66 66 66 68 68 68 68 68 68 68 68 68	ba 20 89 89 45 c7 fff 97 b8	63 73 45 55 20 45 fff 45	10 18 6f 24 ff	63 74 ff	6b 00	<ul><li>65</li><li>72</li></ul>	mov movl movw mov jmp movabs	<pre>%rax,0x10(%rbp) %rdx,0x18(%rbp) \$0x656b636f,0x20(%rbp) \$0x74,0x24(%rbp) \$0xfffffffff,%eax 4cd2 <init_driver+0xe7></init_driver+0xe7></pre>
4d15: 4d1c: 4d1f: 4d23: 4d27: 4d2e: 4d34: 4d39: 4d3b: 4d42:	48 : 65 48 48 66 66 66 66 68 68 68 68 68 68 68 68 68	ba 20 89 89 45 c7 fff 97 b8 20 ba	63 73 45 55 20 45 ff 45 44 4e	10 18 6f 24 ff	63 74 ff	6b 00	<ul><li>65</li><li>72</li></ul>	mov movl movw mov jmp movabs	<pre>%rax,0x10(%rbp) %rdx,0x18(%rbp) \$0x656b636f,0x20(%rbp) \$0x74,0x24(%rbp) \$0xfffffffff,%eax 4cd2 <init_driver+0xe7> \$0x44203a726f727245,%rax</init_driver+0xe7></pre>
4d15: 4d1c: 4d1f: 4d23: 4d27: 4d2e: 4d34: 4d39: 4d3b: 4d42: 4d45:	48 : 65 48 48 67 66 66 68 48 3a 48 :	ba 20 89 89 45 c7 fff 97 b8 20 ba 75	63 73 45 55 20 45 ff 45 44 4e 6e	10 18 6f 24 ff 72	63 74 ff	6b 00	<ul><li>65</li><li>72</li></ul>	mov movl movw mov jmp movabs	<pre>%rax,0x10(%rbp) %rdx,0x18(%rbp) \$0x656b636f,0x20(%rbp) \$0x74,0x24(%rbp) \$0xfffffffff,%eax 4cd2 <init_driver+0xe7> \$0x44203a726f727245,%rax</init_driver+0xe7></pre>

4d53:	48 89	55	08				mov	%rdx,0x8(%rbp)
4d57:	48 b8	8 61	62	6с	65	20	movabs	\$0x206f7420656c6261,%rax
4d5e:	74 6f	20						
4d61:	48 ba	a 72	65	73	6f	6с	movabs	\$0x2065766c6f736572,%rdx
4d68:	76 65	5 20						
4d6b:	48 89	45	10				mov	%rax,0x10(%rbp)
4d6f:	48 89	55	18				mov	%rdx,0x18(%rbp)
4d73:	48 b8	3 73	65	72	76	65	movabs	\$0x6120726576726573,%rax
4d7a:	72 20	61						
4d7d:	48 89	45	20				mov	%rax,0x20(%rbp)
4d81:	c7 45	5 28	64	64	72	65	movl	\$0x65726464,0x28(%rbp)
4d88:	66 c7	45	2c	73	73		movw	\$0x7373,0x2c(%rbp)
4d8e:	c6 45	5 2e	00				movb	\$0x0,0x2e(%rbp)
4d92:	89 df						mov	%ebx,%edi
4d94:	e8 f7	e4	ff	ff			callq	3290 <close@plt></close@plt>
4d99:	b8 ff	ff	ff	ff			mov	<pre>\$0xffffffffffffffffffffffffffffffffffff</pre>
4d9e:	e9 2f	ff	ff	ff			jmpq	4cd2 <init_driver+0xe7></init_driver+0xe7>
4da3:	4c 8c	d 05	1a	16	00	00	lea	0x161a(%rip),%r8 # 63c4
<array.348< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></array.348<>								
4daa:	48 80		cf	15	00	00	lea	0x15cf(%rip),%rcx # 6380
<array.348 4db1:<="" td=""><td>48 c7</td><td></td><td>ff</td><td>ff</td><td>ff</td><td>ff</td><td>mov</td><td><pre>\$0xffffffffffffffffffffffffffffffffffff</pre></td></array.348>	48 c7		ff	ff	ff	ff	mov	<pre>\$0xffffffffffffffffffffffffffffffffffff</pre>
4db8:	be 01	. 00	00	00			mov	\$0x1,%esi
4dbd:	48 89	ef					mov	%rbp,%rdi
4dc0:	b8 00	00	00	00			mov	\$0x0,%eax
4dc5:	e8 d6	e5	ff	ff			callq	33a0 <sprintf_chk@plt></sprintf_chk@plt>
4dca:	89 df						mov	%ebx,%edi
4dcc:	e8 bf	E e4	ff	ff			callq	3290 <close@plt></close@plt>
4dd1:	b8 ff	ff	ff	ff			mov	\$0xfffffffff,%eax
4dd6:	e9 f7	fe fe	ff	ff			jmpq	4cd2 <init_driver+0xe7></init_driver+0xe7>
4ddb:				ff				3270 < stack chk fail@plt>

## 00000000000004de0 <driver\_post>:

4de0:	f3 Of	1e	fa				endbr6	4		
4de4:	53						push	%rbx		
4de5:	4c 89	) c3					mov	%r8,%rbx		
4de8:	85 c9	)					test	%ecx, %ecx		
4dea:	75 17	7					jne	4e03 <driver_post+0x23></driver_post+0x23>		
4dec:	48 85	ff					test	%rdi,%rdi		
4def:	74 05	5					je	4df6 <driver_post+0x16></driver_post+0x16>		
4df1:	80 3f	00					cmpb	\$0x0,(%rdi)		
4df4:	75 33	3					jne	4e29 <driver_post+0x49></driver_post+0x49>		
4df6:	66 c7	03	4f	4b			movw	\$0x4b4f,(%rbx)		
4dfb:	c6 43	3 02	00				movb	\$0x0,0x2(%rbx)		
4dff:	89 c8	3					mov	%ecx, %eax		
4e01:	5b						pop	%rbx		
4e02:	с3						retq			
4e03:	48 80	35	d5	15	00	00	lea	0x15d5(%rip),%rsi	#	63df
<array.3481+0< td=""><td>0x11ff</td><td>&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></array.3481+0<>	0x11ff	>								
4e0a:	bf 01	. 00	00	00			mov	\$0x1,%edi		
4e0f:	b8 00	00	00	00			mov	\$0x0,%eax		
4e14:	e8 07	e5	ff	ff			callq	3320 <printf_chk@plt></printf_chk@plt>		
4e19:	66 c7	03	4f	4b			movw	\$0x4b4f,(%rbx)		
4e1e:	c6 43	3 02	00				movb	\$0x0,0x2(%rbx)		
4e22:	b8 00	00	00	00			mov	\$0x0,%eax		
4e27:	eb d8	3					jmp	4e01 <driver_post+0x21></driver_post+0x21>		
4e29:	41 50	)					push	%r8		
4e2b:	52						push	%rdx		
4e2c:	4c 8c	d Od	с3	15	00	00	lea	0x15c3(%rip),%r9	# 6	3f6
<array.3481+0< td=""><td>0x1216</td><td>&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></array.3481+0<>	0x1216	>								
4e33:	49 89	) f0					mov	%rsi,%r8		
4e36:	48 89	) f9					mov	%rdi,%rcx		
4e39:	48 80	15	ba	15	00	00	lea	0x15ba(%rip),%rdx	#	63fa
<array.3481+0< td=""><td>0x121a</td><td>&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></array.3481+0<>	0x121a	>								
4e40:	be 6e	e 3b	00	00			mov	\$0x3b6e,%esi		

48 8d 3d 78 15 00 00 4e45: lea 0x1578(%rip),%rdi # 63c4 <array.3481+0x11e4> callq 4323 <submitr> 4e4c: e8 d2 f4 ff ff 48 83 c4 10 \$0x10,%rsp 4e51: add 4e01 <driver\_post+0x21> 4e55: eb aa jmp 4e57: 66 Of 1f 84 00 00 00 nopw 0x0(%rax, %rax, 1) 4e5e: 00 00 0000000000004e60 < libc csu init>: 4e60: f3 Of 1e fa endbr64 4e64: 41 57 push %r15 4c 8d 3d 73 2e 00 00 lea 0x2e73(%rip),%r15 # 7ce0 < frame dummy init array entry> 41 56 4e6d: push %r14 4e6f: 49 89 d6 %rdx,%r14 mov 4e72: 41 55 %r13 push 4e74: 49 89 f5 mov %rsi,%r13 4e77: 41 54 push %r12 4e79: 41 89 fc %edi,%r12d mov 4e7c: 55 push %rbp 4e7d: 48 8d 2d 64 2e 00 00 0x2e64(%rip),%rbp # 7ce8 lea < do global dtors aux fini array entry> 4e84: 53 %rbx push 4e85: 4c 29 fd sub %r15,%rbp 4e88: 48 83 ec 08 sub \$0x8,%rsp 4e8c: e8 6f e1 ff ff callq 3000 < init> 4e91: 48 c1 fd 03 sar \$0x3,%rbp 4e95: 74 1f 4eb6 < libc csu init+0x56> jе 4e97: 31 db %ebx,%ebx xor 4e99: Of 1f 80 00 00 00 00 nopl 0x0(%rax) 4ea0: 4c 89 f2 %r14,%rdx mov

mov

mov

%r13,%rsi

%r12d,%edi

4ea3:

4ea6:

4c 89 ee

44 89 e7

4ea9: 41 ff 14 df callq \*(%r15,%rbx,8)

4ead: 48 83 c3 01 add \$0x1,%rbx

4eb1: 48 39 dd cmp %rbx,%rbp

4eb4: 75 ea jne 4ea0 <\_\_libc\_csu\_init+0x40>

4eb6: 48 83 c4 08 add \$0x8,%rsp

4eba: 5b pop %rbx

4ebb: 5d pop %rbp

4ebc: 41 5c pop %r12

4ebe: 41 5d pop %r13

4ec0: 41 5e pop %r14

4ec2: 41 5f pop %r15

4ec4: c3 retq

4ec5: 66 66 2e 0f 1f 84 00 data16 nopw %cs:0x0(%rax,%rax,1)

4ecc: 00 00 00 00

00000000000004ed0 <\_\_libc\_csu\_fini>:

4ed0: f3 Of le fa endbr64

4ed4: c3 retq

Disassembly of section .fini:

00000000000004ed8 <\_fini>:

4ed8: f3 Of le fa endbr64

4edc: 48 83 ec 08 sub \$0x8,%rsp

4ee0: 48 83 c4 08 add \$0x8,%rsp

4ee4: c3 retq