

CS 255 Computer Security
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1. IOLI -Crackme Passwords

- a) **Crackme 0x00:** 250382
- b) **Crackme 0x01:** 5274
- c) **Crackme 0x02:** 338724
- d) **Crackme 0x03:** 338724
- e) **Crackme 0x04:** 5555/28678
- f) **Crackme 0x05:** 88
- g) **Crackme 0x06:** First three letters should be "LOL" with "LOLO" = 6262

2. Bomblab :

- a) What is your mother's maiden name? //written in comments when did gdb
- b) Paper (tricky one) : Looking at phase_funcall, the return function helped derive "paper"
- c) P@s\$wOrd : looking at string_length and the hint we know its password, this took a long time for me to derive, but looking at the register values it helped me the nature of the password
- d) Next is also tricky but after a careful look at the sym.phase_quick, I came to a conclusion that in order to defuse this phase, we take an arbitrary int value for x : The solution for this phase then comes : x x+1 x+3 x+6 x+10 x+15
- e) Looking onto the phase_jump: After looking at gdb, I see need to enter into eax arguments 0-7 for making a jump on its value. After inputting 0 I get 603, then I tried a random value 6, I got 326 . Hence the solution : 0 603 / 6 326.
My Output :

```
taror002@bolt $ ./bomb
```

[illegible]

Welcome to my fiendish little bomb. You have N? phases with which to blow yourself up. See you alive!

(hint: security question)

> What is your mother's maiden name?

Phase 1 defused. How about the next one?

```
(hint: rock? paper? scissors?)
```

[> paper

Got it. Here is the next phase!

```
(hint: password)
```

```
[> P@s$w0rd
```

Yes, don't trust anyone. Let's move.

```
(hint: quick)
```

[> 2 3 5 8 12 17

That's number 3. Keep going!

```
(hint: jump)
```

[> 6 326

Congratulations!

~/CS255/Computer-Security/bomblab

taror002@bolt \$