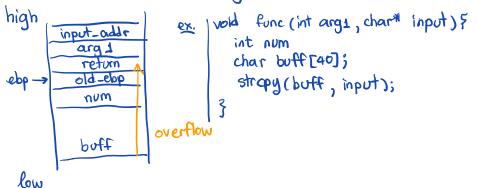
# Buffer Overflow + Lab 1

choesn't have much time to cover)

Please make sure you understand what you are doing in Lab 1



Attack to change control flow

- -overwrite return address
- u function pointer
- change data value

to could force to run some path

frintf(secret);

## Some solutions

- compiler mechanism inserting councity before return address on the stack

Canary random
Property contain NULL termination

to avoid attack writing further if he can guess can ary be most function handling string will terminate Logets()

IN ASLR

-random the address space so that attacker com't easily hardcode the address.

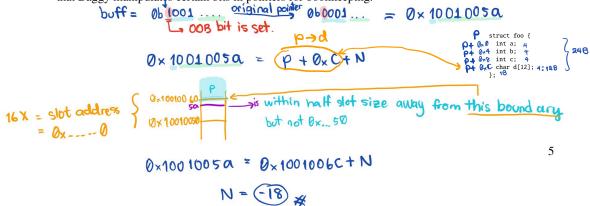
3 NX

= Non executable -> can't execute code on the stack.

### 2017

#### 7. [6 points]:

The program prints 0x9001005a. What was N? Hint 1: there is only one correct answer. Hint 2: recall that Baggy manipulates certain bits in pointers for bookkeeping.



This question wasn't covered during exam review but many students want detailed solution.

#### 2011

