Pointers

- 4) a pointer is a variable that stores an address.
- 3 questions:
- 1) how to declare pointers?
- 2) what are some sources of addresses?
- 3) What can we do with pointers? (what are its operations?)

Sources of Addresses

- 2 sources:
- 1) array names: can be used as starting address of array
- 2) address of operator (b)

p - pointer of an appropriate file int n = 12; p=kn;

Pointer Declaration

read right to left / ie. it stores the address of int var int *p; /* p is a pointer to an int */ int n = 12;

p = &n;

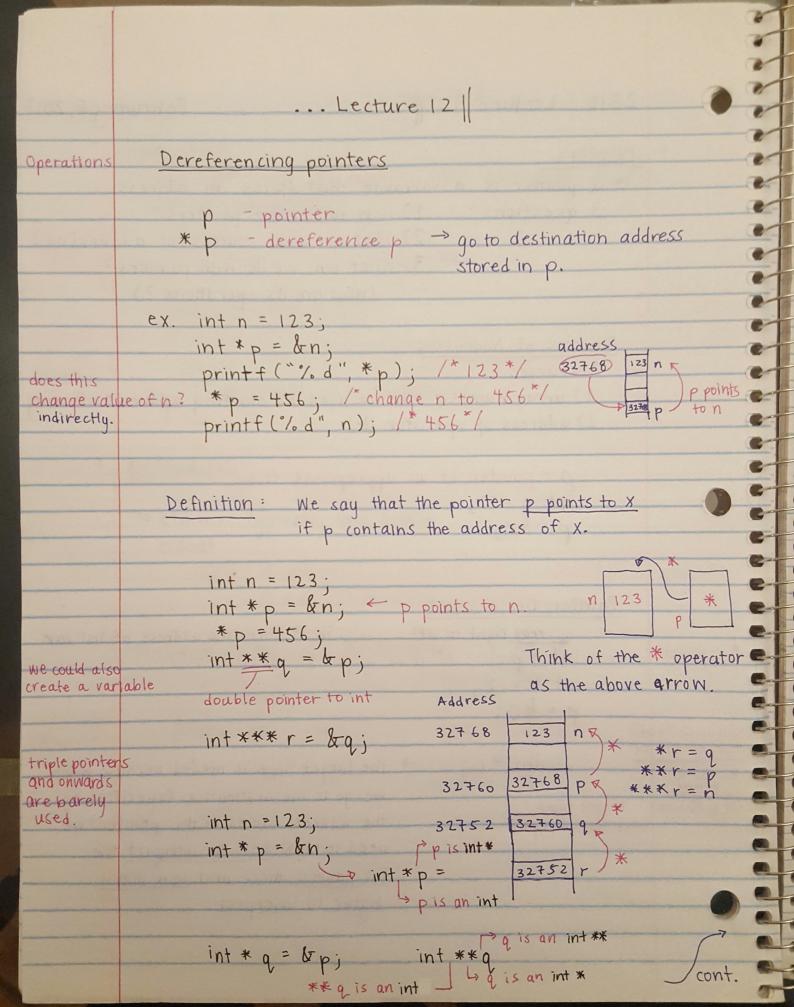
why do we need target type?

* = pointer

int * P;

target type (destination type)

-> the target type is needed because when we go to the destination (specified by the address stored in the pointer) we need to know how to interpret the bit pattern there and non many bytes to interpret



... Lecture 12

· a pointer gives us an indirect way to get to something

... If a function takes an address, it can use it to get to an outside object to change it.