C notes

Book 1

Notes from text

Ternary operator

* And if-else statement (statement) ? true : false

Literal

* A constant value assigned to a variable

Macros

* A #define function

Array def

* Arrays use pointer in the form of [… , char const\*const, …]
* For the array bird = {raven,crow} also looks like

bird = {char const\*const, char const\*const}

Array Length

* Sizeof A / sizeof A[0]; size of array divided by the size of the objects

Pointer review(I know)

* Pointers to arrays, point to the first element
* Incrementing (p++) a pointer for an array value goes to the next value
* p[0]=\*a and p[1]=\*(a+1), this will be a different number of bytes depending on how bit the object types are, char array will grow by one, but int arrays will grow 4
* when using a pointer to a structure, instead of person1.name, you do

person1->name. this saves a lot of space.

* void pointers can point to any type of pointer (ex, const void\* x)
* Function pointer is initializedby [ type (\*p name)(param,prarm…) = address pt ]
  + The pointer works the same as the function but you can use it to pass functions to other functions
  + [ Int sum = add(5 ,3) ] works the same as [ int sum = (\*pAdd)(5 ,3) ]
  + You can now create a function such as
    - Int add( char x, const void\* y)

Functions and operators

Size\_t

* A type of data that represent the size (strlen(x) returns size\_t).
* For sizes, cardinals, andordinal numbers

Qualifier

* Const is sued for variables that we don’t want to change ever

Typedef

* Lets use a new name for an existing data type
* Instead of unsinged long int = 4; we can write typedef (unsigned long int) big\_t; letting us use big\_t as a new data type.
* It can also be used to not have to use struct before a type when using a structure.

Void\*

* Pointer to an unknown type

Book 2

Notes from text

hello

Functions and operators

Extern

* (ex. Extern char x) tells the compiler that the variable is defined later or in another file.

Read later

5.7 binary representation

12 the c memory model

Everything after chapter 12

Book 2

Chapter 5

He said 5,6,9,10

Study up on

* How do header files work
* Using functions between files
* Read electrical circuitry