Last lecture: Function & passing information into hunchons "call by value"

Today: More on getting information from hunchons + pointers

How to get information from a function?

1 Using relim statement (get only 1 output)

eg. Write a Chunchror that checks if an integer is a perfect square, like 7, 9, ii, 25, 36 --return is either true or false
eg. sq.rt (4) = 2, sq.rt (5) = 2.236 --so if there is a difference between

isool is Perfect Square (int x

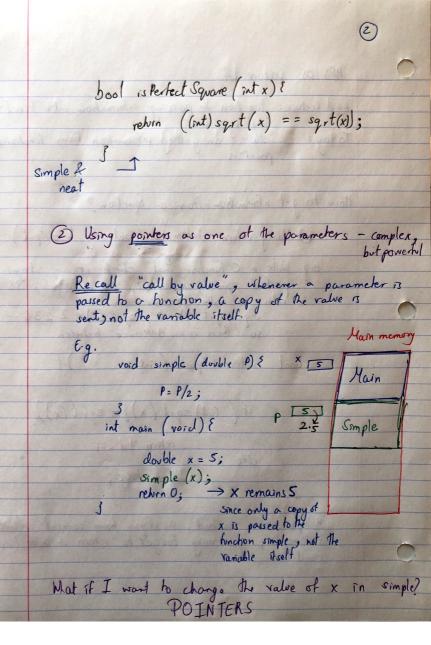
if ((int) sqrt (x)!= sqrt(x))

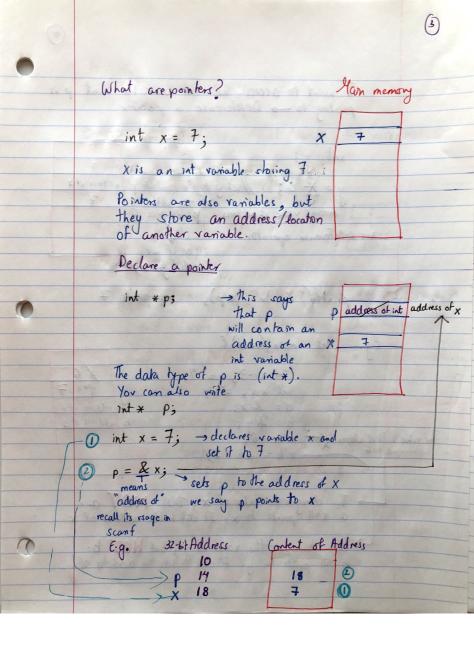
rehum false;

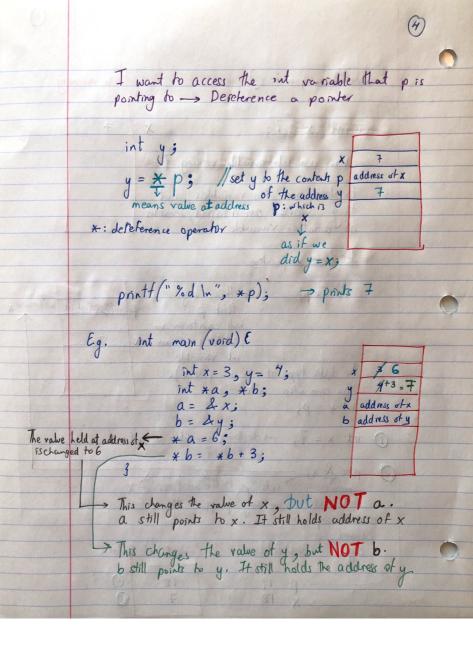
else

rehm true;

Multiple returns is bad, as if you have several if-else statements, you may torget to return in a certain condition:







```
Use case of pointers
WRONGI Wate a Chunchion that swaps two variables.
       void swap (int i, int j) &
         int temp = i;

i = j;

j = temp;
                                           temp_
        i and j are swapped in the function swap, but since
        i and j were passed "by value" changing them in
       swap will NOT change them in main
      How about we do this:
         void swap (int *pi , int *pj) {
                                                          Main
        2) *pi = *pj;

*pj = temp;

int main (void) {

int i= 5, i= 7.
                                                         Swap
                                                       address of;
                                                       address of
              int i= 5, j= 7;

swap (2:, 2:);

printf(" i: 10 d, j: 10 m", i, j);

// prints "i: 7, j: 5"
```