Structs:

- structs within structs
- design & implementation using structs
- structs as return values
- assignments to structs

Assignment to structs

Struct Product &

string name;

float price;

3 prod1;

You can do assignment field-by-field

prod1. name = "drone";

prod 1. prize = 249.59;

Or you can do it in one assignment, using & 3

prod 1 = 2 "drone" 249.59 3.

Product prod 2;

prod 2 = prod 1; // Now prod 2 has same values.

1 as prod 1

Struct assignment

```
However ...
```

You can only use struct assignment if all fields of the struct can use =

Note: Can't use = on arrays. (except with literals)

int arr [5] = { 1,2,3,4,53;

int arr2[5];

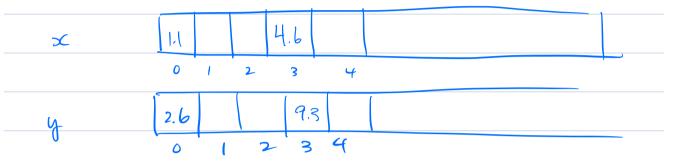
arr 2 = arr;

error: invalid array assignment

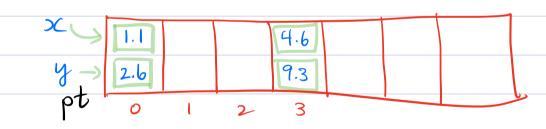
Breaking news: It didn't work an straight arrays, but it worked on structs that contain arrays! (contrary to expectation.)

Returning a struct from a function call

- Can be done
- part of usefulness of structs



// to access oth point, refer to x[0],

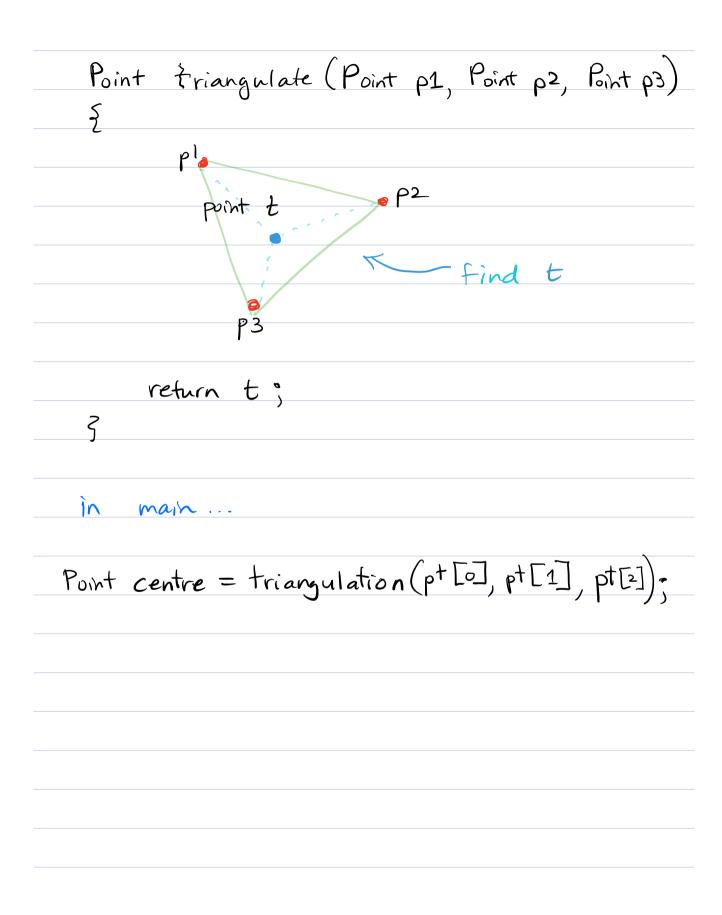


// to access oth point, refer to pt [0].x, pt [0].y.

Struct Point &

Float x;

float y;



```
void get Point ( Point & p);
int main ()
     Point x;
     get Point (x);
     return O;
void get Point (Point Top)
      cout « "Enter x-coordinate: ".
      cin >> p.x;
      cout << " Enter y-coordinate: ".
      Cin >> p.y ;
```