```
int width;
   int height;
// INITALIZING STRUCT FIELDS
struct rectangle my_rect = {1,2}; // struct fields can be intialized immediately
// ACCESS STRUCT FIELDS
   // dot notation
my_rect.width; // returns 1
my_rect.height; // returns 20
// typedefs can be assigned to structs for convenience (and also can be done during struct definition)
typedef struct rectangle rect; // this is valid
int area(rect r) {
   return r.width * r.height;
typedef struct {
   int width:
   int height;
} rect; // this is also valid
```

Operators

```
// ARITHMETIC
int i1 = 1, i2 = 2; // valid shorthand for multiple declaration
float f1 = 1.0, f2 = 2.0; // same here as well
i1 + i2; // addition
i1 - i2; // subtraction
i1 * i2; // multiplication
i1 / i2; // division, though in this case evaluates to 0.5 is truncated towards 0
11 % 3; // modulo, be careful when arguments are negative though
int j = 0;
int s = j++; // increment by 1 operator, returns j then increments it
int z = ++j; // increment by 1 operator, increments j then returns it
int e = j--; // decrement by 1 operator, decrements j then returns it
int f = --j; // decrement by 1 operator, decrements j then returns it
(float)i1/i2; // evaluates to 0.5f since we need to cast at least one integer to a float to get a floating-point result
i1/(double)i2; // does the same for doubles
f1 / f2; // evaluates to 0.5 since both are floats here so fulfills the above requirement of at least one operand being a float
// COMPARISON
3 == 2; // complete equality in value and type, returns 0
```