

Structs:

↳ Our own datatype

What if we want to make a data type which holds a flower?

↳ What things may we want to know about the flower?

- height • Color • Kingdom
- Clade ... etc

struct flower {

int height; // holds inches

char color; // holds color char

};

we can declare a flower by:

flower myflower;

datatype name

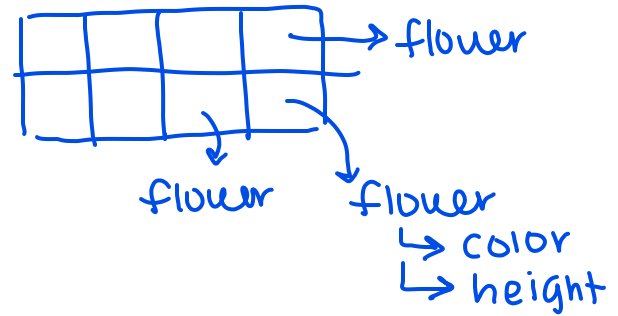
and modify it's values:

myflower.height = 2;

name attribute

myflower.color = 'c'; //cyan

What if we want to store these flowers in a garden box?



flower** garden = new flower*[3];

datatype (double ptr) name heap allocation data type (ptr) size

what does this line do?

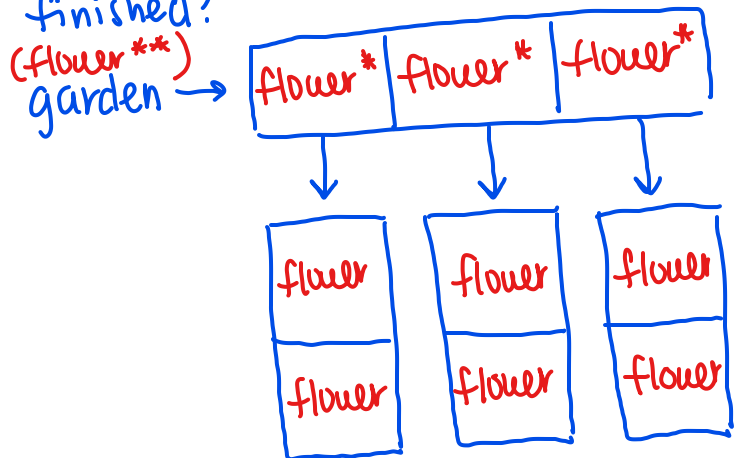
(flower**) garden → flower* flower* flower*

we've now made an array of flower*
now do we turn this into a 2D array?

for (int i = 0; i < 3, i++) {
 garden[i] = new flower[2];
}

name loop through heap alloc. data type size

what will this loop look like when it's finished?



each one of these flowers can have it's height & color attributes changed.