

comp1511 week 04

admin

- congrats on finishing **assignment 0!**
- time to get started on **assignment 1!**
 - spec will be released soon
 - livestream on Friday at 12.30pm

agenda for today

- array practice
- scanning in loops
- functions practice

array demo (see array.c)

arrays practice

Odd Only

- ☐ Create an integer array with at least 5 elements.
- ☐ Create a while loop which loops through every element of the array.
- ☐ Write an `if` statement which adds 1 to each **even** value. Do this within the `while` loop.
- ☐ Write another while loop which goes through the array *with a different iterator* (i.e. if you used `i` last time, use `j`)
- ☐ Print out the values in the array.

Copy Array

- ☐ Create an array of doubles with 3 elements, each with a non-zero value.
- ☐ Create another array of doubles with 10 elements where every element initialised to `0.0` .
- ☐ Create a while loop that loops through every element of the first array.
- ☐ Copy the elements of the first array into the second array (leave 0's at the end)
- ☐ Create a while loop that prints out all the elements of the second array.

scanning in loops (see scanf.c)

we are going to scan temperatures into an array, and then find the largest of them

functions

```
int is_even(int num) {  
    int even_or_odd = 1;  
    if (num % 2 == 1) {  
        even_or_odd = 0;  
    }  
    return even_or_odd;  
}
```

functions kahoot

```
struct colour {  
    int red;  
    int green;  
    int blue;  
};
```

```
struct colour make_colour(int red, int green, int blue) {  
    struct colour new_colour;  
  
    new_colour.red = red;  
    new_colour.green = green;  
    new_colour.blue = blue;  
  
    return new_colour;  
}
```

<https://create.kahoot.it/share/writting-colours-22t3/49303d4d-b0c4-468e-90d6-4c92ce97bc8b>

any questions?