COMP1511
Tutorial 4

Arrays | Functions | scanf loops

Arrays Relay

We'll be completing *copy_array* on the whiteboards in your groups

You may only send up 2 people at a time

Tasks must be split evenly - you can't send someone up to do a second task until everyone's done at least one task

copy_array

- Create an array of doubles with 3 elements.

- Create another double array of 10 elements; but every element initialised to 0.

- Create a while loop which 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 which prints out all the elements of the second array.

scanf loops

We're going to make a program that calls *scanf* multiple times to scan in multiple values from the user. This program will:

Scan temperature values into an array

Find the maximum temperature and print it out

What are the main steps we'll need to make this program?

scanf loops

What does *scanf* return?

How can we use this result to check whether a user signals the end-of-file?

This lets us use *scanf* in a loop to scan in multiple values!

scanf loop demo

More Functions

We'll be writing functions that use this struct and enum to deal with colours:

make_colour

get_main_colour

brightness

average_brightness

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

enum main_colours {
    RED,
    GREEN,
    BLUE,
};
```