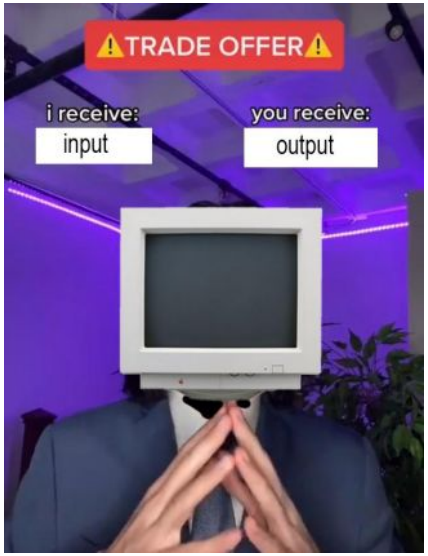


comp1511 week 4

starting 5 minutes past the hour

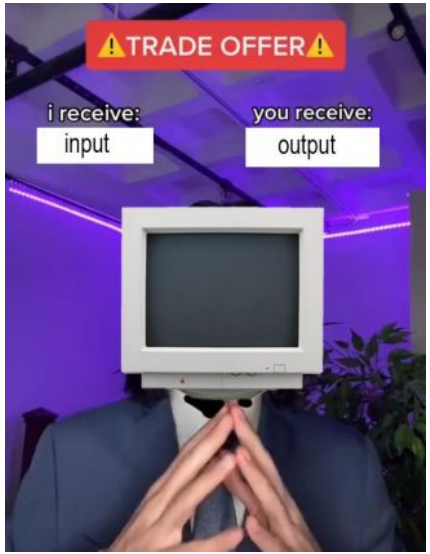
Ada Luong

today

- functions
- arrays
- scanf
- [lab time]

functions as a concept

- What are functions?
- What functions have we seen already?
- How do functions work?
- What are the benefits of duplicating our code in the main function vs. using functions?



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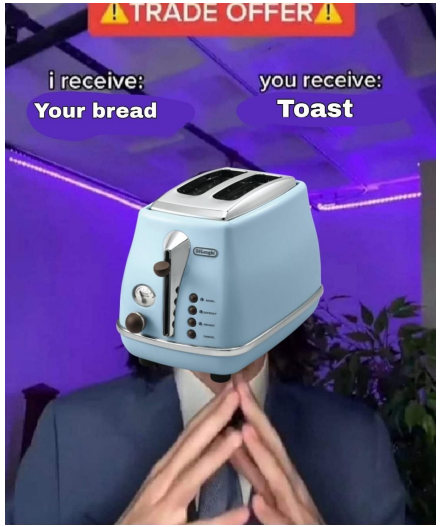

Here is an example of a function, what is its structure? What keywords are used?

```
1 int get_larger(int first_num, int second_num) {
2     int larger = first_num;
3     if (second_num > first_num) {
4         larger = second_num;
5     }
6
7     return larger;
8 }
```

What function type tells C that a function will not return anything? Why would we want a function that does not `return` any information back?

code demos

- **Creating Functions**
  - is_even.c
- **Function Scope Discussion**
  - Change_number.c

// A function which takes in an integer and returns 1 if it is an even

// number and 0 if it is not

arrays

what are they and why do we care?

0	1	2	3	4	5
3	**24**	**7**	**0**	**13**	**63**

{ code demos and arrays }

`array.c`

- creating and initialising an array
- accessing elements of an array
- printing all the contents in an array (with functions)

`change_element.c`

- arrays and functions

scanf is a function :0

Discuss how we could create a loop that would continually read values in from standard input until the user inputs anything other than a number (or the input ends).

Assignment 1: CS Explorer

- Watch Sasha's lecture detailing the assignment!
  - March 9 @ 3 PM AEST
- Have you downloaded the starter code and have it ready to work on your coding environment?

https://cgi.cse.unsw.edu.au/~cs1511/22T1/assignments/ass1/index.html#assessment