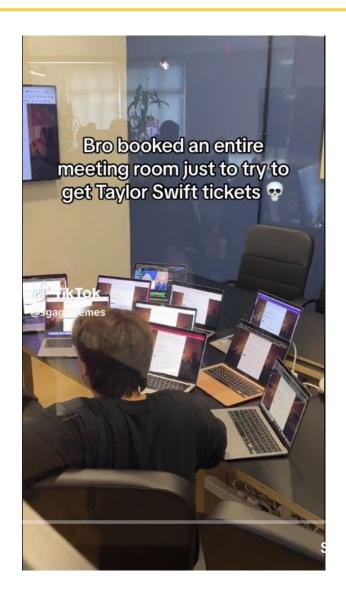
what a cruel summer





William's friends success stories:

- 2x VIP tickets
- 2x reserve seats tickets
- Queue number is 6 digits

COMP1511 Week 7!

T14A: 2pm – 5pm

Tutors: Me + Vivian Zheng

My GitHub:



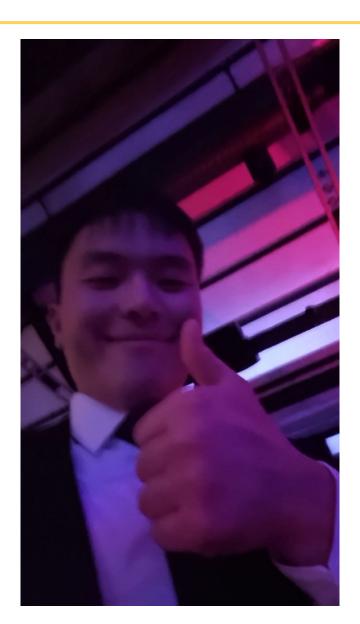
https://shorturl.at/zMTX5

EdStem Lessons:



https://shorturl.at/krtG9

Well done on Assignment 1!



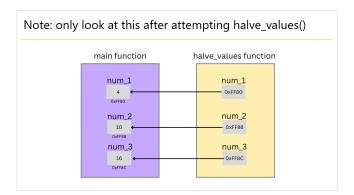
The Agenda

Pointers Usage (15 mins)

These will be your best friends

- •Creating a pointer:
- •int *x_ptr;
- •Storing the address of a variable:
- $\cdot x_ptr = &x;$
- •Accessing memory via a pointer:
- •*x ptr = 3;
- •printf("%d", *x_ptr);

Functions + Pointers (15 mins)



Struct Pointers (10 mins)

C lore fact 240: the asterix is iffy

- •This doesn't work:
- *struct_ptr.field_name
- Because of: *(struct_ptr.field_name)
- And needs to be (*struct_ptr).field_name
- •This works:
- struct_ptr->field_name
- And is in fact a wrapper for the above

EOF Loops & CLAs (20 mins)

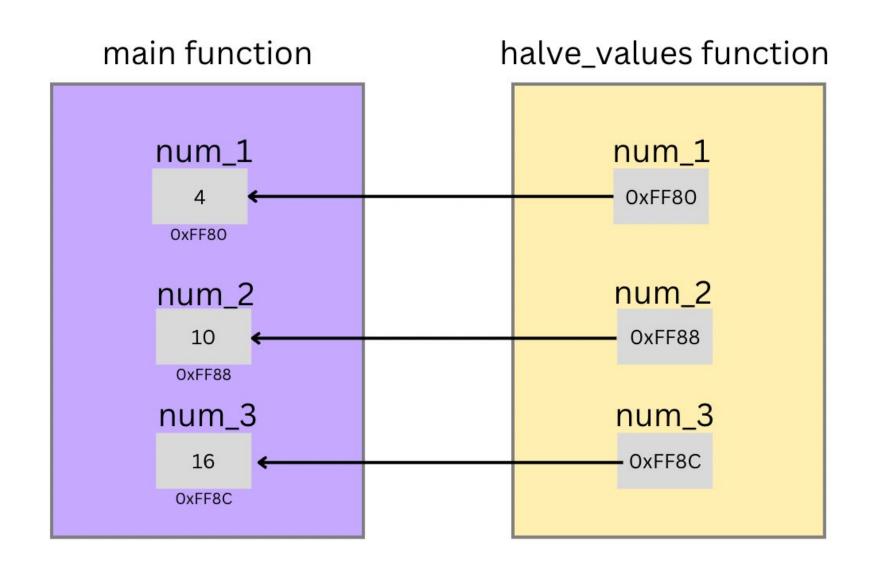
Note: only look at this after attempting EOF fgets loops

- •char → char[]
- •scanf → fgets
- •== 1 → != NULL
- •printf("%c") → printf("%s")
- •Please don't use: scanf() == EOF

These will be your best friends

- Creating a pointer:
 - •int *x_ptr;
- Storing the address of a variable:
 - $\cdot x_ptr = &x;$
- Accessing memory via a pointer:
 - * $x_ptr = 3$;
 - •printf("%d", *x_ptr);

Note: only look at this after attempting halve_values()



C lore fact 240: the asterix is iffy

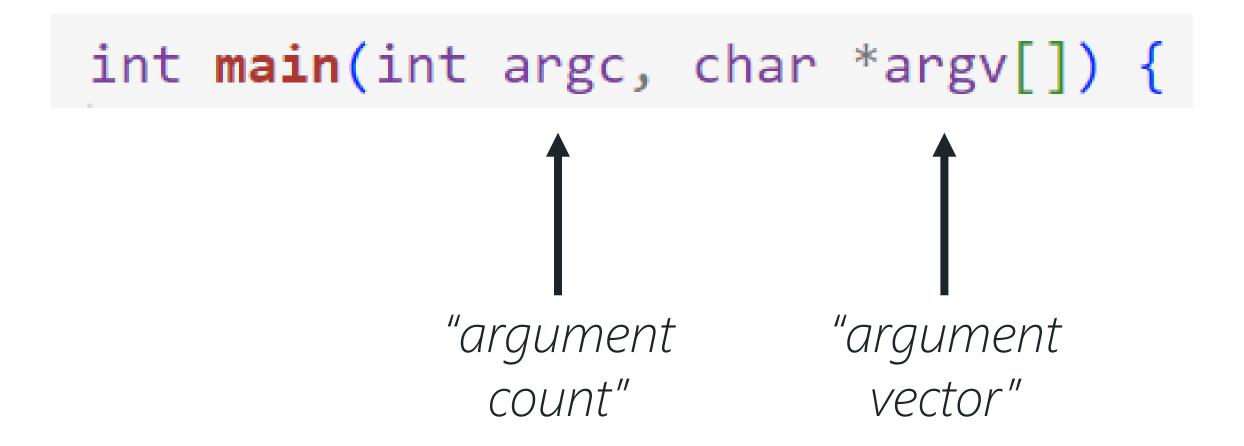
- This doesn't work:
 - *struct_ptr.field_name
 - Because of: *(struct_ptr.field_name)
 - And needs to be (*struct_ptr).field_name
- This works:
 - •struct_ptr->field_name
 - And is in fact a wrapper for the above

Note: only look at this after attempting EOF fgets loops

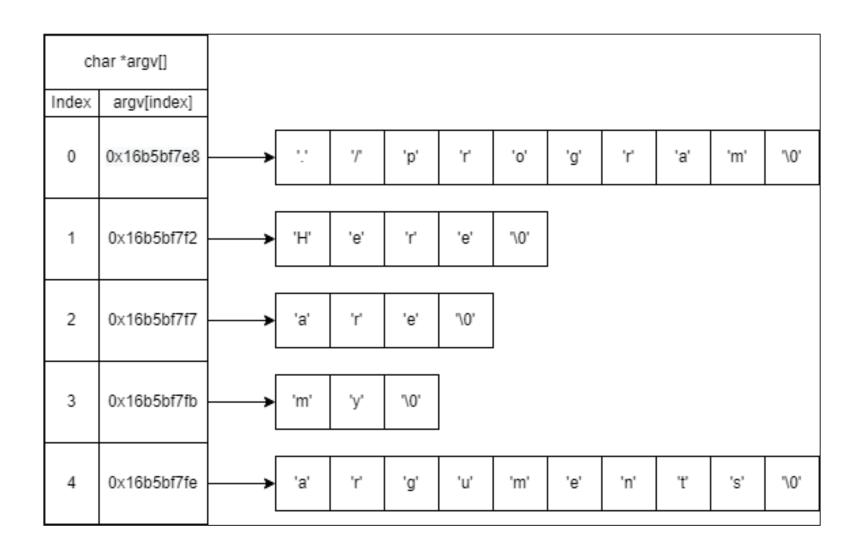
- •char \rightarrow char[]
- •scanf → fgets
- •== $1 \rightarrow != NULL$
- •printf("%c") → printf("%s")

•Please don't use: scanf() == EOF

CLA == Command Line Arguments



Note: only look at this after attempting CLA exercise



VSCode Shortcuts

- Start with Ctrl+Shift+P
 - "Toggle Multi-Cursor Editor"
 - Convert text casing: (highlight text) → Ctrl + Shift + P → "Transform to ..."
- Multiple Cursors: Ctrl + Click anywhere
 - Cursor over multiple lines vertically: Shift + Alt + Click on line
- Duplicate Line: Ctrl + Shift + Alt + Up/Down Arrow
- Move Lines: Alt + Up/Down Arrow
- Change All Occurrences: Ctrl + Shift + L or Ctrl + D
- Indentation: (Highlight line/lines) → Ctrl + Left/Right Square Bracket
- Find and Replace: Ctrl + $F \rightarrow$ (click dropdown) \rightarrow Replace next