



comp1511 week 10

starting ~9:05am (please fill in myExperience in the meantime!)

announcements

- congrats for making it to week 10 :D
- please complete [myExperience!!!](#)
- assignment 2 due 8PM friday :)

what's happening today?

- command line arguments
- multi-file programs
- abstract data types
- stacks

...via code examples and a kahoot!

kahoot

<https://play.kahoot.it/v2/?quizId=dc40efad-34fb-495f-b5e9-244a11268a8a>

command line arguments

- how are command line arguments given to a program?
 - **argument count** - integer number of arguments passed to the program
 - **argument vector** - array of strings where each string is one of the arguments
- see: `argc_argv.c`

multi-file programs

- **Header (.h) file**
 - Needs to be `#include`'d in the implementation file
- **Implementation (.c) file**
 - Only need to compile these files
 - eg. `gcc letters.c main.c -o letter_program`

abstract data type

- **ADTs:** abstract concept, generally involves a .h file
- **Rationale:** abstraction, security
- **What are some examples of ADTs?**

stacks

- what is a stack?
- what are some stack operations?
- draw a diagram of a stack if it was implemented by a **linked list**
- how else could you implement a stack?

see: pancakes folder (code demo)

THANK YOU :D
(please do myExperience)