



# comp1511 week 2

starting ~9:05am

Ada Luong

# important things to note

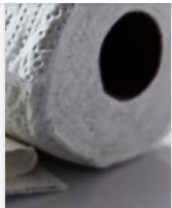
- **assignment 0** has been released
- log into **ed** (the course forum)
- set up **home computing** (vlab or otherwise) so you can access cse machines outside of lab time
- **tutorial code and feedback form** can be found at [https://github.com/adaluong/cs1511\\_22t1/](https://github.com/adaluong/cs1511_22t1/)
- **email:** [ada.luong@unsw.edu.au](mailto:ada.luong@unsw.edu.au)
  - if you have a programming question -> search & post on the forum

# what's happening today?

- **code demo:** variables/constants, scanf, if statements
- Kahoot! ft. some detours
  - Variables
  - If statements
  - Program Flow
  - C Operators
  - C Quirks

**questions?**

**making decisions  
with computers :0**



## Nobody Can Ace This Random Knowledge Quiz Except For Legitimate Nerds

Ten questions doesn't seem like a lot until you're asked what the safest temperature to consume poultry is.

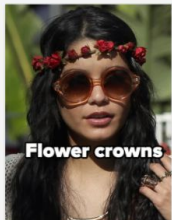
Audrey Engvalson



## Let's See How Controversial Your Pasta Opinions Really Are

Pasta lovers only!

xoxobug



## Not To Be Dramatic, But We Can Guess Your Exact Age Based On The Fashion Trends You've Tried

Don't lie to me, I know you had side bangs!!!

Lauren Garafano



## Which Olivia Rodrigo Song And Color Are You?

Are you getting "Deja Vu" taking this quiz...

beccajayne17



## Did You Know We Can Accurately Guess The Shape Of Your Ears Based On Your Taste In Breakfast Foods?



# Answer Two Extremely Random Questions And Find Out What Kind Of Pasta You Are

## How many socks would you like to have?

## What movie would you want to watch right now?

1. Shrek
2. Spiderman: COMP1511
3. Shrek 3



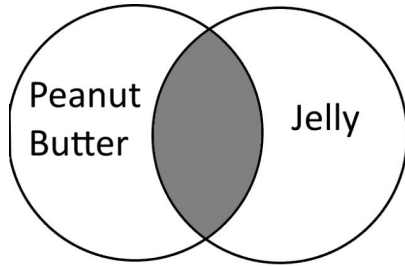
**kahoot!** I will pause throughout for questions/explanations

<https://play.kahoot.it/v2/?quizId=26ee7fb1-e76a-44d9-9aaf-97824aec9baa>

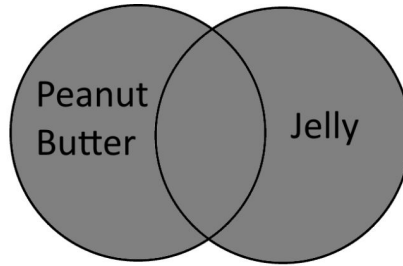




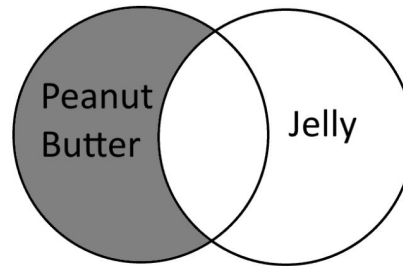
# logical operators



pb **&&** jelly  
**AND**



pb **||** jelly  
**OR**



**!jelly**  
**NOT**

**program flow: leap year**

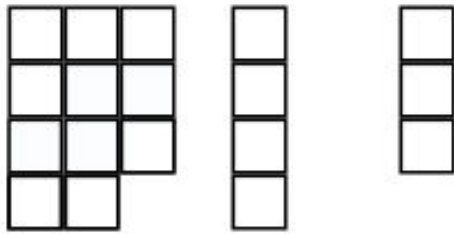
[https://en.wikipedia.org/wiki/Leap\\_year#Algorithm](https://en.wikipedia.org/wiki/Leap_year#Algorithm)

## C Quirks

- modulo (see modulo\_calculator.c)
- integer division (see integer\_division.c)
- floating point errors (see floating\_point\_error.c)

# % operator

gives the remainder



$$11 \bmod 4 = 3$$

ComputerHope.com

Modulo Calculator by Peter Kerr (Tutor)

<https://repl.it/@Divinitus/Modulo-Calculator>

(will push a copy onto github)

- $5 \% 3$
- $1 \% 2$
- $-1 \% 2$

$$(17 / 5) * 5 + (17 \% 5)$$

$$= 3 * 5 + 2$$

$$= 17$$

$$17 \text{ divide by } 5 = 3 \text{ r } 2$$

$$11 \text{ divide by } 4 = 2 \text{ r } 3$$

$$11 \% 4 = 3$$

$$11 / 4 = 2$$

## **C arithmetic examples**

$$1 / 2 * 500 =$$

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$$1 / 2 * 500 = 0$$

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$$(12 - 17) \% 6 - 4 = .$$

## C arithmetic examples

$$1 / 2 * 500 = 0$$

$$1 / 2.0 * 500 = 250.0$$

$$(17 / 5) * 5 + (17 \% 5) = 17$$

$$(12 - 17) \% 6 - 4 = -9$$