## CPSC 256

- 1) Why programming?
- @ Why C?
- 3 Why C#?
- 19 Next Steps

## D Why programming?

-> Life is about solving problems:

programming should be an

projoy able and creative way to

anjoy able and creative way to

learn how to solve problems.

- and Science. It shelps develope and Science. It shelps develope both sides of our brain, and shelps enhance cross-rewel pathways in the brain.
- organizational states. Programio enhances one's ability to think logically and apprendically through a southern.
- solving a problem Through

  programming densit dways reveds

  row things that you did not

  anticipate before had I One

  attain a deeper burdedge of the

This last one, for me, or the most interesting!

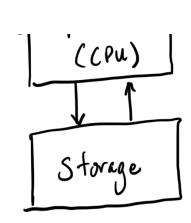
2 Why C?

How do computers actually do anything? In fact, They are very simple beasts.

- O Storage.
- @ Input
- 3 Output
- B Processing

Processor & Octat

Input 1



- -> The CPU takes input, moves things and on registers (special menony locations) and produces out put.
- -> Programs -> sets if instructions

  that tell town to create an output.

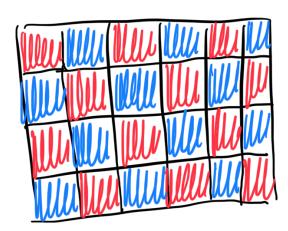
  from a given set of inputs.

Add two naubers.

get Input (a)

get Input (b) C = a + bput Output (c)

## Let's Make & Quilt



6 x 4 pattern 101 + blue. rel in oppen let

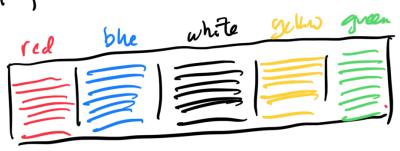
import quittraker

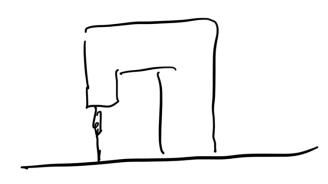
quiltrake (6,4, 'red', 'ble', 'red')

What happened, or Programming in C!

1) Start guilt ma Ding Gressiess.

- D's Buy rach: 10 July .
- 3 Buy seaving madrine.
- O Go to fabric stone and by Swatcher It different colors, in bulk, and stone in now rachs.



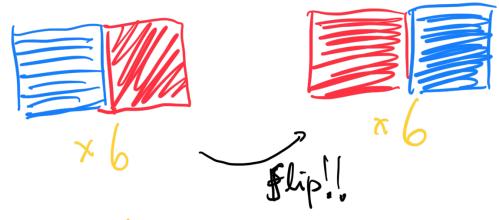


- B Receive order

  5 (6 x 4, 'red', 'blue', 'red')
  - a) alchlote total squaes 6 x 4 = 24

by divide by 
$$\frac{24}{2} = 12$$

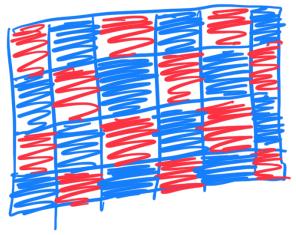
- c) retrieve 12 reds + 12 blues From Storage.
- divide by 2 again.  $\frac{12}{2} = 6$



e) Assemble Mos.



## f) Asseuble Quilt.



g) Ship to Custoner, have beer!



- Memod to calculate # of 'restangles" method to sow together a restayle-object. hernol to assemble restrugles. into quiet. (flip or not?) @ Method to this avectorale
- 3 Wy C#?

Pyrum is, basially, a "wrapper" tor matplotlib pomdas So is C# !! the advatage -> is that C is frivales comparible with C! the Coorle is CH compatible. So, Clibranies Why is it alled Ct. ? object oriented appoint ANSI stanked O Photoshop @ Snotify

(3) Youtube 9 Amazon. com D Windows DS Love HecOs and Linux, too) 1 Ms Office (along with Jam & Pyttern) B My SQL

