## Hello, World!



Pseudocode

## Website with examples

https://github.com/digshake/launchcode-helloworld

# What is pseudocode?

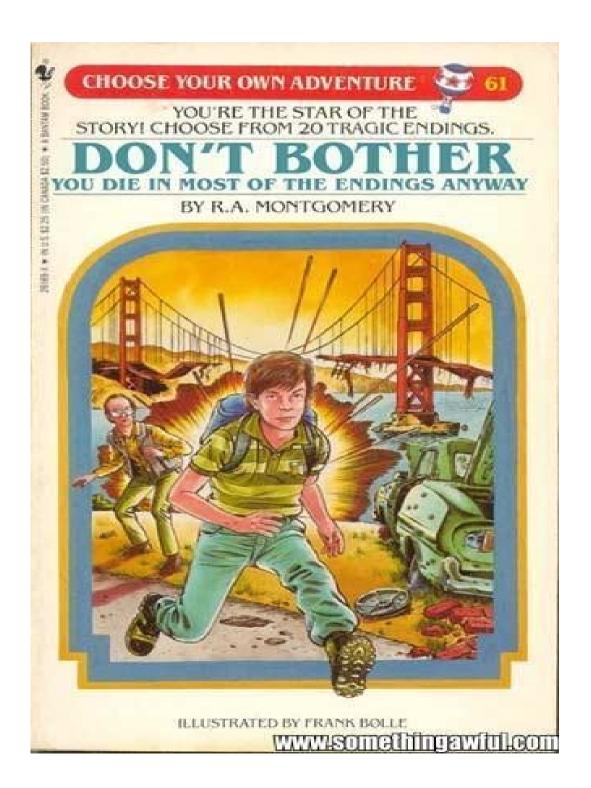
- First:
  - What is code?
  - What is a programming language?

#### Variables

- Variables are used to tell stories
  - Let me tell you a story using variables!

- Tell the following story using variables:
  - Michael is 30 years old
  - Sally is twice Michael's age
  - Sally is 3/4ths as old as Bill
  - Rachel is 52 years younger than Bill
  - The average age of the group is....?

### Choice



- You are given two variables, x and y
  - Write code that ensures that x will always be larger than y, swapping them if necessary

#### Iteration



- Write code (using loops!) that prints:
  - The values from 0 to 10 (inclusive)
  - The values from 1 to 10 (inclusive)
  - The values from 4 to 19 (inclusive)
  - Even values between 5 and 12 (inclusive)

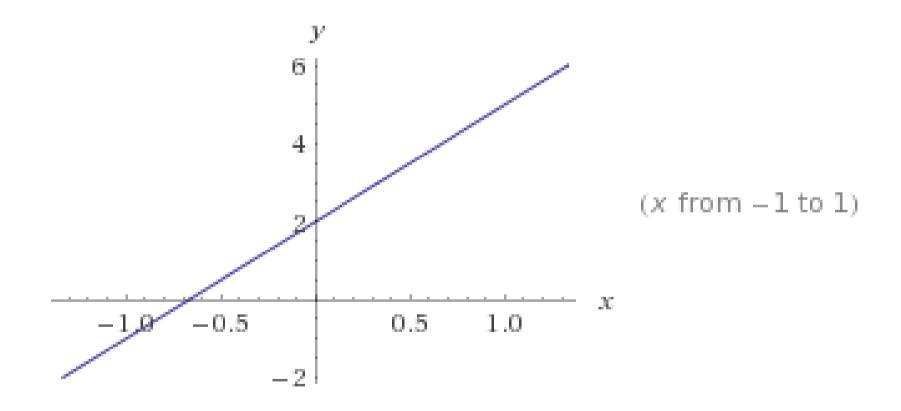
■ The fibonacci sequence is given as:

Write pseudocode to print the first 50 fibonacci numbers

- Write code to do the following:
  - Your code should count from 0 to 100
  - If the current number is divisible by 3, print "fizz"
  - If the current number is divisble by 5 print "buzz"
  - If it is divisible by 3 and 5, print "fizzbuzz"
  - Otherwise, print the number

### **Functions**

• 
$$f(x) = 3x + 2$$



- Change your fibonacci code to be a function. The function should take in a value called N and return the Nth fibonacci number. So if N = 1 then return 0, if N = 2 then return 1, etc.
- Write a function called mult that takes in two values, x and y, and returns the product. You may not use
  \* to accomplish this.