

Day 3



BODMAS ✓

B - Brackets - $()$, $\{$, $\}$

O - Order 2^2 , 2

D - Division

M - Multiplication

A - Addition

S - Subtraction

TO

LEARN

CODING

ORDER OF PRECEDENCE

$$6 \times 3 + 5/2 \times 7 = \underline{\underline{35.5}}$$

$$= 6 \times 3 + 2.5 \times 7$$

$$= 18 + 17.5$$

$$= 35.5 \quad //.$$

B x
 O x
 D
 M
 A
 S

$$\rightarrow 6 - 5 \times 3 / (2 + 5) \times 6$$

$$\rightarrow 6 - 5 \times 3 / 7 \times 6$$

$$\rightarrow 6 - 5 \times 0.42 \times 6$$

$$\rightarrow 6 - 12.6$$

$$\rightarrow -6.6$$

GOOD
MANS

$$5^8 - (2^{16} + 918) / 2 \times 7$$

$$\rightarrow 5^8 - (65536 + 918) / 2 \times 7$$

$$\rightarrow 5^8 - (65536 + 1.125) / 2 \times 7$$

$$\rightarrow 5^8 - 65537.125 / 2 \times 7$$

$$\rightarrow 390625 - 65537.125 / 2 \times 7$$

$$\rightarrow 390625 - 32768.56 \times 7$$

$$\rightarrow 390625 - 229379.5$$

$$\rightarrow 161245.5$$

B

O

D

M

A

S

functions in Maths:

$$f(a, b) = a^2 + 2ab + b^2$$

$$5/3 \times (7 + f(2, 3) / (f(2, 2)))$$

$$\rightarrow 5/3 \times (7 + 25/16)$$

$$\rightarrow 5/3 \times (7 + 1.56)$$

$$\rightarrow 5/3 \times 8.56 \Rightarrow 1.66 \times 8.56$$

$$\Rightarrow 14.2096$$

$$f(2, 3) = 25$$

$$f(2, 2) = 16$$

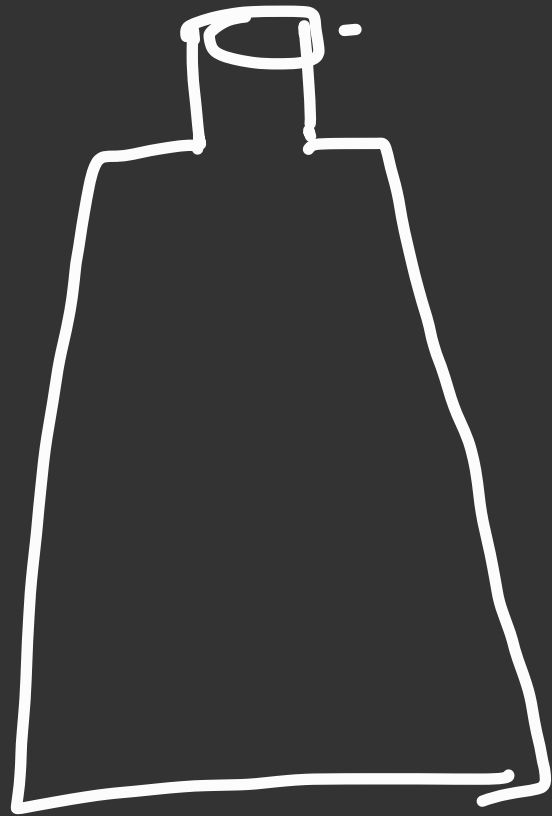
Takeaways:

functions in programming are similar to functions in maths.

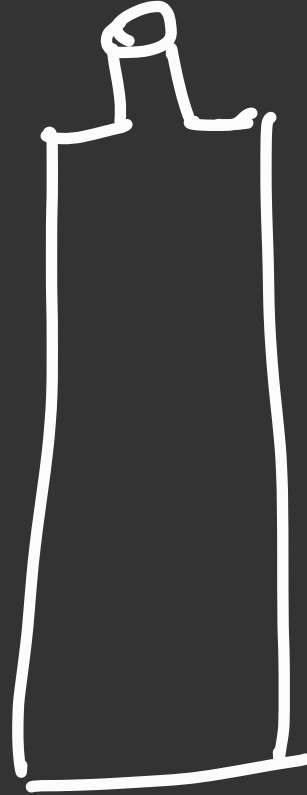
→ $f(a, b)$ = $\begin{cases} a \text{ is int} \\ b \text{ is int} \end{cases}$
arguments
→ return - is int

<pre> int factorial (int i) { int x; for(x = 1; x < i; x++) { i = i * x; } return i; } </pre>	<div>C Syntax</div> <div> int float char </div> <div> <pre> int a = 5; int b = 5 + factorial(a); b = 125 </pre> </div>
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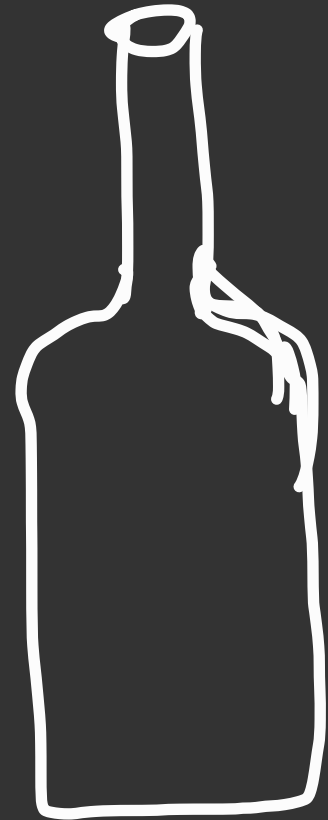
diff var/data type



Milk bott



w-Bottle



B-Bottle

milk/w/b



data type

bottle



var

=

