



ALGORITHM & PSEUDOCODE



ALGORITHM

Understanding Algorithm

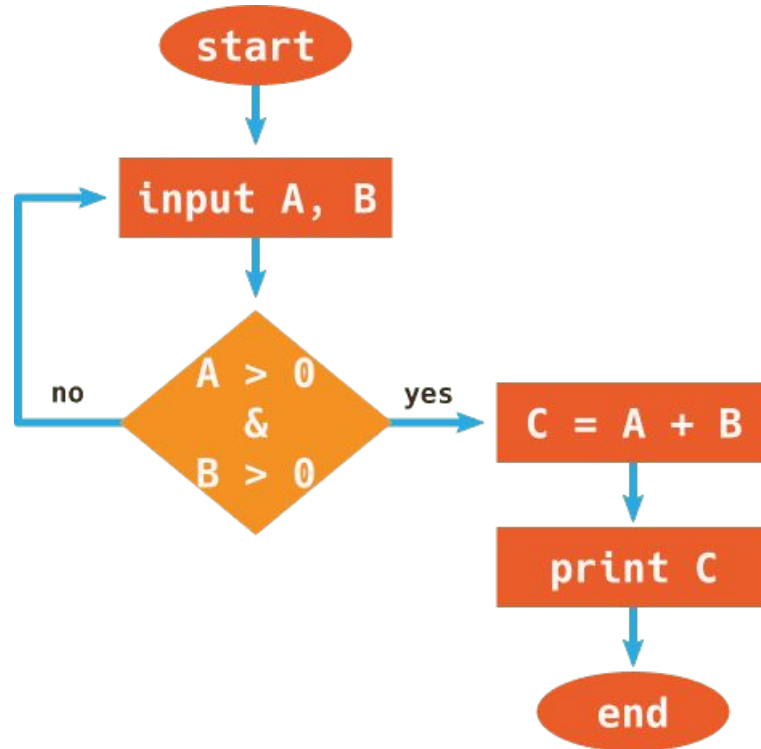
Set of steps or procedure to accomplish a task



Understanding

Algorithm

- Input
- Problem Solving
- Result



Understanding Algorithm

We need to put these steps for computer to run!



We need to

Talk to Computers

Count $5 + 2$!

Grab my coffee!

Find my soulmate!

10111001 ?

10100100 ?

10011101 ?



We need

Programming Languages

```
5 + 2;  
desk.drink;  
world.find('girlfriend');
```

=> 7

=> 'coffee'

=> error: not found





PSEUDOCODE

Why

Pseudocode

Human
Language



Pseudocode



Code in
programming
languages



Why Pseudocode



There are tons of
programming languages!

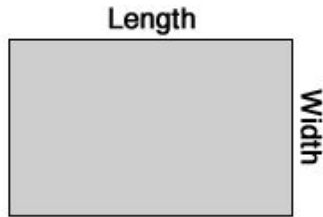
Why

Pseudocode

Train logical thinking and algorithm without the “magics” of each different programming languages



storing

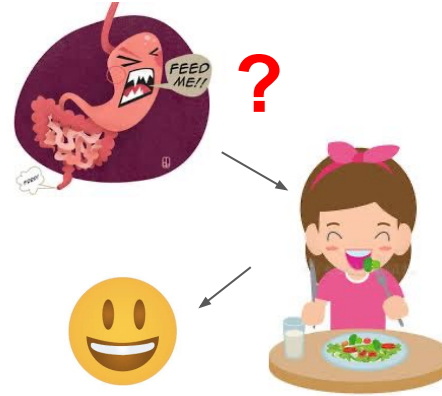


```
STORE width AS NUMBER WITH ANY VALUE
STORE height AS NUMBER WITH ANY VALUE
STORE area AS 0

CALCULATE width TIMES height
SET area VALUE WITH CALCULATION RESULT

DISPLAY area
```

conditional



```
STORE hungry AS TRUE
IF hungry
  eat
END IF
DISPLAY "I am happy"
```



THANK YOU