# CSSOCIATION STATES OF THE PROPERTY OF THE PROP

#### club

what ultimately matters in this course is not so much where you end up relative to your classmates but where you, in **Week 12**, end up relative to yourself in **Week 0** 

```
#include <stdio.h>
int main (void)
    printf("hello, world\n");
```

#### computational thinking

inputs → algorithms → outputs

#### computational thinking

inputs → algorithms → outputs

### binary

0, 1

### decimal

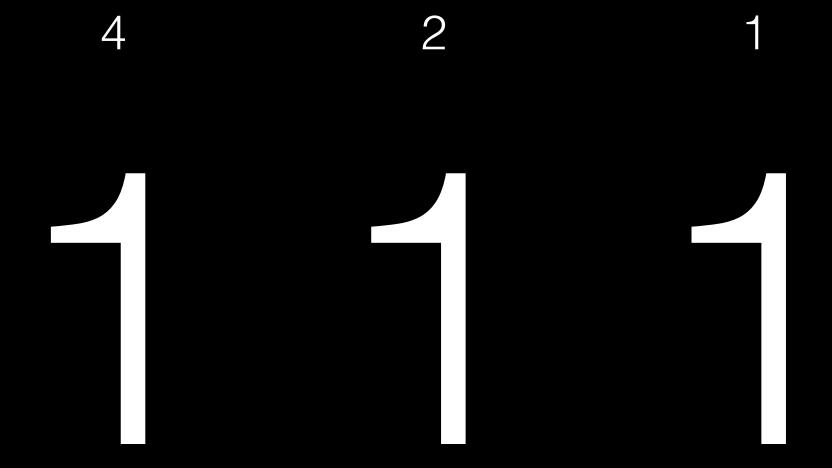
0, 1, 2, 3, 4, 5, 6, 7, 8, 9

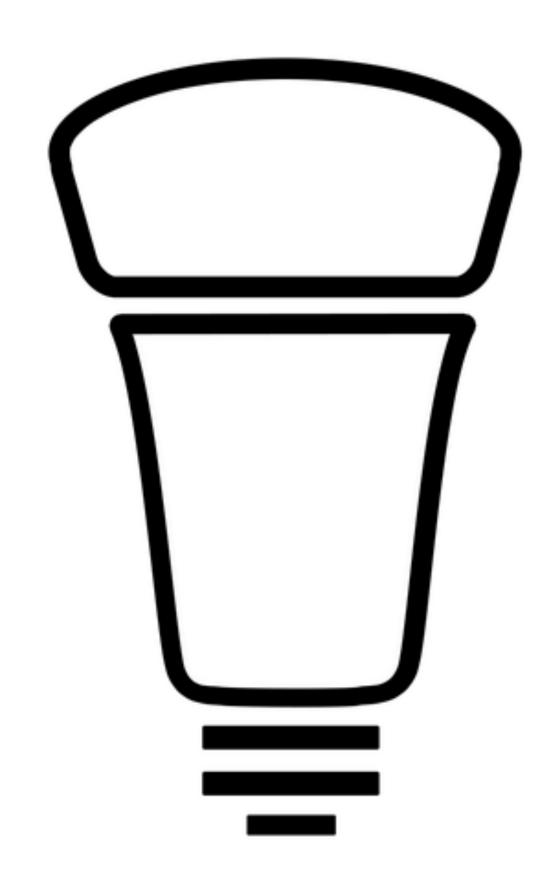
 $100 \times 1$ 

 $100 \times 1 + 10 \times 2$ 

 $100 \times 1 + 10 \times 2 + 1 \times 3$ 

+







All Off Game Mode All On



```
PUT /api/newdeveloper/lights/1/state HTTP/1.1
{"on":true, "bri":255, "transitiontime":0}
```

#### ASCII

```
A B C D E F G H I J K L M
65 66 67 68 69 70 71 72 73 74 75 76 77
```

N O P Q R S T U V W X Y Z 78 79 80 81 82 83 84 85 86 87 88 89 90

72 73 33

H 72 73 33

 72
 73
 33



72 73 33



72 73 33

#### computational thinking

inputs → algorithms → outputs



time to solve

time to solve

size of problem

time to solve

# pseudocode

```
pick up phone book
    open to middle of phone book
 2
 3 look at names
   if "Smith" is among names
 4
 5
        call Mike
 6
  else if "Smith" is earlier in book
 7
        open to middle of left half of book
 8
        go to line 3
9
    else if "Smith" is later in book
10
        open to middle of right half of book
11
        go to line 3
12
   else
13
        give up
```

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#### Mark (Loops)



Mark Zuckerberg ♥ August 27 at 4:33pm · ♠

We just passed an important milestone. For the first time ever, one billion people used Facebook in a single day.

On Monday, 1 in 7 people on Earth used Facebook to connect with their friends and family.

#### lectures

#### sections

less comfortable, more comfortable, somewhere in between

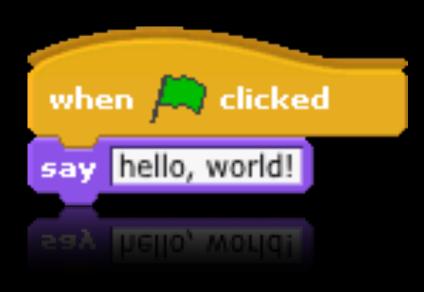
#### office hours

## problem sets

walkthroughs, postmortems

## problem sets

2 editions, 9 late days, lowest dropped



#### uggcf://lbhgh.or/bUt5FWLEUN0

11000011					
10111101					
01011010					
01111110					
01011010					
01100110					
10111101					
11000011					

# 143,091

#### GET / HTTP/1.1

# C\$50 Finance

## final project

CS50 Hackathon, CS50 Fair

#### This is CS50.