MAKE SCHOOL

LEARN BY DOING

MAKE SCHOOL

SHIP EARLY, SHIP OFTEN

WRITE CODE FOR USERS

USER ON-BOARDING

EDGE CASES

PSEUDOCODE

count number of neighbors

loop through cells

    if cell is alive

        if num neighbors is less than 2 or greater than 3

           cell dies

    else if cell is dead and num neighbors is 3

        cell becomes alive

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TEST THOROUGHLY

UTILIZE RESOURCES

Google

Stack Overflow

Online Tutorials

Open Source

Peers

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HOW TO GOOGLE

Search the exact error minus project specifics

Search what other people would search

Try different phrasings like "how to" or "example"

Add specific terms like "UIImagePickerController"

View second page results, search again with new info

GOOD DEBUGGING IS A

SUPERPOWER

HOW TO DEBUG

Set breakpoints to see whether code is being run

Clean the project

Use print to print out variable contents

Break down long lines of code into pieces

Consider effects of other parts of the program

Isolate the problem

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PROBLEM:

SPRITE ISN'T SHOWING UP

BASIC DEBUGGING STEPS

Check if sprite is added to sks

Check if named correctly in sks

Compare didMoveToView to how it's done
in the tutorials

DEEPER DEBUGGING STEPS

Use breakpoints to check the object

Print out position of object using print

Explore impact of other parts of the program

Update method

Touch methods

Physics engine

PROBLEM:

MAKESTAGRAM TIMELINE NOT SHOWING

SOME FOLLOWED USERS' PHOTOS

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BASIC DEBUGGING STEPS

Check whether you're correctly following the users

    Are you calling the code to save new follows?

    Are the relationships showing up in the Parse
    Dashboard?

Check whether you're correctly querying for followed users

Check whether the newly followed users have any posts

DEEPER DEBUGGING STEPS

Use breakpoints to check the responses from Parse

Print out list of users you're following

Step through all the code that saves follows and queries for them

Is every variable's value always what you expect it to be?

Is Parse ever responding with errors?

Are you correctly determining whether a user has already been followed?

RUBBER DUCK DEBUGGING

GETTING HELP

Before getting help, you should ask yourself:

What is the issue?

What steps have you taken to debug?

What line of code is the issue on?

BECOMING A SELF

SUFFICIENT DEVELOPER

HACKER MENTALITY

Be comfortable paddling in the dark

Be relentlessly resourceful

Love the cycle of failing then conquering

Get it working, then make it good

Never give up

MAKE SCHOOL

"All the best things that I did at Apple came from not having money and not having done it before, ever.

Every single thing that we came out with that was really great, I'd never once done that thing in my life."

Steve Wozniak