Welcome to Bootcamp Prep!

Fullstack Academy

Slack + Git

- Our Repo: https://bit.ly/0420-BCP-Notes
- Join Slack: https://bit.ly/0420-Slack-Invite
- Already joined? Join the channel
 - On App: slack://channel?team=T23RAUHSB&id=CT2A08Y2X
 - On Web: https://bit.ly/0420-Web

Instructors

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Ariel (@Ariel Ahdoot)

Slack us if you need anything!

Course Overview: Topics

#	Topic
1	Introduction, Tidy Code
2	Loops, Debugging
3	Coercion and Truthiness
4	Scope
5	Arrays I
6	Arrays II
7	Objects

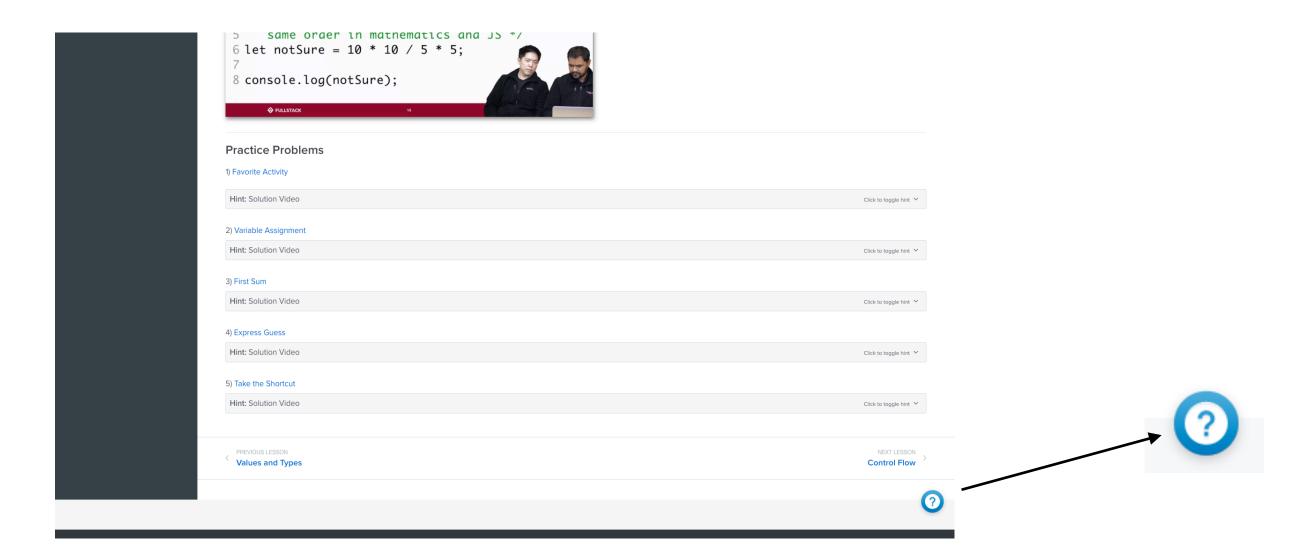
#	Topic
8	Object Methods
9	Passed-by-value Passed-by-reference
10	Higher-order Functions I
11	Higher-order Functions II
12	Recursion I
13	Recursion II
14	Next Steps, Practice Assessment

Course Overview: Format

- 1. Watch the pre-recorded lecture (if time permits)
- 2. Attend the live lecture (required)
- 3. Work on the workshop with your partner (required)
- 4. Watch the workshop review videos and compare your answers with the provided solutions (strongly recommended)

Workshops

- Workshops are not intended to be finished
- You will be randomly paired with a different partner or small team for each workshop
- Instructors and fellows available via the Help Desk



Workshops: pair programming

Pair programming

- 2 programmers, sharing the same computer, work collaboratively on all aspects of software development (Williams and Kessler 2000).
- "Driver" writes code
- "Navigator" plans code and reviews it as it is written
- Switch every 20 or 30 minutes
- At Fullstack, you switch partners for each workshop

Workshops: pair programming

- Why use pair programming at Bootcamp Prep? Shouldn't I practice on my own?
 - "Teach to learn" is a central aspect of Fullstack's instructional philosophy
 - Communicating about code is just as, if not more important, than actually writing it
 - Solving problems with a partner is the best way to prepare for an admissions interview at a top bootcamp
 - Most top bootcamps, and a growing number of employers, use pair programming every day

Course Overview: Projects

- Two projects will be introduced as we progress through the course
- I 00% optional
- Good opportunity to use what you're learning to build larger programs

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Course Overview: Practice Assessments

- We'll take a practice assessment on the last day of class
- It's meant to help you prepare for the real admissions assessment
- A second practice assessment will also be available to you on LearnDot after you finish Bootcamp Prep

Fullstack Community Values

- Be patient. With yourself and others.
- Ask questions (even "dumb" ones)
- Trust the process. Be on time.
- Help others. Teach others.
- We like to have fun, and...

Fullstack Community Values

- Be mindful of:
- Subtle "isms"
- E.g. Sexism, Racism, Ageism
- Be Professional "No Asshole Policy"
- You are each other's most valuable resource
- No NSFW content. When in doubt, leave it out.

Why is JavaScript so Popular?

- Powers the majority of web applications
- Runs almost anywhere on the "full stack": web browsers and servers
- Is relatively learner friendly

ES5? ES6?

- ES5 and ES6 are different versions of JavaScript
- JavaScript versions are backwards compatible
 - Older features work in newer environments
 - Newer features may not work in older environments
- Fullstack teaches "ESNext"
 - Immersive programs continuously updated to cover the latest JS features
 - BCP program covers some newer features too, but only those that are helpful for beginning developers — don't expect in-depth or comprehensive coverage of new JS features in this course

Getting the most from this course

- © Complete the BCP Pre-work curriculum first!
- Do the pre-readings and watch the pre-recorded lectures
- Enjoy the "productive struggle"
- Ask for help when you need it (otherwise, why are you here?)
- Don't look at solutions until you give problems an honest try
- Go back to unfinished workshop problems and finish them when time permits
- Watch the solution videos, even for problems you think you got right
- Review the solution code

Tidy Code Tips

Why write tidy code?

- Easier and faster to debug and read your code
 - Engineers spend a lot more time reading and debugging code than actually writing it!
- Demonstrates qualities attractive to bootcamps and employers:
 - Professionalism: no longer a "beginner"
 - Attention to detail
 - Pride in work



```
// indent one level inside every code block
  // code blocks start with a { and end with a }
   function amazingFunction() {
     // inside the function block!
     if (true) {
       // inside the if block!
       console.log('this function is amazing');
     // outside of the if block
13 // outside of the function block
14 amazingFunction();
```

Variable Naming

```
// use camelCase when defining variable names
let myFavoritePlace = 'Fullstack';
// don't use ambiguous variable names!
let x = 68;
// use names that describe the value they contain
let currentTemp = 68;
// it's ok to use short variable names as counters, like i in a for loop
for (let i = 1; i <= 3; i++) {
  console.log(i);
```