



Welcome to CodePath !

TIP102

Week 1

Agenda

1	Welcome	0:00 - 0:15
2	Course Structure & Resources	0:15 - 0:45
3	BREAK	0:45 - 0:50
4	Collaborative Problem Solving	0:50 - 1:50
5	Wrap Up	1:50 - 2:00

15 minutes

Welcome! 

Meet the Instructor



Allison Chan

- Amazon - backend, server; data pipelines
- Meta - full stack; business messaging

Education:

- University of Southern California
 - B.S. Computer Science + Computer Engineering
 - M.S Computer Science

“The harder you work for something the better you will feel when you achieve it”

Meet the Instructor



Hobbies

- Scuba diving, snow sports & running

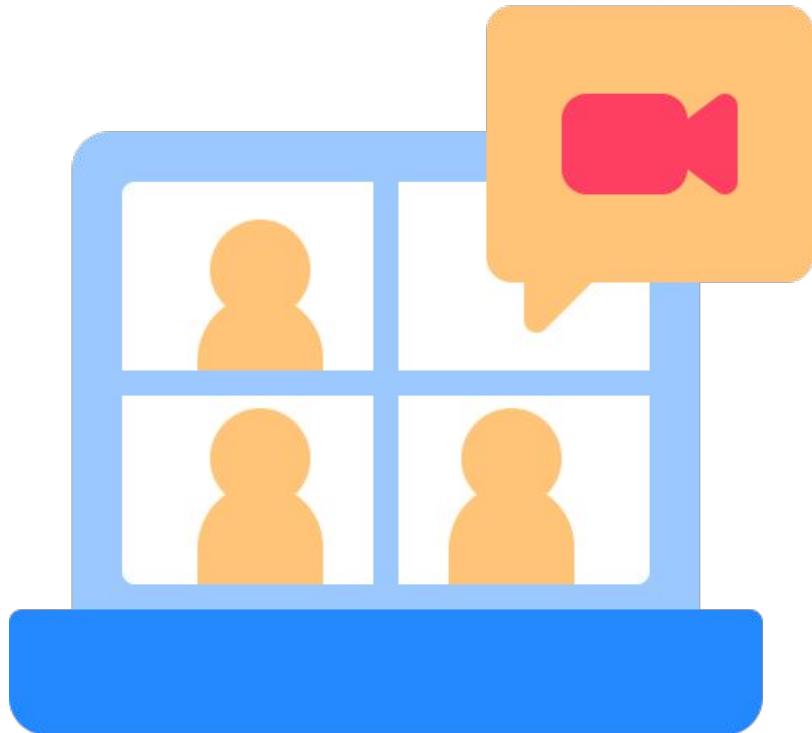
Linkedin

- Send with a note mentioning TIP102 S1b
- Will accept after course is over

Response Time

- please give me 3 business days to respond, unless you put
 - **BREAKING NEWS: You Missed a Message from Me**

Turn on your cameras !





Icebreaker

5 minutes

⚠️ **WAIT! ⚡ On my count...**

- Say hi to someone you see on the screen
- If you hear your name, react with a ❤️
- If you haven't heard your name, react with a 😢



30 minutes

Course Structure & Resources



Try It!

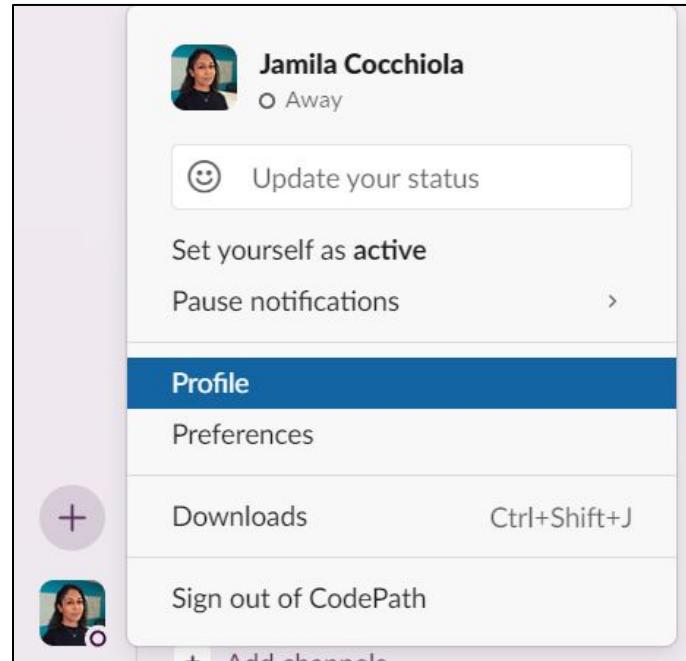
3 minutes

Updating Your Slack Handle: Make sure your Slack name is formatted as **FirstName LastName - Level, Section**

For example: **Tony Stark - 101, S1**

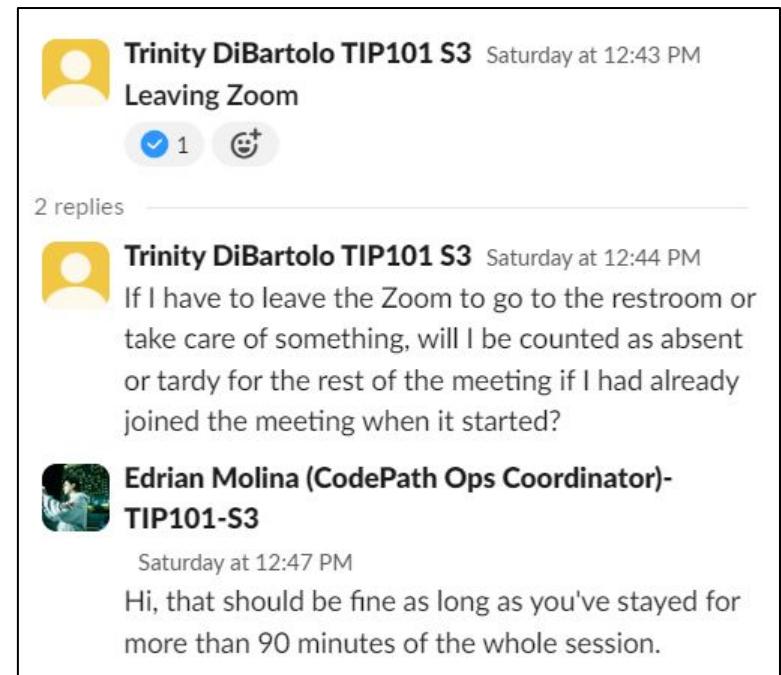


Take a moment to do this now!



Threads on Slack

When starting a new conversation, start by posting the topic. Within the thread of that topic, provide the additional details about your question or request.



Trinity DiBartolo TIP101 S3 Saturday at 12:43 PM
Leaving Zoom
1 reply

Trinity DiBartolo TIP101 S3 Saturday at 12:44 PM
If I have to leave the Zoom to go to the restroom or take care of something, will I be counted as absent or tardy for the rest of the meeting if I had already joined the meeting when it started?

Edrian Molina (CodePath Ops Coordinator)-TIP101-S3 Saturday at 12:47 PM
Hi, that should be fine as long as you've stayed for more than 90 minutes of the whole session.



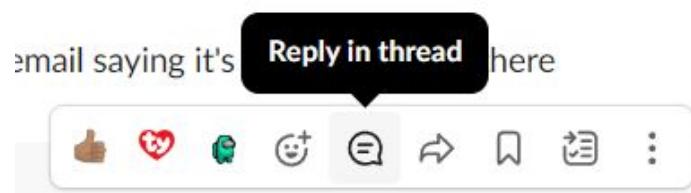
Try It!

2 minutes

Let's practice!

I will post a message in the **#tip102-announcement-s1b-su25** channel.

Reply to that message by **replying in the thread**.



Class Structure

- * 2 sessions per week – **Tuesdays** and **Thursdays**
 - 45 min Guided Exploration
 - 1 hour Collaborative Problem Solving
- * Optional office hours on Mondays, Thursdays, and Fridays
- * Weekly HackerRank assessment due by Monday at midnight

Adaptive Pacing

- * During the Collaborative Problem Solving time, you will be in breakout rooms of 3 to 6 students.
- * Skip units by passing the HackerRank assessment.
 - If you look at the Collaborative Problem Solving questions and you can self-practice, take the assessment early.
- * Keep working on a unit until you pass the HackerRank assessment (up to 3 attempts).



Benefits for Course Completion

All students who meet the **attendance requirements** and **pass 6 HackerRank assessments** will be considered a CodePath alumni and:

- * Receive a (digital) CodePath certificate of completion.
- * Gain access to CodePath alumni networks.
- * Have continued access to the CodePath Career Center and be eligible for mentorship opportunities with CodePath professional alumni through Codepath Mentor Network.
- * Be invited to the CodePath Emerging Engineers Summit (EES) after the completion of the course.

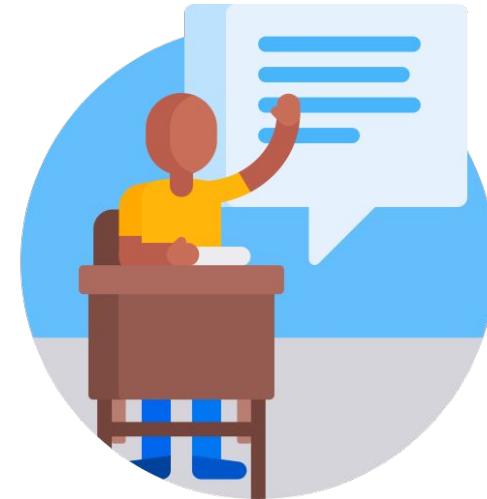
Policies: Attendance

- * Attendance at all sessions is mandatory.
- * You are allowed up to **3 absences** throughout the entire program.
 - You do *not* need to submit a request to use these absences.
- * Students who are absent must still submit the coursework for a unit by the posted deadline.

How do I get the most out of this course?

Engage in class ***fully***! That means ...

- * Taking notes
- * Speaking up
- * Using the tools and strategies



How do I get the most out of this course?

Practice! Practice! Practice!



How do I get the most out of this course?

Aim for one passed
unit per week



How do I get the most out of this course?

Share gratitude and shoutouts regularly



Be Fully Present

- * In the session for **at least 90 minutes**
- * Fully engaging **visually, verbally, and technically** without reminders, requests, or interruptions



Discussion

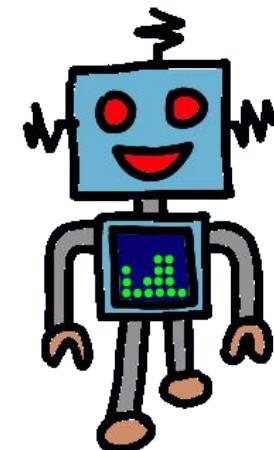
5 minutes

What do you think it means to be fully engaging **visually, verbally, and technically** without reminders, requests, or interruptions? What do you think this looks and sounds like?



Reminder: AI Policy

- AI tools are not only allowed, but **encouraged** in this course
- **Key Ways to Use AI:**
 - Virtual TA
 - Debugging / Planning Partner
 - Research Assistant
- Suggestions throughout, but **get creative!**
 - Sharing prompts with classmates is encouraged
 - We are a **learning community**
- Check the [Learning With AI page](#) in the course portal



Having Trouble?

I need help or have questions about Slack, the course structure, etc.

Attend a weekly Fix-It Garage Session.



I need help or have questions about Python or understanding a problem.

Attend a weekly Study Hall.





Instructor Demo

5 minutes

Let's check out the Course Portal!

The screenshot shows the CodePath Course Portal for the 'TIP102 | Intermediate Technical Interview Prep' course. The top navigation bar includes 'CodePath Courses', 'Courses', 'Cohorts', 'Locations', 'Organizer Links', and a user profile icon. Below the navigation, the course title 'TIP102 | Intermediate Technical Interview Prep' is displayed, along with the user's role 'TIP102 Dev (a Observer access)' and 'Personal Member ID#: 68369'. A message at the top of the page encourages users to post on the 'class slack channel' or email support at support@codepath.org. The main navigation menu includes 'Getting Started', 'Instructors', 'Coach', 'Overview' (which is highlighted with a green border), 'Cheatsheet', 'Session #1', 'Session #2', 'Assignment', 'Schedule', 'Groupings', and a dropdown menu for 'Resources' and 'Career'. On the left, a sidebar lists 'Unit 1' (selected), 'Unit 2', 'Unit 3', 'Unit 4', 'Unit 5', 'Unit 6', 'Unit 7', and 'Unit 8'. The 'Unit 1' section contains a title 'Unit 1: Strings and Arrays' with a pencil and comment icon, a welcome message, 'Unit 1 Learning Goals' (with a target icon), and a list of learning objectives. The learning objectives include: 'Familiar with the format and goals of the course', 'Developing the skill of using UPI method to solving coding problems', 'Accessing, iterating, and modifying lists', and 'Performing advanced string manipulation and analysis'.

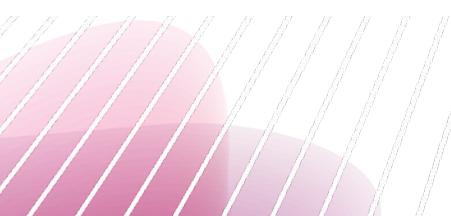


Instructor Demo

10 minutes

Python and VS Code Tour

- * [Unit 1 Cheat Sheet](#)
- * [General Python Cheat Sheet](#)



Course Schedule

* 10 weeks

* Topics:

- UMPIRE
- Strings & arrays
- Dictionaries
- Stacks & queues
- Big O & optimization
- OOP & Linked Lists
- Recursion
- Binary search
- Binary trees

Break Time!

Take 5 mins to step away from the computer. Feel free to turn off your camera and return promptly after 5 mins.

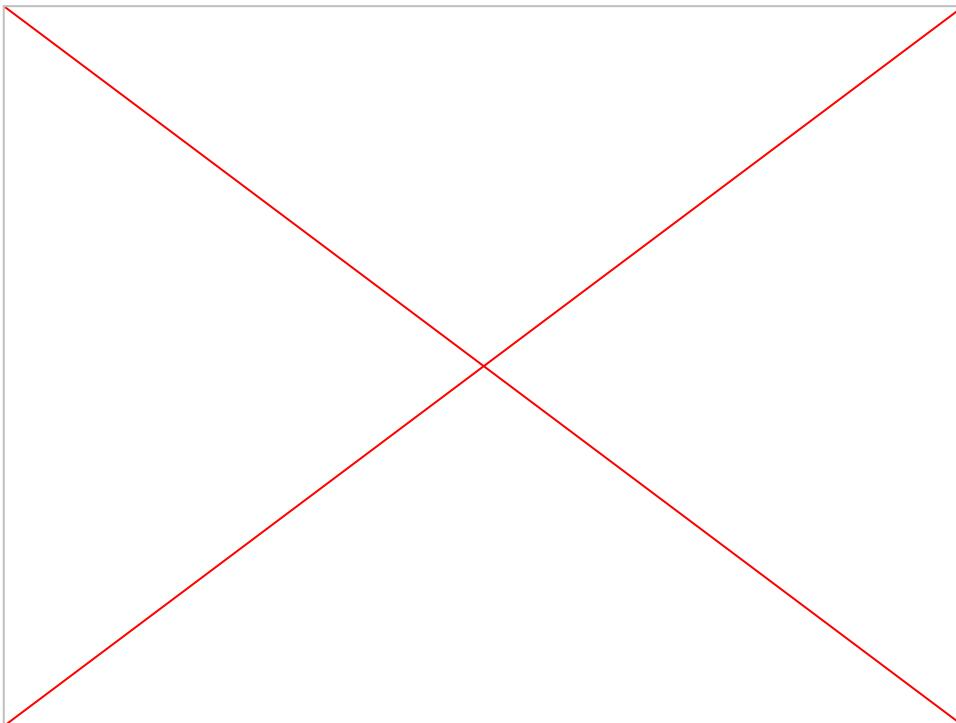


05:00

4 Minutes

Week 1 Readiness for
Collaborative Breakout time

A message from your Program Managers



[Week 1, Session 1](#)
[Readiness Responder](#)
[Link](#)

60 minutes

Collaborative Problem Solving

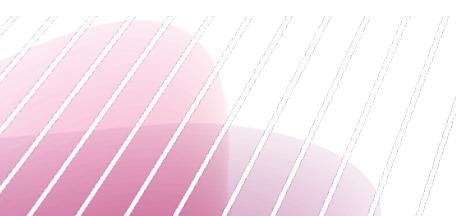


Instructor Demo

5 minutes

What does **Collaborative Problem Solving** look like?

Let's observe!



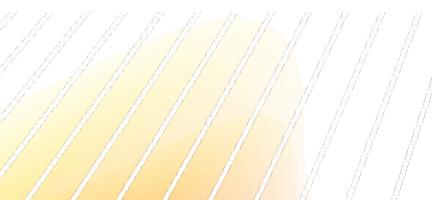


Breakout Rooms

55 minutes

1. Navigate to your breakout room.
2. Introduce yourselves!
3. Work on the Unit 1 Session 1 problems.

Quality > Quantity !!



10 minutes

Wrap Up



One Good Thing

Let's reflect on today's session. Maybe you got a question answered, overcame a specific coding challenge, or learned how to do something completely new!

In the chat, share at least one good thing you've learned or experienced during the session today.

Let's celebrate together!



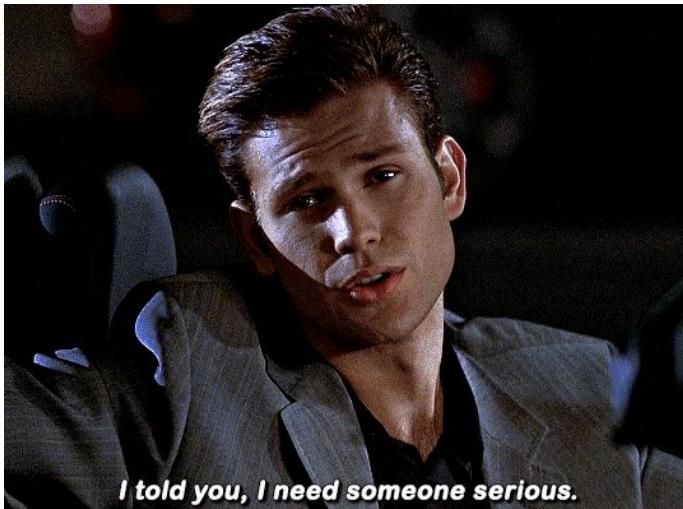
Session Survey Time!





Final Reminders

- ❑ Finish the problem sets for additional practice
- ❑ Take the weekly HackerRank assessment by Sunday @ midnight
- ❑ Have fun and embrace the challenge!



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