



TIP101 | Intro to Technical Interview Prep

Intro to Technical Interview Prep Fall 2025 (a Section 3 | Tuesdays and Thursdays 5PM - 7PM PT)

Personal Member ID#: **134071**

Need help? Post on our [class slack channel](#) or email us at support@codepath.org

Getting Started

Learning with AI 

IDE Setup

HackerRank Guide

Schedule

Course Progress

Unit 1

Unit 2

Unit 3

Unit 4

Unit 5

Unit 6

Unit 7

Unit 8

Unit 9

Unit 10

Mission Guide

Session 2: Search Algorithms

Overview

In this session, students will investigate various search algorithms crucial for navigating and manipulating data structures effectively. The class will cover binary search and other methods, detailing their applications, efficiencies, and limitations. Students will engage in hands-on exercises to implement these algorithms on lists and strings.

You can find all resources from today including the session deck, session recording, and more on the [resources tab](#)

Part 1: Instructor Lead Session

We'll spend the first portion of the synchronous class time in large groups, where the instructor will lead class instruction for 30-45 minutes.

Part 2: Breakout Session

In breakout sessions, we will explore and collaboratively solve problem sets in small groups. Here, the **collaboration, conversation, and approach** are just as important as "solving the problem" - please engage warmly, clearly, and plentifully in the process!

In breakout rooms you will:

- Screen-share the problem/s, and verbally review them together
- Screen-share an interactive coding environment, and talk through the steps of a solution approach
 - ProTip: - An Integrated Development Environment (IDE) is a fancy name for a tool you could use for shared writing of code - like Replit.com, Collabed.it, CodePen.io, or other - your staff team will specify which tool to use for this class!
- Screen-share an implementation of your proposed solution
- Independently follow-along, or create an implementation, in your own IDE.

Your program leader/s will indicate which code sharing tool/s to use as a group, and will help break down or provide specific scaffolding with the main concepts above.

Note on Expectations

CodePath Courses

We will approach problems using the six steps in the UMPIRE approach.

UMPIRE: Understand, Match, Plan, Implement, Review, Evaluate.

We'll apply these six steps to the problems we'll see in the first half of the course.

We will learn to:

- **Understand** the problem
- **Match** identifies common approaches you've seen/used before
- **Plan** a solution step-by-step, and
- **Implement** the solution
- **Review** your solution
- **Evaluate** your solution's time and space complexity and think critically about the advantages and disadvantages of your chosen approach.

Breakout Problems Session 2



[Unit 7 Cheatsheet](#)

To help your learning journey with recursion and divide and conquer algorithms, we've put together a guide to common concepts and syntax you will use throughout Unit 7 breakout problems. Use this cheatsheet as a quick reference guide as you work through the problems below.

- ▶ **Problem Set Version 1**
- ▶ **Problem Set Version 2**
- ▶ **Problem Set Version 3**