TIP101 | Intro to Technical Interview Prep

Intro to Technical Interview Prep Fall 2025 (@ 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

Session 2: Dictionaries in Python II

Session Overview

Students will continue to expand their expertise in Python through the exploration of data structures such as lists and dictionaries. They engage in various tasks like verifying list properties, creating and updating dictionaries, and analyzing data to make decisions.

Through exercises that involve stock management, GPA calculation, and determining the best-rated books or genres, students solidify their understanding of Python's capabilities in handling complex data manipulations and condition-based logic, equipping them for more advanced programming challenges.

> 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.

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 provide specific scaffolding with the main concepts above.

🔎 Problem Solving Approach

To build a long-term organized approach to problem solving, we'll start with three main steps. We'll refer to them as **UPI: Understand, Plan, and Implement**.

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

We will learn to:

- **Understand** the problem,
- **Plan** a solution step-by-step, and
- **Implement** the solution

▸ **Comment on UPI**

▸ **UPI Example**

Breakout Problems Session 2

💡 [Unit 2 Cheatsheet]

To jump start your journey into Python dictionaries, we've put together a guide to common functions and syntax you will use throughout Unit 2 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**