
Binary Trees II

AGENDA & ANNOUNCEMENTS

- Binary Tree Problem Walkthrough (30 mins)
- Breakout Session: Mock Interviews (60 mins)
- Other Types of Interviews, Q&A (30 mins)

Binary Tree Problem Walkthrough

MAX SUM BST IN BINARY TREE

- Return the max sum of values of a subtree which is also a BST
- [Leetcode link](#)

Breakout Session: Mock Interviews

BREAKOUT SESSION: MOCK INTERVIEWS

- 45 minutes interview, 15 minute discussion/feedback
- **Interviewee** (should be logged on REPL)
 - Relax!
 - Trees might be annoying to draw in REPL, so have a piece of paper handy
- **Interviewer** (should be logged on REPL)
 - Create & share a REPL with your pod
- **Observers**
 - Mute and Turn off video. Be constructive in your feedback.
- If your mentor couldn't make it, message me on Slack

Breakout Session Recap

BREAKOUT SESSION RECAP

- Expect these types of questions with a similar format
- Use this as motivation to keep practicing!
- This is our first round of mock interviews, please send us feedback so we can improve

Other Types of Interviews

OTHER TYPES OF INTERVIEWS

- There are other types of interviews besides general data structure/algorithmic interviews
- Other common types of interviews:
 - Screening
 - Behavioral
 - Role-specific
 - System Design
- Allocate your practice accordingly depending on the companies you're applying for

SCREENING INTERVIEWS

- Usually the first interview when applying
- Evaluate your qualifications and see if you would be a potential fit for the role
- Clarify any questions about your resume
- Ask about motivations in applying and what you're looking for
- Mostly non-technical and conducted by recruiters

BEHAVIORAL INTERVIEWS

- Understand your behavior in a working environment
- Ask about your soft-skills and working experience in a team
- There's usually at least one round of this during full-time/intern interviews
- Usually conducted by managers

STAR METHOD

- A popular framework to answer behavioral questions
- *Tell me about a challenging situation you had at work*
- **Situation** - Setup and describe the situation
 - *I was on-call and I got an alert that errors for our main backend service were spiking in the middle of the night.*
- **Task** - Explain your responsibility in the situation
 - *As on-call, my role is to make sure our services are stable and to triage/mitigate escalations when they happen.*
- **Action** - Describe the actions you took to accomplish the task
 - *I looked at the timeline for when the errors started, along with the changes that were made at that time. I found the offending change and reverted it.*
- **Results** - State the outcome of your actions
 - *The errors, which affected X users was mitigated in Y minutes. I also led a post-mortem afterwards, which led to creating more automated tests to prevent it from happening again.*

ROLE-SPECIFIC INTERVIEWS

- Deep-dive into your domain-specific knowledge (e.g. iOS, Android, Front-end Web, AI/ML, etc.)
- Could also be mixed with an algorithmic/data-structures interview
- Some companies have switched to fully doing these types of interviews (e.g. startups)

SYSTEM DESIGN INTERVIEWS

- Usually for experienced hires, not common for interns/new grads
- Understand how well you're able to design an end-to-end system that is either in/out of your normal domain of expertise
- Some companies use this to determine level in hiring
- Instead you might be asked an Object-oriented programming (OOP) question

**Please make sure to do the
feedback survey!**