

Acing the Interview: Virtual & Reality

Erica Hang



APPLYING

SCREENING

INTERVIEW(S)

HOST MATCHING
(OPTIONAL)

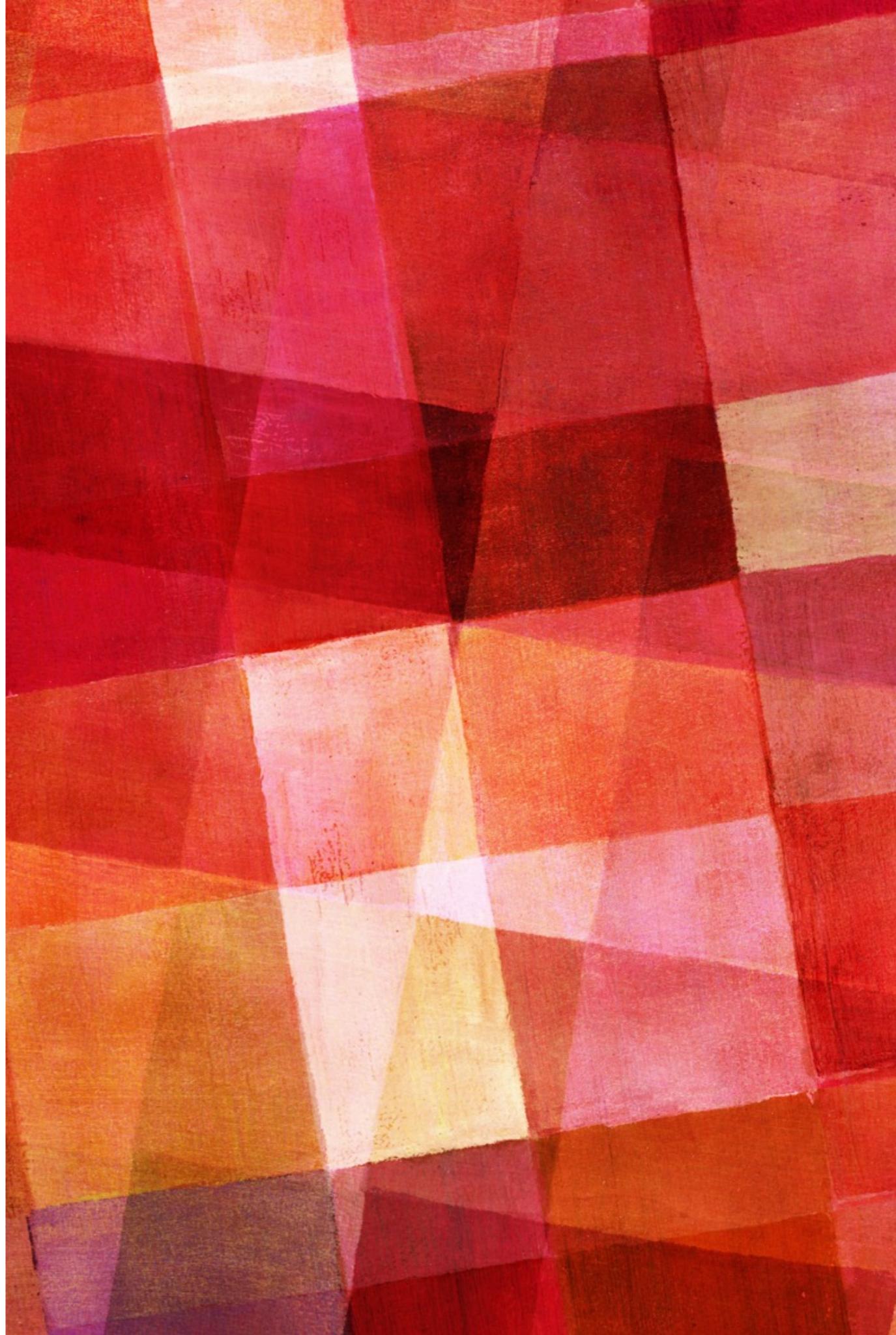
CELEBRATING

“Get to know the job intimately that you're applying for. Don't just read the job description - study it and picture yourself performing every task required of you.”

Travis Bradberry

The Prep

Resume creation
Research



RESUME

Emilie Windsor

510 31st AVE.

A Lauderdale, FL 33302

Phone: 438-563-7467

Email: emilie.windsor@mail.com

QUALIFICATIONS:

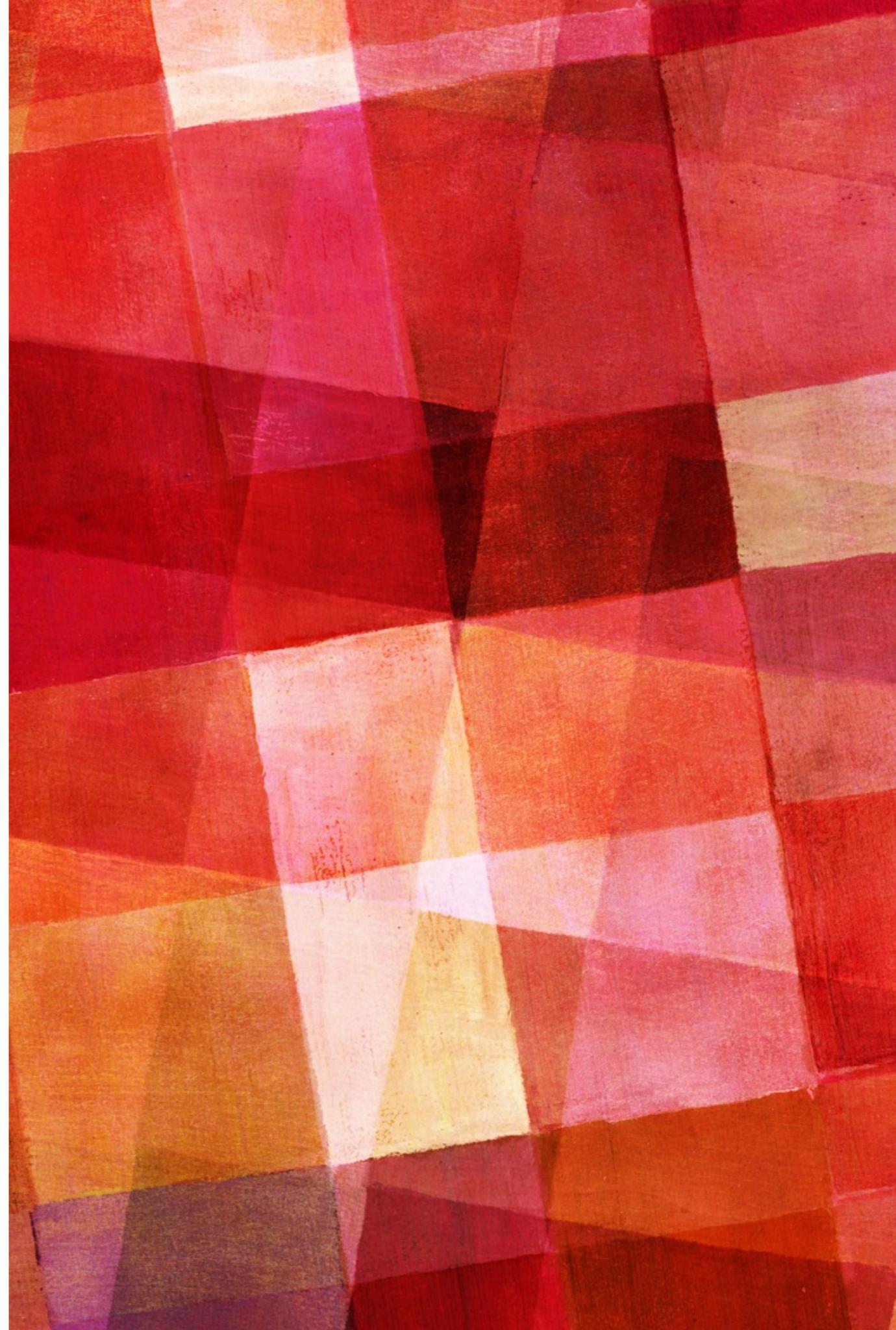
Customer service and interacting with customers
Team player, dominant including five in my family
Excellent communication skills
Excellent organizational skills
Excellent time management skills



Research

The Method

Online
Networking



APPLY NOW!

turbo

Shift

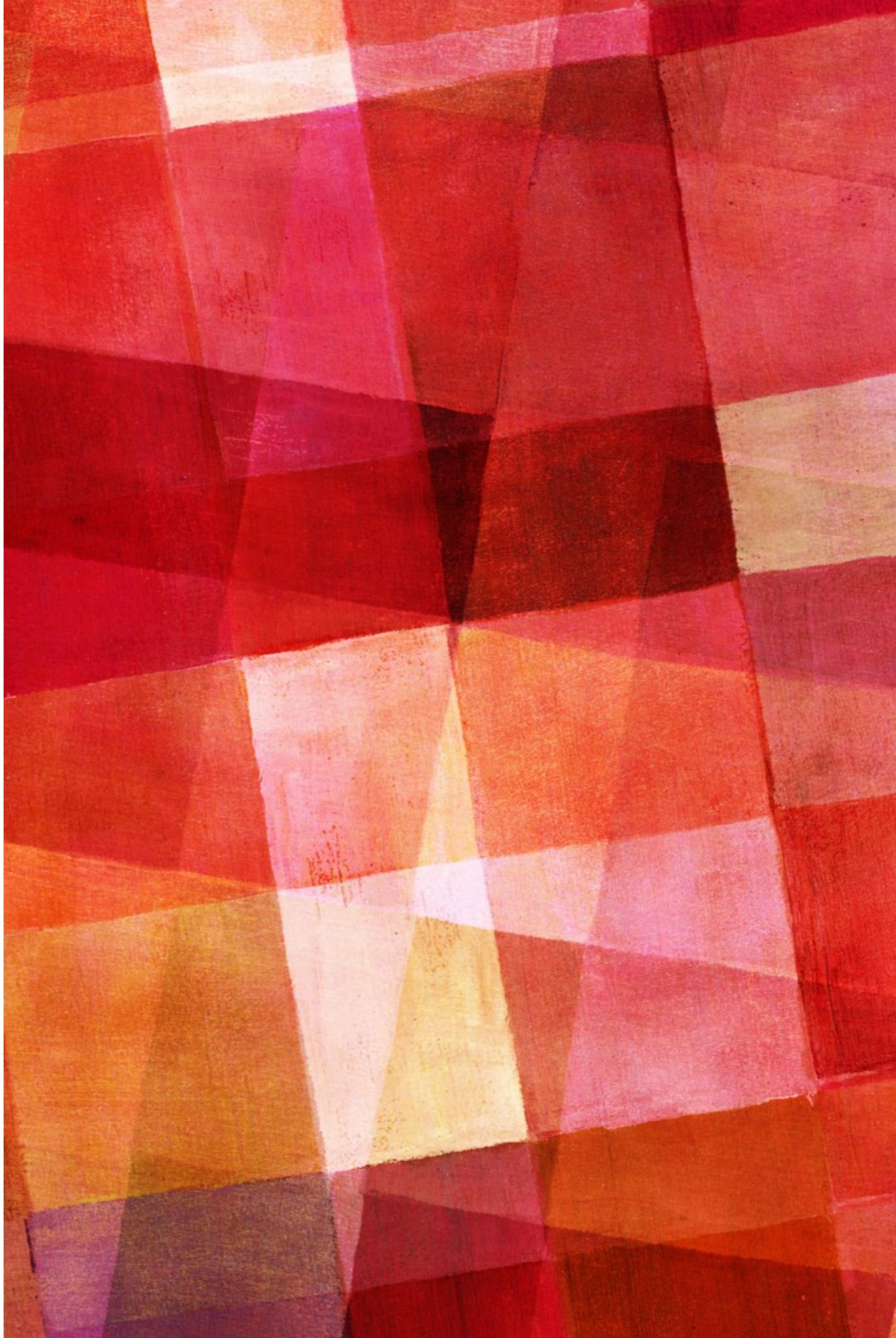


“The interrogation and screening can be annoying, but it's also a sign that you're on the right track.”

Jon Katz

The Prep

Study for the “midterm”
Practice makes perfect



The Study Guide: “Midterm”

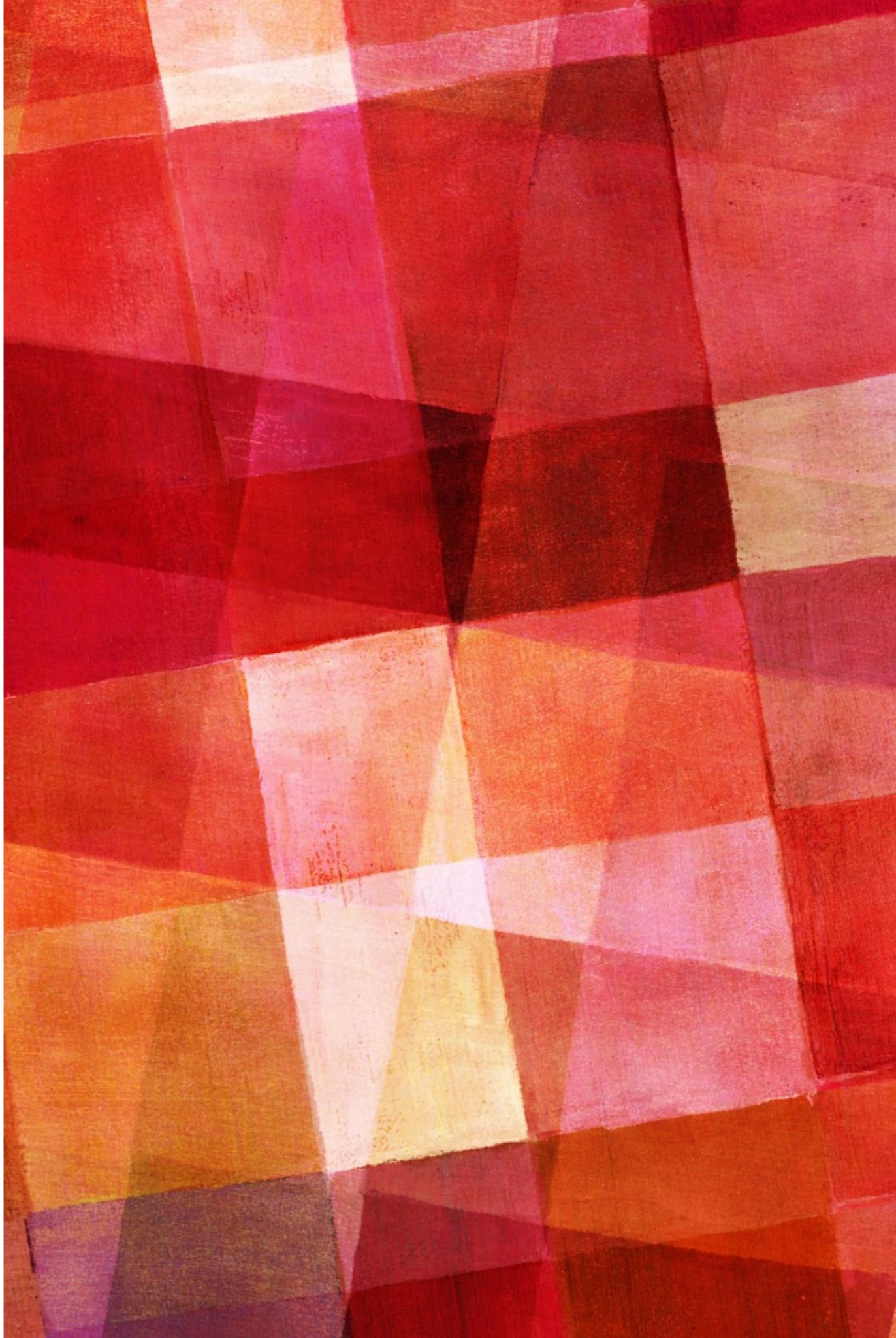
- Fundamentals & High-level Concepts
- Basic Data Structures
- Object-oriented Programming
- Arrays & Strings

The Practice

- About you
- Work experience, projects, open source contributions, etc.
- Questions about company
- Show passion & knowledge!

The Method

Key starters
Stand-outs
Be considerate



The Key-starters

- Name
- Graduation date
- Availability
- Full-time or co-op
- Interests/Passion in Computer Science
- Language most proficient at

Stand-outs

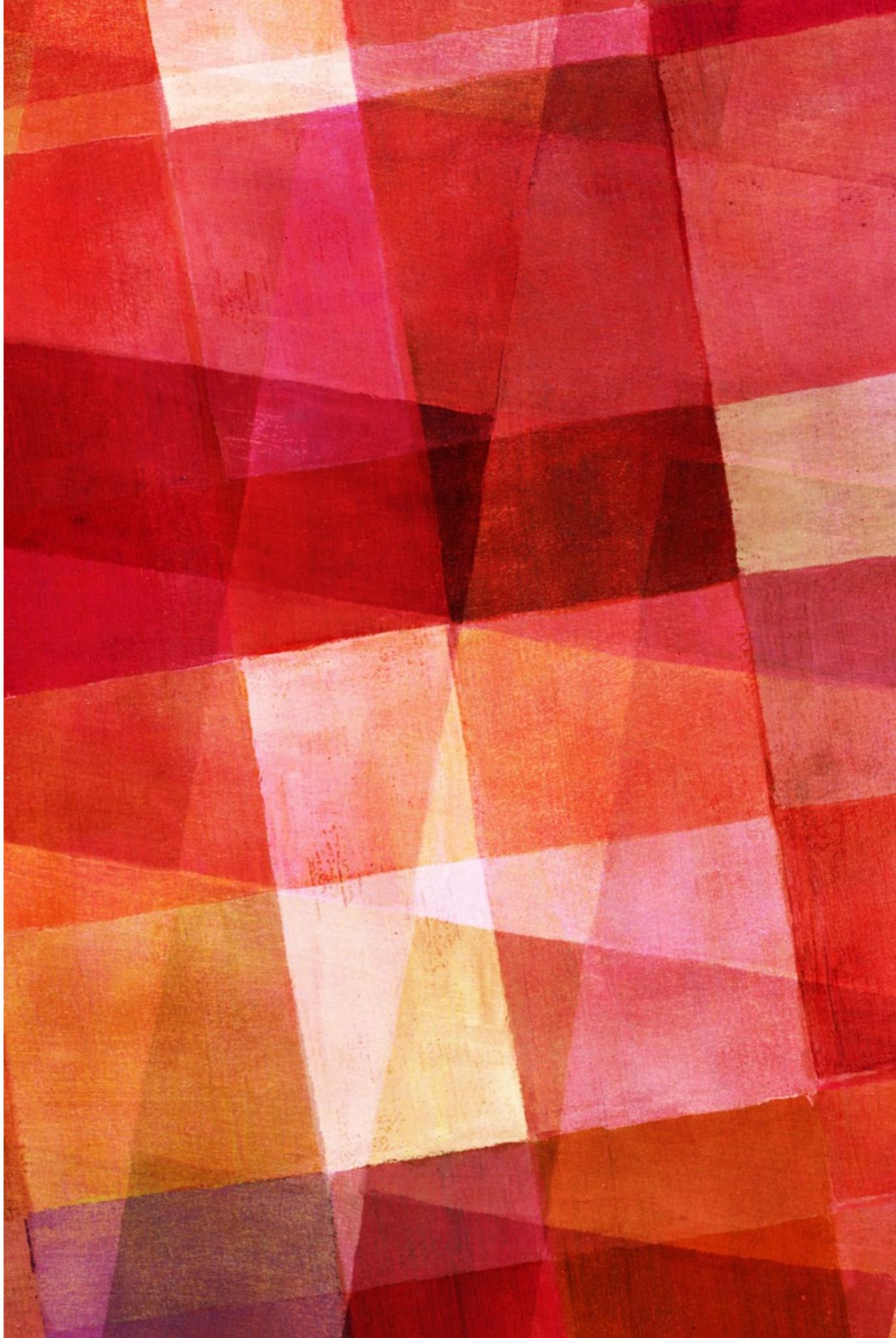
Be considerate

“There's only one interview technique that matters... Do your homework so you can listen to the answers and react to them and ask follow-ups. Do your homework, prepare.”

Jim Lehrer

The Prep

Study for the “final”
Study groups
Mock interviews
Material

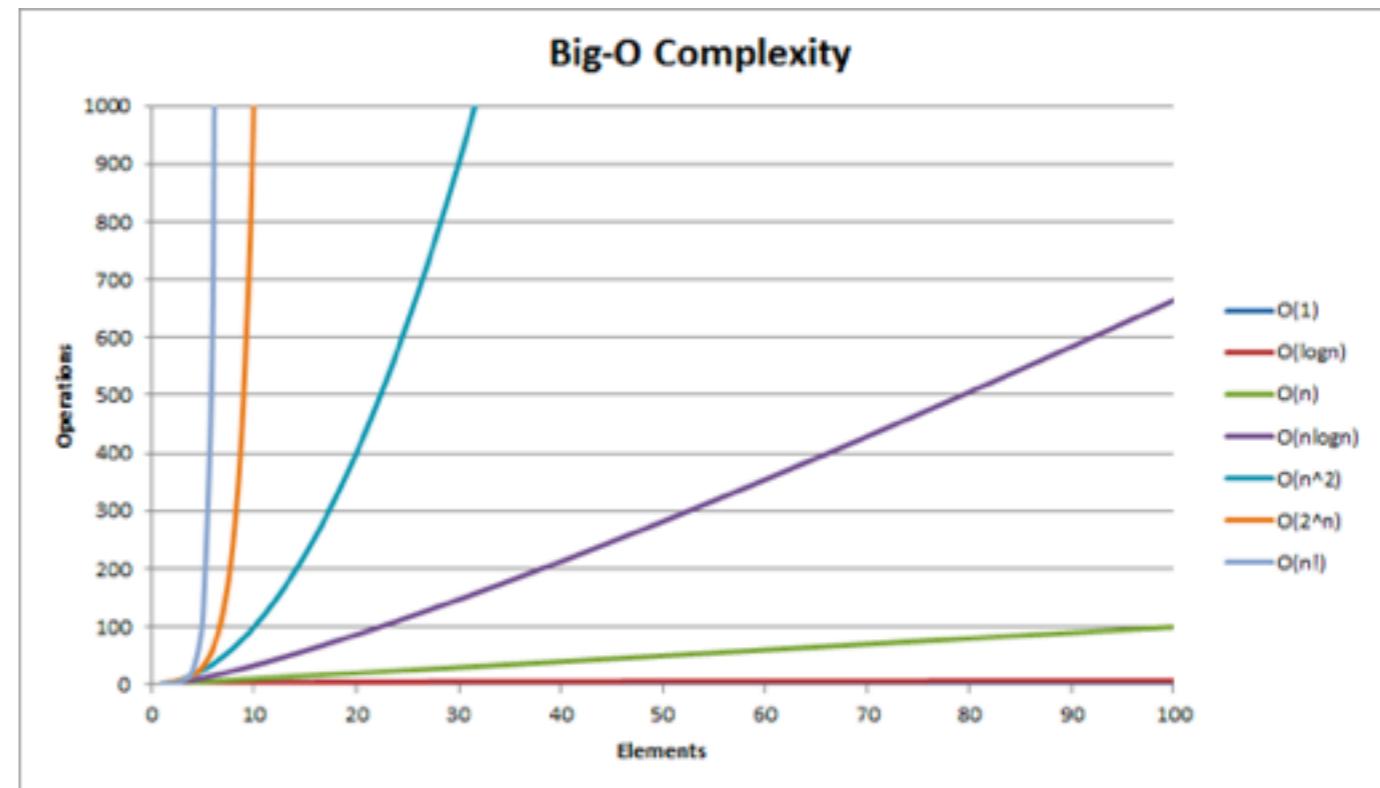


The Study Guide: “Final”

- Data structures: Linked Lists, Binary Trees, Tries, Stacks, Queues, Vectors/ArrayLists, Hash Tables, Graphs
- Algorithms: BFS, DFS, Binary Search, Merge Sort, Quick Sort, Tree Insert/Find/etc
- Concepts: Bit Manipulation, Design Patterns, Memory Management (Stack vs Heap), Recursion, Dynamic Programming, System Design & Scalability
- Power of 2's

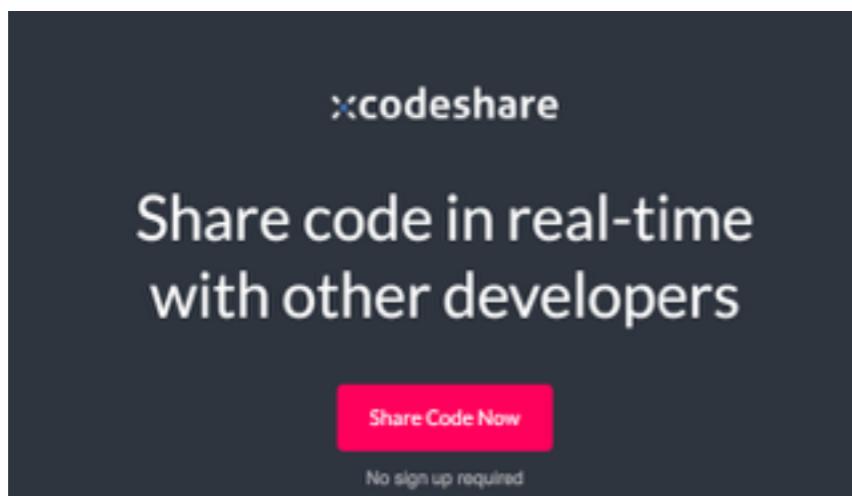
The Performance & Optimization

- Runtime
- Big(O): Upperbound
Big(Ω): Lowerbound
Big(Θ): Tightbound
- Add Runtimes:
+ “Do this, then do that”
- Multiply Runtimes:
* “Do this for each time you do that”



The Approach

- Whiteboard
- Paper & pencil
- Word document
- Code share





Cracking the Coding Interview: 189 Programming Questions and Solutions

by Gayle Laakmann McDowell ▾ (Author)

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CRACKING the CODING INTERVIEW

189 PROGRAMMING QUESTIONS & SOLUTIONS



Look inside ↓

ELEMENTS OF PROGRAMMING INTERVIEWS



ADNAN AZIZ
TSUNG-HSIEN LEE

Elements of Programming Interviews: The Insiders' Guide Paperback – October 11,

2012

by Adnan Aziz ▾ (Author), Tsung-Hsien Lee ▾ (Author), Amit Prakash ▾ (Author)

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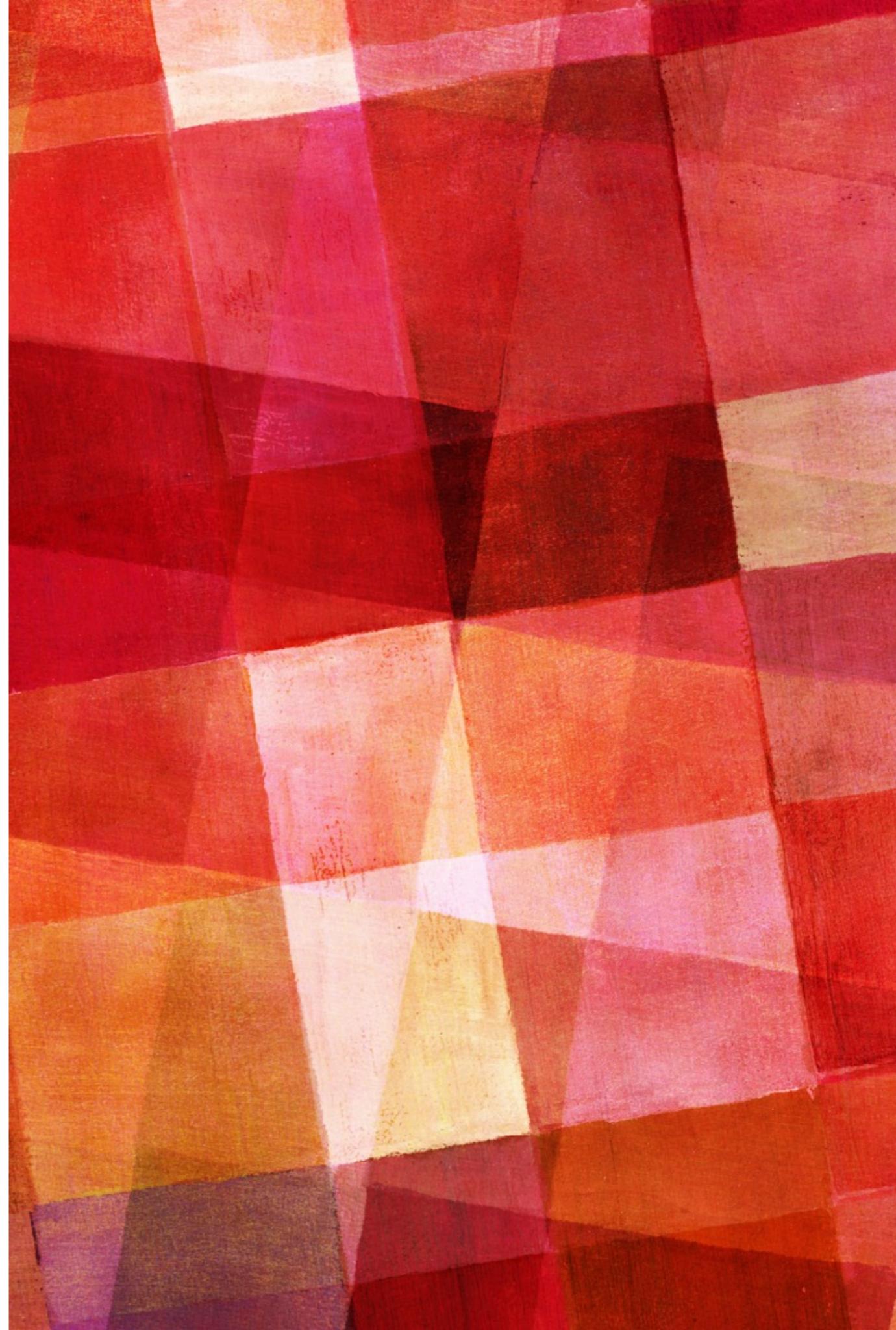
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The Java version of EPI is available on Amazon! Search for Elements of Programming Interview in Java, or use the short link bit.ly/epijava

This is the C++ version.

The Method

Virtual
Reality



The Overview

- Notes about the question
- Outline
- Clarification
- Take your time

The Questions

- In-depth coding question
- Architecture & design

Example #1

- Implement an algorithm to determine if a string has all unique characters. What if you cannot use additional data structures?

Example #2

- Design a smart library using Object Oriented Programming

The Completion

- Clean-up: Code reuse, variable names, magic numbers, modularity, error checking
- Test your code
- Optimizations
- Business Objectives

Questions & Answers

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ericahang



The End