

Pseudo-code Problems - Day 3

1. Java OOPs

Moderate

1. Food Delivery System

- a. Use composition for **Order** having **Customer**, **Restaurant**, and **DeliveryBoy** objects.

2. Medical Record Manager

- a. Use interfaces like **Searchable**, **Printable**. Apply polymorphism for different report types.

2. Data Structures & Algorithms

Moderate

1. Patient Record Hashing

- a. Store patients in a **HashMap** using a unique patient ID. Retrieve, update and delete records efficiently.

2. Maze Solver Bot

- a. Use **Recursion** to solve a grid maze using backtracking.

3. Collections, Generics, Streams

Moderate

1. Library Book Filter

- a. Use **Stream** filters and lambdas to get all books published after 2015 and with rating > 4.5.

2. Payment Processor

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- a. Create a generic `Transaction<T>` class for UPI, Card, and NetBanking, ensuring type safety.