FAQ DP

Questions Repeated 2 or More Times

1. **Design Pattern Definition** (3 times)

- Summer 2024 Q1.1: "What are the three types of pattern design in java?"
- Summer 2023 Q1.1: "What are design patterns"
- Winter 2023 Q1.1: "What is design pattern?"

2. **Design Pattern Problem Solving** (3 times)

- Summer 2024 Q1: "How design patterns solve the design problems?"
- Summer 2023 Q1(b): "Explain how to use design pattern?"
- Winter 2023 Q2(a): "Explain how design patterns solve design problems."

3. **Factory Method Structure** (2 times)

- Summer 2024 Q2(b): "Explain factory method pattern. Also draw the UML diagram."
- Summer 2023 Q3(a): "Draw the structure of Factory method and explain."

4. **Singleton Pattern Implementation** (2 times)

- Summer 2024 Q3(a): "What is singleton design pattern? How to create singleton design?"
- Winter 2023 Q4(a): "When is singleton pattern useful? Draw its common structure and explain how to implement it."

5. **Adapter Pattern** (2 times)

- Summer 2024 Q3(b): "What is adapter pattern? Explain its advantage and usage."
- Winter 2023 Q3(a): "What is adapter pattern? State the importance of adapter pattern."

6. **Behavioral Patterns Overview** (2 times)

- Summer 2024 Q4(a): "Discuss the various behavioral design patterns."
- Winter 2023 Q4(b): "Write a note on behavioral patterns."

7. **Chain of Responsibility** (2 times)

- Summer 2024 Q4(b): "Explain chain of responsibility with example."

- Winter 2022 Q4(b): "Discuss about chain of responsibility."

8. **Template Pattern** (2 times)

- Summer 2024 Q5(b): "Draw common structure of template pattern and explain how to implement it."
- Winter 2023 Q5(b): "Describe the Template method pattern in detail."

9. **State vs Visitor Pattern** (2 times - Exact Match)

- Summer 2024 Q5(b): "Explain in detail about the difference between the state pattern and the visitor pattern."
- Winter 2023 Q5(b): "Explain in detail about the difference between the state pattern and the visitor pattern."

10. **Builder Pattern** (2 times)

- Summer 2024 Q2(a): "Explain builder design pattern with example."
- Winter 2023 Q2(b): "Describe the builder method. Discuss in which situation it is being used."

11. **Prototype Pattern** (2 times)

- Summer 2024 Q1.7: "What is Advantage of Prototype Pattern?"
- Summer 2023 Q3(b): "Write the code for prototype pattern."

12. **Mediator Pattern** (2 times)

- Summer 2024 Q4(b): "Explain in detail about the difference between the mediator patterns, memento pattern."
- Winter 2022 Q4(a): "Discuss about the implementation issues of interpreter and mediator."