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Who is the original author of the  
SOLID Principles of OOP?

Robert “Uncle Bob” Martin

What principle is the 'S' in  
SOLID?

# Single Responsibility Principle

Is the Dependency Inversion  
Principle the same as Dependency  
Injection?

No, Dependency Inversion addresses abstractions. While Dependency Injection refers to the injection of Dependencies into a class.

What are the three types of  
Dependency Injection



- By Property
- By Setter
- By Constructor

Which type of Dependency  
Injection should you favor?

By Constructor - This requires the dependency to be injected when the class is instantiated.

Can you use Dependency Injection  
against a private property in Spring?

Yes, Spring will support this, and inject the dependency using reflection at runtime. However, this is considered a VERY bad practice.

Is it good practice to use concrete classes for dependency injection?

No. You should use interfaces, which will allow the runtime environment to determine the implementation to inject.

What is IoC?



Inversion of Control - the runtime environment (or framework) which injects dependencies

What is the 'L' in SOLID?

# Liskov Substitution Principle, by Barbara Liskov

What is the annotation used in Spring to indicate you want a dependency injected?

@Autowired

If you have two beans of the same type, how do you specify a preference for one over the other?

The `@Primary` annotation can be used to designate a primary bean

What are the two callback interfaces  
you can implement to tap into the  
bean lifecycle?



# InitializingBean and DisposableBean

What two annotations can be used to access the Spring Bean lifecycle?

@PostConstruct and  
@PreDestroy

How do you specify a bean  
name you want injected?

Use the `@Qualifier` annotation

