The MathServices App Case Study: Implementing the GCD Microservice

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Learning Objectives in this Part of the Lesson

- Understand the concurrent implementation of the GCDController & GCDService classes that run in the GCDApplication microservice.
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• Understand the implementation of the GCDController & GCDService classes that run in the GCDApplication microservice

The focus is on the Java parallel streams framework
Implementing the GCDApplication Microservice
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```java
/**  
 * This class defines implementation methods that are called by the
 * {@link GCDController}. These implementation methods check the
 * primality of one or more {@link Integer} objects using the Java
 * structured concurrency framework via the {@link StructuredTaskScope} classes.
 */

/*
 * This class is annotated as a Spring {@link Service}, which
 * indicates this class implements "business logic" and enables the
 * auto-detection and wiring of dependent implementation classes via
 * classpath scanning.
 */

@Service
public class GCDService {

/**
 * Concurrently compute the GCD of the {@link Integer} param.
 * @param integers The {@link List} of {@link Integer} objects
 * upon which to compute the GCD
 */
```
End of the MathServices App Case Study: Implementing the GCD Microservices