Managing the Java Thread Lifecycle: Example Application

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Learning Objectives in this Part of the Module

• Learn how the GCD Interrupted program works

See github.com/douglascraigschmidt/POSA/tree/master/ex/M3/GCD/Interrupted
Runtime Behavior of the GCD Interrupted App
Run Time Behavior of the GCD Interrupted App

- Use a thread to compute the greatest common divisor (GCD) of two numbers.
- GCD is the largest positive integer that divides two integers without a remainder.

The user can interrupt the GCD computation at any point.
Implementation of the GCD Interrupted App
Implementation of the GCD Interrupted App

• This app showcases the Java Thread start() & interrupt() methods
Implementation of the GCD Interrupted App

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Super class that automatically logs lifecycle hook method invocations to aid debugging
Implementation of the GCD Interrupted App

- This app showcases the Java Thread start() & interrupt() methods

Start/interrupt a Java thread that repeatedly computes the GCD of two random #’s
Implementation of the GCD Interrupted App

- This app showcases the Java Thread start() & interrupt() methods

Runs in a thread repeatedly computing GCD of two #'s & can be interrupted
End of Managing the Java Thread Lifecycle: Example Application