Applying Java Structured Concurrency:

Case Study ex3

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Learning Objectives in this Part of the Lesson

- Case study ex3 demos Java 19 structured concurrency features, which enable a main task to split into several concurrent sub-tasks that run concurrently to completion before the main task can complete
 - Java 19 supports structured concurrency via the Structured TaskScope class, which supports AutoCloseable & defines several nested classes (e.g., Structured TaskScope.ShutdownOnFailure)

```
try (var scope = new
   StructuredTaskScope
   .ShutdownOnFailure()) {
var results = ...
for (var bf :
     generateRandomBigFractions
       (count))
  results.add
    (scopes.fork(...));
scope.join();
sortAndPrintList(results);
```

Applying Java Structured Concurrency to Case Study ex3

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See github.com/douglascraigschmidt/LiveLessons/tree/master/Loom/ex3

End of Applying Java Structured Concurrency: Case Study ex3