CS 5336 Spring 2016 Names Shirley Moore, Instructor February 23 In-class Activity
Deterministic Parallelism and Futures
1. Give two invariants for <i>safe futures</i> , in terms of the <i>happens before</i> relation and data dependencies, that need to be true with respect to a future f and its continuation C_f .
2. From the Java 8 documentation, give the semantics for Java Future in terms of the <i>happens before</i> relation.
3. Determine whether Java Futures are safe in two ways: a. Reasoning from the Java documentation
b. Modifying the example program in CallableTask.java and CallableClient.java on the course website.

4. Argue either for or against having Java Futures be safe.