CS 5334/	4390	Spring 2015
Shirley M	loore,	Instructor
March 2	In-cla	ss Activity

Names	 		

Deterministic Parallelism and Futures
1. Describe two basic ideas of deterministic parallelism as discussed in Dr. Jagannathan's video.
2. 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 .
3. From the Java 8 documentation, give the semantics for Java Future in terms of the <i>happens before</i> relation.
4. 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.
5. Argue either for or against having Java Futures be safe.