1 Administrivia

- Project 1 due Tuesday April 2, 2012
- Problem set 3 beta due Saturday April 7, 2012

2 Threads

Two ways to provide the code that will run in a thread:

- Provide a Runnable
- Subclass Thread

Commonly used methods:

- Thread.start
- Thread.sleep
- Thread.interrupt
- Thread.join

3 Synchronization

Synchronized Methods:

- Atomicity: Makes two invocations of the method to NOT interleave.
- Serializability: Subsequent invocations of the method are guaranteed to see changes made by all previous invocations.

Constructors cannot be synchronized.

Every object has its own intrinsic lock. Access to static fields and static synchronized methods are controlled by the class intrinsic lock, which is distinct from the lock for any instance of the class.

Synchronized Statements:

An example:

```java
synchronized(this) {
   ...
}
```

Reference

Java Tutorial on Concurrency: http://docs.oracle.com/javase/tutorial/essential/concurrency