Solution 6.5

File Manager.java

```java
/**
 * Manager.java
 *
 * File for use with exercise 6.39
 *
 * @author Gagne, Galvin, Silberschatz
 * Operating System Concepts with Java - Eighth Edition
 * Copyright John Wiley & Sons - 2010.
 */

public class Manager {

   public static final int MAX_RESOURCES = 5;
   private int availableResources = MAX_RESOURCES;

   /**
    * This method is now thread-safe and a waiting thread
blocks
    * until sufficient resources are available.
    */
   public synchronized void decreaseCount(int count) {
        while (availableResources < count) {
            try {
                wait();
            }
            catch (InterruptedException ie) { }
        }

        availableResources -= count;
   }

   /**
    * Return the resources.
    */
   public synchronized void increaseCount(int count) {
        availableResources += count;

        notify();
   }
}
```