```
HardwareData.java
 Mar 17, 09 1:10
                                                                Page 1/1
filename: HardwareData.java
   description: This program takes care of syncronizing and making the class
               thread safe.
        author: Paladino, Zac
      login id: cps346-01.16
         class: CPS 346
    instructor: Perugini
    assignment: Homework #5
      assigned: March 10, 2009
          due: March 17, 2009
class HardwareData {
  private boolean value = false;
  HardwareData (boolean value) {
     this.value = value;
  synchronized boolean get() {
     return value;
  synchronized void set (boolean newValue) {
     value = newValue;
  // must be atomic
  synchronized boolean getAndSet (boolean newValue) {
     boolean oldValue = this.get();
     this.set (newValue);
     return oldValue;
  // must be atomic
  synchronized void swap (HardwareData other) {
     boolean temp = this.get();
     this.set (other.get());
     other.set(temp);
```