

```

// concurrent read or exclusive write
class ReadersWriters extends RWbasic {
    private int nr = 0;
    private synchronized void startRead() {
        nr++;
    }
    private synchronized void endRead() {
        nr--;
        if (nr == 0) notify(); // awaken waiting Writers
    }
    public void read() {
        startRead();
        System.out.println("read: " + data);
        endRead();
    }
    public synchronized void write() {
        while (nr > 0) // delay if any active Readers
            try { wait(); }
            catch (InterruptedException ex) {return;}
        data++;
        System.out.println("wrote: " + data);
        notify(); // awaken another waiting Writer
    }
}

```

True readers/writers using Java.

Copyright © 2000 by Addison Wesley Longman, Inc.