

```

// basic read or write; no exclusion
class RWbasic {
    protected int data = 0; // the "database"
    public void read() {
        System.out.println("read: " + data);
    }
    public void write() {
        data++;
        System.out.println("wrote: " + data);
    }
}

class Reader extends Thread {
    int rounds;
    RWbasic RW; // a reference to an RWbasic object
    public Reader(int rounds, RWbasic RW) {
        this.rounds = rounds;
        this.RW = RW;
    }
    public void run() {
        for (int i = 0; i < rounds; i++) {
            RW.read();
        }
    }
}

class Writer extends Thread {
    int rounds;
    RWbasic RW;
    public Writer(int rounds, RWbasic RW) {
        this.rounds = rounds;
        this.RW = RW;
    }
    public void run() {
        for (int i = 0; i < rounds; i++) {
            RW.write();
        }
    }
}

class Main {
    static RWbasic RW = new RWbasic();
    public static void main(String[] args) {
        int rounds = Integer.parseInt(args[0],10);
        new Reader(rounds, RW).start();
        new Writer(rounds, RW).start();
    }
}

```

Parallel readers/writers using Java.