

Apr 13, 09 15:01

Barrier.java

Page 1/1

```

/*****
/
/   filename:  Barrier.java
/
/   description:  This is the Barrier monitor class.
/
/   author:    Paladino, Zac
/   login id:  cps346-nl.16
/
/   class:     CPS 346
/   instructor: Perugini
/   assignment: PJ #3
/
/   assigned:  March 11, 2009
/   due:       April 15, 2009
/
/*****/
import java.util.concurrent.*;
import java.util.concurrent.locks.*;

class Barrier{
    int NumWait, NumCount;
    Condition workers;
    Lock lock;
    Barrier(int num){
        lock = new ReentrantLock();
        NumWait = num;
        workers = lock.newCondition();
    }
    public void waitForOthers(){
        lock.lock();
        NumCount++;
        if(NumCount == NumWait){
            workers.signalAll();
            NumCount = 0;
        }
        else{
            try{workers.await();}catch(InterruptedException e){}
        }
        lock.unlock();
    }
}

```