

`Lock lock = new ReentrantLock;`

```
final Condition notFull = lock.newCondition();  
final Condition notEmpty = lock.newCondition();
```

```
public Message get(...){  
    lock.lock();  
    try {  
        while(garde) notEmpty.await();  
        ...  
        notFull.signal();  
    } finally {  
        lock.unlock();  
    }  
    ...  
}
```

```
public void put(...){  
    lock.lock();  
    try {  
        while(garde) notFull.await();  
        ...  
        notEmpty.signal();  
    } finally {  
        lock.unlock();  
    }  
    ...  
}
```