

# Lock Condition

# java.util.concurrent.locks. Condition

- 通过锁获得  
Lock接口      Condition condition = lock.newCondition()
- 方法和object的wait/notify类似

Condition	Object
<code>await()</code>	<code>wait()</code>
<code>await(long time, TimeUnit unit)</code>	<code>wait(long ms)</code>
<code>awaitNanos(long nanosTimeout)</code>	<code>wait(long ms, int ns)</code>
<code>awaitUninterruptibly()</code>	
<code>awaitUntil(Date deadline)</code>	
<code>signal()</code>	<code>notify()</code>
<code>signalAll()</code>	<code>notifyAll()</code>

```
public class BoundedBuffer<E> {
    final Lock lock = new ReentrantLock();
    final Condition notFull = lock.newCondition();
    final Condition notEmpty = lock.newCondition();

    final LinkedList<E> items = new LinkedList<>();

    public void put(E x) throws InterruptedException {
        lock.lock();
        try {
            while (items.size() >= 10) {
                //已经放满了
                notFull.await();
            }
            items.push(x);
            notEmpty.signal();
        } finally {
            lock.unlock();
        }
    }
}
```

