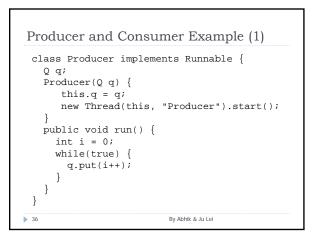
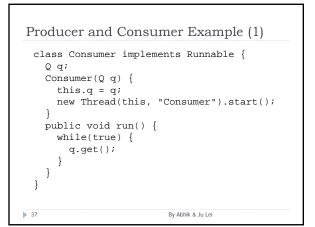


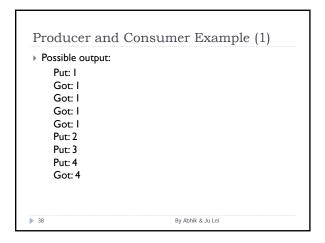
```
Producer and Consumer Example (1)

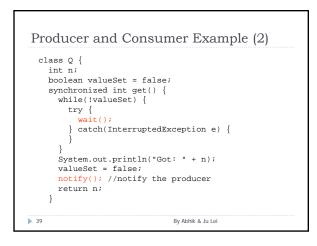
class Q { //queue of size 1
    int n;
    synchronized int get() {
        System.out.println("Got: " + n);
        return n;
     }
    synchronized void put(int n) {
        this.n = n;
        System.out.println("Put: " + n);
     }
}

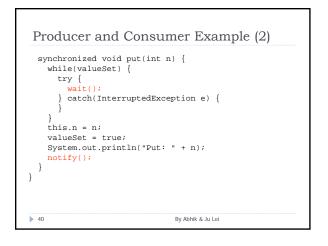
> 35
```

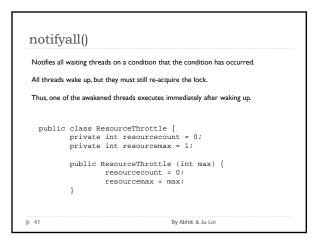


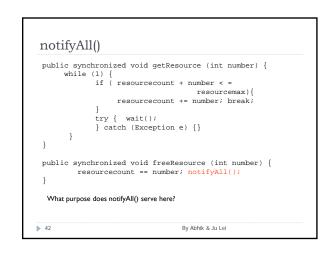


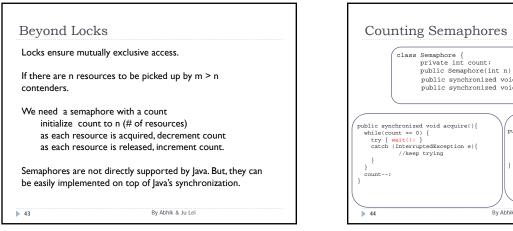


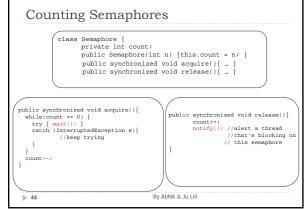












Using co	ounting semaphores
import java.util. class Count ext static volati	concurrent.Semaphore; ends Thread{ le int n = 0; phore s = new Semaphore(1);
s.acqu	n; n = tmp +1;
} } }	
45	By Abhik & Ju Lei

References
Online Tutorials:
http://java.sun.com/docs/books/tutorial/essential/concurrency/index.html
Optional Reading:
Java Threads by Oaks and Wong, O'Reilly.
Concurrent Programming: The Java Programming Language by Hartley.
Java Concurrency in Practice by Goetz, Addison Wesley. (advanced)
▶ 46 By Abhik & Ju Lei