

-
- Notes on 02-14-18
 - References:

```
class dater{  
    private int data;  
    synchronized SetData(int val){  
        data = val;  
    }  
}
```

```
int data  
semaphore mutex = 1;  
  
thread 2  
    mutex.wait();  
    data = mutex.signal();  
  
thread 1  
    mutex.wait();  
    data = mutex.signal();
```

Sync method:

```
jvm - ensure mutual exclusion  
wait() - block calling thread.  
notify - unblock one blocked thread if any.  
notifyAll() - unblocks all blocked threads
```

```

class buffer{
<!-- stuff -->
    int count =0;

    synchronized add (~~){
        while (count == n){ //if full
            wait();
        }
        count ++;
        notifyAll(); //if someone calls a get then notify
        everyone.
    }
    synchronized get(){
        while (count == 0){
            wait();
        }
        count--;
        notifyAll();
    }
}

```

```

Producer
loop
    buffer.add();
end loop

```

```

Consumer
loop
    buffer.get()
end loop

```