## Worksheet #26a: use of tryLock()

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Rewrite the transferFunds() method below to use j.u.c. locks with calls to tryLock (see slide 4) instead of synchronized. Your goal is to write a correct implementation that never deadlocks, unlike the buggy version below (which can deadlock). Assume that each Account object already contains a reference to a ReentrantLock object dedicated to that object e.g., from.lock() returns the lock for the from object. Sketch your answer below using pseudocode.



## Worksheet #26b:

## Linearizability of method calls on a concurrent object

Is this a linearizable execution for a FIFO queue, q? If so, why? If not, why not?

Time	Task $A$	Task $B$
0	Invoke q.enq(x)	
1	Return from q.enq(x)	
2		Invoke q.enq(y)
3	Invoke q.deq()	Work on q.enq(y)
4	Work on q.deq()	Return from q.enq(y)
5	Return y from q.deq()	

