

## Worksheet #25: Linearizability of method calls on a concurrent object

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Name: \_\_\_\_\_

Netid: \_\_\_\_\_

**Is this a linearizable execution for a FIFO queue,  $q$ ?**

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 $q.deq()$	

