

Worksheet #24:

Linearizability of method calls on a concurrent object

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 $q.deq()$	

