

Task 2:

1.

T1	T2	T3	x: 1	y: 2	z: 3
lock(x) a = read(x) write(y,a+1)			x: 1	a: 1	
	lock(y) b = read(y) write(y,b+2)		y: 2	a: 1	
		lock(z) c = read(z) write(x,c+2)	y: 2	b: 2	
			y: 4	b: 2	
write(x,a-1) unlock(x) commit			z: 3	c: 3	
			x: 1		
			x: 0	a: 1	
	unlock(y) commit		x: 0		
		unlock(z) commit	x: 0	y: 4	
			x: 0	y: 4	z: 3
			x: 0	y: 4	z: 3

2.

T1	T2	T3	x
timestamp(t1) a = read(x) write(y,a+1)			x:t1
	timestamp(t2) b = read(y) write(y,b+2)		y:t1
		timestamp(t3) c = read(z) write(x,c+2)	y:t1:t2
write(x,a-1) commit			z:t3
			x:t1:t3
			x:t1:t3:t1
	commit		
		commit abort	