PROTOCOLO DE BLOQUEIO SIMPLES

T1	T2	T3
LOCK-X(A) READ(A)		
A = A + 10		
WRITE(A)		
UNLOCK(A)		
LOCK-X(B)	LOCK-X(A)	
READ(B)	READ(A)	
B = B - 10	A = A + 30	
WRITE(B)	WRITE(A)	
UNLOCK(B)	UNLOCK(A)	
LOCK-X(C)	LOCK-X(B)	LOCK-X(A)
READ(C)	READ(B)	READ(A)
C = A + B	B = B - 30	A = A + 10
WRITE(C)	WRITE(B)	WRITE(A)
UNLOCK(C)	UNLOCK(B)	UNLOCK(A)
COMMIT	LOCK-X(C)	
	READ(C)	
	C = A + B	
	WRITE(C)	
	UNLOCK(C)	
	COMMIT	LOCK-X(C) READ(C)
		C = A + 20
		WRITE(C)
		UNLOCK(C) COMMIT

PROTOCOLO DE BLOQUEIO EM DUAS FASES RIGOSORO

T1	T2	T3
LOCK-X(A) READ(A)		
A = A + 10		
WRITE(A)		
LOCK-X(B)		
READ(B)		
B = B - 10		
WRITE(B)		
LOCK-X(C)		
READ(C)		
C = A + B		
WRITE(C)		
UNLOCK(A)		
ULOCK(B)	LOCK-X(A)	
UNLOCK(C)	READ(A)	
COMMIT	A = A + 30	
	WRITE(A)	
	LOCK-X(B)	
	READ(B)	
	B = B - 30	
	WRITE(B)	
	LOCK-X(C)	
	READ(C)	
	C = A + B	
	WRITE(C)	
	UNLOCK(A)	
	UNLOCK(B)	LOCK-X(A)
	UNLOCK(C)	READ(A)
	COMMIT	A = A + 10
		WRITE(A)
		LOCK-X(C) READ(C)
		C = A + 20
		WRITE(C) UNLOCK(A)
		UNLOCK(C) COMMIT

ERRO DE ROLLBACK EM CASCATA		
T1	T2	T3
READ(A)		
A = A + 10		
WRITE(A)		
	READ(A)	
	A = A + 30	
	WRITE(A)	
READ(B)	READ(B)	
B = B - 10	B = B - 30	
WRITE(B)	WRITE(B)	
READ(C)	READ(C)	READ(A)
C = A + B	C = A + B	A = A + 10
WRITE(C)	WRITE(C)	WRITE(A)
COMMIT	COMMIT	READ(C)
		C = A + 20
		WRITE(C)
		COMMIT

ERRO DE ESCALA IRRECUPERÁVEL		
T1	T2	T3
READ(A)		
A = A + 10		
WRITE(A)		
	READ(A)	
	A = A + 30	
	WRITE(A)	
	READ(B)	
	B = B - 30	
	WRITE(B)	
	READ(C)	
	C = A + B	
	WRITE(C)	
	COMMIT	
READ(B)		READ(A)
B = B - 10		A = A + 10
WRITE(B)		WRITE(A)
READ(C)		READ(C)
C = A + B		C = A + 20
WRITE(C)		WRITE(C)
COMMIT		COMMIT