



























L	Lost Update Problem					
BEGIN_TRANSACTION(T) : K: withdraw(A, 40) ; K: deposin(B, 40) ; FNN FRANSACTION(1) ;	BEGIN_TRANSACTION(T): K: withdraw(A, 40); K: deposit(B, 40); END FARMAT (EDN 1):		BEGIN_TRANSACTION(U): K: withdraw(C, 30) K: deposit[B, 30) END TRANSACTION(U):			
Operations	balance	Operations	balance			
A.balance A.read()	(A) 100					
		C.balance + C.read()	(C) 300			
		C.write(C.balance - 30)	(C) 278			
B.balance	(B) 200	B.balance B.mad()	(B) 200			
		B.write(B.balance + 30)	(B) 230			
B.write(B.balance + 40)	(B) 240					
Transaction T a	and U both wo	ork on the same bank bra	inch K			
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Incon	sisten	t Retrieval Probler	n		
BEGIN_TRANSACTION(T) : (: withdraw(A, 100); (: withdraw(A, 100);		BEGIN_TRANSACTION(U) : (: Total_balance(A, B, C)			
END_TRANSACTION(T) ;	halanaa	END_TRANSACTION(U) :	tel belener		
A balance (A read()	(4) 200	operations	pun_unance		
A write(A balance - 100)	(1) 100				
		tetal_balance < A.read()	100		
	_	tetal_balance + Rread()	100 + 200		
	_	tetal_balance ← total_balance + Cread()	300 + 200		
E-balance - B.read()	(B) 200				
B.write(B.balance + 100)	(B) 300				
	_	1 			
Transaction T a	and U both	work on the same bank branch H	κ.		
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Two-Phase Locking (3)						
BGIN_TRANSACTION(T) : {: withdraw(A, 40) ; {: depoin(B, 40) ;	GIN_TRANSACTION(T) : : withdraw(A, 40) ; : depoin(B, 40) ;		BGIN_TRANSACTION(U): <: withdraw(C, 30) <: deposit B, 30)			
Operations	balance	Operations	balance			
FEGIN_TRANSACTION(T)	lpck (A) 100	BEGIN_TRANSACTION(U)	lpck (C) 300			
A.write(A.balance - 40)	(A) 60	C write(C.balance - 30)	(C) 270			
Domance (D.read()	NCK (B) 200	B.balance ← B.read()	Waiting for			
B.write(B.balance + 40)	(B) 240		(1) 3444			
HND_IRANSACTION(T)	-release (A) (B)	B.write(B.balance + 30)	(B) 270			
		END_TRANSACTION(U)				
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