

Part 1.

Problem1: write-read conflict

T1	T2
	R(X)
	R(Y)
R(X)	
	W(Y)
R(Y)	
	R(X)
W(X)	
	R(Y)
	W(X)
	R(Z)
	W(Z)

Explain: After T2 writes to Y and does not commit his behavior, T1 reads Y. This causes write- read conflict.

Problem2: read-write conflict

T1	T2
	R(X)
R(X)	
	R(Y)
R(Y)	
W(X)	
	W(Y)
	R(X)
	R(Y)
	W(X)
	R(Z)
	W(Z)

Explain: T2 firstly reads X but later T1 writes X. When T2 read X again, it has been updated by T1. Hereby, this causes read-write conflicts and results in unrepeatable read.

Problem3: write-write conflict

T1	T2
	R(X)
	R(Y)
R(X)	
R(Y)	
	W(Y)
	R(X)
	R(Y)
	W(X)
W(X)	
	R(Z)
	W(Z)

Explain: After T2 writes X and has committed yet, T1 writes X. This causes write-write conflict.