$R_3(C)$, $R_3(B)$, $R_1(C)$, $W_1(C)$, $W_2(A)$, C_1 , $R_2(A)$, $R_2(C)$, $W_3(A)$, C_3 , C_2

- a. The transaction conflicts are:
 - i. RW $3\rightarrow 1$ R₃(C), R₃(B), R₁(C), W₁(C), W₂(A), C₁, R₂(A), R₂(C), W₃(A), C₃, C₂
 - ii. WR $1\rightarrow 2$ R₃(C), R₃(B), R₁(C), W₁(C), W₂(A), C₁, R₂(A), R₂(C), W₃(A), C₃, C₂
 - iii. WW $2\rightarrow 3$ R₃(C), R₃(B), R₁(C), W₁(C), W₂(A), C₁, R₂(A), R₂(C), W₃(A), C₃, C₂
 - iv. RW $2\rightarrow 3$ R₃(C), R₃(B), R₁(C), W₁(C), W₂(A), C₁, R₂(A), R₂(C), W₃(A), C₃, C₂
- b. Not conflict serializable due to the cycle $\{T_1, T_2, T_3\}$
- c. The following conflicts can be used to eliminate view equivalent serial schedules:
 - i. RW $3\rightarrow 1$ R₃(C), R₃(B), R₁(C), W₁(C), W₂(A), C₁, R₂(A), R₂(C), W₃(A), C₃, C₂
 - ii. WR $1\rightarrow 2$ R₃(C), R₃(B), R₁(C), W₁(C), W₂(A), C₁, R₂(A), R₂(C), W₃(A), C₃, C₂
 - iii. WW $2\rightarrow 3$ R₃(C), R₃(B), R₁(C), W₁(C), W₂(A), C₁, R₂(A), R₂(C), W₃(A), C₃, C₂

Remember that one must still check view serializability of any candidate view serialization. Not view serializable for the following reasons in each serialization:

- 1. 1, 2, 3: Initial(C)/W₁(C) R₃(C)
- 2. 1, 3, 2: Initial(C)/W₁(C) R₃(C), W₃(A)/W₂(A) final value
- 3. 2, 1, 3: Initial(C)/ W_1 (C) R_3 (C), W_1 (C)/Initial(C) R_2 (C)
- 4. 2, 3, 1: W₁(C)/Initial(C) R₂(C)
- 5. 3, 1, 2: W₃(A)/W₂(A) final value
- 6. 3, 2, 1: $W_1(C)/Initial(C)$ $R_2(C)$, $W_3(A)/W_2(A)$ final value
- d. Recoverable schedule
- e. Cascadeless schedule
- f. Not strict due to:
 - i. R₃(C), R₃(B), R₁(C), W₁(C), W₂(A), C₁, R₂(A), R₂(C), W₃(A), C₃, C₂

 $R_2(A)$, $W_2(A)$, $R_3(C)$, $R_2(A)$, $W_2(B)$, $R_2(B)$, $W_3(A)$, $W_2(A)$, $R_1(C)$, C_2 , $R_1(B)$, $W_3(A)$, C_1 , C_3

- a. The transaction conflicts are:
 - i. RW $2\rightarrow 3$ R₂(A), W₂(A), R₃(C), R₂(A), W₂(B), R₂(B), W₃(A), W₂(A), R₁(C), C₂, R₁(B), W₃(A), C₁, C₃
 - ii. RW $2\rightarrow 3$ R₂(A), W₂(A), R₃(C), R₂(A), W₂(B), R₂(B), W₃(A), W₂(A), R₁(C), C₂, R₁(B), W₃(A), C₁, C₃
 - iii. WW $2\rightarrow 3$ R₂(A), W₂(A), R₃(C), R₂(A), W₂(B), R₂(B), W₃(A), W₂(A), R₁(C), C₂, R₁(B), W₃(A), C₁, C₃
 - iv. WW $2\rightarrow 3$ R₂(A), W₂(A), R₃(C), R₂(A), W₂(B), R₂(B), W₃(A), W₂(A), R₁(C), C₂, R₁(B), W₃(A), C₁, C₃
 - v. RW $2 \rightarrow 3$ R₂(A), W₂(A), R₃(C), R₂(A), W₂(B), R₂(B), W₃(A), W₂(A), R₁(C), C₂, R₁(B), W₃(A), C₁, C₃
 - vi. RW $2\rightarrow 3$ R₂(A), W₂(A), R₃(C), R₂(A), W₂(B), R₂(B), W₃(A), W₂(A), R₁(C), C₂, R₁(B), W₃(A), C₁, C₃
 - vii. WR $2 \rightarrow 1$ R₂(A), W₂(A), R₃(C), R₂(A), W₂(B), R₂(B), W₃(A), W₂(A), R₁(C), C₂, R₁(B), W₃(A), C₁, C₃
 - viii. WW $3\rightarrow 2$ R₂(A), W₂(A), R₃(C), R₂(A), W₂(B), R₂(B), W₃(A), W₂(A), R₁(C), C₂, R₁(B), W₃(A), C₁, C₃
 - ix. WW $2\rightarrow 3$ R₂(A), W₂(A), R₃(C), R₂(A), W₂(B), R₂(B), W₃(A), W₂(A), R₁(C), C₂, R₁(B), W₃(A), C₁, C₃
- b. Not conflict serializable due to the cycle { T2, T3 }
- c. The following conflicts can be used to eliminate view equivalent serial schedules:
 - i. WW $2\rightarrow 3$ R₂(A), W₂(A), R₃(C), R₂(A), W₂(B), R₂(B), W₃(A), W₂(A), R₁(C), C₂, R₁(B), W₃(A), C₁, C₃
 - ii. WR $2\rightarrow 1$ R₂(A), W₂(A), R₃(C), R₂(A), W₂(B), R₂(B), W₃(A), W₂(A), R₁(C), C₂, R₁(B), W₃(A), C₁, C₃
 - iii. WW 2 \rightarrow 3 R₂(A), W₂(A), R₃(C), R₂(A), W₂(B), R₂(B), W₃(A), W₂(A), R₁(C), C₂, R₁(B), W₃(A), C₁, C₃

Remember that one must still check view serializability of any candidate view serialization.

View serializable with serial order(s):

- i. 2, 1, 3
- ii. 2, 3, 1
- d. Recoverable schedule
- e. Cascadeless schedule
- f. Not strict due to:
 - i. R₂(A), W₂(A), R₃(C), R₂(A), W₂(B), R₂(B), W₃(A), W₂(A), R₁(C), C₂, R₁(B), W₃(A), C₁, C₃
 - ii. R₂(A), W₂(A), R₃(C), R₂(A), W₂(B), R₂(B), W₃(A), W₂(A), R₁(C), C₂, R₁(B), W₃(A), C₁, C₃