CSE464 Practice problems:

1. Consider the following schedule S1. **Determine** whether there is any cascading rollback effect or not. If yes, which other transactions would need to be rolled back? How can you avoid cascading rollback? **Explain** your answer in light of Schedule S1.

Schedule S1

T₁	T₂	T₃	T₄
R(A)			
	W(A)		
W(B)			
		R(B)	
			R(A)
			R(C)
	abort		

2. Consider the following schedule S2. **Draw** the wait-for graph for S2. **Determine** whether there is any deadlock or not. How can you avoid deadlock? **Explain** your answer in light of Schedule S2. Assume that $TS(T_i) = i$.

Schedule S2

T₁	T₂	T₃	T₄
	R(A)		
		W(A)	
W(B)			
	R(B)		
		W(C)	
R(C)			
			R(A)
			R(B)