

COS418 Precept 8 - Consistency

11/16/18

Circle the degree of consistency satisfied by each of the following sequence of reads and writes. Curly braces indicate operations within a transaction.

<p>Q1</p> <p>P1: {W(x) 1, W(y) 2} {R(y) 4}</p> <p>P2: {W(x) 1, R(y) 4}</p> <p>P3: {W(x) 0, W(y) 4}</p> <p>P4: {R(x) 0} {R(x) 1}</p>	<p>Strictly Serializable</p> <p>Linearizability</p> <p>Sequential consistency</p> <p>Causal+ consistency</p> <p>Eventual consistency</p>
<p>Q2</p> <p>P1: W(x) 1 R(y) 4</p> <p>P2: R(x) 1 R(y) 4</p> <p>P3: R(x) 1 W(y) 4</p> <p>P4: R(x) 1 R(y) 4</p>	<p>Linearizability</p> <p>Sequential consistency</p> <p>Causal+ consistency</p> <p>Eventual consistency</p>
<p>Q3</p> <p>P1: W(x) 3 W(y) 7</p> <p>P2: W(x) 1</p> <p>P3: R(x) 1 R(x) 3 R(y) 7</p> <p>P4: R(x) 1 R(x) 3 R(y) 7</p> <p>P5: R(x) 1 R(x) 3 R(y) 7</p>	<p>Linearizability</p> <p>Sequential consistency</p> <p>Causal+ consistency</p> <p>Eventual consistency</p>

