

# 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><b>Q1</b></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><b>Q2</b></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><b>Q3</b></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>

