

Q2

1/1 point (ungraded)

Consider a relation $R(A)$ containing $\{(5), (6)\}$ and two transactions: T1: Update R set $A = A+1$; T2: Update R set $A = 2*A$. Suppose both transactions are submitted under the isolation and atomicity properties. Which of the following is NOT a possible final state of R?

☐ $\{(10, 12)\}$

☐ $\{(11, 13)\}$

☒ $\{(11, 12)\}$

☐ $\{(12, 14)\}$

Explanation

Answer 1 occurs if T1 does not complete. Answer 2 occurs if T2 precedes T1. Answer 4 occurs if T1 precedes T2. Answer 3 would require all of T2 and half of T1.