Q4

Consider table R(A) containing {(1),(2)}. Suppose transaction T1 is "update T set A=2*A; insert into R values (6)" and transaction T2 is "select avg(A) from R; select avg(A) from R". If transaction T2 executes using "repeatable read", what are the possible values returned by its SECOND statement?

- ◉ 1.5, 4

- ○ 1.5, 2, 4

- ○ 1.4, 3, 4

- ○ 1.5, 2, 3, 4

Explanation

T2 must (appear to) execute entirely before or after T1. You might think T2 could (appear to) execute between T1's two statements since the second statement is an insert, but that would be allowing dirty reads.