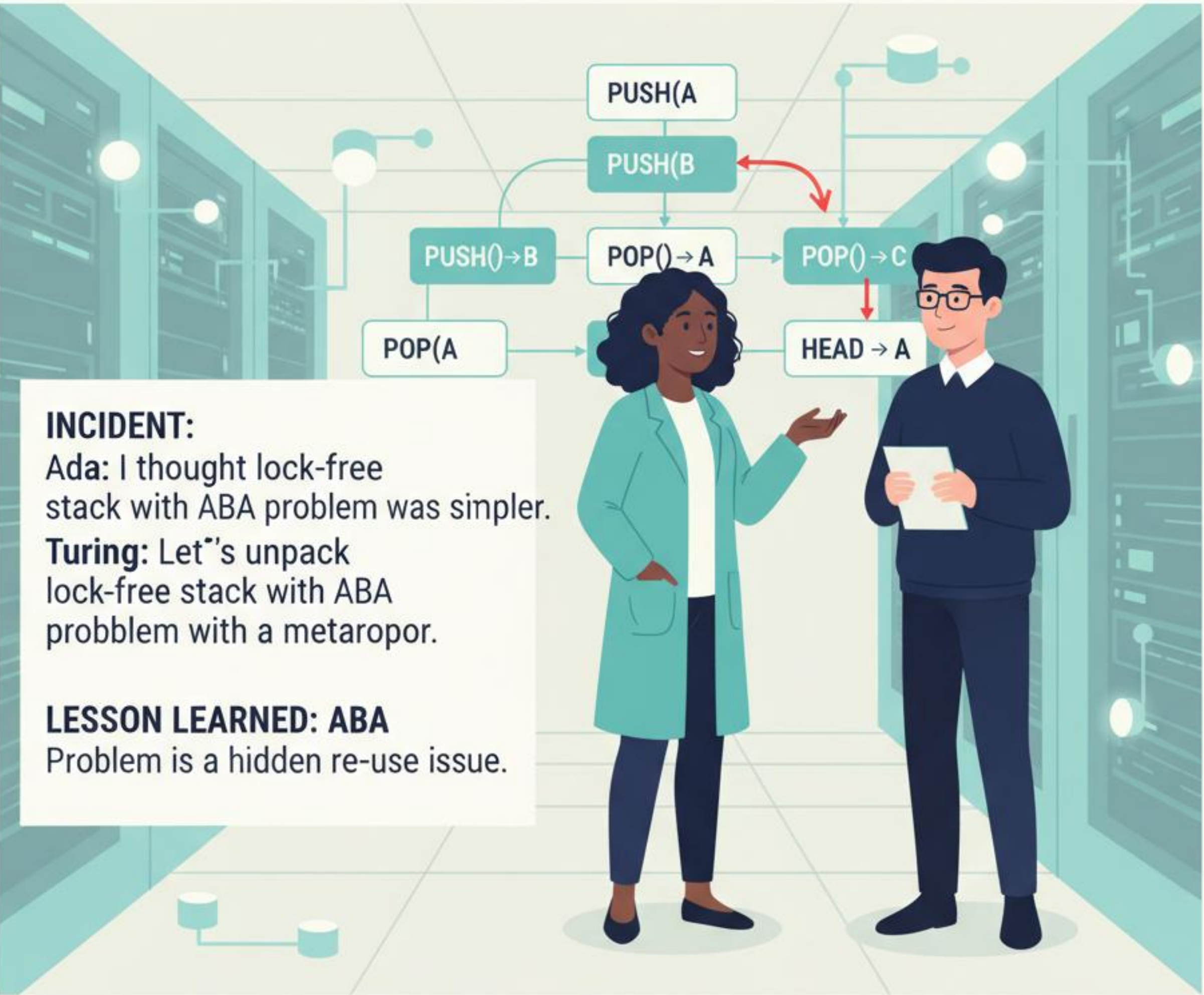
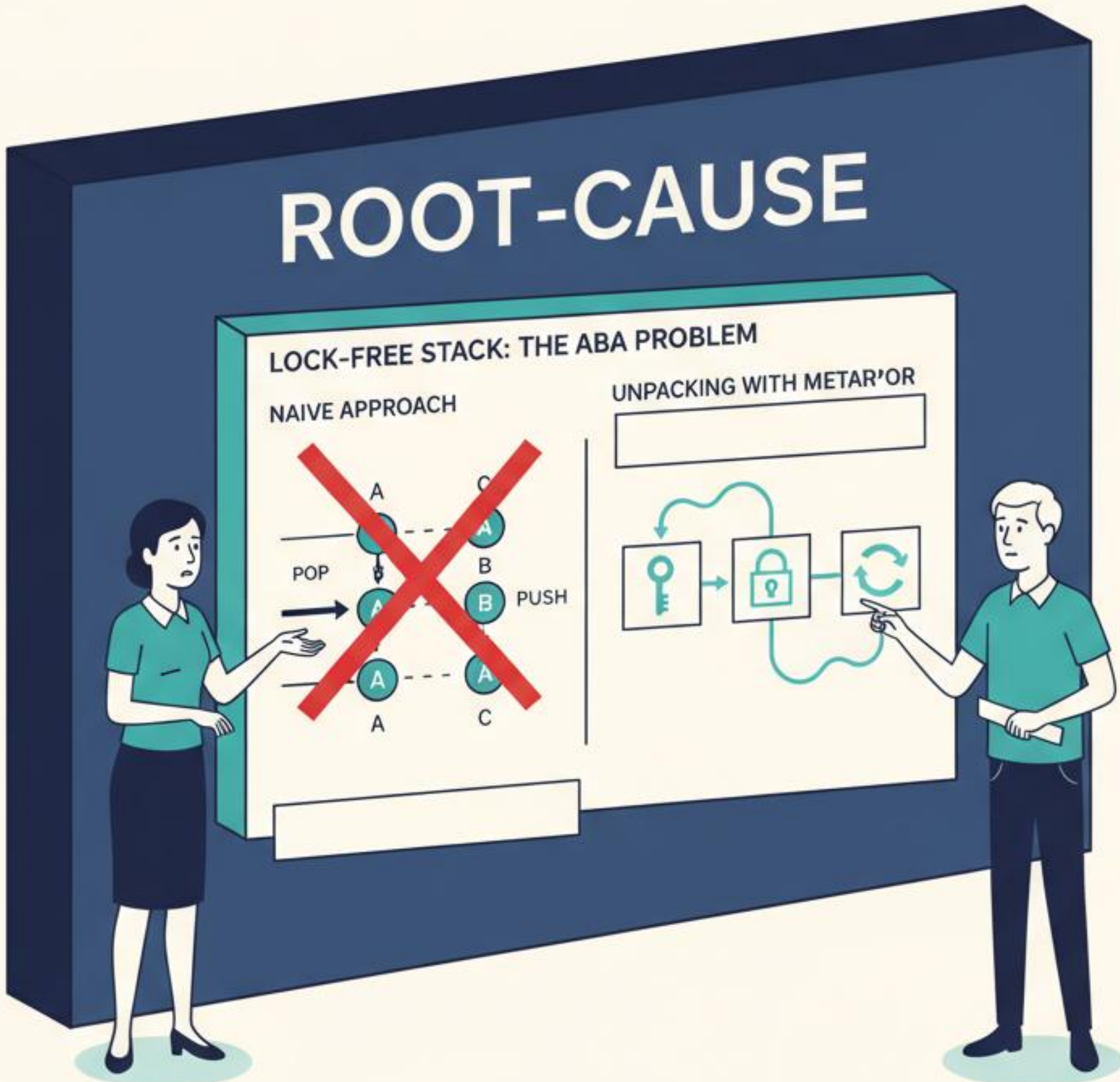


LOCK-FREE STACK WITH ABA PROBLEM:
A VISUAL POSTMORTEM



Panel 1: Teach: Explain lock-free stack with ABA problem

Ada: "I thought Explain lock-free stack with ABA problem was simpler." Turing: "Let's unpack Explain lock-free stack with ABA problem with a metapor."



Panel 2: Teach: Explain lock-free stack with ABA problem

Ada: "I thought Explain lock-free stack with ABA problem was simpler." Turing: "Let's unpack Explain lock-free stack with ABA problem with a metapor."

Lock-Free Stack with ABA Problem:

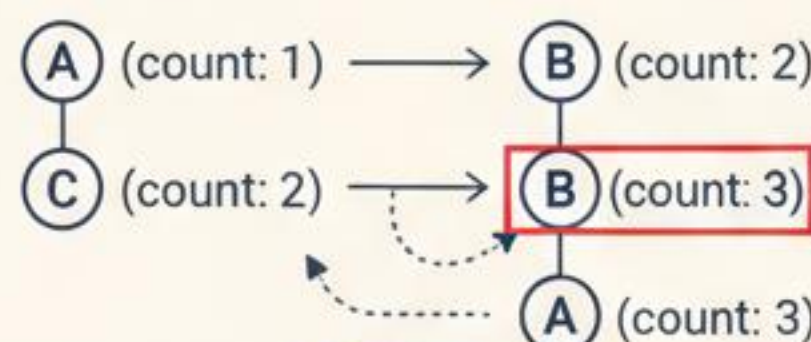
Root Cause



Remediation



FIX

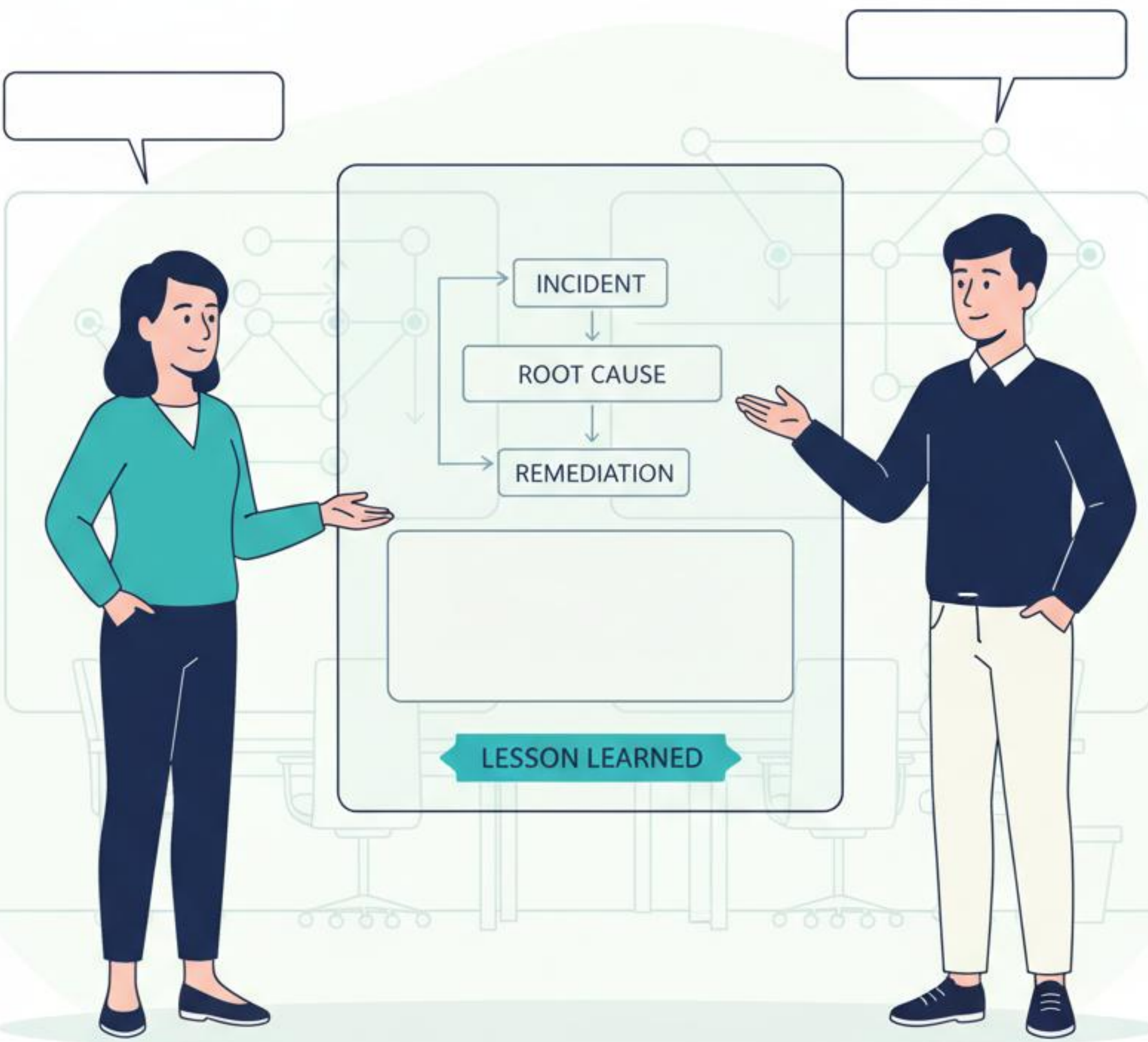


Atomic Compare-and-Swap with Version Count

LESSON WEARNED.

Panel 3: Teach: Explain lock-free stack with ABA problem Formal tradeoff terms: policy, value estimate, and exploration bonus. Bridge intuition to formalism: choose action maximizing value estimate plus uncertainty bonus.

Ada: "I thought Explain lock-free stack with ABA problem was simpler." Turing: "Let's unpack Explain lock-free stack with ABA problem with a metapor."



Panel 4: Teach: Explain lock-free stack with ABA problem

Ada: "I thought Explain lock-free stack with ABA problem was simpler." Turing: "Let's unpack Explain lock-free stack with ABA problem with a metapor."