2022 Challenge Puzzle

// Design a single bank/single car elevator system for a 100-floor commercial building. Each floor has a panel to call the elevator (withan up and down button), the first and top floors only have the optionto call the elevator to go in one direction (up or down). Inside theelevator, there is a panel that contains buttons for floors 1-100, door open, door close, and emergency stop.

// 1. What questions would you ask of the product team to clarify therequirements and constraints?

// 2. Outline your approach to handling elevator requests
and talk through the algorithm that will process elevator buttonpresses to move the elevator. Optimize for the best route.

// 3. How would you test the system? What test cases would you write?

// 4. Highlight any assumptions that you've made along the way
and list any future considerations and improvements to the system.