

I'd like to choose the programming project option, specifically a program to implement the Go-Back-N sliding window protocol. I plan to simulate the sender, receiver, and network channel using Python. I think I'm going to have the channel introduce packet loss and delay while the sender maintains the sliding window and a retransmission timer. I hope to visualize the flow of packets and ACKs in either a terminal style log or maybe a simple GUI. My goal is to highlight how Go-Back-N facilitates reliability in an unreliable network. I hope to get a better understanding of how this protocol works and it'll give me a chance to brush up on my Python skills.