

**(c)**

My solution to case c is creating an array to store any hosts that send at least one session requests to me. By using a variable to count the number of hosts, I can know when I should reallocate the array and the range that I need to modify and show options for users to choose. Due to the time, I did not finish this solution.

**(d)**

My approach to case d is using SIGALRM to check if the other side keeps silent for a specific time. The alarm will be set on both sides when a chat session is established. When one side keeps silent for 3 minutes, then the other side will automatically disconnect from the current session and wait for user input to establish another chat session. This approach can solve any irregular session termination and avoid all cases mentioned in testing in case d.