**Lab 3: Extending the chat application**

Extend the chat application you built during the 1st lab to support private messages among users. Take inputs from a standard stream (stdin). The first line of the input should contain handles of the users separated by spaces. The next lines can have either of the following two formats:

1. User1 User2: <message text> // User1 sends the <message text> to User2
2. User2 // Print the chat history of User2

**Input:**

Ed Edd Eddy  
Eddy Ed: Oh Lumpenstein!  
Eddy Ed: You'll never believe what I got!  
Edd Eddy: Hey! See?  
Eddy

**Output:**

Eddy’s sent messages:  
Ed: Oh Lumpenstein!  
Ed: You’ll never believe what I got!  
  
Eddy’s received messages:  
Edd: Hey! See?