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package io.scalecube.examples;

import io.scalecube.cluster.Cluster;
import io.scalecube.transport.Message;

/**
 * Basic example for member transport between cluster members to run the example
 * Start ClusterNodeA
 * and cluster ClusterNodeB A listen on transport messages B send message to member
 * A.
 *
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 */
public class MessagingExample {

    /** Main method. */
    public static void main(String[] args) throws Exception {
        // Start cluster node Alice to listen and respond for incoming greeting
        // messages
        Cluster alice = Cluster.joinAwait();
        alice
            .listen()
            .subscribe(
                msg -> {
                    System.out.println("Alice received: " + msg.data());
                    alice.send(msg.sender(), Message.fromData("Greetings from Alice"));
                });

        // Join cluster node Bob to cluster with Alice, listen and respond for incoming
        // greeting
        // messages
        Cluster bob = Cluster.joinAwait(alice.address());
        bob.listen()
            .subscribe(
                msg -> {
                    System.out.println("Bob received: " + msg.data());
                    bob.send(msg.sender(), Message.fromData("Greetings from Bob"));
                });

        // Join cluster node Carol to cluster with Alice and Bob
        Cluster carol = Cluster.joinAwait(alice.address(), bob.address());

        // Subscribe Carol to listen for incoming messages and print them to system out
        carol.listen().map(msg -> "Carol received: " +
            msg.data()).subscribe(System.out::println);

        // Send from Carol greeting message to all other cluster members (which is
        // Alice and Bob)
        Message greetingMsg = Message.fromData("Greetings from Carol");
        carol.otherMembers().forEach(member -> carol.send(member, greetingMsg));

        // Avoid exit main thread immediately ]:->
        Thread.sleep(1000);
    }
}

```