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package io.scalecube.examples;

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

/**
 * Basic example for member gossiping between cluster members. to run the example
 * Start ClusterNodeA
 * and cluster ClusterNodeB A listen on gossip B spread gossip
 *
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 */
public class GossipExample {

    /** Main method. */
    public static void main(String[] args) throws Exception {
        // Start cluster nodes and subscribe on listening gossips
        Cluster alice = Cluster.joinAwait();
        alice.listenGossips().subscribe(gossip -> System.out.println("Alice heard: " +
gossip.data()));

        Cluster bob = Cluster.joinAwait(alice.address());
        bob.listenGossips().subscribe(gossip -> System.out.println("Bob heard: " +
gossip.data()));

        Cluster carol = Cluster.joinAwait(alice.address());
        carol.listenGossips().subscribe(gossip -> System.out.println("Carol heard: " +
gossip.data()));

        Cluster dan = Cluster.joinAwait(alice.address());
        dan.listenGossips().subscribe(gossip -> System.out.println("Dan heard: " +
gossip.data()));

        // Start cluster node Eve that joins cluster and spreads gossip
        Cluster eve = Cluster.joinAwait(alice.address());
        eve.spreadGossip(Message.fromData("Gossip from Eve"))
            .doOnError(System.err::println)
            .subscribe();

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

```