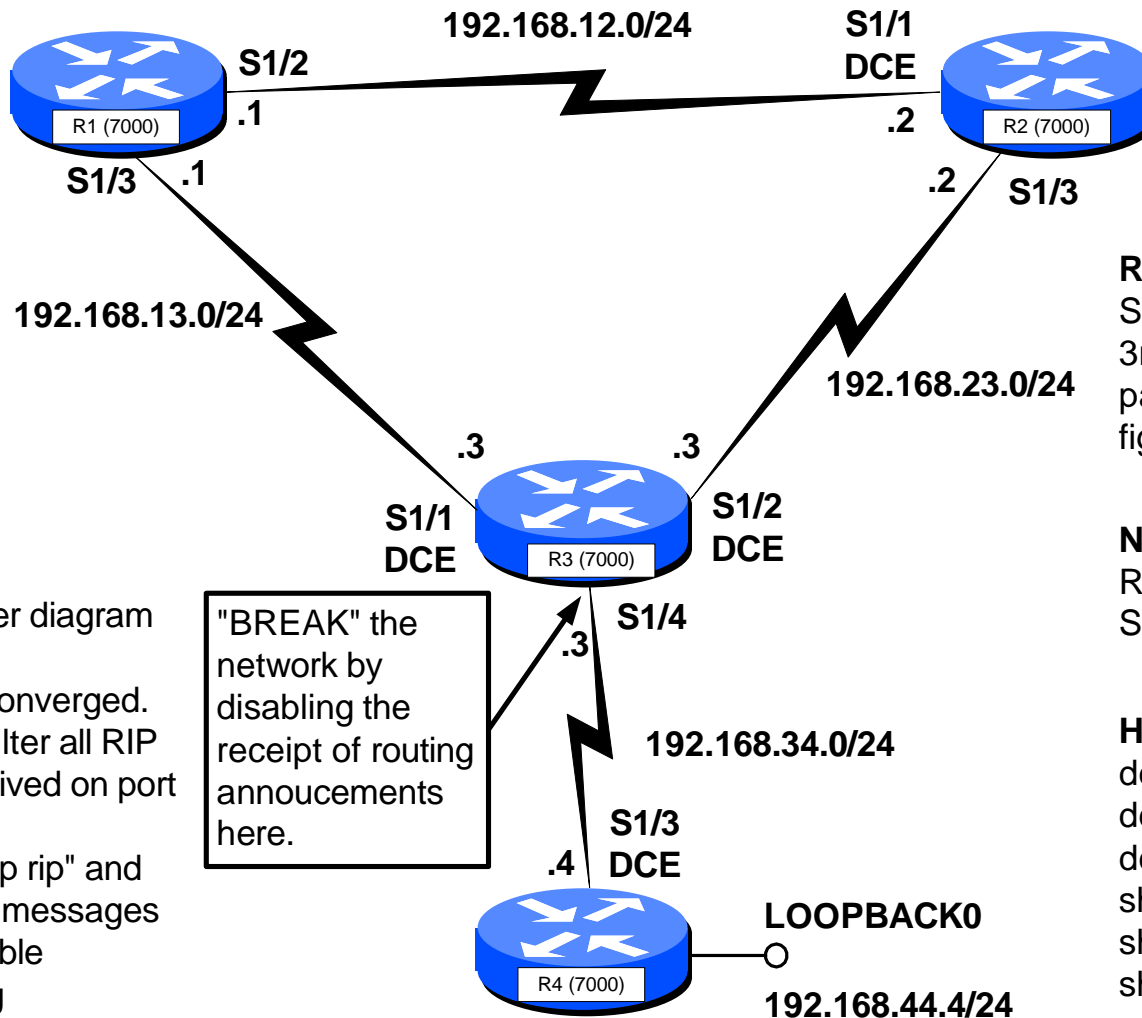


COUNT-TO-INFINITY LAB



TEST PROCEDURE:

1. Configure routers per diagram with RIP version 1.
2. Wait until RIP has converged.
3. Reconfigure R3 to filter all RIP announcements received on port S1/4 from R4.
4. Watch the "debug ip rip" and "debug ip rip event" messages to see the routing table changes and routing announcements. Continue to observe until the routing tables on R1, R2, and R3 have converged.

"BREAK" the network by disabling the receipt of routing announcements here.

REFERENCE:

See Computer Networks 3rd Ed, Tanenbaum pages 357-359 and figure 5-12

NOTES:

RIP Version 1 Protocol Split-Horizon is enabled.

Helpful Commands:

```
debug ip routing
debug ip rip
debug ip rip events
show ip protocols
show ip route
show cdp neighbor
```