

COMP9332 Network Routing and Switching
Self-assessed Tutorial for RIP

Q1. A router running RIP has a routing table with 25 entries. Answer the following questions:

- (a) How many periodic timers are running?
- (b) How many expiration timers are running?
- (c) How many garbage collection timers are running if 5 routes are invalid?

Q2. A router has the following RIP routing table (Q14 from Forouzan, page 433):

Net1	4	B
Net2	2	C
Net3	1	F
Net4	5	G

What would the contents of the table if the router receives the following RIP message from router C?

Net1	2
Net2	1
Net3	3
Net4	7

Q3. In the figure of Slide 46 (RIP lecture notes), what is the path taken to reach to a host connected to network 66 from router A?

Q4. What is the routing overhead in Slide 46, i.e., how much traffic (in terms of Kbps) is generated by RIP on the (sub) networks?

Q5. If a router never connects more than 2 (sub-) networks, what is the maximum number of (sub) networks a RIP-based autonomous system can have?