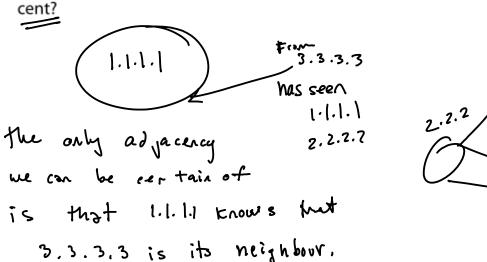
Lecture 22

Exercise 1: Which IGP would you use if your network included routers that only supported RIP? If you had a mixture of (modern) Cisco and Juniper Networks routers? If your company had a "Cisco only" policy?

Exercise 2: Does OSPF use UDP or TCP?

Exercise 3: A router with <u>IP address</u> 1.1.1.1 receives a Hello packet from 3.3.3.3 with the <u>IP addresses</u> 1.1.1.1 and 2.2.2.2 in the Neighbors field. What routers can you be certain are <u>adjacent?</u>



Exercise 4: Why would you not flood an LSA whose sequence number was the same as one already stored?

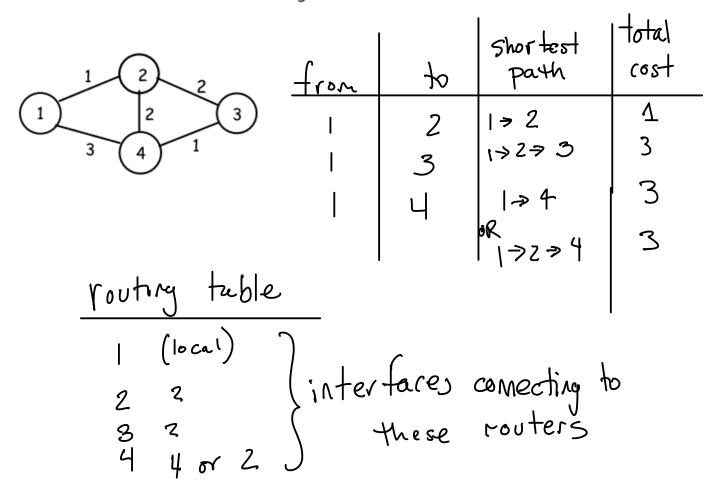
Exercise 5: The standard maximum LSA age is one hour. What range of values would you expect to find in the LS Age field of an LSA party.

possible: 0-3600

Exercise 6: Would you configure the fastest or the slowest routers with the highest priority?

fastest

Exercise 7: Find the routing table for host 1 for the network with the link costs shown in the diagram below.



Exercise 8: Why would a router have multiple IP addresses?

retworks so it needs one interface per retwork

Exercise 9: Which of these would go into the numerator and which into the denominator of a cost function?

delay - nomerator

toacket loss rate - nomerator

MTU - plenominator

maximum largest

transfer packet

size manufaction

who fragmontation

Exercise 10: How does the receiver authenticate the message? Why should the hash function be one-way?

msghp/w d/zes+

- receiver re-computes the hash value

Using the password

& compares it to the received one.

- if the hash function could be

reversed it be possible to

recover the password

generate spooted messages. (fake for