



<ul> <li>Distance Vector Routing</li> <li>Each link is assigned a weight representing its speed or capacity.</li> <li>The cost of a path is the sum of its links.</li> <li>Each router knows the cost of each adjacent link.</li> <li>Each router keeps a table of destinations and best known distances.</li> <li>Each router periodically sends the contents of this table to its neighbors.</li> </ul>	Link-State Routing Each router knows the whole graph. Messages give only the status of links: up or down. Any cost information must be known locally. Routers recompute their tables with the appropriate links added or removed.
CSc 423 · T W Bennet · Mizzizzippi College 9	CSc 423 · T W Bennet · Mississippi College 11
<ul> <li>Distance Vector Routing Update</li> <li>When router r hears that the best cost to destination v from its neighbor n is c, it:</li> <li>Computes the cost from r to v through n: c' = c<sub>r,n</sub> + c, where c<sub>r,n</sub> the cost to reach n.</li> <li>If v was not previously in the table, enter a route to it through n with cost c'.</li> <li>If the existing route to v goes through n, update its cost to c'.</li> <li>If the existing route to v does not go through n and has a cost higher than c', replace it with the route through n and cost c'.</li> </ul>	Sources Comer, Computer Networks and Internets (Our beloved textbook.)
CSc 423 · T W Bennet · Mississippi College 1	0 CSc 423 · T W Bennet · Mississippi College 12