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Network Layer – Routing

Kurose & Ross, Chapter 4 (6th ed.)

Many slides adapted from: J. Kurose & K. Ross \ Computer Networking: A Top Down Approach (5th ed.) Addison-Wesley, April 2009. Copyright 1996-2010, J.F Kurose and K.W. Ross, All Rights Reserved.

Exercise (Kurose & Ross, 6th ed.)



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The link cost between x and y increases to 60. Will there be count to infinity? • Yes, because of the spurious distance that z publishes to y: D_x(x)=6.

- y will think it can get to x in cost 3 + 6 and publish this to w (not to z because of poisoned reverse)
- reverse) will think it can get to x in cost 9 + 1 and publish this to z (not to y because of poisoned reverse) z will think it can get to x in cost 10 + 1 and publish this to y (not to y because of poisoned reverse)

- reverse) y will think it can get to x in cost 11 + 3 and will publish it to w (not to z because of poisoned reverse) And so on until the distance that is published to z is greater than 50 and z chooses to route to x directly through the edge (z,x)

