

Count-to-infinity

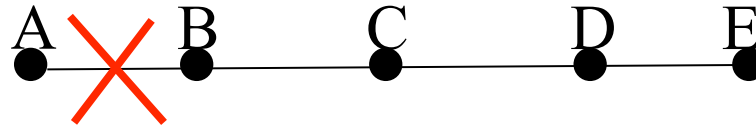
- ❖ DV impara rapidamente nuovi path migliori ma reagisce lentamente a problemi
 - un router a distanza K da un nuovo nodo N impara path a N in K scambi

A	B	C	D	E	
●-----●-----●-----●-----●					
	∞	∞	∞	∞	Initially
	1	∞	∞	∞	After 1 exchange
	1	2	∞	∞	After 2 exchanges
	1	2	3	∞	After 3 exchanges
	1	2	3	4	After 4 exchanges

(a)

A	B	C	D	E	
●-----●-----●-----●-----●					
	1	2	3	4	Initially
	3	2	3	4	After 1 exchange
	3	4	3	4	After 2 exchanges
	5	4	5	4	After 3 exchanges
	5	6	5	6	After 4 exchanges
	7	6	7	6	After 5 exchanges
	7	8	7	8	After 6 exchanges
		⋮			
	∞	∞	∞	∞	

Split Horizon



t_0) C:

A	B	C	D	E
B	B	C	D	D
2	1	0	1	2

C->B

A	B	C	D	E
∞	1	0	1	2

C->D

A	B	C	D	E
2	1	0	1	∞

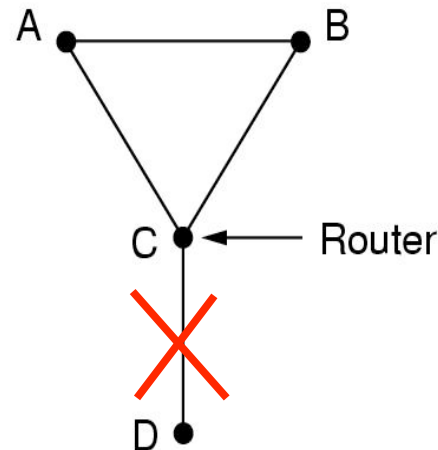
D->C

A	B	C	D	E
∞	∞	1	0	1

al passo successivo C ha dist. ∞
da A, ecc...



quando AB cade, B sa di avere dist.
 ∞ da A e propaga



ma può
fallire...