USN: 1BM18CS072
Name: Pranav Arora

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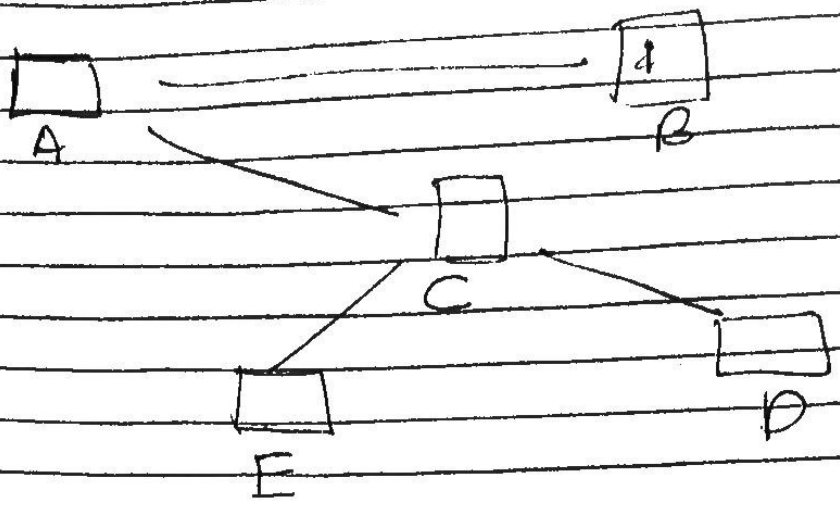
Distance Vector Algorithm

Topology



Algorithm

let $C(x,v)$ → cost of moving from x to neighbour v.

let D_x → distance vector, containing cost to all destinations from x.

let $d_x(y)$ → ~~least cost path from node x~~ to node y

At each node x:

Do Initialization.

For all destinations y in N:

$D_x(y) = C(x,y)$

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For each neighbour w

$D_w(y) = ?$

For all destination y in N.

~~For each neighbour to~~

Send distance vector $D_x = [D_x(y) : y \text{ in } N]$ to us

loop

wait(until I receive any distance vector
from some neighbour w)

~~for each y in N:~~

$D_x(y) = \min_v \{ c(x,v) + D_v(y) \}$

If $D_x(y)$ is changed for any destination y

Send distance vector $D_x = [D_x(y) : y \text{ in } N]$ to
all neighbours

forever.