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Computer Networks Lab Assignment-9

1. Implement the Distance Vector Routing (DVR) algorithm using C or C++.

Test Case 1:

Input: Enter the number of nodes or routers in the network: 3

Enter the weight or cost matrix:

0 1 5

1 0 2

5 2 0

Output: Final routing table of router A:

Destination	Distance	Next_hop
Α	0	Α
В	1	В
С	3	В

Final routing table of router B:

Destination	Distance	Next_hop
Α	1	Α
В	0	В
С	2	С

Final routing table of router C:

Destination	Distance	Next_hop
Α	3	В
В	2	В
С	0	С

Test Case 2:

Input: Enter the number of nodes or routers in the network: 4

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Enter the weight or cost matrix:

Output: Final routing table of router A:

Destination	Distance	Next_hop
Α	0	Α
В	2	В
С	5	В
D	1	D

Final routing table of router B:

Destination	Distance	Next_hop
Α	2	Α
В	0	В
С	3	С
D	3	Α

Final routing table of router C:

Destination	Distance	Next_hop
Α	5	В
В	3	В
С	0	С
D	6	В

Final routing table of router D:

Destination	Distance	Next_hop
Α	1	Α
В	3	Α
С	6	Α
D	0	D