## CN Lab Writeup (Distance vector routing)

class Graph: def \_init\_ (self, n): self. matrix = [] Self. N = N addedge (selt, u, u, w): self. matrix. append((u, v, w)) def print dist (self, dist, src): print (" Vector table of 23". format (chr (ord (A')+i) dist [i])) for i in range (self.u): print (" {03/+{13". tormat (chr (ord (A')+i)) dist [i]). def distance vector (self, src): dist = [aa] \* self. w dist [src] = 0 for \_ in range (self. N-1): for u,v, w in self-matrix: if dist[u] != 99 and dist[u] + w < dist[v]: dist[v] = dist [u] + w self. print dist (dist, sxc) def main():

matrix = []

print ("Enter the number of vertices:")

n = int (input())

print ("Enter the adjacency matrix: ").

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for i with in range (n):

nn = list (map (int, input() split ("")))

matrix. append (m);

g. Graph (n)

for i in range (n):

if matrix [i][j] == 1

g. add edge (j,j,1)

for a _ in range (n):

g. adistance vector (_)

Main()
```