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CN lab

Distance Vector Routing

```
class router:
    def __init__(self,n):
        self.V = vertices
        self.graph = []

    def add_edge(self,s,d,w):
        self.graph.append([s,d,w])

    def bellman_ford(self, src):
        dist = [float('inf')] * self.V
        dist[src] = 0
        for i in range(self.V-1)
            if dist[d] >w + dist[s]:
                dist[d] = dist[s] + w
        for s,d,w in self.graph:
            if dist[d] > w+dist[s]
        self.print_table(dist)

    def print_table(self, dist):
        print("Vertex \t cost")
        for i in range(self.V):
            print(str(i)+"\t" + dist[
                str(dist[i]))
```