CN

Distance vector algorithm

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

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

    def print_solution(self, dist, src, next_hop):
        print("Routing table for ", src)
        print("Dest \t cost \t Next Hop")
        for i in range(self.V):
            print("{0} \t {1} \t {2}".
            format(i, dist[i], next_hop[i]))

def bellman_ford(self, src):
    dist = [99] * self.V
    dist[src] = 0
    next_hop = [src: src]
```