Distance vector algo.

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```
class graph():
    def __init__(self, vert):
        self.numVert = vert
        self.graph = []
    def addEdge(self, fr, to, weight):
        self.graph.append([fr, to, weight])
    def printDist(self, r, arr):
        print("Distance from" + str(r))
        for i in range(self.numVert):
            print(str(i) + "\t".*2 + str(arr[i]))

    def fun(self, source):
        cost = [float('inf')] * self.numVert
        cost[source] = 0
        for _ in range(self.vert - 1).
            for fr, to, weight in self.graph:
                if cost[fr]! = float('inf') and cost[fr] +
                   weight < cost[to]:
```

```
cost[to] = cost[fr] + weight

self.printDist(source, cost)
```