Steps for finding the shortest distance to all vertices from the source using Bellman-Fold algorithm.

- D. This step initialises distances from the source to all vertices as infinite and distance to the source itself as O. Credite an array dist[] of size |v| with all values as infinite except dist[src] where src is source vertex.
- 2) This step calculates shortest distances.

 DO the following for |V|-1 times where

 |V| is the number of vertices in given graph.

 Do this for each edge (u-V).

* If dist(v) > dist(u) + weight of edge(u,v)

then update dist(v) to

dist(v) = dist(u) + weight of edge(u,v)

3) This Step Reports if there is a negative weight cycle in the graph.

If we iterate through all edges one more time i.e after (IVI-I) êterations and get a shortest path for any vertex, then it indicates there is a negative cycle.

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