BELLMAN FORD

```
Algorithm BellmanFord(v, cost, dist, n)
{
      for i := 1 to n do
            dist[i] := cost[v, i];
      for k := 2 to n-1 do
      {
            for each u such that u != v and u
            has at least one incoming edge do
            {
                  for each (i, u) in the graph do
                  {
                        if(dist[u] > (dist[i] + cost[i, u])) then
                              dist[u] := dist[i] + cost[i, u];
                  }
            }
      }
}
```