Algorithm ***BellmanFord***(***G, s***)

```
1.  for all v ∈ G.vertList()    ### initialize the distance of all the vertex from source s
2.      if v = s
3.          setDistance(v, 0)
4.      else
5.          setDistance(v, ∞)
6.  for i  in range(len(G.vertList())
7.      for each edge e=(u, v) ∈ G.edges()
                                ### G.edges() is a collection of all the edges in the graph
                                ### the edge e here has a direction from u to v
8.          r ← getDistance(u) + weight(e)   ### relax edge e
9.          if  r < getDistance(v)
10.             setDistance(v, r)      ### update the distance from u to v
```