```
BELLMAN-FORD(G, w, s)
  INITIALIZE-SINGLE-SOURCE (G, s)
  for i = 1 to |G, V| - 1
2
       for each edge (u, v) \in G.E
3
           Relax(u, v, w)
5
  for each edge (u, v) \in G.E
       if v.d > u.d + w(u,v)
6
           return FALSE
```