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BellmanFord()
    for each  $v \in V$ 
         $d[v] = \infty$ ;
     $d[s] = 0$ ;
    for  $i=1$  to  $|V|-1$ 
        for each edge  $(u,v) \in E$ 
            Relax( $u,v, w(u,v)$ );
    for each edge  $(u,v) \in E$ 
        if ( $d[v] > d[u] + w(u,v)$ )
            return "no solution";

```

Relax(u,v,w): if ($d[v] > d[u]+w$) then $d[v]=d[u]+w$