DIJKSTRA

```
Algorithm Dijkstra(G, s)
{
     dist[s] := 0;
     for each vertex v in G do
           if(v != s) then
                dist[v] := infinity;
           Add v to queue
     while queue is not empty
           u := vertex in queue with minimum dist;
           Delete u from queue;
           for each unvisited neighbour v of u do
                if((dist[u] + cost[u, v]) < dist[v]) then
                      dist[v] := dist[u] + cost[u, v];
           }
     return(dist);
}
```