Dijkstra

```
DIJKSTRA(G,s):
│
│  for each node v in G except s
│  │  d(v) = ∞
│  │  pred(v) = null
│  d(s) = 0
│
│  let Q be a priority queue containing the nodes of G
│     prioritized by d-value
│  let C be an empty set
│
│  while Q is not empty
│  │  u = removeMin(Q)
│  │  C = C ∪ {u}
│  │  foreach neighbor v of u
│  │  │  // Relax (u,v)
│  │  │  if d(v) > d(u) + w(u,v)
│  │  │  │  d(v) = d(u) + w(u,v)
│  │  │  │  pred(v) = u
│
│  return pred
```