

```

ShortestPathThroughDAG(G,startNode)
  for I in 0 .. |V|-1 do
    d[I] := POSITIVE_INFINITY    # costs
    p[I] := NULL                 # predecessors
  od
  d[startNode] := 0

  topSortedNodes := topSort(G)

  foreach node n in topSortedNodes do
    foreach node i that n is adjacent to do
      if  $w(\langle i,n \rangle) + d[i] < d[n]$ 
        d[n] :=  $w(\langle i,n \rangle) + d[i]$ 
        p[n] := i
      fi
    od
  od
  return d, p
end

Backtrack(p,endNode)
  node := endNode
  path := empty path
  while node != null do
    append node to start of path
    node := p[node]
  od
  return path
end

```