

Floyd-Warshall Algorithm

FLOYD-WARSHALL(W, n)

$D^{(0)} = W$

for $k = 1$ **to** n

 let $D^{(k)} = (d_{ij}^{(k)})$ be a new $n \times n$ matrix

for $i = 1$ **to** n

for $j = 1$ **to** n

$d_{ij}^{(k)} = \min(d_{ij}^{(k-1)}, d_{ik}^{(k-1)} + d_{kj}^{(k-1)})$

return $D^{(n)}$