

FLOYD-WARSHALL(W, n)

1 $D^{(0)} = W$

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

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

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

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

6 $d_{ij}^{(k)} = \min \{ d_{ij}^{(k-1)}, d_{ik}^{(k-1)} + d_{kj}^{(k-1)} \}$

7 **return** $D^{(n)}$