

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**  $D^{(n)}$