

FASTER-APSP( $W, n$ )

$L^{(1)} = W$

$m = 1$

**while**  $m < n - 1$

    let  $L^{(2m)}$  be a new  $n \times n$  matrix

$L^{(2m)} = \text{EXTEND}(L^{(m)}, L^{(m)}, n)$

$m = 2m$

**return**  $L^{(m)}$