```
FASTER-APSP(W, n)
1 let L and M be new n \times n matrices
2 \quad L = W
3 r = 1
4 while r < n - 1
5
      M = \infty // initialize M
EXTEND-SHORTEST-PATHS (L, L, M, n) // compute M = L^2
r = 2r
     L = M // ready for the next iteration
  return L
```