

EXTEND-SHORTEST-PATHS ($L^{(r-1)}, W, L^{(r)}, n$)

```
1  // Assume that the elements of  $L^{(r)}$  are initialized to  $\infty$ .  
2  for  $i = 1$  to  $n$   
3      for  $j = 1$  to  $n$   
4          for  $k = 1$  to  $n$   
5               $l_{ij}^{(r)} = \min \{ l_{ij}^{(r)}, l_{ik}^{(r-1)} + w_{kj} \}$ 
```