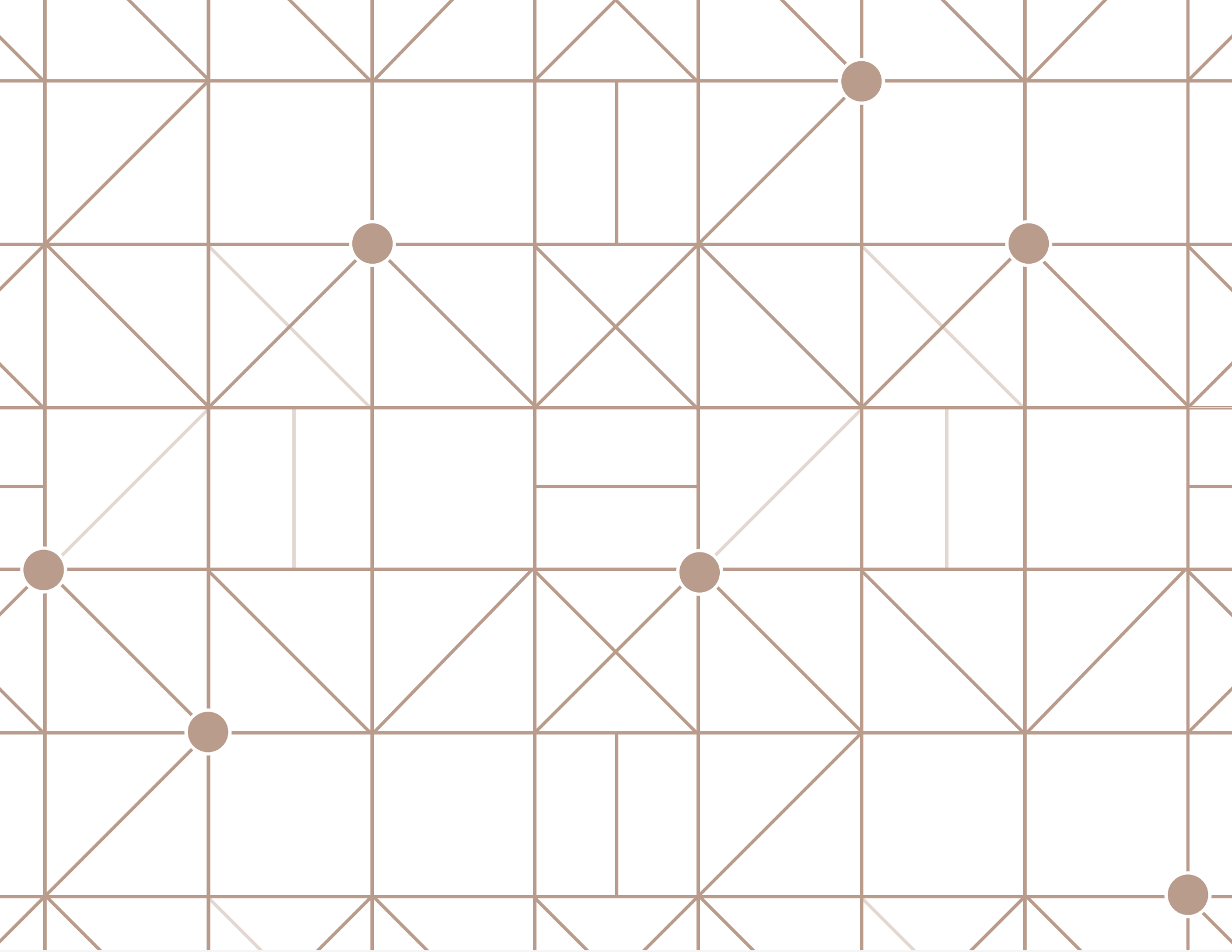
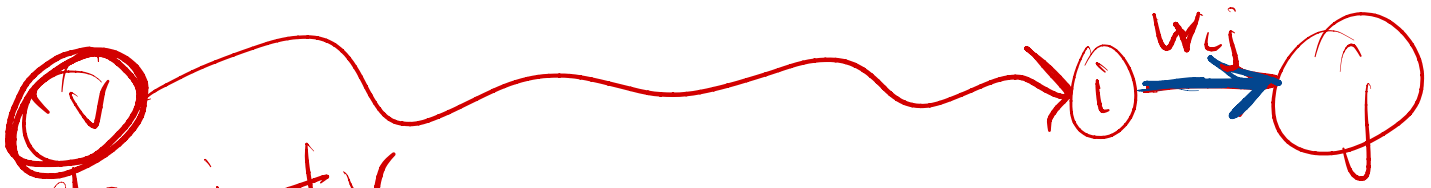


$L_{ij} = SP(v,j)$

25.1-6

Fix vertex v we want for each vertex j



SP $v \rightsquigarrow j$
pred. = i
(w.r.t. v)

For each $j \neq v$

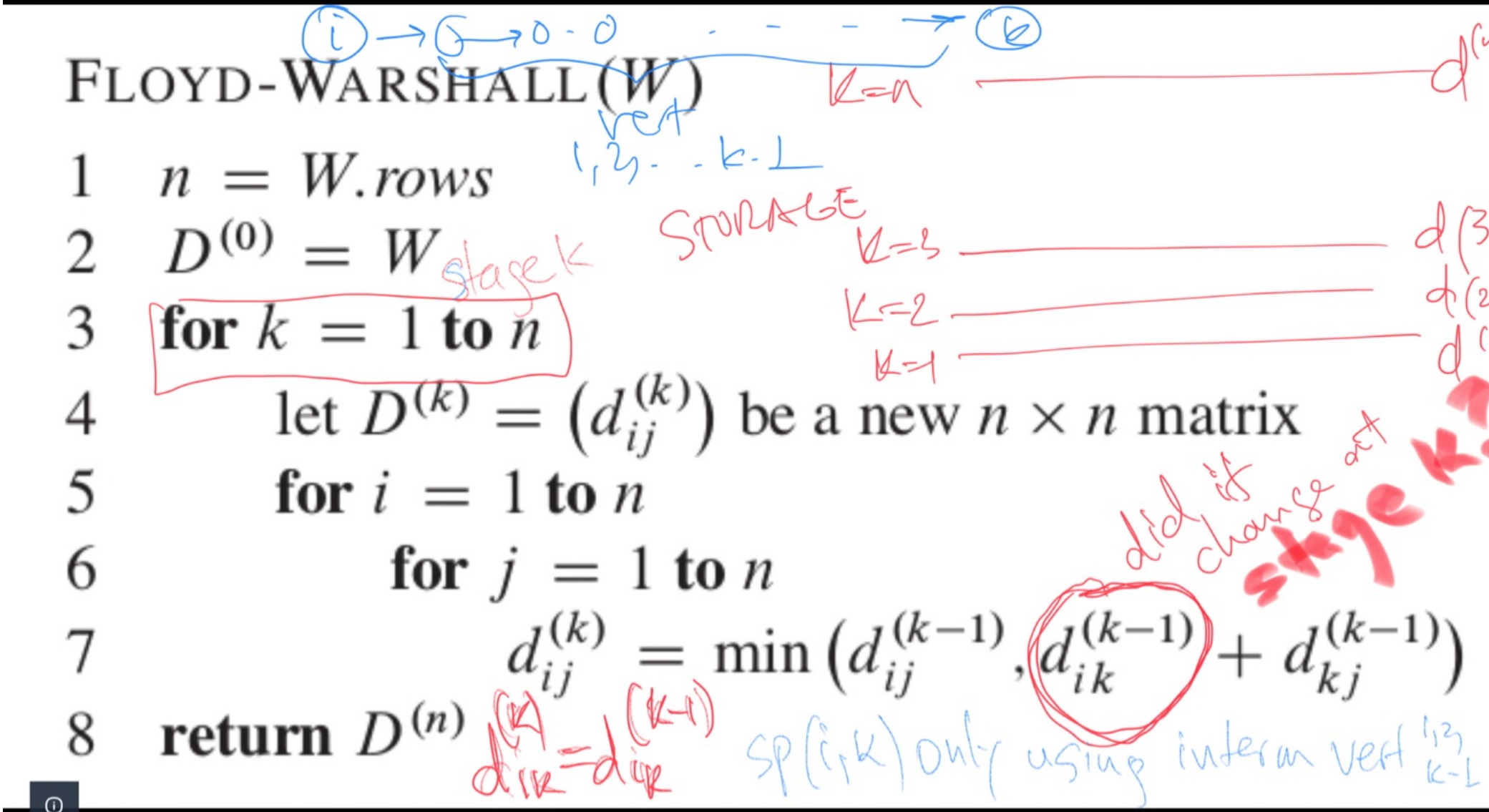
Look for i such that

$$SP(v,i) + w_{ij} = SP(v,j)$$

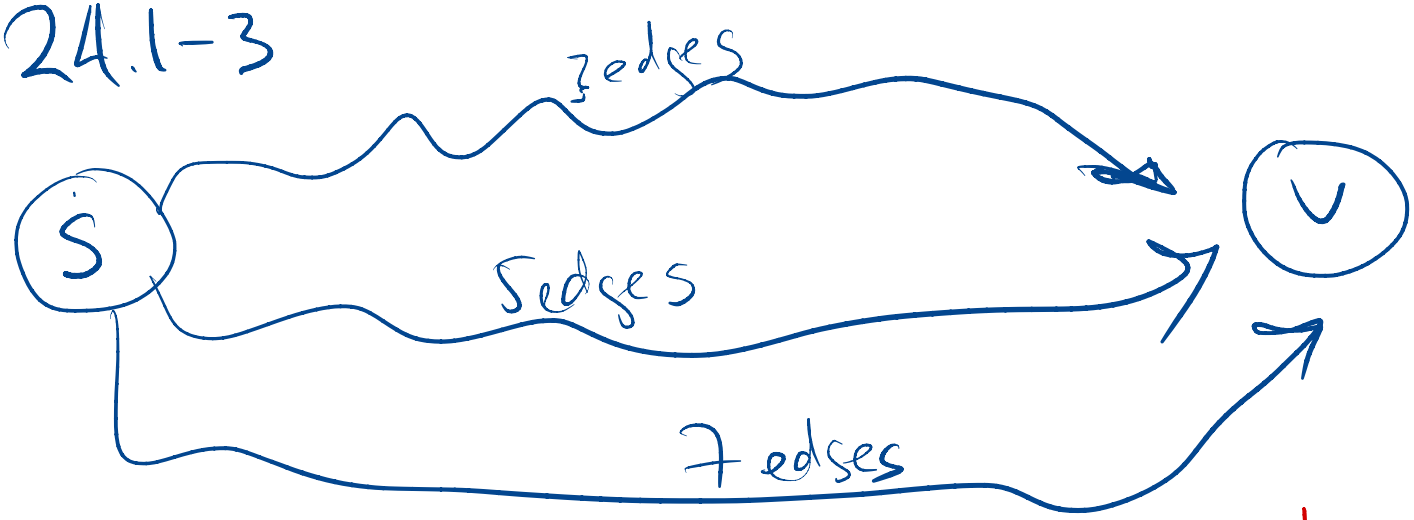
$$L_{vi} + w_{ij} = L_{vj}$$

L_{vi}: computed

L_{vj}: computed as SP matrix



24.1-3



SP(s,v) all shortest paths

m_v = min # of edges on all SP(s,v) = 3

min edge-SP

$m = \max_{v} \{m_v\}$ = # of edges large enough to cover min edges — SP to every v.
(graph)