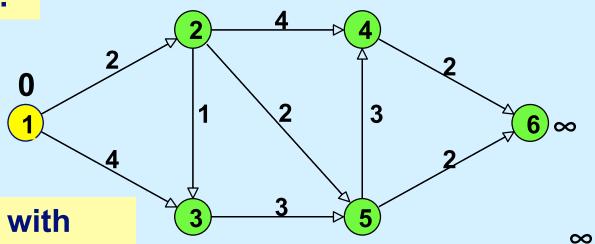
Dial's Algorithm

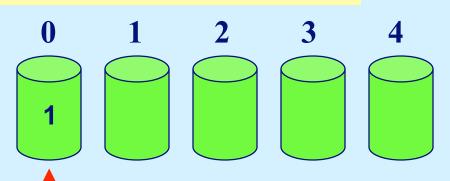
 ∞

Initialize distance labels.

Initialize buckets.



Select the node with the minimum temporary distance label.

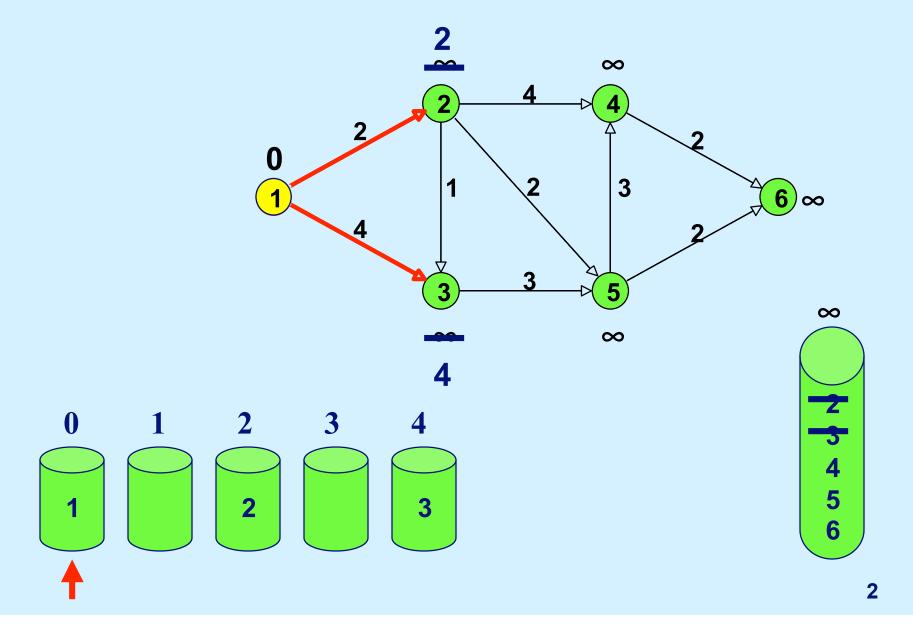


$$\delta_{\text{max}} = 4$$

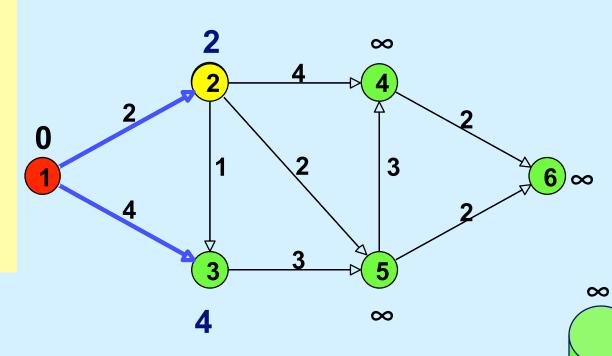
 ∞

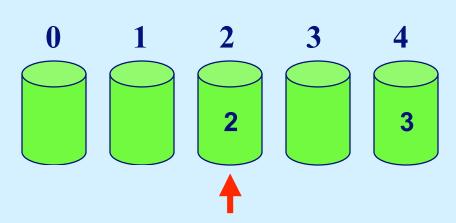


Update Step

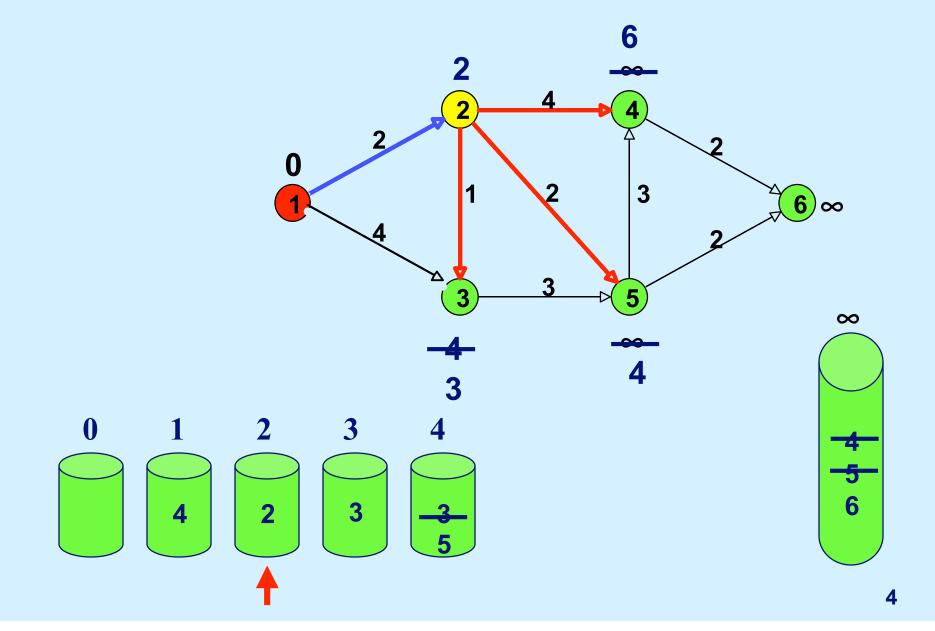


Find Min by starting at the leftmost bucket and scanning right until there is a non-empty bucket.

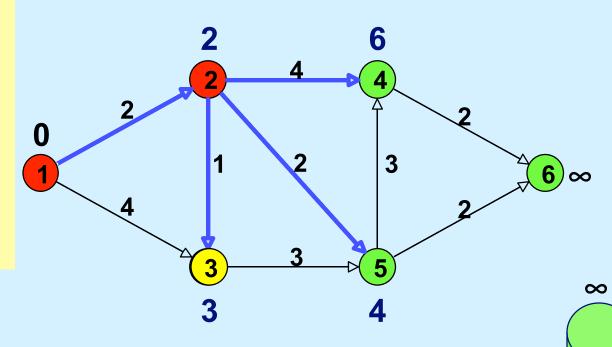


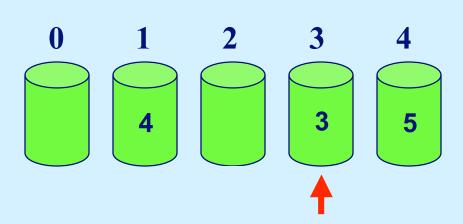


Update Step

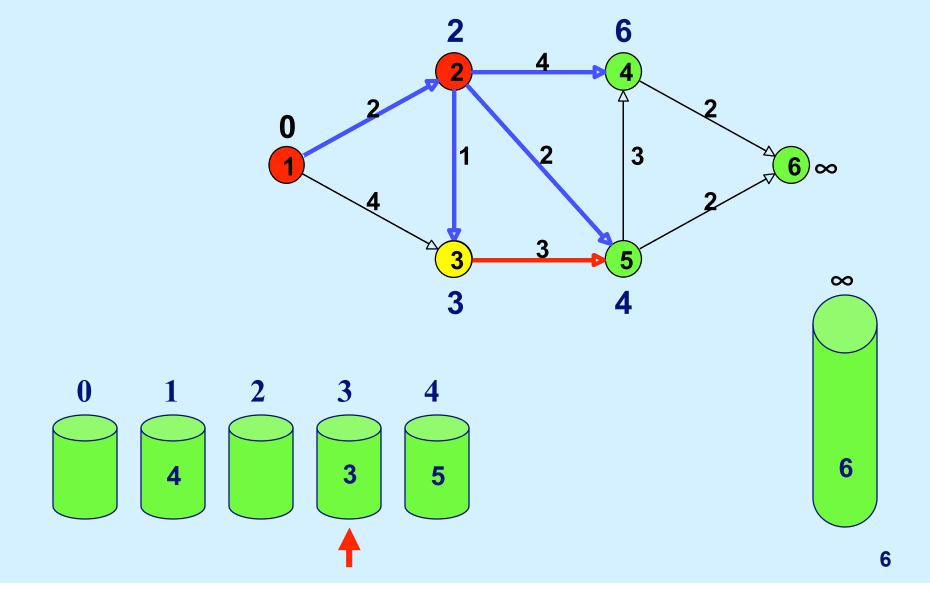


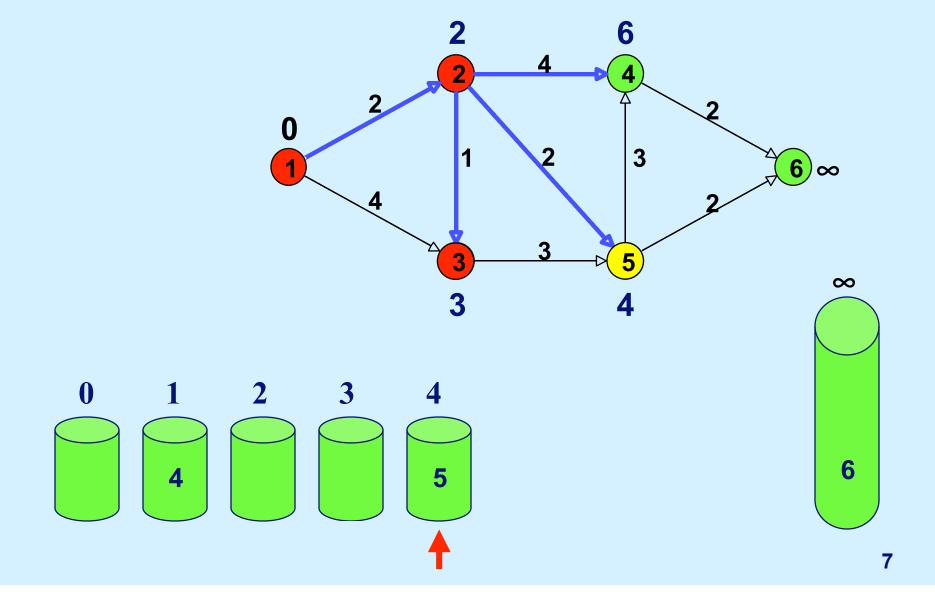
Find Min by starting at the leftmost bucket and scanning right till there is a non-empty bucket.



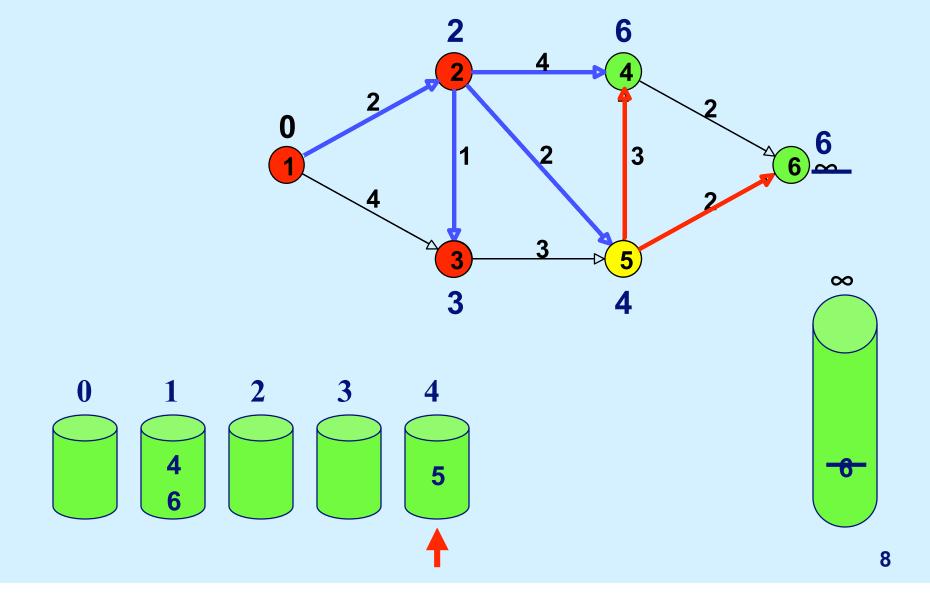


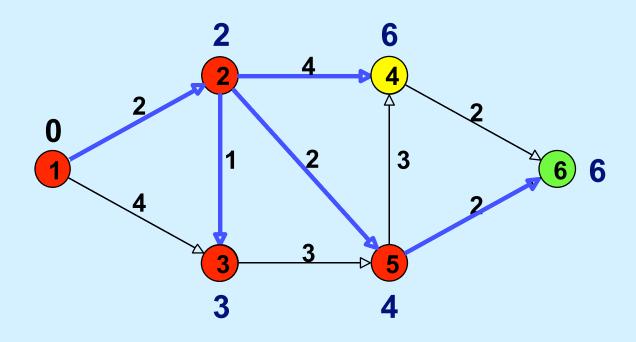
Update

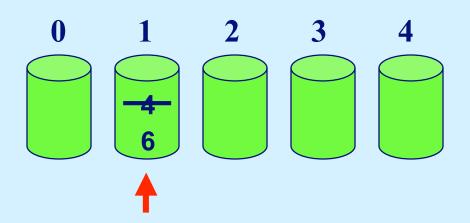




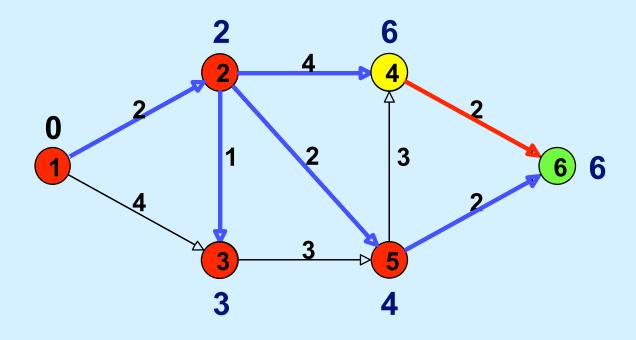
Update

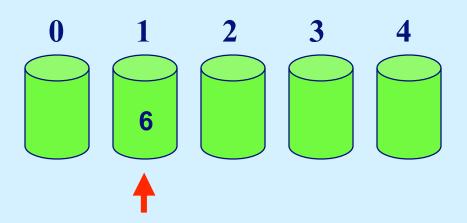




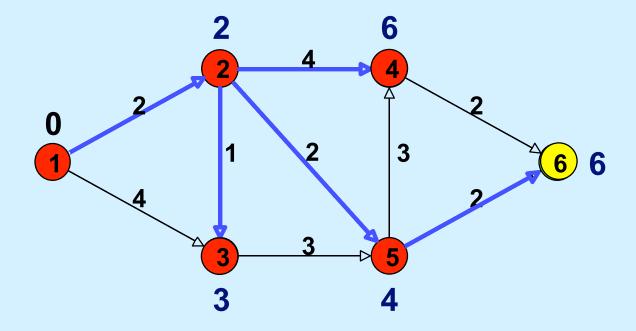


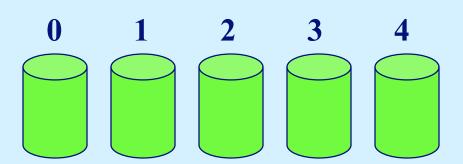
Update



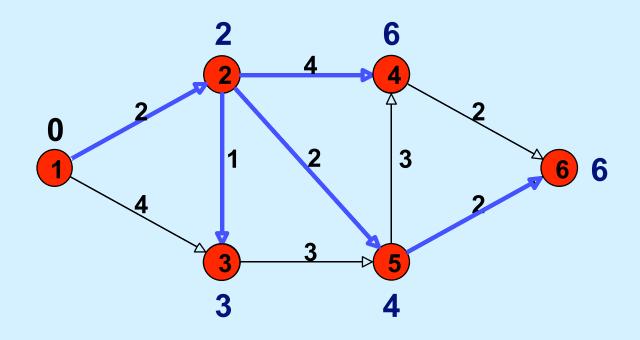


There is nothing to update





End of Algorithm



All nodes are now permanent.

The predecessors form a tree.

The shortest path from node 1 to node 6 can be found by tracing back predecessors.