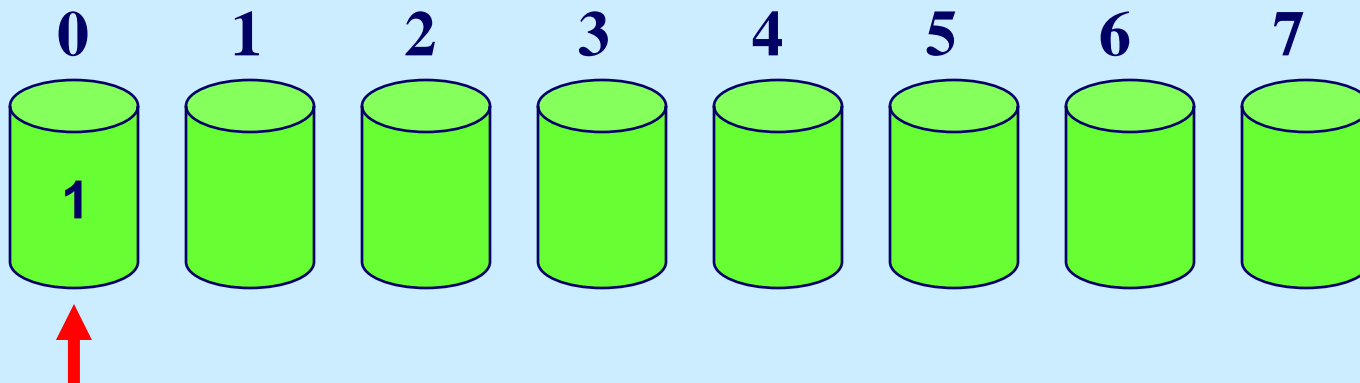
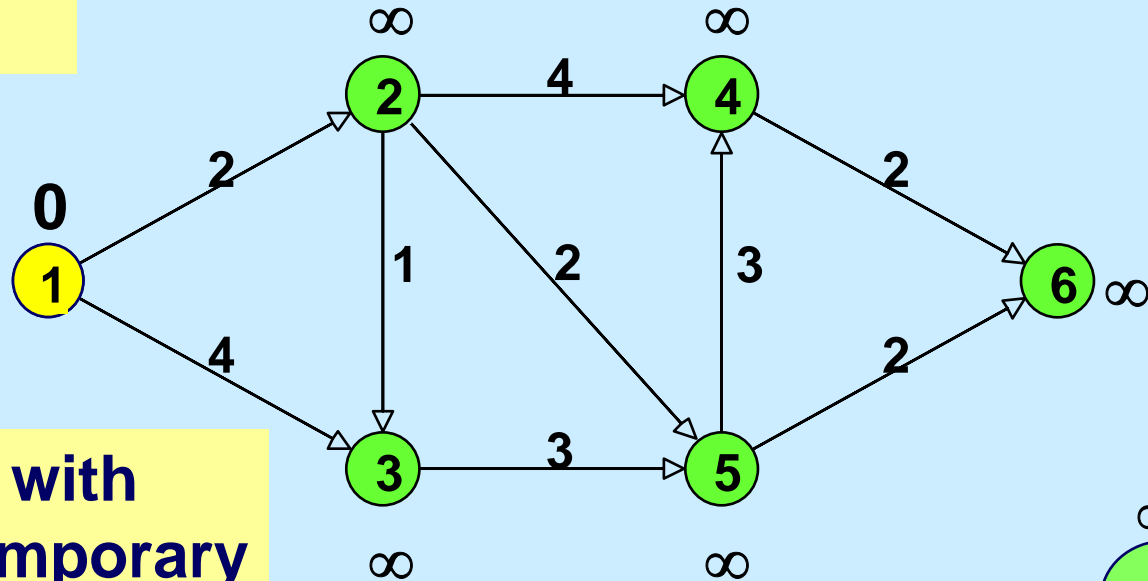


# An Example

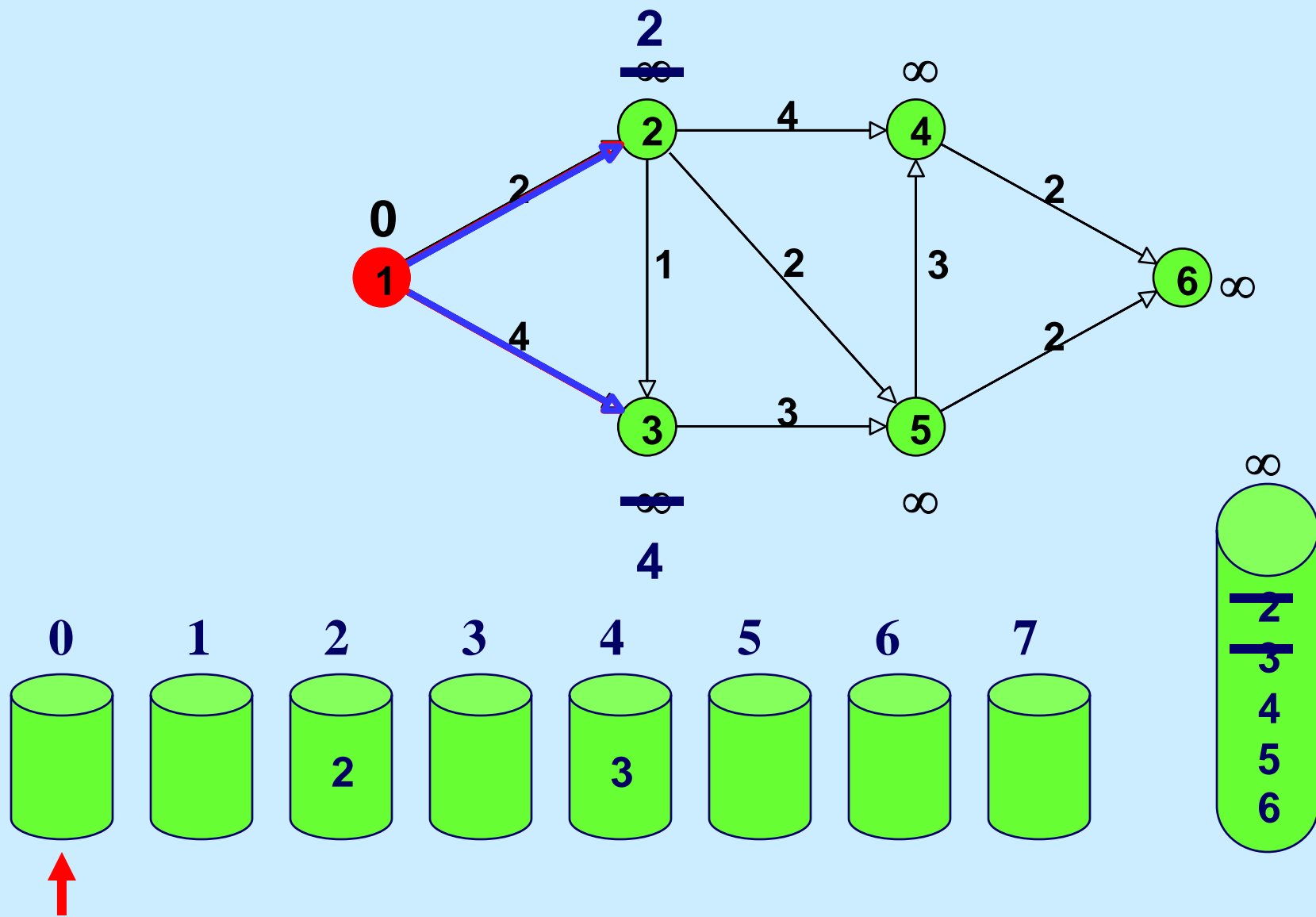
Initialize distance labels

Initialize buckets.

Select the node with the minimum temporary distance label.

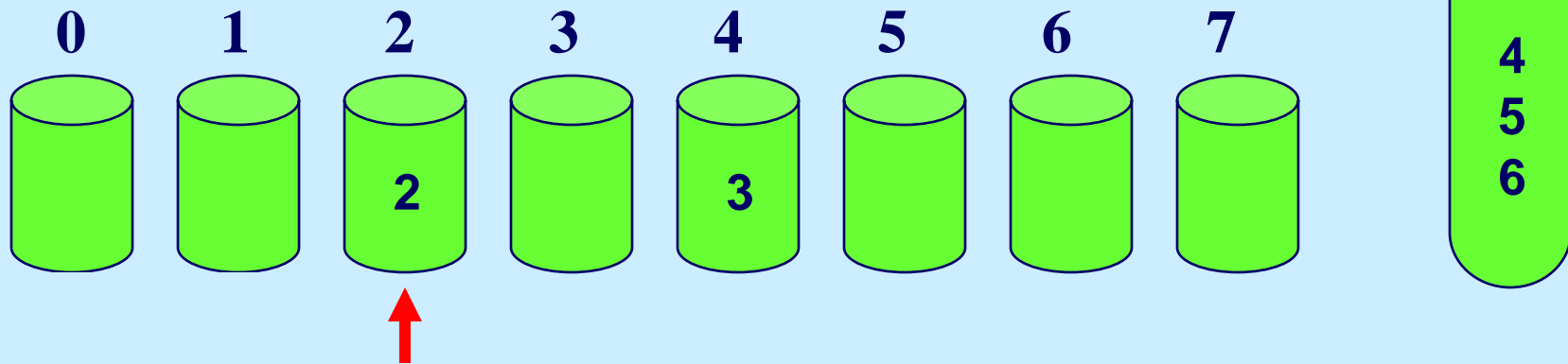
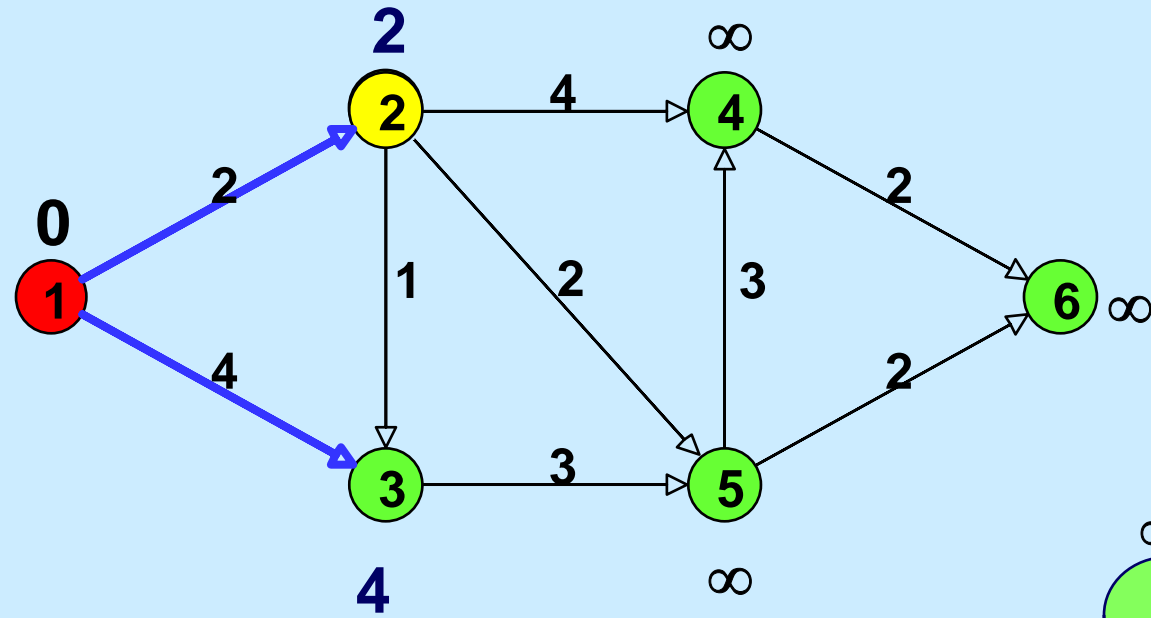


# Update Step

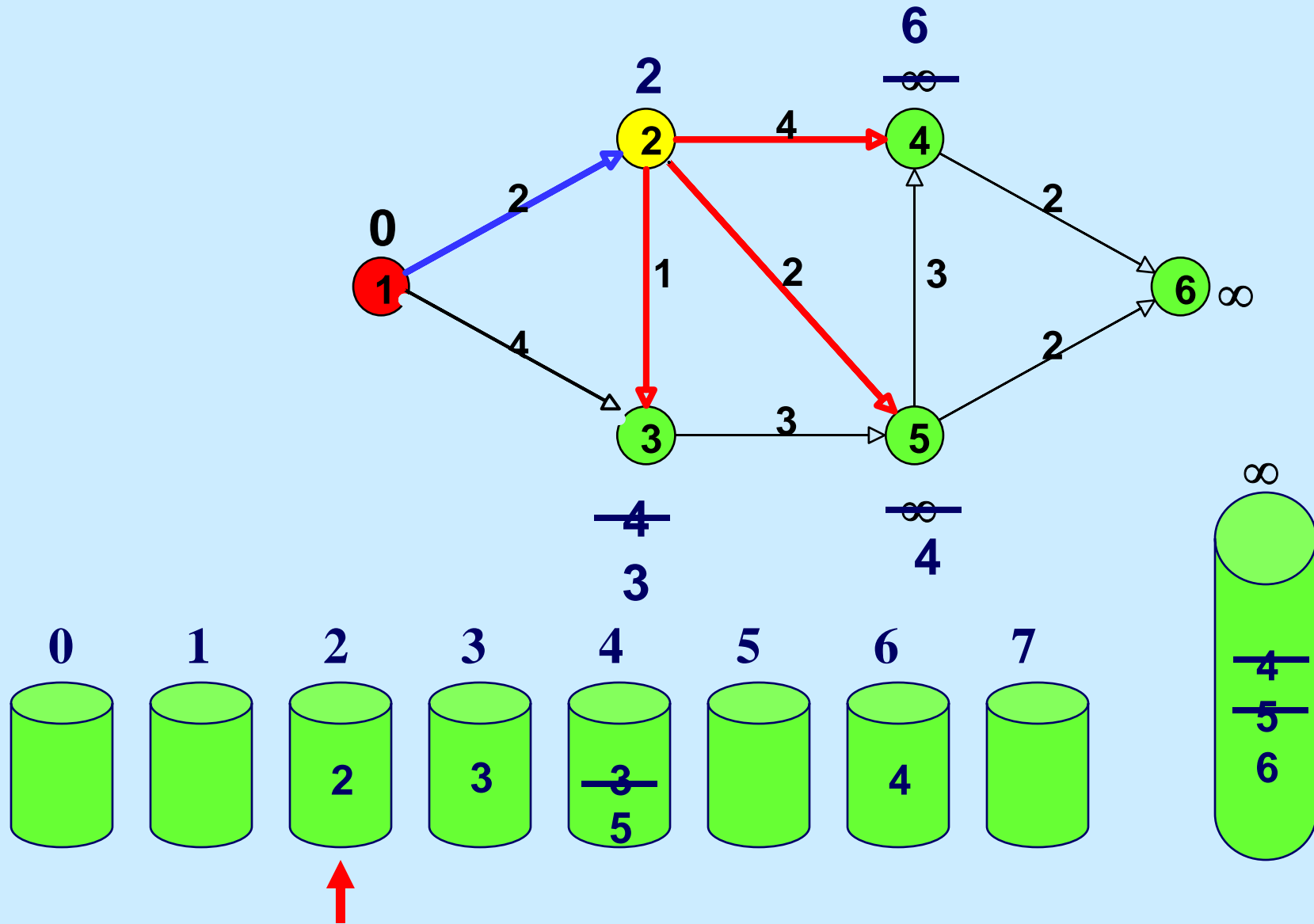


# Choose Minimum Temporary Label

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

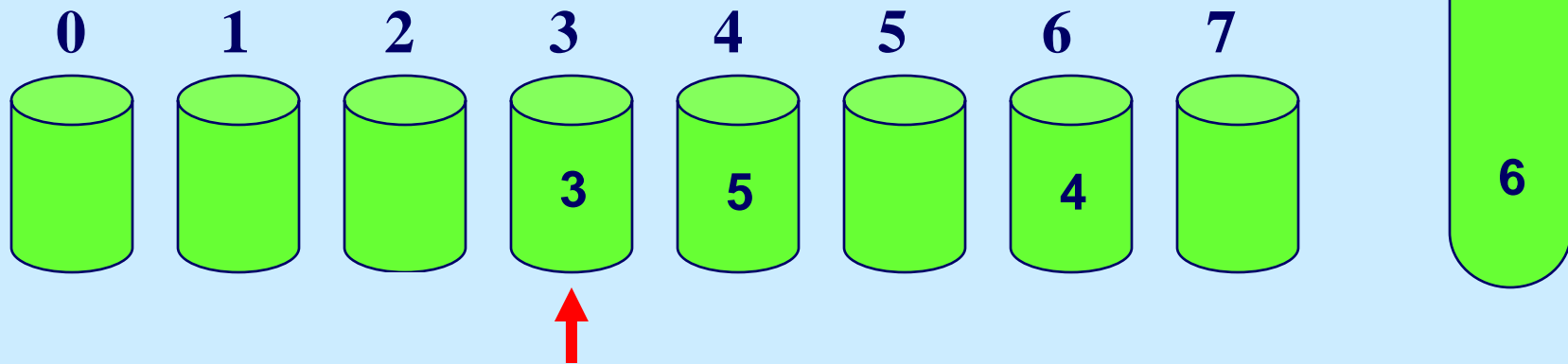
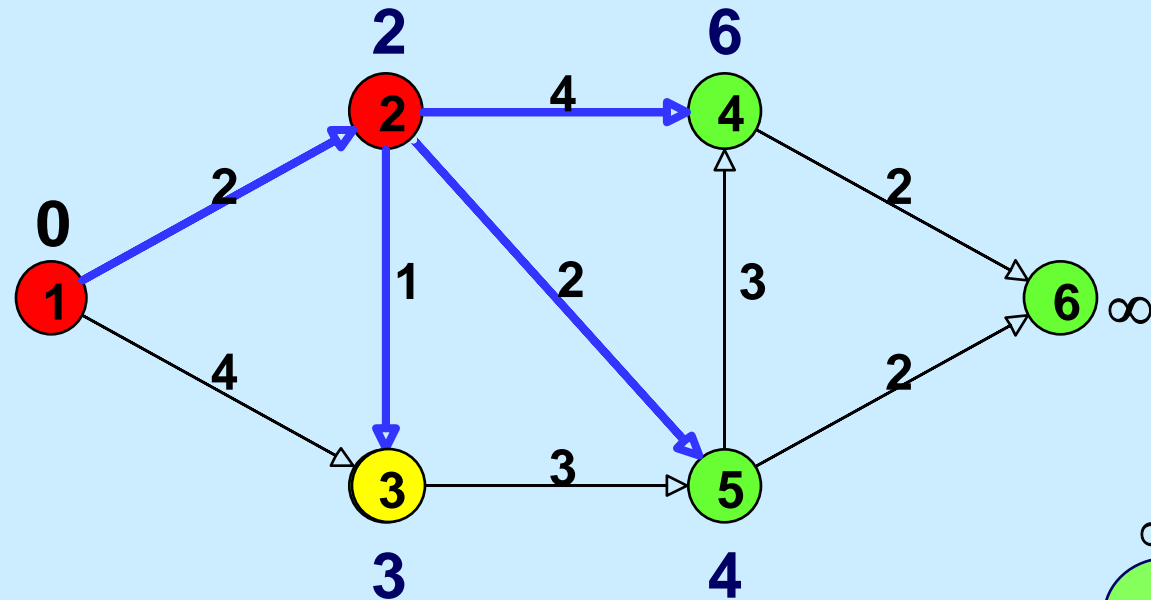


# Update Step

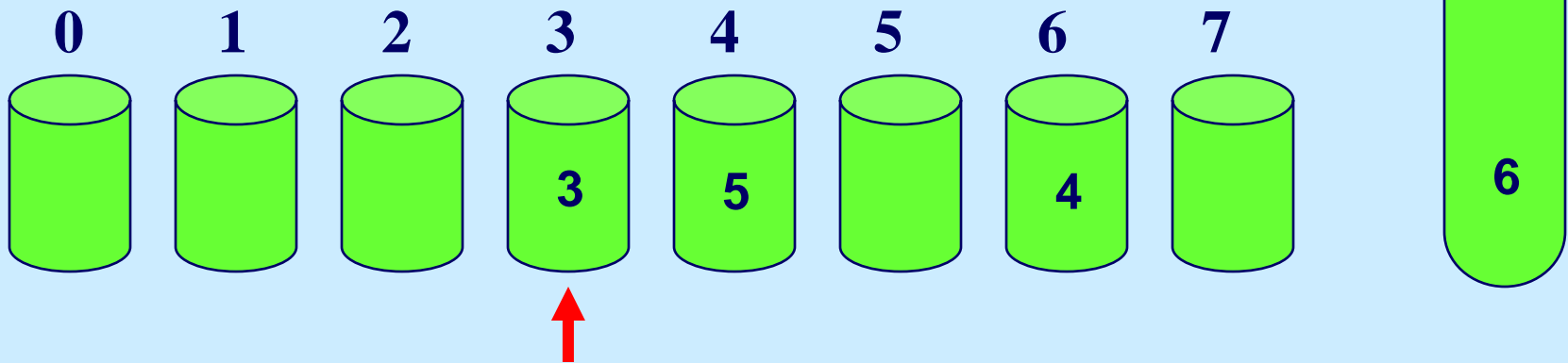
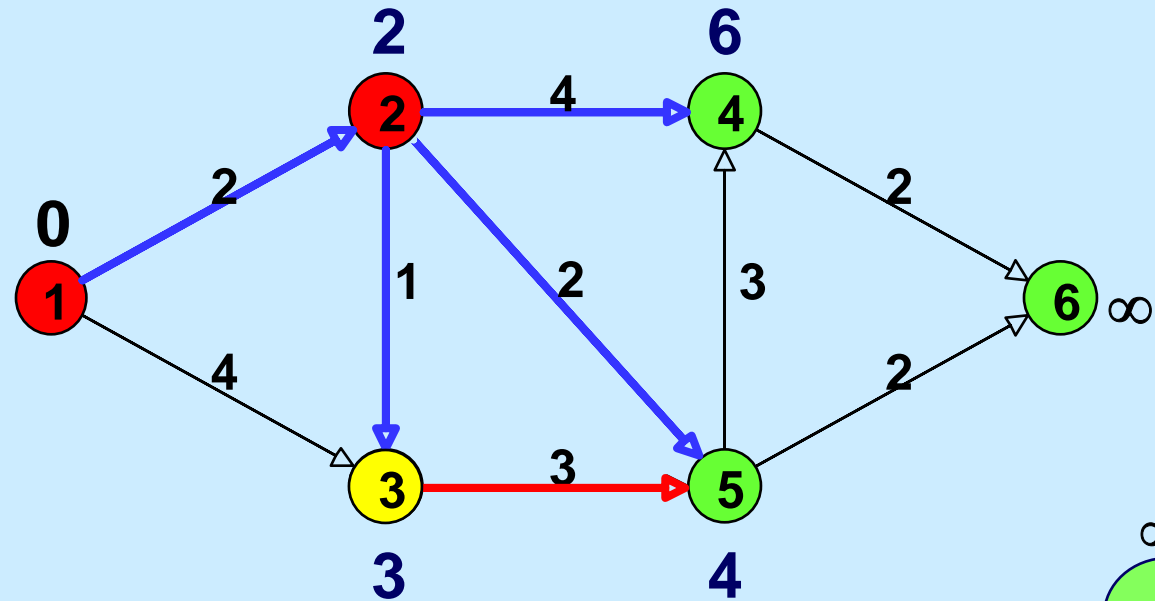


# Choose Minimum Temporary Label

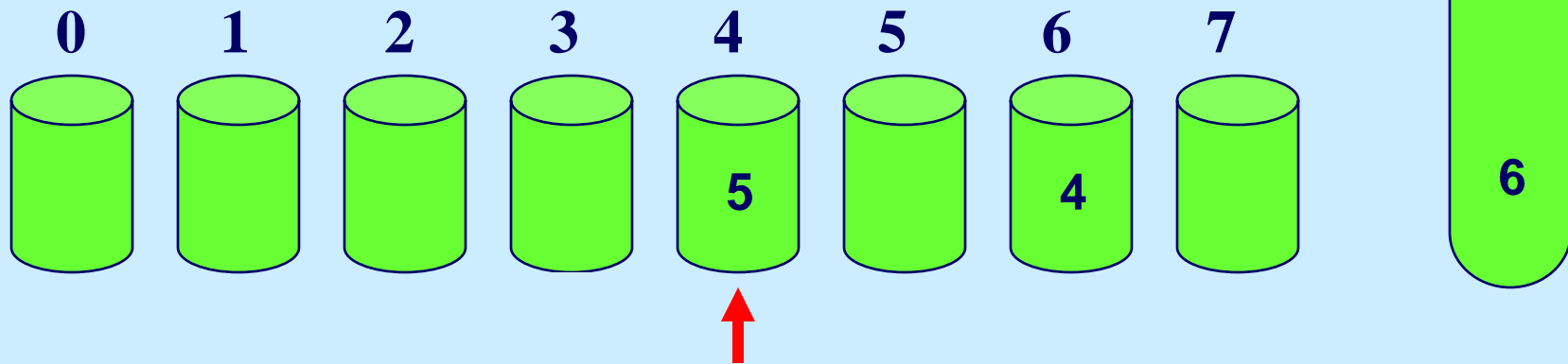
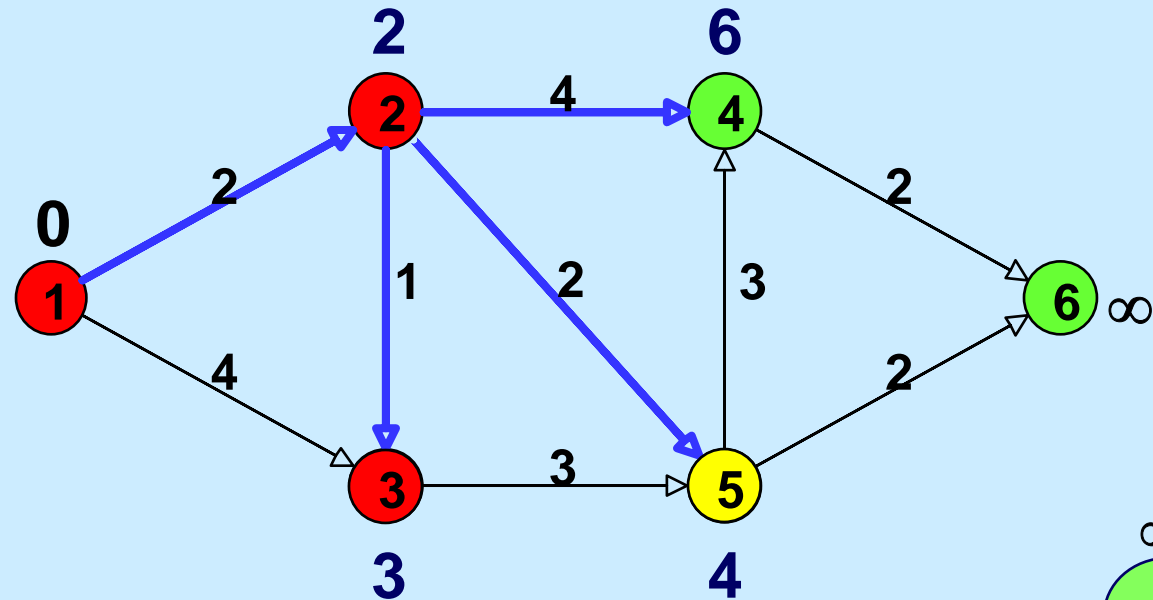
Find Min by starting at the leftmost bucket and scanning right till there is a non-empty bucket.



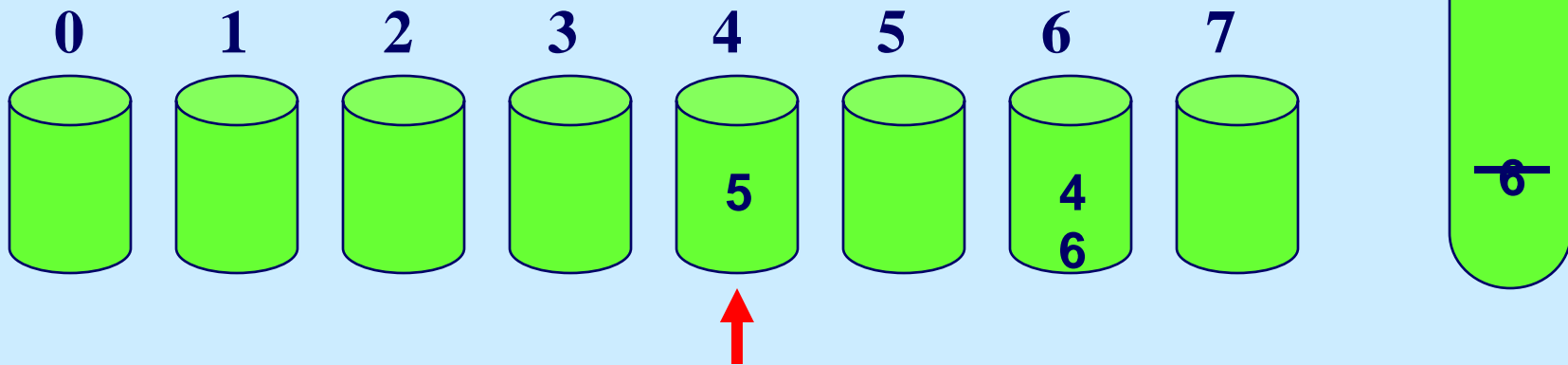
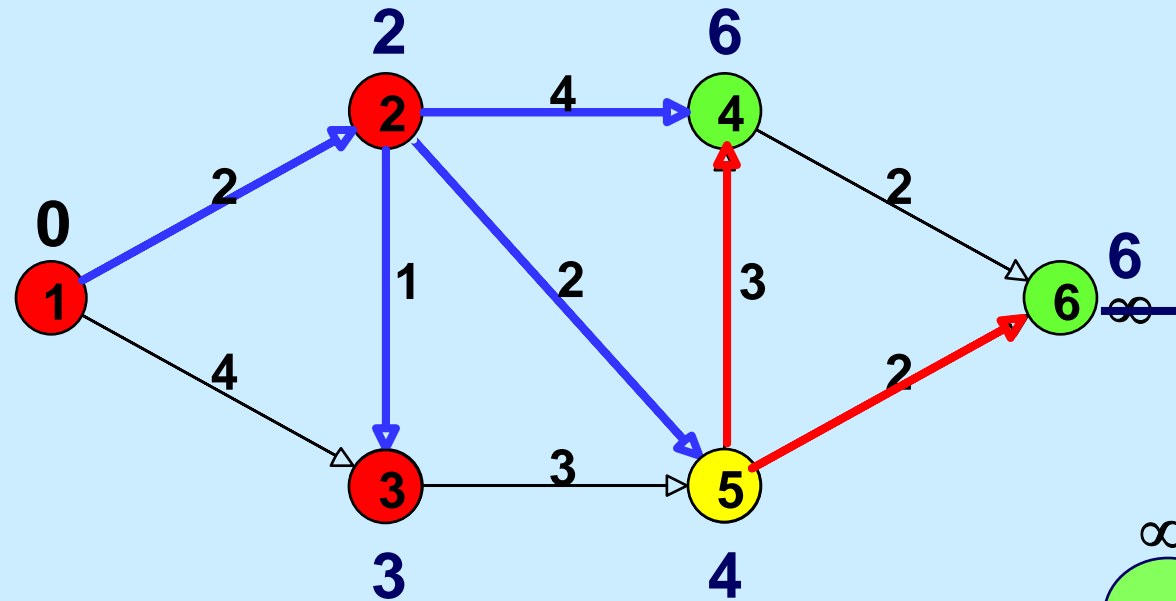
# Update



# Choose Minimum Temporary Label

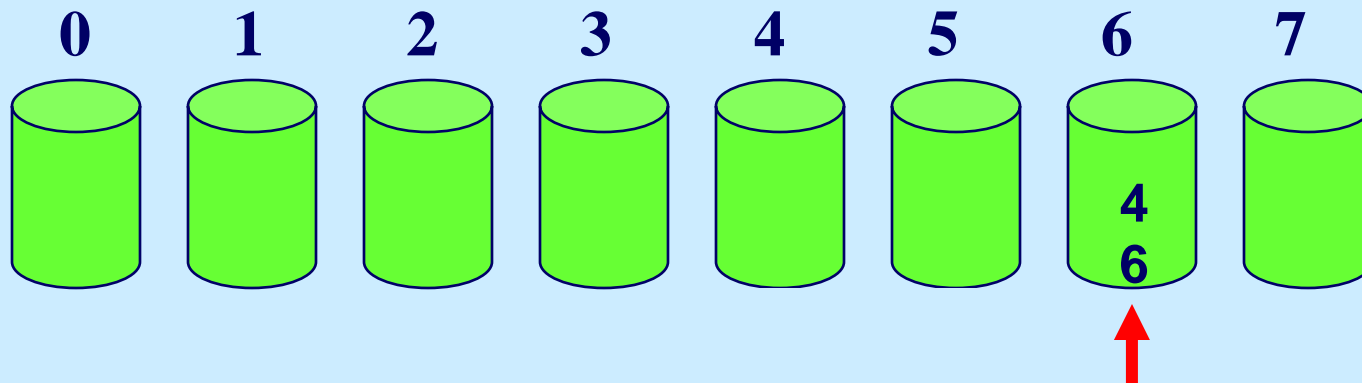
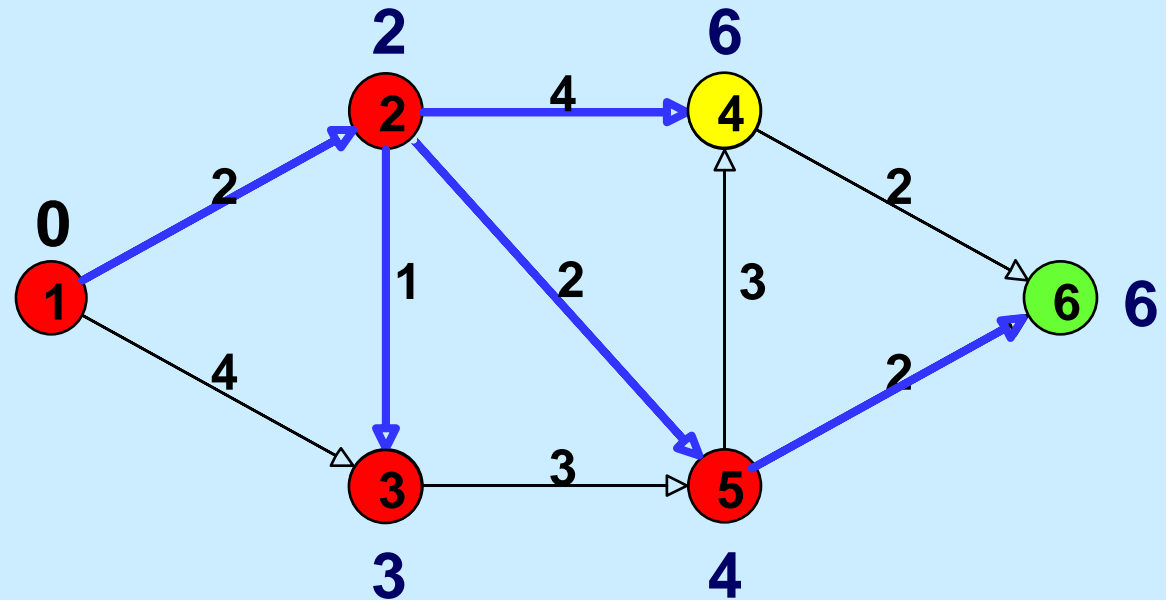


# Update

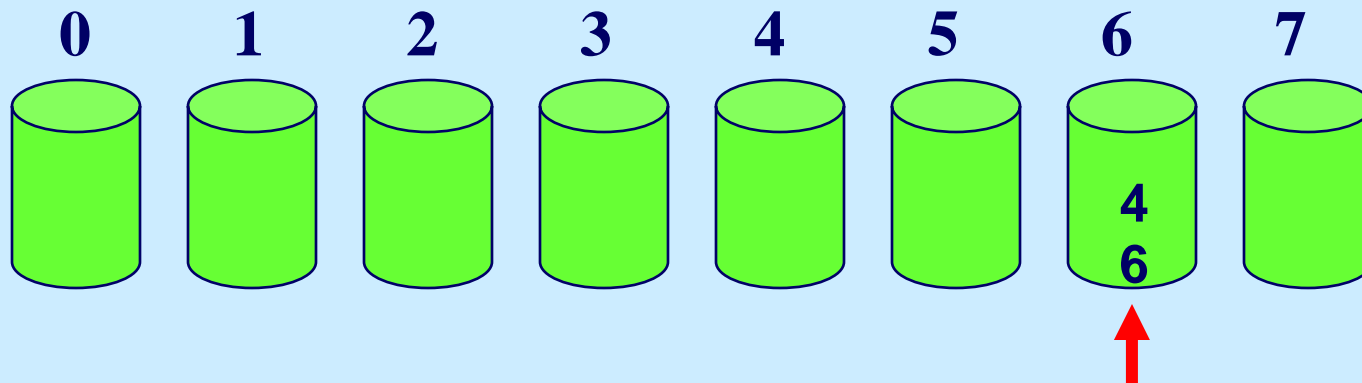
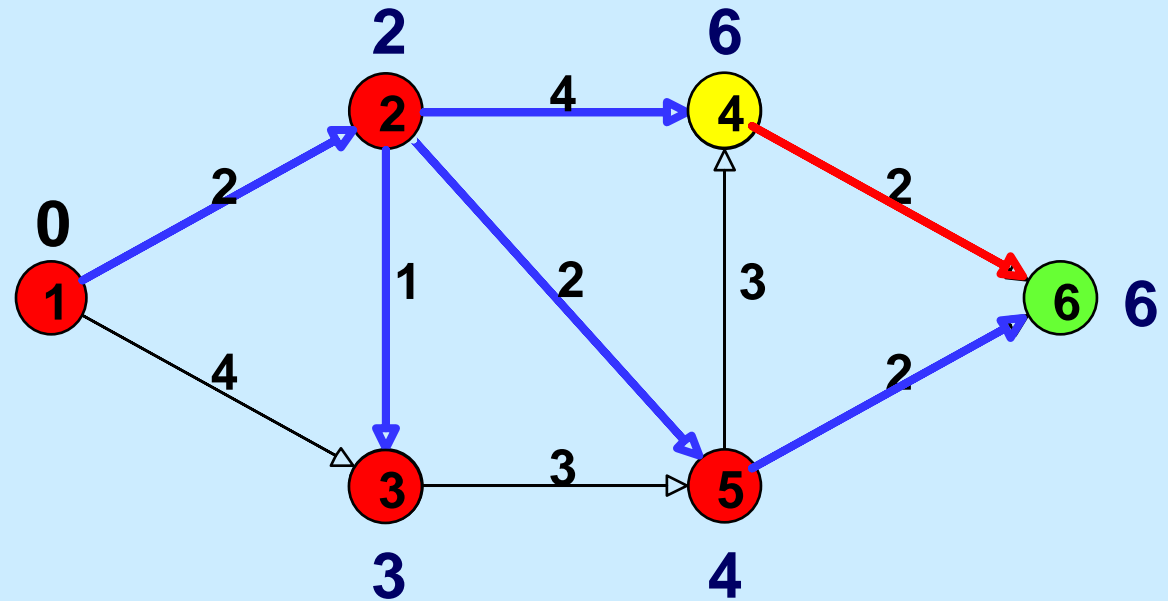




# Choose Minimum Temporary Label

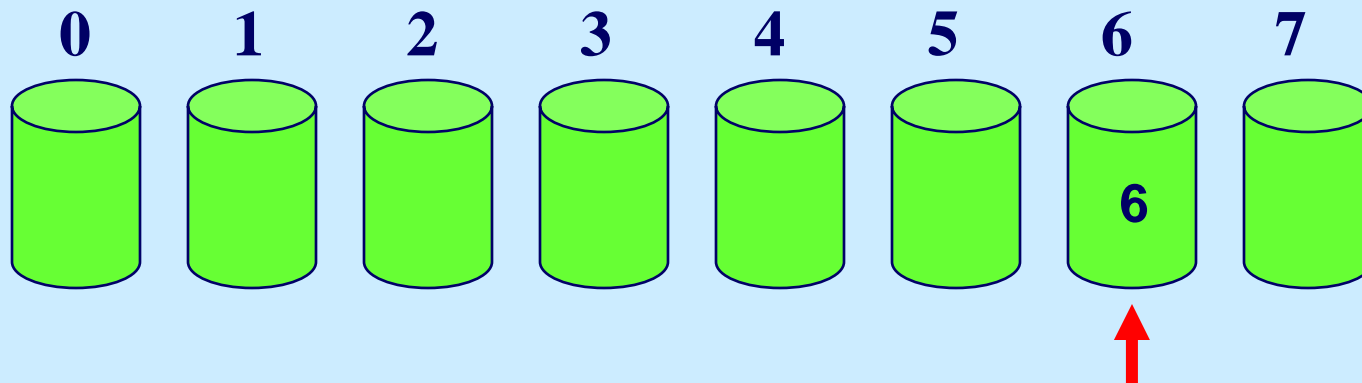
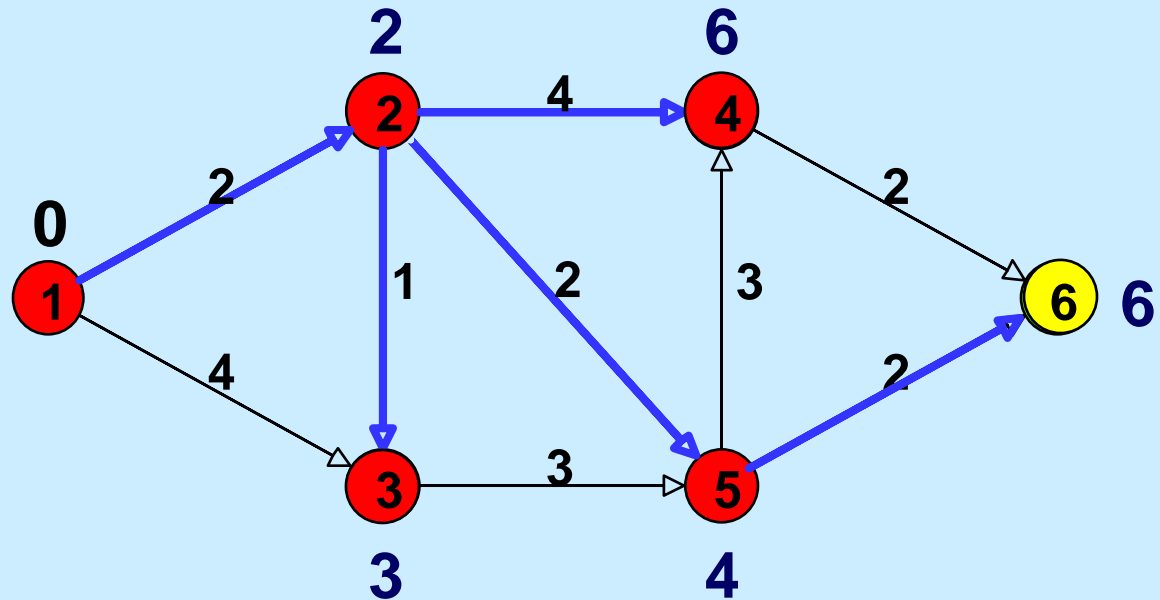


# Update



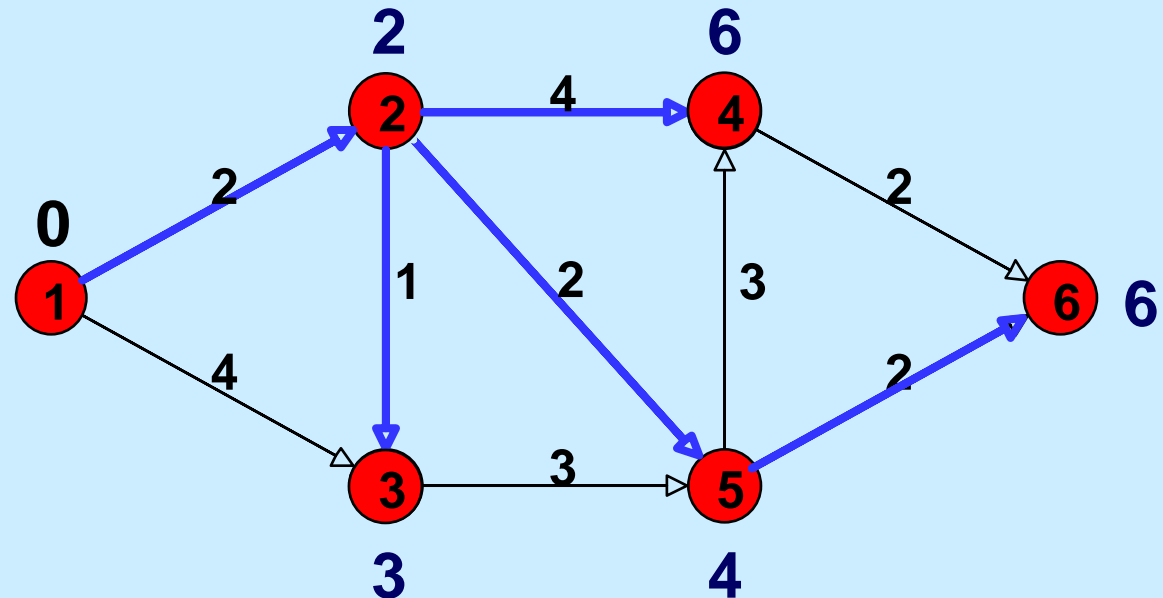
# Choose Minimum Temporary Label

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**