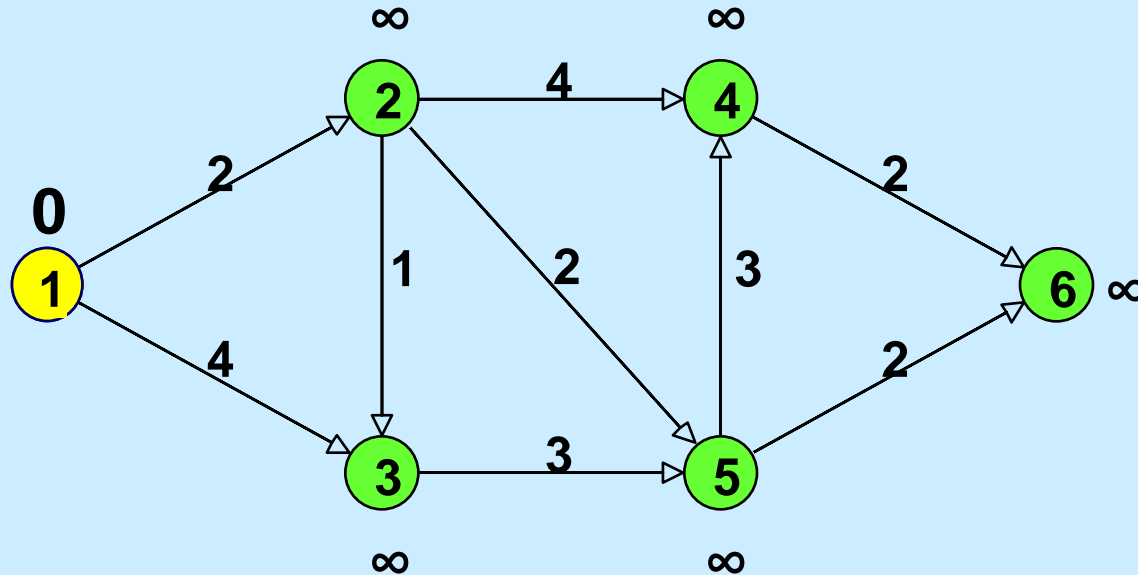# 15.082J & 6.855J & ESD.78J Visualizations

Dijkstra's Algorithm
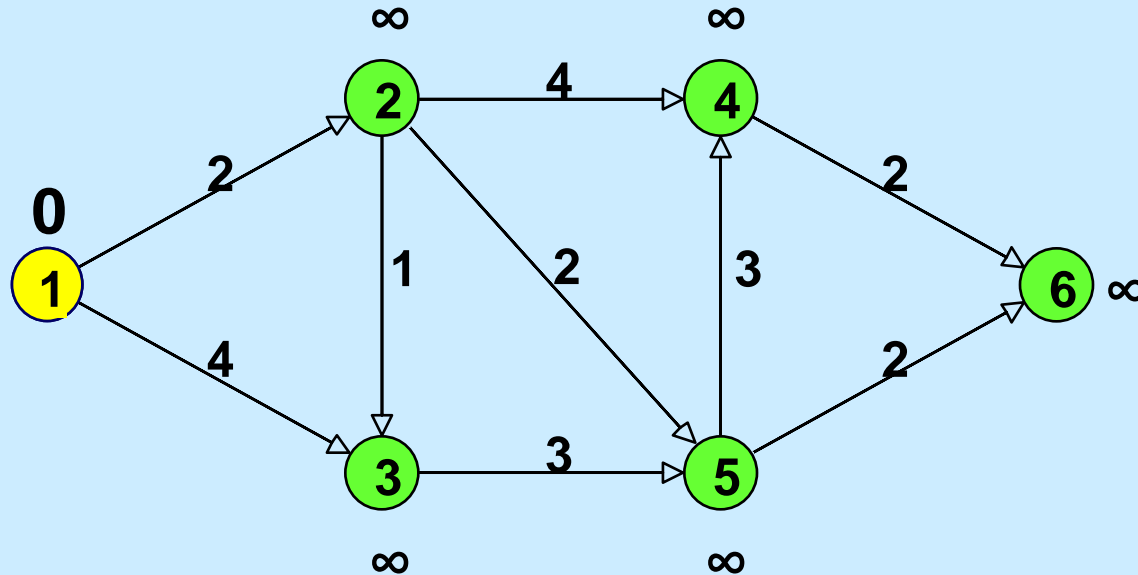
An Example

Initialize

Select the node with the minimum temporary distance label.
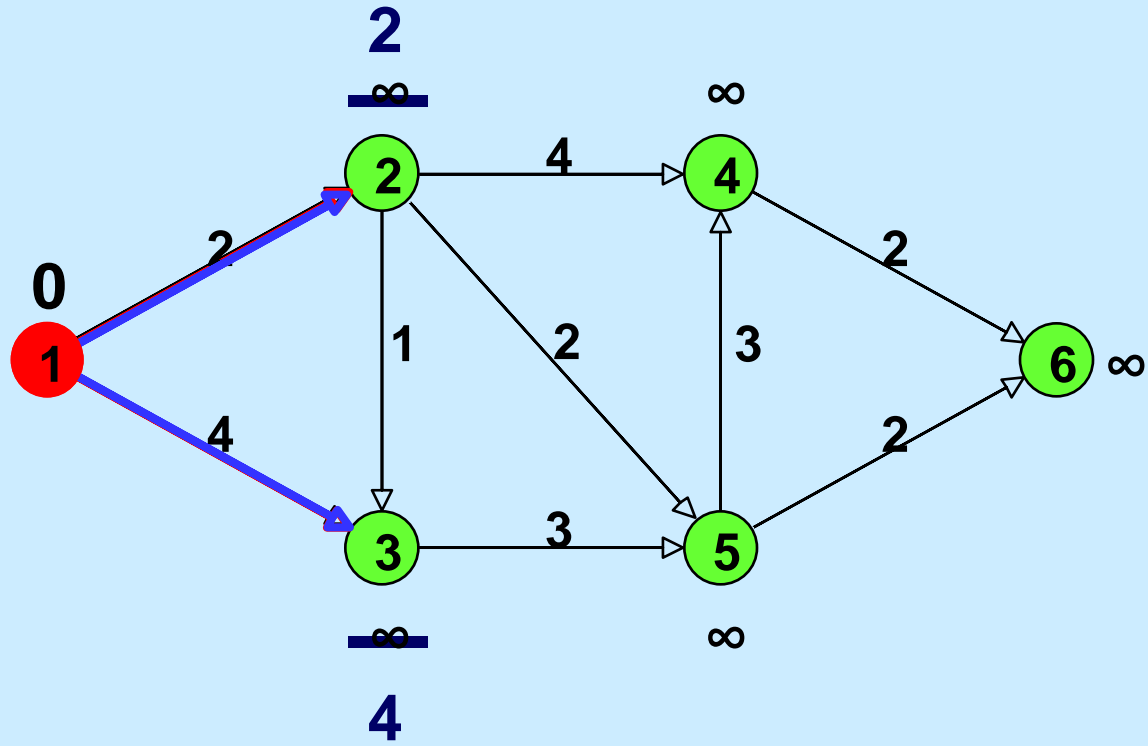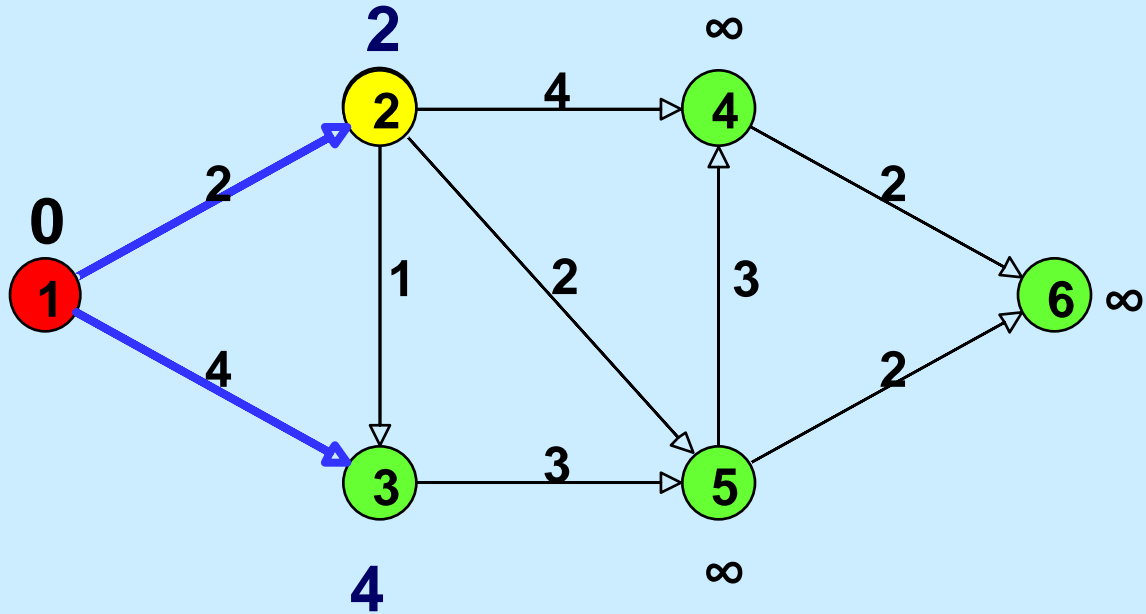
An Example

Initialize

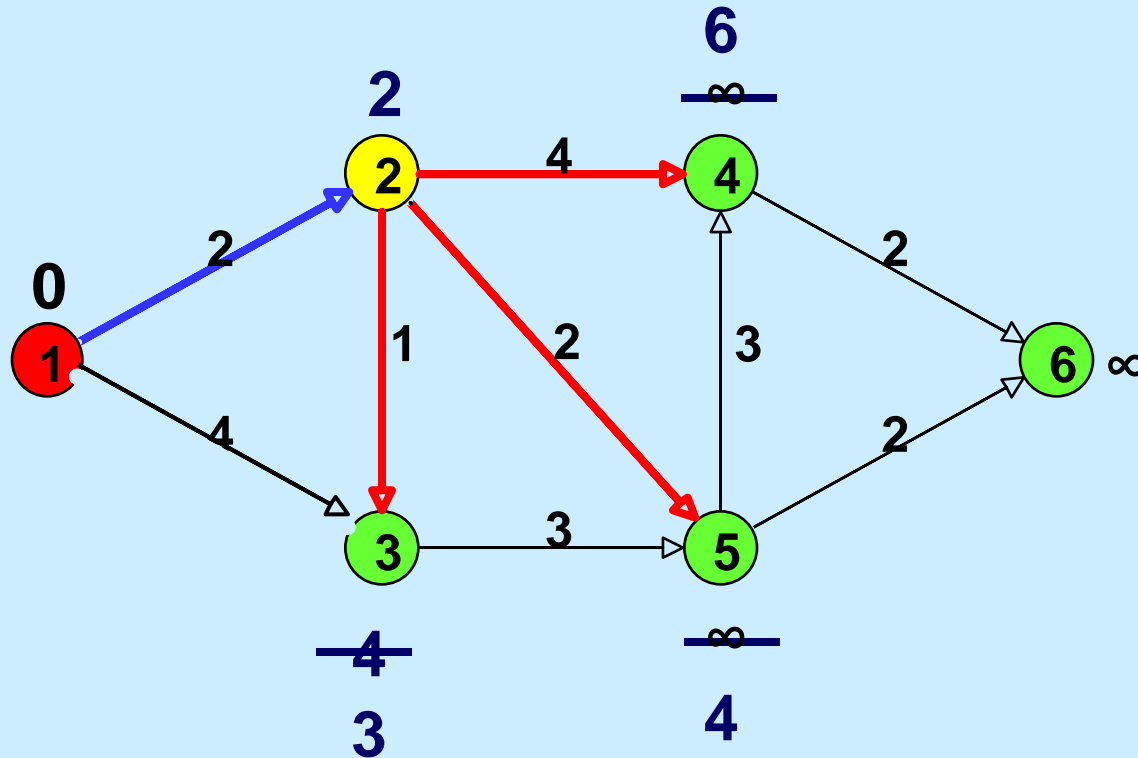**Select the node with the minimum temporary distance label.**

Update Step
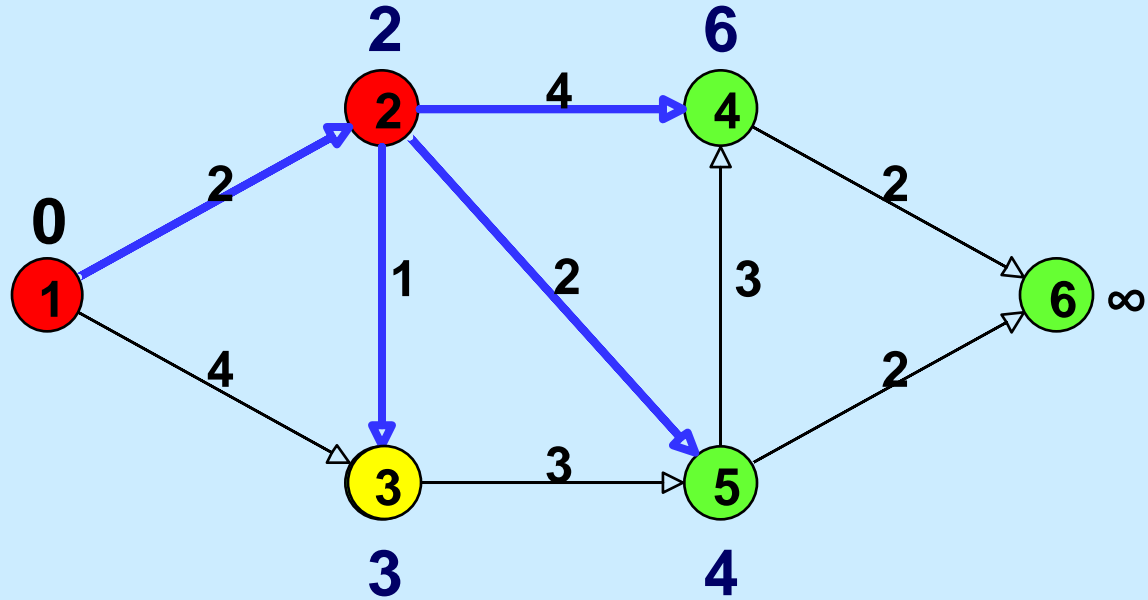
Choose Minimum Temporary Label
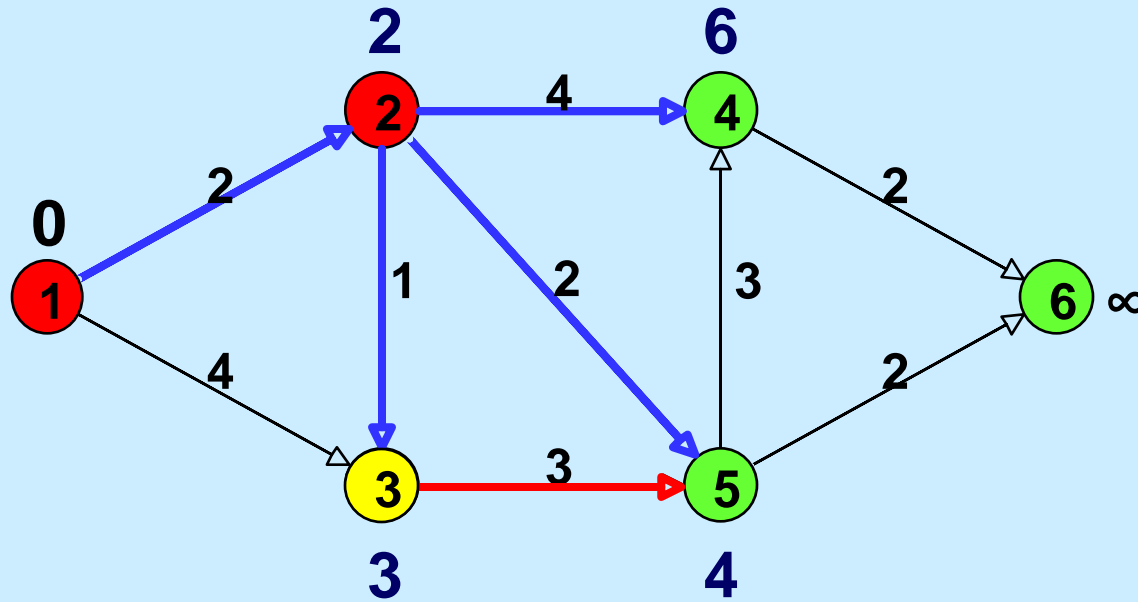
Update Step

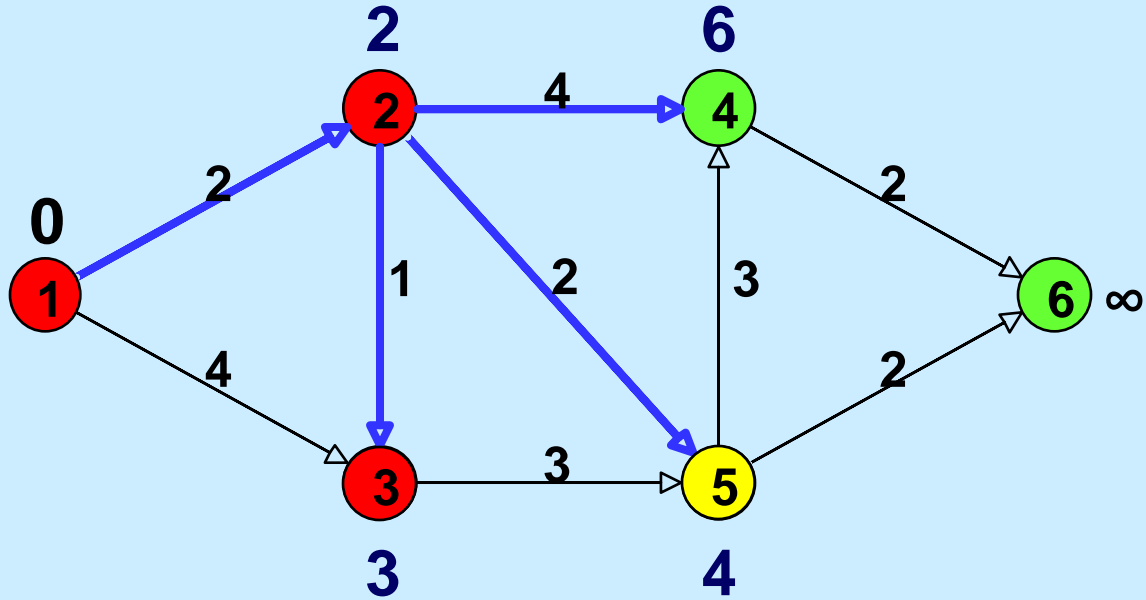The predecessor of node 3 is now node 2

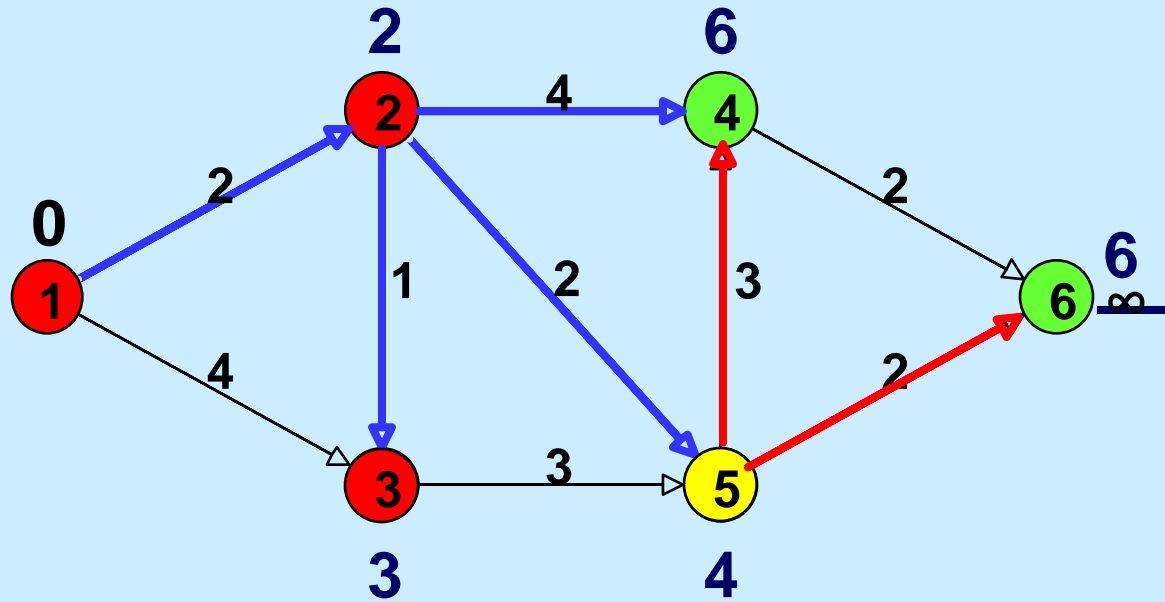# Choose Minimum Temporary Label

Update
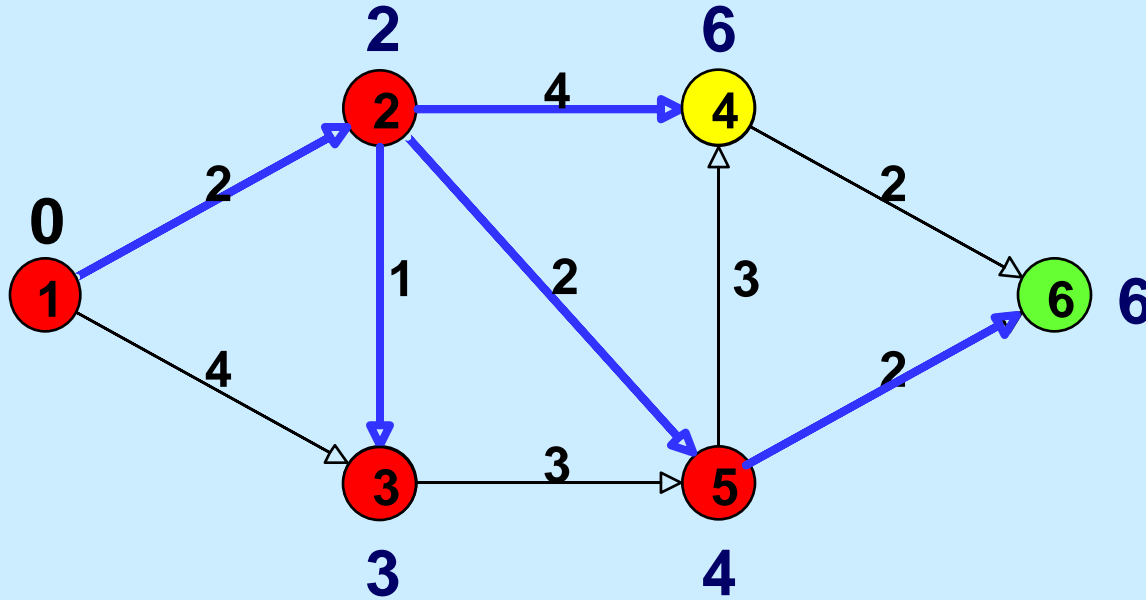

d(5) is not changed.

Choose Minimum Temporary Label

Update
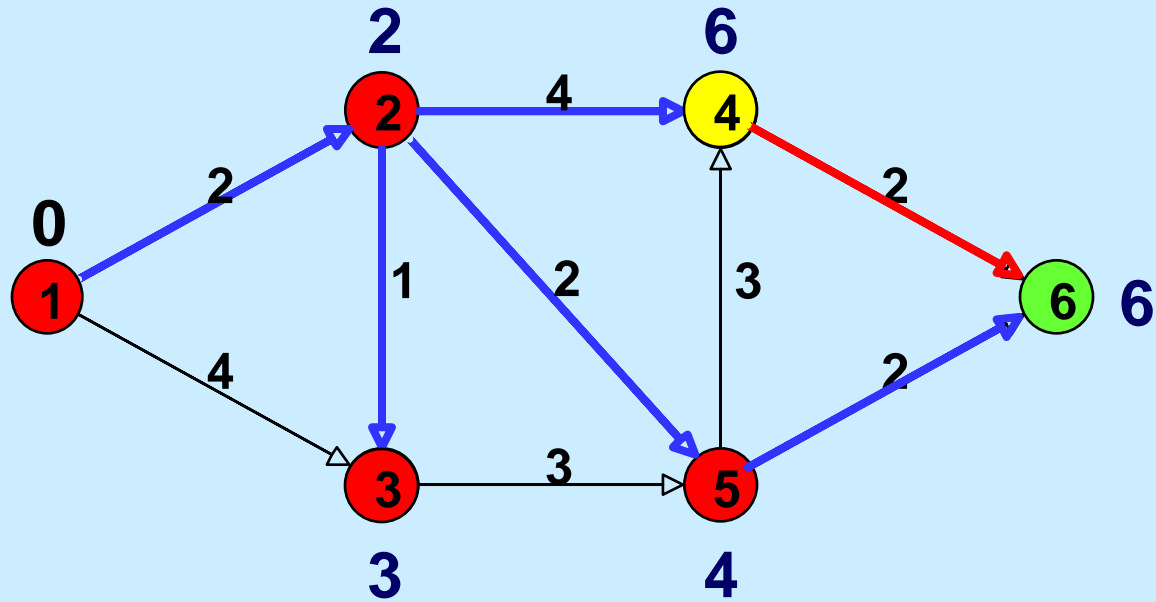

d(4) is not changed

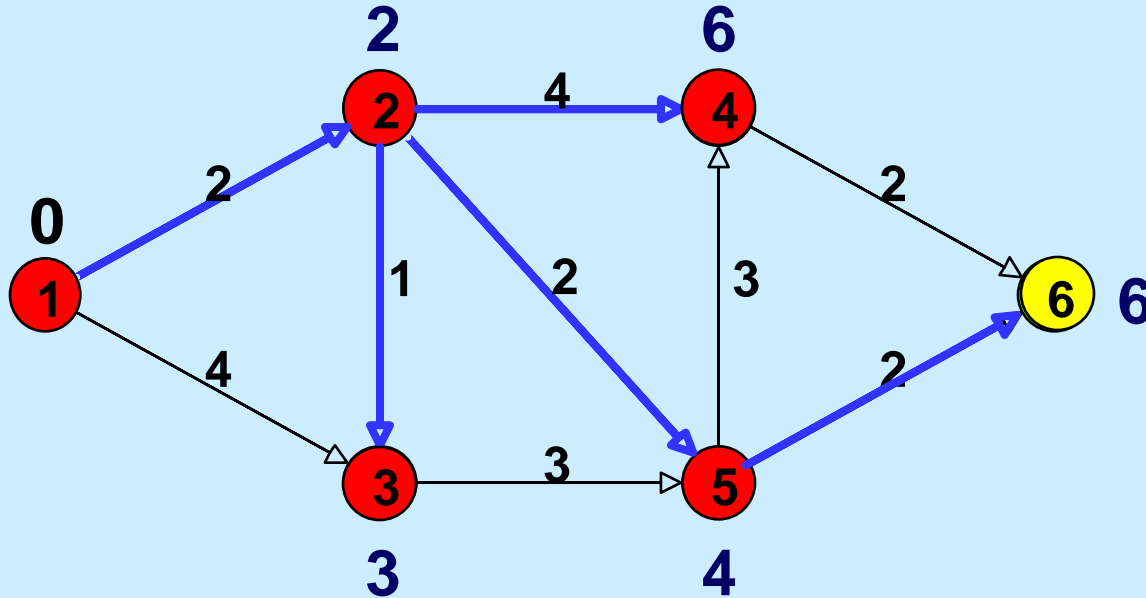# Choose Minimum Temporary Label
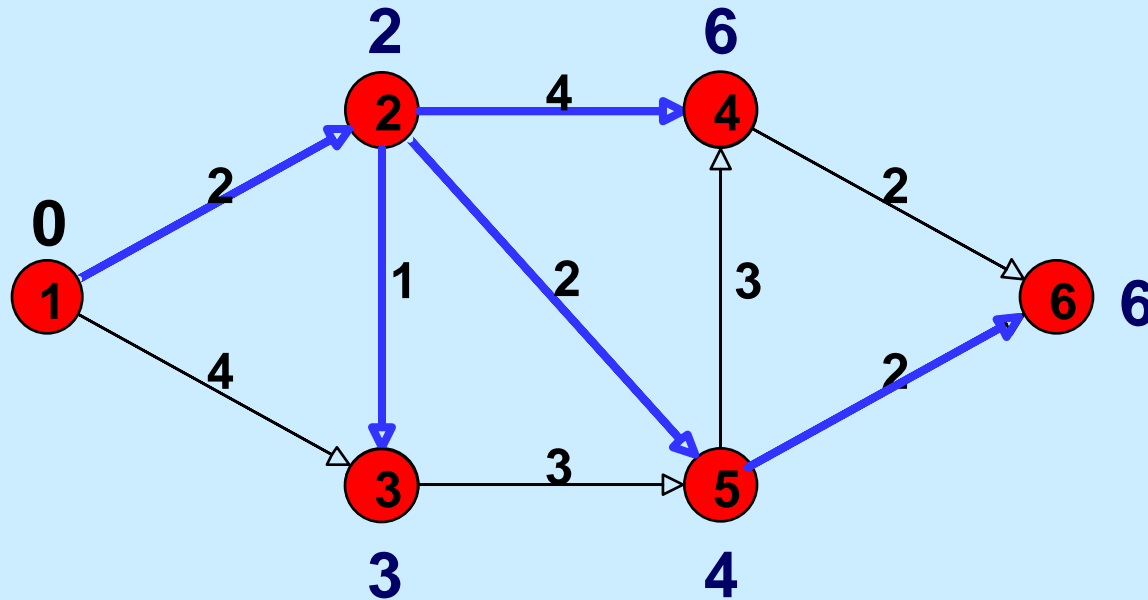
Update

d(6) is not updated

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

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15.082J / 6.855J / ESD.78J Network Optimization
Fall 2010

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