An Example

Initialize
Select the node with the minimum temporary distance label.
Update Step
Choose Minimum Temporary Label
The predecessor of node 3 is now node 2.
Choose Minimum Temporary Label

![Graph Diagram]
Update

\[d(5)\text{ is not changed.}\]
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
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