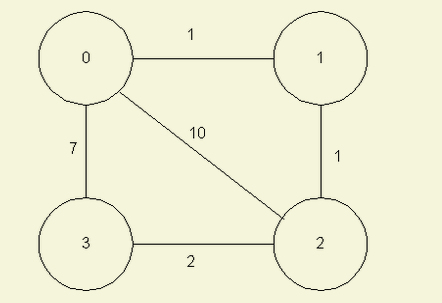
Kebi Hong

Pa3: Design-document && sample output

11/18/15

I am using the same graph as we have in the PA3 assignment for this sample run. The graph looks like the following:



**The correct output should be the following:**

The shortest path from Node 0 to Node 1 = 1

The shortest path from Node 0 to Node 2 = 2

The shortest path from Node 0 to Node 3 = 4

The distance table is stored at the array list **costs** and each node has its own distance table. For example, costs [1] [2] = 3In the Node 0 means that: The distance from Node 0 to Node 1 via Node 2 is 3.

Each column on the cost table represent the shortest path from this node to each node. For example, costs [1] [0] means the distance from node 0 to node 1. And costs [2] [3] means the distance from Node 3 to Node 2.

**Sample output**

Running the program with Trace = 2, Seed = 999.

System is Initializing Node#0 at Time 0.000000

Sending node 0's directly connected neighbor its mincost

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

The shortest distance to each Node is following:

Node#0: 999, Node#1: 1, Node#2: 10, Node#3: 7

The Node from which the distance is the shortest:

Node#0, Node#0, Node#0, Node#0

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

System is Initializing Node#1 at Time 0.000000

Sending node 1's directly connected neighbor its mincost

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

The shortest distance to each Node is following:

Node#0: 1, Node#1: 999, Node#2: 1, Node#3: 999

The Node from which the distance is the shortest:

Node#1, Node#0, Node#1, Node#0

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

System is Initializing Node#2 at Time 0.000000

Sending node 2's directly connected neighbor its mincost

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

The shortest distance to each Node is following:

Node#0: 10, Node#1: 1, Node#2: 999, Node#3: 2

The Node from which the distance is the shortest:

Node#2, Node#2, Node#0, Node#2

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

System is Initializing Node#3 at Time 0.000000

Sending node 3's directly connected neighbor its mincost

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

The shortest distance to each Node is following:

Node#0: 7, Node#1: 999, Node#2: 2, Node#3: 999

The Node from which the distance is the shortest:

Node#3, Node#0, Node#3, Node#0

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

MAIN: rcv event, t=0.276, at 3 src: 0, dest: 3, contents: 0 1 10 7

System is updating Node#3 at Time 0.276315

UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU

updating costs table: cost[0][0] = minc[0]= 0

updating costs table: cost[1][0] = minc[1]= 1

updating costs table: cost[2][0] = minc[2]= 10

updating costs table: cost[3][0] = minc[3]= 7

Updating distance table at Node 3.

It is closer to go through Node 0 with distance 8

via

D3 | 0 2

----|-----------------

0| 0 9999

dest 1| 1 9999

2| 10 9999

There is an update in the distance table

Sending node 3's directly connected neighbor its mincost

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

The shortest distance to each Node is following:

Node#0: 7, Node#1: 1, Node#2: 2, Node#3: 7

The Node from which the distance is the shortest:

Node#3, Node#0, Node#3, Node#0

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

via

D0 | 0 1 2 3

----|----------------------

0| 0 9999 9999 7

1| 1 9999 9999 8

dest 2| 10 9999 9999 2

3| 7 9999 9999 0

------------------------------------------------------------------------

MAIN: rcv event, t=0.701, at 1 src: 0, dest: 1, contents: 0 1 10 7

System is updating Node#1 at Time 0.700949

UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU

updating costs table: cost[0][0] = minc[0]= 0

updating costs table: cost[1][0] = minc[1]= 1

updating costs table: cost[2][0] = minc[2]= 10

updating costs table: cost[3][0] = minc[3]= 7

Updating distance table at Node 1.

It is closer to go through Node 0 with distance 8

via

D1 | 0 2

----|-----------------

0| 0 9999

dest 2| 10 9999

3| 7 9999

There is an update in the distance table

Sending node 1's directly connected neighbor its mincost

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

The shortest distance to each Node is following:

Node#0: 1, Node#1: 1, Node#2: 1, Node#3: 7

The Node from which the distance is the shortest:

Node#1, Node#0, Node#1, Node#0

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

via

D0 | 0 1 2 3

----|----------------------

0| 0 1 9999 9999

1| 1 0 9999 9999

dest 2| 10 1 9999 9999

3| 7 8 9999 9999

------------------------------------------------------------------------

MAIN: rcv event, t=0.777, at 0 src: 1, dest: 0, contents: 1 0 1 9999

System is updating Node#0 at Time 0.777245

UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU

updating costs table: cost[0][1] = minc[0]= 1

updating costs table: cost[1][1] = minc[1]= 0

updating costs table: cost[2][1] = minc[2]= 1

Updating distance table at Node 0.

It is closer to go through Node 1 with distance 2

via

D0 | 1 2 3

----|-----------------

1| 0 9999 9999

dest 2| 1 9999 9999

3| 9999 9999 9999

There is an update in the distance table

Sending node 0's directly connected neighbor its mincost

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

The shortest distance to each Node is following:

Node#0: 1, Node#1: 1, Node#2: 1, Node#3: 7

The Node from which the distance is the shortest:

Node#1, Node#0, Node#1, Node#0

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

via

D0 | 0 1 2 3

----|----------------------

0| 0 1 9999 9999

1| 1 0 9999 9999

dest 2| 2 1 9999 9999

3| 7 9999 9999 9999

------------------------------------------------------------------------

MAIN: rcv event, t=0.824, at 0 src: 2, dest: 0, contents: 10 1 0 2

System is updating Node#0 at Time 0.823756

UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU

updating costs table: cost[0][2] = minc[0]= 10

updating costs table: cost[1][2] = minc[1]= 1

updating costs table: cost[2][2] = minc[2]= 0

updating costs table: cost[3][2] = minc[3]= 2

Updating distance table at Node 0.

It is closer to go through Node 2 with distance 4

via

D0 | 1 2 3

----|-----------------

1| 0 1 9999

dest 2| 1 0 9999

3| 9999 2 9999

There is an update in the distance table

Sending node 0's directly connected neighbor its mincost

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

The shortest distance to each Node is following:

Node#0: 1, Node#1: 1, Node#2: 1, Node#3: 2

The Node from which the distance is the shortest:

Node#1, Node#0, Node#1, Node#2

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

via

D0 | 0 1 2 3

----|----------------------

0| 0 1 10 9999

1| 1 0 1 9999

dest 2| 2 1 0 9999

3| 4 9999 2 9999

------------------------------------------------------------------------

MAIN: rcv event, t=0.951, at 0 src: 3, dest: 0, contents: 7 9999 2 0

System is updating Node#0 at Time 0.951384

UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU

updating costs table: cost[0][3] = minc[0]= 7

updating costs table: cost[2][3] = minc[2]= 2

updating costs table: cost[3][3] = minc[3]= 0

via

D0 | 1 2 3

----|-----------------

1| 0 1 9999

dest 2| 1 0 2

3| 9999 2 0

There is no change in the distance table

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

The shortest distance to each Node is following:

Node#0: 1, Node#1: 1, Node#2: 1, Node#3: 2

The Node from which the distance is the shortest:

Node#1, Node#0, Node#1, Node#2

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

via

D0 | 0 1 2 3

----|----------------------

0| 0 1 10 7

1| 1 0 1 9999

dest 2| 2 1 0 2

3| 4 9999 2 0

------------------------------------------------------------------------

MAIN: rcv event, t=1.444, at 2 src: 0, dest: 2, contents: 0 1 10 7

System is updating Node#2 at Time 1.443648

UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU

updating costs table: cost[0][0] = minc[0]= 0

updating costs table: cost[1][0] = minc[1]= 1

updating costs table: cost[2][0] = minc[2]= 10

updating costs table: cost[3][0] = minc[3]= 7

via

D2 | 0 1 3

----|-----------------

0| 0 9999 9999

dest 1| 1 9999 9999

3| 7 9999 9999

There is no change in the distance table

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

The shortest distance to each Node is following:

Node#0: 10, Node#1: 1, Node#2: 10, Node#3: 2

The Node from which the distance is the shortest:

Node#2, Node#0, Node#0, Node#2

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

via

D0 | 0 1 2 3

----|----------------------

0| 0 9999 10 9999

1| 1 9999 1 9999

dest 2| 10 9999 0 9999

3| 7 9999 2 9999

------------------------------------------------------------------------

MAIN: rcv event, t=1.694, at 2 src: 1, dest: 2, contents: 1 0 1 9999

System is updating Node#2 at Time 1.694327

UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU

updating costs table: cost[0][1] = minc[0]= 1

updating costs table: cost[1][1] = minc[1]= 0

updating costs table: cost[2][1] = minc[2]= 1

Updating distance table at Node 2.

It is closer to go through Node 1 with distance 2

via

D2 | 0 1 3

----|-----------------

0| 0 1 9999

dest 1| 1 0 9999

3| 7 9999 9999

There is an update in the distance table

Sending node 2's directly connected neighbor its mincost

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

The shortest distance to each Node is following:

Node#0: 1, Node#1: 1, Node#2: 1, Node#3: 2

The Node from which the distance is the shortest:

Node#1, Node#0, Node#1, Node#2

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

via

D0 | 0 1 2 3

----|----------------------

0| 0 1 2 9999

1| 1 0 1 9999

dest 2| 10 1 0 9999

3| 7 9999 2 9999

------------------------------------------------------------------------

MAIN: rcv event, t=1.713, at 0 src: 3, dest: 0, contents: 7 8 2 0

System is updating Node#0 at Time 1.713492

UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU

updating costs table: cost[1][3] = minc[1]= 8

via

D0 | 1 2 3

----|-----------------

1| 0 1 8

dest 2| 1 0 2

3| 9999 2 0

There is no change in the distance table

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

The shortest distance to each Node is following:

Node#0: 1, Node#1: 1, Node#2: 1, Node#3: 2

The Node from which the distance is the shortest:

Node#1, Node#0, Node#1, Node#2

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

via

D0 | 0 1 2 3

----|----------------------

0| 0 1 10 7

1| 1 0 1 8

dest 2| 2 1 0 2

3| 4 9999 2 0

------------------------------------------------------------------------

MAIN: rcv event, t=2.150, at 3 src: 2, dest: 3, contents: 10 1 0 2

System is updating Node#3 at Time 2.150334

UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU

updating costs table: cost[0][2] = minc[0]= 10

updating costs table: cost[1][2] = minc[1]= 1

updating costs table: cost[2][2] = minc[2]= 0

updating costs table: cost[3][2] = minc[3]= 2

Updating distance table at Node 3.

It is closer to go through Node 2 with distance 3

via

D3 | 0 2

----|-----------------

0| 0 10

dest 1| 1 1

2| 10 0

There is an update in the distance table

Sending node 3's directly connected neighbor its mincost

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

The shortest distance to each Node is following:

Node#0: 7, Node#1: 1, Node#2: 2, Node#3: 2

The Node from which the distance is the shortest:

Node#3, Node#0, Node#3, Node#2

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

via

D0 | 0 1 2 3

----|----------------------

0| 0 9999 10 7

1| 1 9999 1 3

dest 2| 10 9999 0 2

3| 7 9999 2 0

------------------------------------------------------------------------

MAIN: rcv event, t=2.311, at 3 src: 0, dest: 3, contents: 0 1 2 7

System is updating Node#3 at Time 2.311411

UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU

updating costs table: cost[2][0] = minc[2]= 2

via

D3 | 0 2

----|-----------------

0| 0 10

dest 1| 1 1

2| 2 0

There is no change in the distance table

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

The shortest distance to each Node is following:

Node#0: 7, Node#1: 1, Node#2: 2, Node#3: 2

The Node from which the distance is the shortest:

Node#3, Node#0, Node#0, Node#2

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

via

D0 | 0 1 2 3

----|----------------------

0| 0 9999 10 7

1| 1 9999 1 3

dest 2| 2 9999 0 2

3| 7 9999 2 0

------------------------------------------------------------------------

MAIN: rcv event, t=2.385, at 1 src: 2, dest: 1, contents: 10 1 0 2

System is updating Node#1 at Time 2.384838

UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU

updating costs table: cost[0][2] = minc[0]= 10

updating costs table: cost[1][2] = minc[1]= 1

updating costs table: cost[2][2] = minc[2]= 0

updating costs table: cost[3][2] = minc[3]= 2

Updating distance table at Node 1.

It is closer to go through Node 2 with distance 3

via

D1 | 0 2

----|-----------------

0| 0 10

dest 2| 10 0

3| 7 2

There is an update in the distance table

Sending node 1's directly connected neighbor its mincost

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

The shortest distance to each Node is following:

Node#0: 1, Node#1: 1, Node#2: 1, Node#3: 2

The Node from which the distance is the shortest:

Node#1, Node#0, Node#1, Node#2

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

via

D0 | 0 1 2 3

----|----------------------

0| 0 1 10 9999

1| 1 0 1 9999

dest 2| 10 1 0 9999

3| 7 3 2 9999

------------------------------------------------------------------------

MAIN: rcv event, t=2.578, at 2 src: 3, dest: 2, contents: 7 9999 2 0

System is updating Node#2 at Time 2.578082

UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU

updating costs table: cost[0][3] = minc[0]= 7

updating costs table: cost[2][3] = minc[2]= 2

updating costs table: cost[3][3] = minc[3]= 0

via

D2 | 0 1 3

----|-----------------

0| 0 1 7

dest 1| 1 0 9999

3| 7 9999 0

There is no change in the distance table

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

The shortest distance to each Node is following:

Node#0: 1, Node#1: 1, Node#2: 1, Node#3: 2

The Node from which the distance is the shortest:

Node#1, Node#0, Node#1, Node#2

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

via

D0 | 0 1 2 3

----|----------------------

0| 0 1 2 7

1| 1 0 1 9999

dest 2| 10 1 0 2

3| 7 9999 2 0

------------------------------------------------------------------------

MAIN: rcv event, t=2.805, at 1 src: 0, dest: 1, contents: 0 1 2 7

System is updating Node#1 at Time 2.805139

UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU

updating costs table: cost[2][0] = minc[2]= 2

via

D1 | 0 2

----|-----------------

0| 0 10

dest 2| 2 0

3| 7 2

There is no change in the distance table

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

The shortest distance to each Node is following:

Node#0: 1, Node#1: 1, Node#2: 1, Node#3: 2

The Node from which the distance is the shortest:

Node#1, Node#0, Node#1, Node#2

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

via

D0 | 0 1 2 3

----|----------------------

0| 0 1 10 9999

1| 1 0 1 9999

dest 2| 2 1 0 9999

3| 7 3 2 9999

------------------------------------------------------------------------

MAIN: rcv event, t=2.862, at 0 src: 1, dest: 0, contents: 1 0 1 8

System is updating Node#0 at Time 2.861660

UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU

updating costs table: cost[3][1] = minc[3]= 8

via

D0 | 1 2 3

----|-----------------

1| 0 1 8

dest 2| 1 0 2

3| 8 2 0

There is no change in the distance table

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

The shortest distance to each Node is following:

Node#0: 1, Node#1: 1, Node#2: 1, Node#3: 2

The Node from which the distance is the shortest:

Node#1, Node#0, Node#1, Node#2

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

via

D0 | 0 1 2 3

----|----------------------

0| 0 1 10 7

1| 1 0 1 8

dest 2| 2 1 0 2

3| 4 8 2 0

------------------------------------------------------------------------

MAIN: rcv event, t=3.225, at 2 src: 3, dest: 2, contents: 7 8 2 0

System is updating Node#2 at Time 3.225379

UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU

updating costs table: cost[1][3] = minc[1]= 8

via

D2 | 0 1 3

----|-----------------

0| 0 1 7

dest 1| 1 0 8

3| 7 9999 0

There is no change in the distance table

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

The shortest distance to each Node is following:

Node#0: 1, Node#1: 1, Node#2: 1, Node#3: 2

The Node from which the distance is the shortest:

Node#1, Node#0, Node#1, Node#2

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

via

D0 | 0 1 2 3

----|----------------------

0| 0 1 2 7

1| 1 0 1 8

dest 2| 10 1 0 2

3| 7 9999 2 0

------------------------------------------------------------------------

MAIN: rcv event, t=3.383, at 3 src: 0, dest: 3, contents: 0 1 2 4

System is updating Node#3 at Time 3.383465

UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU

updating costs table: cost[3][0] = minc[3]= 4

via

D3 | 0 2

----|-----------------

0| 0 10

dest 1| 1 1

2| 2 0

There is no change in the distance table

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

The shortest distance to each Node is following:

Node#0: 7, Node#1: 1, Node#2: 2, Node#3: 2

The Node from which the distance is the shortest:

Node#3, Node#0, Node#0, Node#2

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

via

D0 | 0 1 2 3

----|----------------------

0| 0 9999 10 7

1| 1 9999 1 3

dest 2| 2 9999 0 2

3| 4 9999 2 0

------------------------------------------------------------------------

MAIN: rcv event, t=4.125, at 3 src: 2, dest: 3, contents: 2 1 0 2

System is updating Node#3 at Time 4.125431

UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU

updating costs table: cost[0][2] = minc[0]= 2

Updating distance table at Node 3.

It is closer to go through Node 2 with distance 4

via

D3 | 0 2

----|-----------------

0| 0 2

dest 1| 1 1

2| 2 0

There is an update in the distance table

Sending node 3's directly connected neighbor its mincost

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

The shortest distance to each Node is following:

Node#0: 2, Node#1: 1, Node#2: 2, Node#3: 2

The Node from which the distance is the shortest:

Node#2, Node#0, Node#0, Node#2

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

via

D0 | 0 1 2 3

----|----------------------

0| 0 9999 2 4

1| 1 9999 1 3

dest 2| 2 9999 0 2

3| 4 9999 2 0

------------------------------------------------------------------------

MAIN: rcv event, t=4.198, at 2 src: 1, dest: 2, contents: 1 0 1 8

System is updating Node#2 at Time 4.198248

UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU

updating costs table: cost[3][1] = minc[3]= 8

via

D2 | 0 1 3

----|-----------------

0| 0 1 7

dest 1| 1 0 8

3| 7 8 0

There is no change in the distance table

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

The shortest distance to each Node is following:

Node#0: 1, Node#1: 1, Node#2: 1, Node#3: 2

The Node from which the distance is the shortest:

Node#1, Node#0, Node#1, Node#2

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

via

D0 | 0 1 2 3

----|----------------------

0| 0 1 2 7

1| 1 0 1 8

dest 2| 10 1 0 2

3| 7 8 2 0

------------------------------------------------------------------------

MAIN: rcv event, t=4.519, at 1 src: 0, dest: 1, contents: 0 1 2 4

System is updating Node#1 at Time 4.519059

UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU

updating costs table: cost[3][0] = minc[3]= 4

via

D1 | 0 2

----|-----------------

0| 0 10

dest 2| 2 0

3| 4 2

There is no change in the distance table

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

The shortest distance to each Node is following:

Node#0: 1, Node#1: 1, Node#2: 1, Node#3: 2

The Node from which the distance is the shortest:

Node#1, Node#0, Node#1, Node#2

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

via

D0 | 0 1 2 3

----|----------------------

0| 0 1 10 9999

1| 1 0 1 9999

dest 2| 2 1 0 9999

3| 4 3 2 9999

------------------------------------------------------------------------

MAIN: rcv event, t=4.635, at 0 src: 2, dest: 0, contents: 2 1 0 2

System is updating Node#0 at Time 4.634663

UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU

updating costs table: cost[0][2] = minc[0]= 2

via

D0 | 1 2 3

----|-----------------

1| 0 1 8

dest 2| 1 0 2

3| 8 2 0

There is no change in the distance table

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

The shortest distance to each Node is following:

Node#0: 1, Node#1: 1, Node#2: 1, Node#3: 2

The Node from which the distance is the shortest:

Node#1, Node#0, Node#1, Node#2

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

via

D0 | 0 1 2 3

----|----------------------

0| 0 1 2 7

1| 1 0 1 8

dest 2| 2 1 0 2

3| 4 8 2 0

------------------------------------------------------------------------

MAIN: rcv event, t=5.096, at 1 src: 2, dest: 1, contents: 2 1 0 2

System is updating Node#1 at Time 5.095920

UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU

updating costs table: cost[0][2] = minc[0]= 2

via

D1 | 0 2

----|-----------------

0| 0 2

dest 2| 2 0

3| 4 2

There is no change in the distance table

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

The shortest distance to each Node is following:

Node#0: 1, Node#1: 1, Node#2: 1, Node#3: 2

The Node from which the distance is the shortest:

Node#1, Node#0, Node#1, Node#2

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

via

D0 | 0 1 2 3

----|----------------------

0| 0 1 2 9999

1| 1 0 1 9999

dest 2| 2 1 0 9999

3| 4 3 2 9999

------------------------------------------------------------------------

MAIN: rcv event, t=5.673, at 0 src: 3, dest: 0, contents: 7 3 2 0

System is updating Node#0 at Time 5.672903

UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU

updating costs table: cost[1][3] = minc[1]= 3

via

D0 | 1 2 3

----|-----------------

1| 0 1 3

dest 2| 1 0 2

3| 8 2 0

There is no change in the distance table

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

The shortest distance to each Node is following:

Node#0: 1, Node#1: 1, Node#2: 1, Node#3: 2

The Node from which the distance is the shortest:

Node#1, Node#0, Node#1, Node#2

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

via

D0 | 0 1 2 3

----|----------------------

0| 0 1 2 7

1| 1 0 1 3

dest 2| 2 1 0 2

3| 4 8 2 0

------------------------------------------------------------------------

MAIN: rcv event, t=5.772, at 2 src: 0, dest: 2, contents: 0 1 2 7

System is updating Node#2 at Time 5.772210

UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU

updating costs table: cost[2][0] = minc[2]= 2

via

D2 | 0 1 3

----|-----------------

0| 0 1 7

dest 1| 1 0 8

3| 7 8 0

There is no change in the distance table

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

The shortest distance to each Node is following:

Node#0: 1, Node#1: 1, Node#2: 1, Node#3: 2

The Node from which the distance is the shortest:

Node#1, Node#0, Node#1, Node#2

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

via

D0 | 0 1 2 3

----|----------------------

0| 0 1 2 7

1| 1 0 1 8

dest 2| 2 1 0 2

3| 7 8 2 0

------------------------------------------------------------------------

MAIN: rcv event, t=5.858, at 2 src: 0, dest: 2, contents: 0 1 2 4

System is updating Node#2 at Time 5.858333

UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU

updating costs table: cost[3][0] = minc[3]= 4

via

D2 | 0 1 3

----|-----------------

0| 0 1 7

dest 1| 1 0 8

3| 4 8 0

There is no change in the distance table

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

The shortest distance to each Node is following:

Node#0: 1, Node#1: 1, Node#2: 1, Node#3: 2

The Node from which the distance is the shortest:

Node#1, Node#0, Node#1, Node#2

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

via

D0 | 0 1 2 3

----|----------------------

0| 0 1 2 7

1| 1 0 1 8

dest 2| 2 1 0 2

3| 4 8 2 0

------------------------------------------------------------------------

MAIN: rcv event, t=7.520, at 0 src: 1, dest: 0, contents: 1 0 1 3

System is updating Node#0 at Time 7.520188

UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU

updating costs table: cost[3][1] = minc[3]= 3

via

D0 | 1 2 3

----|-----------------

1| 0 1 3

dest 2| 1 0 2

3| 3 2 0

There is no change in the distance table

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

The shortest distance to each Node is following:

Node#0: 1, Node#1: 1, Node#2: 1, Node#3: 2

The Node from which the distance is the shortest:

Node#1, Node#0, Node#1, Node#2

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

via

D0 | 0 1 2 3

----|----------------------

0| 0 1 2 7

1| 1 0 1 3

dest 2| 2 1 0 2

3| 4 3 2 0

------------------------------------------------------------------------

MAIN: rcv event, t=7.850, at 2 src: 3, dest: 2, contents: 7 3 2 0

System is updating Node#2 at Time 7.849666

UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU

updating costs table: cost[1][3] = minc[1]= 3

via

D2 | 0 1 3

----|-----------------

0| 0 1 7

dest 1| 1 0 3

3| 4 8 0

There is no change in the distance table

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

The shortest distance to each Node is following:

Node#0: 1, Node#1: 1, Node#2: 1, Node#3: 2

The Node from which the distance is the shortest:

Node#1, Node#0, Node#1, Node#2

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

via

D0 | 0 1 2 3

----|----------------------

0| 0 1 2 7

1| 1 0 1 3

dest 2| 2 1 0 2

3| 4 8 2 0

------------------------------------------------------------------------

MAIN: rcv event, t=9.057, at 0 src: 3, dest: 0, contents: 4 3 2 0

System is updating Node#0 at Time 9.056795

UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU

updating costs table: cost[0][3] = minc[0]= 4

via

D0 | 1 2 3

----|-----------------

1| 0 1 3

dest 2| 1 0 2

3| 3 2 0

There is no change in the distance table

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

The shortest distance to each Node is following:

Node#0: 1, Node#1: 1, Node#2: 1, Node#3: 2

The Node from which the distance is the shortest:

Node#1, Node#0, Node#1, Node#2

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

via

D0 | 0 1 2 3

----|----------------------

0| 0 1 2 4

1| 1 0 1 3

dest 2| 2 1 0 2

3| 4 3 2 0

------------------------------------------------------------------------

MAIN: rcv event, t=9.197, at 2 src: 1, dest: 2, contents: 1 0 1 3

System is updating Node#2 at Time 9.196753

UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU

updating costs table: cost[3][1] = minc[3]= 3

via

D2 | 0 1 3

----|-----------------

0| 0 1 7

dest 1| 1 0 3

3| 4 3 0

There is no change in the distance table

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

The shortest distance to each Node is following:

Node#0: 1, Node#1: 1, Node#2: 1, Node#3: 2

The Node from which the distance is the shortest:

Node#1, Node#0, Node#1, Node#2

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

via

D0 | 0 1 2 3

----|----------------------

0| 0 1 2 7

1| 1 0 1 3

dest 2| 2 1 0 2

3| 4 3 2 0

------------------------------------------------------------------------

MAIN: rcv event, t=10.670, at 2 src: 3, dest: 2, contents: 4 3 2 0

System is updating Node#2 at Time 10.670309

UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU

updating costs table: cost[0][3] = minc[0]= 4

via

D2 | 0 1 3

----|-----------------

0| 0 1 4

dest 1| 1 0 3

3| 4 3 0

There is no change in the distance table

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

The shortest distance to each Node is following:

Node#0: 1, Node#1: 1, Node#2: 1, Node#3: 2

The Node from which the distance is the shortest:

Node#1, Node#0, Node#1, Node#2

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

via

D0 | 0 1 2 3

----|----------------------

0| 0 1 2 4

1| 1 0 1 3

dest 2| 2 1 0 2

3| 4 3 2 0

------------------------------------------------------------------------

Simulator terminated at t=10.670309, no packets in medium

Simulator terminated at time 10.670308542130803