1. *Overall Design And How It Works*
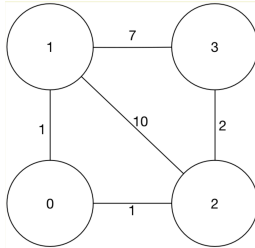
    a. The program is a "distributed" set of procedures that implement a distributed distance vector routing for the network shown in Figure.

    b. The program is edited from the skeleton code that professor provided. Three procedures I wrote are rtinit(), rtupdate() and rtlinkhandler() which together implemented a distributed, asynchronous computation of the distance tables for the topology and costs shown in figure. It allows link cost change and follows split horizon with poison reverse heuristic.

    c. With tracing value of 1 or 2, the output will have useful information about what is going on inside the emulation. A tracing value of 0 will turn this off. Seed is the seed of the pseudo-random generator used by the simulator.

    d. For more information of functions, see in-code comments.

2. *Compilation instructions*

    This is the Java Version of the program.
    To compile: javac *.java
    To run: java Project3
    To clean up: rm -rf *- *.class

3. *Sample output*

```
Network Simulator v1.0
Enter trace level (>= 0): [0] 2
Enter seed (>= 0): [3322] 2

Function rtinit() has been called at t=0.000000 to initialize node 0.

A packet has been sent from node 0 to node 1, contents = 0 1 1 9999
A packet has been sent from node 0 to node 2, contents = 0 1 1 9999

Distance table of node 0 is:
         via
   D0  |   1    2
   ----|------------------
      1|   1   9999
dest  2| 9999   1
      3| 9999 9999

Function rtinit() has been called at t=0.000000 to initialize node 1.

A packet has been sent from node 1 to node 0, contents = 1 0 10 7
```

```
A packet has been sent from node 1 to node 2, contents = 1 0 10 7
A packet has been sent from node 1 to node 3, contents = 1 0 10 7


Distance table of node 1 is:
        via
   D1 | 0    2    3
  ----|----------------
     0|   1  9999 9999
dest 2| 9999  10  9999
     3| 9999 9999   7


Function rtinit() has been called at t=0.000000 to initialize node 2.

A packet has been sent from node 2 to node 0, contents = 1 10 0 2
A packet has been sent from node 2 to node 1, contents = 1 10 0 2
A packet has been sent from node 2 to node 3, contents = 1 10 0 2


Distance table of node 2 is:
        via
    D2 | 0    1    3
   ----|----------------
      0|   1  9999 9999
dest  1| 9999  10  9999
      3| 9999 9999   2


Function rtinit() has been called at t=0.000000 to initialize node 3.

A packet has been sent from node 3 to node 1, contents = 9999 7 2 0
A packet has been sent from node 3 to node 2, contents = 9999 7 2 0


Distance table of node 3 is:
        via
    D3 | 1    2
   ----|----------------
      0| 9999 9999
dest  1|   7  9999
      2| 9999   2
MAIN: rcv event, t=0.055, at 1 src: 0, dest: 1, contents: 0 9999 1 9999
Distance table has been updated.


Distance table of node 1 is:
        via
    D1 | 0    2    3
   ----|----------------
      0|   1  9999 9999
dest  2|   2   10  9999
      3| 9999 9999   7


A packet has been sent from node 1 to node 0, contents = 9999 0 9999 7
A packet has been sent from node 1 to node 2, contents = 1 0 2 7
A packet has been sent from node 1 to node 3, contents = 1 0 2 9999
MAIN: rcv event, t=0.625, at 0 src: 1, dest: 0, contents: 9999 0 10 7
Distance table has been updated.


Distance table of node 0 is:
          via
    D0 | 1    2
```

```
   ----|-----------------
      1|   1   9999
dest  2|   11    1
      3|   8   9999
```

```
A packet has been sent from node 0 to node 1, contents = 0 9999 1 9999
A packet has been sent from node 0 to node 2, contents = 0 1 9999 8
MAIN: rcv event, t=1.393, at 2 src: 0, dest: 2, contents: 0 1 9999 9999
Distance table has been updated.
```

```
Distance table of node 2 is:
         via
    D2 |  0    1    3
   ----|-----------------
      0|  1   9999 9999
dest  1|  2    10  9999
      3| 9999 9999   2
```

```
A packet has been sent from node 2 to node 0, contents = 9999 9999 0 2
A packet has been sent from node 2 to node 1, contents = 1 2 0 2
A packet has been sent from node 2 to node 3, contents = 1 2 0 9999
MAIN: rcv event, t=1.577, at 3 src: 1, dest: 3, contents: 1 0 10 9999
Distance table has been updated.
```

```
Distance table of node 3 is:
         via
    D3 |  1    2
   ----|-----------------
      0|  8   9999
dest  1|  7   9999
      2|  17    2
```

```
A packet has been sent from node 3 to node 1, contents = 9999 9999 2 0
A packet has been sent from node 3 to node 2, contents = 8 7 9999 0
MAIN: rcv event, t=1.885, at 1 src: 2, dest: 1, contents: 1 9999 0 2
Distance table has been updated.
```

```
Distance table of node 1 is:
         via
    D1 |  0    2    3
   ----|-----------------
      0|  1    11  9999
dest  2|  2    10  9999
      3| 9999  12    7
```

```
MAIN: rcv event, t=2.181, at 2 src: 1, dest: 2, contents: 1 0 9999 7
Distance table has been updated.
```

```
Distance table of node 2 is:
         via
    D2 |  0    1    3
   ----|-----------------
      0|  1    11  9999
dest  1|  2    10  9999
      3| 9999  17    2
```

```
MAIN: rcv event, t=2.279, at 0 src: 2, dest: 0, contents: 9999 10 0 2
```

```
Distance table has been updated.

Distance table of node 0 is:
        via
    D0 |  1    2
   ----|----------------
      1|  1   11
dest  2| 11    1
      3|  8    3

A packet has been sent from node 0 to node 1, contents = 0 9999 1 3
A packet has been sent from node 0 to node 2, contents = 0 1 9999 9999
MAIN: rcv event, t=3.124, at 1 src: 3, dest: 1, contents: 9999 9999 2 0
Distance table has been updated.

Distance table of node 1 is:
        via
    D1 |  0    2    3
   ----|----------------
      0|  1   11  9999
dest  2|  2   10    9
      3| 9999 12    7

MAIN: rcv event, t=3.278, at 3 src: 2, dest: 3, contents: 1 10 0 9999
Distance table has been updated.

Distance table of node 3 is:
        via
    D3 |  1    2
   ----|----------------
      0|  8    3
dest  1|  7   12
      2| 17    2

A packet has been sent from node 3 to node 1, contents = 3 9999 2 0
A packet has been sent from node 3 to node 2, contents = 9999 7 9999 0
MAIN: rcv event, t=3.866, at 0 src: 1, dest: 0, contents: 9999 0 9999 7
Distance table has been updated.

Distance table of node 0 is:
        via
    D0 |  1    2
   ----|----------------
      1|  1   11
dest  2| 9999   1
      3|  8    3

MAIN: rcv event, t=4.001, at 1 src: 0, dest: 1, contents: 0 9999 1 9999
Distance table has not been updated.

Distance table of node 1 is:
        via
    D1 |  0    2    3
   ----|----------------
      0|  1   11  9999
dest  2|  2   10    9
      3| 9999 12    7
```

```
MAIN: rcv event, t=4.041, at 3 src: 1, dest: 3, contents: 1 0 2 9999
Distance table has been updated.

Distance table of node 3 is:
         via
    D3 |  1    2
   ----|----------------
      0|  8    3
dest 1|  7   12
      2|  9    2
```

```
MAIN: rcv event, t=4.167, at 2 src: 3, dest: 2, contents: 9999 7 9999 0
Distance table has been updated.

Distance table of node 2 is:
         via
    D2 |  0    1    3
   ----|----------------
      0|  1   11  9999
dest 1|  2   10    9
      3| 9999 17    2
```

```
MAIN: rcv event, t=4.428, at 0 src: 2, dest: 0, contents: 9999 9999 0 2
Distance table has been updated.

Distance table of node 0 is:
         via
    D0 |  1    2
   ----|----------------
      1|  1   9999
dest 2| 9999   1
      3|  8    3
```

```
MAIN: rcv event, t=5.026, at 3 src: 2, dest: 3, contents: 1 2 0 9999
Distance table has been updated.

Distance table of node 3 is:
         via
    D3 |  1    2
   ----|----------------
      0|  8    3
dest 1|  7    4
      2|  9    2
```

```
A packet has been sent from node 3 to node 1, contents = 3 4 2 0
A packet has been sent from node 3 to node 2, contents = 9999 9999 9999 0
MAIN: rcv event, t=5.088, at 1 src: 2, dest: 1, contents: 1 2 0 2
Distance table has not been updated.

Distance table of node 1 is:
         via
    D1 |  0    2    3
   ----|----------------
      0|  1   11  9999
dest 2|  2   10    9
      3| 9999 12    7
```

```
MAIN: rcv event, t=5.228, at 1 src: 3, dest: 1, contents: 9999 9999 2 0
Distance table has not been updated.


Distance table of node 1 is:
        via
    D1 | 0    2    3
   ----|-----------------
     0|  1   11  9999
dest 2|  2   10   9
     3| 9999 12   7


MAIN: rcv event, t=5.269, at 1 src: 0, dest: 1, contents: 0 9999 1 3
Distance table has been updated.


Distance table of node 1 is:
        via
    D1 | 0    2    3
   ----|-----------------
     0|  1   11  9999
dest 2|  2   10   9
     3|  4   12   7


A packet has been sent from node 1 to node 0, contents = 9999 0 9999 9999
A packet has been sent from node 1 to node 2, contents = 1 0 2 4
A packet has been sent from node 1 to node 3, contents = 1 0 2 4
MAIN: rcv event, t=6.074, at 2 src: 1, dest: 2, contents: 1 0 2 7
Distance table has not been updated.


Distance table of node 2 is:
        via
    D2 | 0    1    3
   ----|-----------------
     0|  1   11  9999
dest 1|  2   10   9
     3| 9999 17   2


MAIN: rcv event, t=6.216, at 3 src: 1, dest: 3, contents: 1 0 2 4
Distance table has not been updated.
```

```
MAIN: rcv event, t=6.363, at 1 src: 3, dest: 1, contents: 3 9999 2 0
Distance table has been updated.


Distance table of node 1 is:
        via
    D1 | 0    2    3
```

```
      ----|-----------------
      0|   1   11   10
dest 2|   2   10    9
      3|   4   12    7
```

MAIN: rcv event, t=6.457, at 0 src: 1, dest: 0, contents: 9999 0 9999 9999
Distance table has been updated.

//final distance table for node 0 before link cost changes
/***
Distance table of node 0 is:
         via
D0	1 2
1| 1 9999
dest 2| 9999   1
3| 9999   3
***/

MAIN: rcv event, t=6.721, at 2 src: 0, dest: 2, contents: 0 1 9999 8
Distance table has been updated.

Distance table of node 2 is:
         via
D2	0 1 3
0| 1   11 9999
dest 1| 2   10   9
3| 9   17   2

MAIN: rcv event, t=6.764, at 2 src: 3, dest: 2, contents: 8 7 9999 0
Distance table has been updated.

Distance table of node 2 is:
       via
D2	0 1 3
0| 1   11   10
dest 1| 2   10   9
3| 9   17   2

MAIN: rcv event, t=6.871, at 2 src: 0, dest: 2, contents: 0 1 9999 9999
Distance table has been updated.

Distance table of node 2 is:
         via
D2	0 1 3
0| 1   11   10
dest 1| 2   10   9
3| 9999 17   2

MAIN: rcv event, t=7.792, at 1 src: 3, dest: 1, contents: 3 4 2 0
Distance table has not been updated.

//final distance table of node 1 before link cost changes
/***

7

```
Distance table of node 1 is:
        via
   D1 |  0    2    3
  ----|-----------------
     0|  1   11   10
dest 2|  2   10    9
     3|  4   12    7
*********************************************************/

MAIN: rcv event, t=8.698, at 2 src: 3, dest: 2, contents: 9999 7 9999 0
Distance table has been updated.


Distance table of node 2 is:
        via
   D2 |  0    1    3
  ----|-----------------
     0|  1   11  9999
dest 1|  2   10    9
     3| 9999  17    2


MAIN: rcv event, t=9.708, at 2 src: 3, dest: 2, contents: 9999 9999 9999 0
Distance table has been updated.


Distance table of node 2 is:
        via
   D2 |  0    1    3
  ----|-----------------
     0|  1   11  9999
dest 1|  2   10  9999
     3| 9999  17    2


MAIN: rcv event, t=9.896, at 2 src: 1, dest: 2, contents: 1 0 2 4
Distance table has been updated.


//final distance table of node 2 before link cost changes
/*********************************************************
Distance table of node 2 is:
        via
  D2 |  0    1    3
  ----|-----------------
    0|  1   11  9999
dest 1|  2   10  9999
    3| 9999  14    2
*********************************************************/

MAIN: rcv event, t=10000.000, at -1
Function linkhandler() has been called at t=10000.000000 for node 0 since link cost
   from node 0 to 1 has been changed to 20.


Distance table has been updated.


Distance table of node 0 is:
       via
   D0 |  1    2
  ----|-----------------
     1| 20  9999
```

```
dest  2| 9999   1
      3| 9999   3


A packet has been sent from node 0 to node 1, contents = 0 9999 1 3
A packet has been sent from node 0 to node 2, contents = 0 20 9999 9999
Function linkhandler() has been called at t=10000.000000 for node 1 since link cost
    from node 1 to 0 has been changed to 20.


Distance table has been updated.



Distance table of node 1 is:
        via
    D1 |  0    2    3
   ----|-----------------
      0|  20   11   10
dest  2| 9999  10    9
      3| 9999  12    7

A packet has been sent from node 1 to node 0, contents = 10 0 9 7
A packet has been sent from node 1 to node 2, contents = 10 0 9 7
A packet has been sent from node 1 to node 3, contents = 9999 0 9999 9999MAIN: rcv
    event, t=10000.796, at 1 src: 0, dest: 1, contents: 0 9999 1 3
Distance table has been updated.

Distance table of node 1 is:
        via
    D1 |  0    2    3
   ----|-----------------
      0|  20   11   10
dest  2|  21   10    9
      3|  23   12    7

MAIN: rcv event, t=10001.503, at 3 src: 1, dest: 3, contents: 9999 0 9999 9999
Distance table has been updated.

Distance table of node 3 is:
        via
    D3 |  1    2
   ----|-----------------
      0| 9999   3
dest  1|  7     4
      2| 9999   2

MAIN: rcv event, t=10001.695, at 2 src: 0, dest: 2, contents: 0 20 9999 9999
Distance table has been updated.

Distance table of node 2 is:
        via
    D2 |  0    1    3
   ----|-----------------
      0|  1    11   9999
dest  1|  21   10   9999
      3| 9999  14    2

A packet has been sent from node 2 to node 0, contents = 9999 10 0 2
A packet has been sent from node 2 to node 1, contents = 1 9999 0 2
```

9

```
A packet has been sent from node 2 to node 3, contents = 1 10 0 9999
MAIN: rcv event, t=10001.915, at 0 src: 1, dest: 0, contents: 10 0 9 7
Distance table has been updated.


Distance table of node 0 is:
        via
    D0 |  1    2
   ----|----------------
     1|  20  9999
dest 2|  29   1
     3|  27   3


MAIN: rcv event, t=10002.221, at 3 src: 2, dest: 3, contents: 1 10 0 9999
Distance table has been updated.


Distance table of node 3 is:
        via
    D3 |  1    2
   ----|----------------
     0| 9999  3
dest 1|  7   12
     2| 9999  2


A packet has been sent from node 3 to node 1, contents = 3 9999 2 0
A packet has been sent from node 3 to node 2, contents = 9999 7 9999 0
MAIN: rcv event, t=10002.457, at 0 src: 2, dest: 0, contents: 9999 10 0 2
Distance table has been updated.


Distance table of node 0 is:
        via
    D0 |  1    2
   ----|----------------
     1|  20  11
dest 2|  29   1
     3|  27   3


A packet has been sent from node 0 to node 1, contents = 0 11 1 3
A packet has been sent from node 0 to node 2, contents = 0 9999 9999 9999
MAIN: rcv event, t=10002.909, at 1 src: 2, dest: 1, contents: 1 9999 0 2
Distance table has not been updated.


Distance table of node 1 is:
        via
    D1 |  0    2    3
   ----|----------------
     0|  20  11   10
dest 2|  21  10    9
     3|  23  12    7


MAIN: rcv event, t=10003.078, at 2 src: 1, dest: 2, contents: 10 0 9 7
Distance table has been updated.


Distance table of node 2 is:
        via
    D2 |  0    1    3
   ----|----------------
     0|  1   20  9999
```

10

```
dest  1|  21   10  9999
      3| 9999  17    2


MAIN: rcv event, t=10003.514, at 2 src: 3, dest: 2, contents: 9999 7 9999 0
Distance table has been updated.

Distance table of node 2 is:
        via
    D2 |  0    1    3
   ----|-----------------
      0|  1    20  9999
dest  1|  21   10    9
      3| 9999  17    2


A packet has been sent from node 2 to node 0, contents = 9999 9 0 2
A packet has been sent from node 2 to node 1, contents = 1 9 0 2
A packet has been sent from node 2 to node 3, contents = 1 9999 0 9999
MAIN: rcv event, t=10003.537, at 1 src: 3, dest: 1, contents: 3 9999 2 0
Distance table has not been updated.

Distance table of node 1 is:
       via
    D1 |  0    2    3
   ----|-----------------
      0|  20   11   10
dest  2|  21   10    9
      3|  23   12    7


MAIN: rcv event, t=10003.553, at 1 src: 0, dest: 1, contents: 0 11 1 3
Distance table has not been updated.

Distance table of node 1 is:
        via
    D1 |  0    2    3
   ----|-----------------
      0|  20   11   10
dest  2|  21   10    9
      3|  23   12    7


MAIN: rcv event, t=10003.745, at 2 src: 0, dest: 2, contents: 0 9999 9999 9999
Distance table has been updated.

Distance table of node 2 is:
        via
    D2 |  0    1    3
   ----|-----------------
      0|  1    20  9999
dest  1| 9999  10    9
      3| 9999  17    2


MAIN: rcv event, t=10004.351, at 3 src: 2, dest: 3, contents: 1 9999 0 9999
Distance table has been updated.
```

//final distance table for node 3 after link cost changes
/***
Distance table of node 3 is:
        via

```
    D3 |  1    2
   ----|----------------
     0| 9999   3
dest 1|   7  9999
     2| 9999   2
*********************************************************/

MAIN: rcv event, t=10004.758, at 0 src: 2, dest: 0, contents: 9999 9 0 2
Distance table has been updated.

//final distance table for node 0 after link cost changes
/********************************************************
Distance table of node 0 is:
         via
    D0 |  1    2
   ----|----------------
     1| 20   10
dest 2| 29    1
     3| 27    3
*********************************************************/

A packet has been sent from node 0 to node 1, contents = 0 10 1 3
A packet has been sent from node 0 to node 2, contents = 0 9999 9999 9999
MAIN: rcv event, t=10005.182, at 2 src: 0, dest: 2, contents: 0 9999 9999 9999
Distance table has not been updated.

//final distance table for node 2 after link cost changes
/********************************************************
Distance table of node 2 is:
         via
    D2 |  0    1    3
   ----|------------------
     0|   1   20  9999
dest 1| 9999  10    9
     3| 9999  17    2
*********************************************************/

MAIN: rcv event, t=10005.526, at 1 src: 2, dest: 1, contents: 1 9 0 2
Distance table has not been updated.

Distance table of node 1 is:
         via
    D1 |  0    2    3
   ----|------------------
     0| 20   11   10
dest 2| 21   10    9
     3| 23   12    7

MAIN: rcv event, t=10005.597, at 1 src: 0, dest: 1, contents: 0 10 1 3
Distance table has not been updated.

//final distance table for node 1 after link cost changes
/********************************************************
Distance table of node 1 is:
         via
    D1 |  0    2    3
   ----|------------------
```

```
        0|  20   11   10
dest  2|  21   10    9
        3|  23   12    7
*********************************************************/
```

```
MAIN: rcv event, t=20000.000, at -1
Function linkhandler() has been called at t=20000.000000 for node 0 since link cost
    from node 0 to 1 has been changed to 1.

Distance table has been updated.


Distance table of node 0 is:
        via
    D0 |  1    2
    ----|----------------
      1|   1   10
dest  2| 9999   1
      3| 9999   3

A packet has been sent from node 0 to node 1, contents = 0 9999 1 3
A packet has been sent from node 0 to node 2, contents = 0 1 9999 9999
Function linkhandler() has been called at t=20000.000000 for node 1 since link cost
    from node 1 to 0 has been changed to 1.

Distance table has been updated.


Distance table of node 1 is:
        via
    D1 |  0    2    3
    ----|----------------
      0|   1   11   10
dest  2| 9999  10    9
      3| 9999  12    7

A packet has been sent from node 1 to node 0, contents = 9999 0 9 7
A packet has been sent from node 1 to node 2, contents = 1 0 9 7
A packet has been sent from node 1 to node 3, contents = 1 0 9999 9999MAIN: rcv
    event, t=20000.019, at 3 src: 1, dest: 3, contents: 1 0 9999 9999
Distance table has been updated.

Distance table of node 3 is:
        via
    D3 |  1    2
    ----|----------------
      0|   8    3
dest  1|   7  9999
      2| 9999   2

MAIN: rcv event, t=20000.022, at 0 src: 1, dest: 0, contents: 9999 0 9 7
Distance table has been updated.

Distance table of node 0 is:
        via
    D0 |  1    2
    ----|----------------
```

```
    1|   1   10
dest 2|  10    1
    3|   8    3


MAIN: rcv event, t=20000.421, at 2 src: 0, dest: 2, contents: 0 1 9999 9999
Distance table has been updated.

Distance table of node 2 is:
        via
    D2 |  0    1    3
   ----|-----------------
     0|   1   20  9999
dest 1|   2   10    9
     3| 9999  17    2


A packet has been sent from node 2 to node 0, contents = 9999 9999 0 2
A packet has been sent from node 2 to node 1, contents = 1 2 0 2
A packet has been sent from node 2 to node 3, contents = 1 2 0 9999
MAIN: rcv event, t=20000.699, at 1 src: 0, dest: 1, contents: 0 9999 1 3
Distance table has been updated.

Distance table of node 1 is:
        via
    D1 |  0    2    3
   ----|-----------------
     0|   1   11   10
dest 2|   2   10    9
     3|   4   12    7


A packet has been sent from node 1 to node 0, contents = 9999 0 9999 9999
A packet has been sent from node 1 to node 2, contents = 1 0 2 4
A packet has been sent from node 1 to node 3, contents = 1 0 2 4
MAIN: rcv event, t=20001.739, at 0 src: 2, dest: 0, contents: 9999 9999 0 2
Distance table has been updated.

Distance table of node 0 is:
        via
    D0 |  1    2
   ----|-----------------
     1|   1  9999
dest 2|  10    1
     3|   8    3


MAIN: rcv event, t=20002.052, at 2 src: 1, dest: 2, contents: 1 0 9 7
Distance table has been updated.

Distance table of node 2 is:
        via
    D2 |  0    1    3
   ----|-----------------
     0|   1   11  9999
dest 1|   2   10    9
     3| 9999  17    2


MAIN: rcv event, t=20002.211, at 3 src: 2, dest: 3, contents: 1 2 0 9999
Distance table has been updated.
```

14

```
Distance table of node 3 is:
        via
    D3 |  1    2
    ----|----------------
      0|  8    3
dest  1|  7    4
      2| 9999  2


A packet has been sent from node 3 to node 1, contents = 3 4 2 0
A packet has been sent from node 3 to node 2, contents = 9999 9999 9999 0
MAIN: rcv event, t=20002.309, at 1 src: 2, dest: 1, contents: 1 2 0 2
Distance table has not been updated.

Distance table of node 1 is:
        via
    D1 |  0    2    3
    ----|----------------
      0|  1    11   10
dest  2|  2    10   9
      3|  4    12   7

MAIN: rcv event, t=20002.679, at 0 src: 1, dest: 0, contents: 9999 0 9999 9999
Distance table has been updated.
```

//final distance table for node 0 after link cost changes back
/***
```
Distance table of node 0 is:
        via
    D0 |  1    2
    ----|----------------
      1|  1   9999
dest  2| 9999   1
      3| 9999   3
```
***/

```
MAIN: rcv event, t=20003.013, at 1 src: 3, dest: 1, contents: 3 4 2 0
Distance table has not been updated.
```

//final distance table for node 1 after link cost changes back
/***
```
Distance table of node 1 is:
        via
    D1 |  0    2    3
    ----|----------------
      0|  1    11   10
dest  2|  2    10   9
      3|  4    12   7
```
***/

```
MAIN: rcv event, t=20003.661, at 2 src: 1, dest: 2, contents: 1 0 2 4
Distance table has been updated.

Distance table of node 2 is:
        via
    D2 |  0    1    3
    ----|----------------
      0|  1    11  9999
```

```
dest  1|  2   10   9
      3| 9999  14   2


MAIN: rcv event, t=20004.166, at 3 src: 1, dest: 3, contents: 1 0 2 4
Distance table has been updated.


//final distance table for node 3 after link cost changes back
/*************************************************************
Distance table of node 3 is:
         via
    D3 |  1    2
    ----|-----------------
      0|  8    3
dest  1|  7    4
      2|  9    2
*************************************************************/


MAIN: rcv event, t=20004.197, at 2 src: 3, dest: 2, contents: 9999 9999 9999 0
Distance table has been updated.



//final distance table for node 2 after link cost changes back
/*************************************************************
Distance table of node 2 is:
         via
    D2 |  0    1    3
    ----|-----------------
      0|  1   11  9999
dest  1|  2   10  9999
      3| 9999  14   2
*************************************************************/


Simulator terminated at t=20004.196844, no packets in medium
Simulator terminated at time 20004.196844386122
```