```
Enter TRACE: INITIALIZE NODE: Initializing Node 0 at Time 0.000000
INITIALIZE NODE: Initializing Node 1 at Time 0.000000
INITIALIZE NODE: Initializing Node 2 at Time 0.000000
INITIALIZE NODE: Initializing Node 3 at Time 0.000000
MAIN: rcv event, t=0.947, at 3 src: 0, dest: 3, contents: 0 1 3 7
UPDATE NODE: Node 3 received an update message from 0 at time 0.946640
UPDATE NODE: Node 3, changes were made to distance table
UPDATE NODE: Node 3, There is a new minimum path to a node, sending new miniumum path data
to our neighbors
Node 3 Distance table
      TO
VIA
      0
                    2
             1
                          3
      7
             8
0
                    10
                          14
      999
             999
                          999
1
                    999
                          999
2
      999
             999
                    999
3
      7
             999
                    2
                          0
Node 3 min costs
                    2
                          3
TO
      0
             1
                          0
UPDATE NODE: Node 3, The distance table at the end of the update,
Node 3 Distance table
VIA
      TO
      0
             1
                    2
                          3
      7
0
             8
                    10
                          14
      999
             999
                    999
                          999
1
             999
                          999
2
      999
                    999
             999
3
      7
                    2
UPDATE NODE: Node 3, The minimum path values at the end of the update,
TO
      0
             1
                    2
                          0
MAIN: rcv event, t=0.992, at 0 src: 1, dest: 0, contents: 1 0 1 999
UPDATE NODE: Node 0 received an update message from 1 at time 0.992243
UPDATE NODE: Node 0, changes were made to distance table
UPDATE NODE: Node 0, There is a new minimum path to a node, sending new miniumum path data
to our neighbors
Node 0 Distance table
      TO
VIA
      0
                    2
                          3
             1
0
      0
             1
                    3
                          7
                          999
      2
                    2
1
             1
2
      999
             999
                    999
                          999
      999
             999
                    999
                          999
3
Node 0 min costs
                    2
                          3
TO
      0
             1
UPDATE NODE: Node 0, The distance table at the end of the update,
Node 0 Distance table
VIA
      TO
      0
             1
                    2
                          3
```

```
0
      0
             1
                    3
                           7
                           999
1
      2
                    2
             1
      999
             999
                    999
                           999
2
      999
             999
                    999
                           999
3
UPDATE NODE: Node 0, The minimum path values at the end of the update,
TO
      0
                    2
             1
      0
             1
MAIN: rcv event, t=1.209, at 3 src: 2, dest: 3, contents: 3 1 0 2
UPDATE NODE: Node 3 received an update message from 2 at time 1.209223
UPDATE NODE: Node 3, changes were made to distance table
UPDATE NODE: Node 3, There is a new minimum path to a node, sending new miniumum path data
to our neighbors
Node 3 Distance table
      TO
VIA
      0
                    2
                           3
             1
0
      7
             8
                    10
                           14
1
      999
             999
                    999
                          999
2
      5
             3
                    2
                           4
3
      7
             999
                    2
                           0
Node 3 min costs
                    2
                           3
TO
      0
             1
      5
             3
                    2
                           0
UPDATE NODE: Node 3, The distance table at the end of the update,
Node 3 Distance table
      TO
VIA
      0
             1
                    2
                           3
      7
0
             8
                    10
                           14
      999
             999
                    999
                           999
1
2
      5
             3
                    2
                           4
             999
                    2
                           0
UPDATE NODE: Node 3, The minimum path values at the end of the update,
TO
      0
             1
                    2
      5
             3
                           0
MAIN: rcv event, t=1.276, at 3 src: 0, dest: 3, contents: 0 1 2 7
UPDATE NODE: Node 3 received an update message from 0 at time 1.275716
UPDATE NODE: Node 3, changes were made to distance table
UPDATE NODE: Node 3, The distance table at the end of the update,
Node 3 Distance table
VIA
      TO
                    2
                           3
      0
             1
0
      7
             8
                    9
                           14
      999
             999
                    999
                           999
1
2
      5
             3
                    2
                           4
             999
                    2
                           0
UPDATE NODE: Node 3, The minimum path values at the end of the update,
TO
      0
             1
      5
             3
                    2
                           0
MAIN: rcv event, t=1.642, at 2 src: 0, dest: 2, contents: 0 1 3 7
```

UPDATE NODE: Node 2 received an update message from 0 at time 1.641910

```
UPDATE NODE: Node 2, changes were made to distance table
UPDATE NODE: Node 2, The distance table at the end of the update,
Node 2 Distance table
      TO
VIA
      0
                    2
                          3
             1
0
      3
             4
                          10
                    6
1
      999
             999
                    999
                          999
2
                          2
      3
                    0
      999
             999
                    999
                          999
3
UPDATE NODE: Node 2, The minimum path values at the end of the update,
                    0
                          2
      3
             1
MAIN: rcv event, t=1.871, at 1 src: 0, dest: 1, contents: 0 1 3 7
UPDATE NODE: Node 1 received an update message from 0 at time 1.870574
UPDATE NODE: Node 1, changes were made to distance table
UPDATE NODE: Node 1. There is a new minimum path to a node, sending new miniumum path data
to our neighbors
Node 1 Distance table
VIA
      TO
      0
                    2
                          3
             1
0
      1
             2
                          8
                    4
      1
             0
                          999
1
                    1
2
             999
                          999
      999
                    999
      999
             999
                    999
                          999
3
Node 1 min costs
                    2
                          3
TO
      0
             1
                          8
UPDATE NODE: Node 1, The distance table at the end of the update,
Node 1 Distance table
VIA
      TO
      0
                    2
                          3
             1
             2
0
      1
                    4
                          8
                          999
1
      1
             0
                    1
      999
             999
                    999
                          999
2
3
      999
             999
                    999
                          999
UPDATE NODE: Node 1, The minimum path values at the end of the update,
TO
             1
                    2
      0
      1
             0
                    1
                          8
MAIN: rcv event, t=1.933, at 0 src: 2, dest: 0, contents: 3 1 0 2
UPDATE NODE: Node 0 received an update message from 2 at time 1.932602
UPDATE NODE: Node 0, changes were made to distance table
UPDATE NODE: Node 0, There is a new minimum path to a node, sending new minimum path data
to our neighbors
Node 0 Distance table
      TO
VIA
      0
                          3
             1
                    2
```

```
999
3
             999
                    999
                           999
Node 0 min costs
TO
                    2
                           3
      0
              1
                           5
      0
UPDATE NODE: Node 0, The distance table at the end of the update,
Node 0 Distance table
VIA
      TO
      0
                    2
             1
                           3
0
      0
             1
                    3
                           7
      2
                    2
                           999
1
             1
2
             4
                    3
                           5
      6
      999
             999
                    999
                           999
3
UPDATE NODE: Node 0, The minimum path values at the end of the update,
                    2
                           5
      0
             1
MAIN: rcv event, t=2.166, at 2 src: 1, dest: 2, contents: 1 0 1 999
UPDATE NODE: Node 2 received an update message from 1 at time 2.165707
UPDATE NODE: Node 2, changes were made to distance table
UPDATE NODE: Node 2, There is a new minimum path to a node, sending new miniumum path data
to our neighbors
Node 2 Distance table
VIA
      TO
      0
             1
                    2
                           3
      3
0
             4
                    6
                           10
      2
                           999
1
             1
                    2
2
      3
             1
                    0
                           2
      999
             999
                    999
                           999
3
Node 2 min costs
TO
      0
              1
                    2
                           3
                    0
                           2
UPDATE NODE: Node 2, The distance table at the end of the update,
Node 2 Distance table
      TO
VIA
      0
             1
                    2
                           3
0
      3
             4
                    6
                           10
      2
                    2
                           999
1
             1
2
      3
                    0
                           2
             1
3
      999
             999
                    999
                           999
UPDATE NODE: Node 2, The minimum path values at the end of the update,
TO
             1
      2
             1
                    0
                           2
MAIN: rcv event, t=2.421, at 2 src: 3, dest: 2, contents: 7 999 2 0
UPDATE NODE: Node 2 received an update message from 3 at time 2.421268
UPDATE NODE: Node 2, changes were made to distance table
UPDATE NODE: Node 2, The distance table at the end of the update,
Node 2 Distance table
VIA
      TO
      0
                    2
                           3
             1
0
      3
             4
                           10
                    6
```

```
999
1
      2
             1
                    2
2
      3
                    0
                           2
             1
             999
3
      9
UPDATE NODE: Node 2, The minimum path values at the end of the update,
      2
                    0
             1
MAIN: rcv event, t=3.285, at 1 src: 2, dest: 1, contents: 3 1 0 2
UPDATE NODE: Node 1 received an update message from 2 at time 3.285052
UPDATE NODE: Node 1, changes were made to distance table
UPDATE NODE: Node 1, There is a new minimum path to a node, sending new miniumum path data
to our neighbors
Node 1 Distance table
VIA
      TO
                    2
                           3
      0
             1
0
      1
             2
                    4
                           8
1
      1
             0
                    1
                           999
2
             2
      4
                           3
      999
             999
                    999
                           999
3
Node 1 min costs
TO
                    2
                           3
      0
             1
                           3
             0
                    1
UPDATE NODE: Node 1, The distance table at the end of the update,
Node 1 Distance table
VIA
      TO
      0
             1
                    2
                           3
             2
                           8
0
      1
                    4
                           999
1
      1
             0
                    1
2
      4
             2
                           3
                    1
      999
             999
                    999
                           999
3
UPDATE NODE: Node 1, The minimum path values at the end of the update,
             0
                    1
                           3
       1
MAIN: rcv event, t=3.293, at 2 src: 3, dest: 2, contents: 7 8 2 0
UPDATE NODE: Node 2 received an update message from 3 at time 3.292663
UPDATE NODE: Node 2, changes were made to distance table
UPDATE NODE: Node 2, The distance table at the end of the update,
Node 2 Distance table
VIA
      TO
      0
                    2
                           3
             1
      3
                           10
0
             4
                    6
1
      2
             1
                    2
                           999
2
      3
                    0
                           2
             1
3
             10
                    4
UPDATE NODE: Node 2, The minimum path values at the end of the update,
TO
      0
             1
                    2
      2
             1
                    0
                           2
MAIN: rcv event, t=3.369, at 3 src: 0, dest: 3, contents: 0 1 2 5
```

UPDATE NODE: Node 3 received an update message from 0 at time 3.368805

UPDATE NODE: Node 3, changes were made to distance table

```
Node 3 Distance table
VIA
      TO
      0
             1
                           3
      7
                    9
                           12
0
             8
      999
             999
                    999
                           999
1
2
       5
             3
                    2
                           4
      7
             999
3
                    2
                           0
UPDATE NODE: Node 3, The minimum path values at the end of the update,
      0
             1
                    2
      5
             3
                    2
                           0
MAIN: rcv event, t=3.630, at 0 src: 3, dest: 0, contents: 7 999 2 0
UPDATE NODE: Node 0 received an update message from 3 at time 3.629521
UPDATE NODE: Node 0, changes were made to distance table
UPDATE NODE: Node 0, The distance table at the end of the update,
Node 0 Distance table
VIA
      TO
      0
                    2
                           3
             1
      0
                    3
                           7
0
             1
                    2
                           999
1
      2
             1
2
             4
                    3
                           5
      6
3
       14
             999
                    9
                           7
UPDATE NODE: Node 0, The minimum path values at the end of the update,
TO
                    2
                           3
      0
             1
                    2
                           5
      0
             1
MAIN: rcv event, t=3.856, at 0 src: 3, dest: 0, contents: 7 8 2 0
UPDATE NODE: Node 0 received an update message from 3 at time 3.856298
UPDATE NODE: Node 0, changes were made to distance table
UPDATE NODE: Node 0, The distance table at the end of the update,
Node 0 Distance table
VIA
      TO
      0
                    2
                           3
             1
0
      0
             1
                    3
                           7
                    2
                           999
1
      2
             1
2
      6
             4
                    3
                           5
                    9
             15
UPDATE NODE: Node 0, The minimum path values at the end of the update,
TO
                    2
                           3
      0
             1
      0
MAIN: rcv event, t=4.063, at 2 src: 0, dest: 2, contents: 0 1 2 7
UPDATE NODE: Node 2 received an update message from 0 at time 4.063167
UPDATE NODE: Node 2, changes were made to distance table
UPDATE NODE: Node 2, The distance table at the end of the update,
Node 2 Distance table
VIA
      TO
      0
                    2
                           3
             1
0
      3
             4
                    5
                           10
      2
                    2
                           999
1
             1
2
      3
                    0
                           2
             1
```

UPDATE NODE: Node 3, The distance table at the end of the update,

```
3
             10
UPDATE NODE: Node 2, The minimum path values at the end of the update,
TO
      0
             1
MAIN: rcv event, t=4.169, at 2 src: 3, dest: 2, contents: 5 3 2 0
UPDATE NODE: Node 2 received an update message from 3 at time 4.169482
UPDATE NODE: Node 2, changes were made to distance table
UPDATE NODE: Node 2, The distance table at the end of the update.
Node 2 Distance table
VIA
      TO
                           3
      0
             1
                    2
0
      3
             4
                    5
                           10
      2
             1
                    2
                           999
1
2
      3
                           2
                    0
             1
3
      7
             5
                           2
UPDATE NODE: Node 2, The minimum path values at the end of the update,
TO
      2
                           2
                    0
MAIN: rcv event, t=4.739, at 0 src: 3, dest: 0, contents: 5 3 2 0
UPDATE NODE: Node 0 received an update message from 3 at time 4.738627
UPDATE NODE: Node 0, changes were made to distance table
UPDATE NODE: Node 0, The distance table at the end of the update.
Node 0 Distance table
VIA
      TO
      0
             1
                    2
                           3
                    3
                           7
0
      0
             1
                           999
      2
                    2
1
             1
2
      6
             4
                    3
                           5
3
       12
             10
                           7
UPDATE NODE: Node 0, The minimum path values at the end of the update,
      0
                    2
                           5
      0
             1
MAIN: rcv event, t=5.117, at 1 src: 0, dest: 1, contents: 0 1 2 7
UPDATE NODE: Node 1 received an update message from 0 at time 5.117172
UPDATE NODE: Node 1, changes were made to distance table
UPDATE NODE: Node 1, The distance table at the end of the update,
Node 1 Distance table
VIA
      TO
      0
                    2
                           3
             1
      1
             2
0
                    3
                           8
1
      1
             0
                    1
                           999
             2
2
      4
                    1
                           3
      999
             999
                    999
                           999
3
UPDATE NODE: Node 1, The minimum path values at the end of the update,
TO
      0
             1
                    2
                           3
             0
                    1
                           3
       1
MAIN: rcv event, t=5.151, at 3 src: 2, dest: 3, contents: 2 1 0 2
UPDATE NODE: Node 3 received an update message from 2 at time 5.150731
UPDATE NODE: Node 3, changes were made to distance table
```

UPDATE NODE: Node 3, There is a new minimum path to a node, sending new miniumum path data to our neighbors Node 3 Distance table TO VIA Node 3 min costs

TO

UPDATE NODE: Node 3, The distance table at the end of the update,

Node 3 Distance table

VIA TO

UPDATE NODE: Node 3, The minimum path values at the end of the update,

TO

MAIN: rcv event, t=5.597, at 0 src: 1, dest: 0, contents: 1 0 1 8

UPDATE NODE: Node 0 received an update message from 1 at time 5.597161

UPDATE NODE: Node 0, changes were made to distance table

UPDATE NODE: Node 0, The distance table at the end of the update,

Node 0 Distance table

VIA TO

UPDATE NODE: Node 0, The minimum path values at the end of the update,

TO

MAIN: rcv event, t=6.042, at 2 src: 1, dest: 2, contents: 1 0 1 8

UPDATE NODE: Node 2 received an update message from 1 at time 6.042466

UPDATE NODE: Node 2, changes were made to distance table

UPDATE NODE: Node 2, The distance table at the end of the update,

Node 2 Distance table

VIA TO

UPDATE NODE: Node 2, The minimum path values at the end of the update,

```
TO
      0
             1
                    2
                           3
      2
                    0
                           2
             1
MAIN: rcv event, t=6.067, at 1 src: 0, dest: 1, contents: 0 1 2 5
UPDATE NODE: Node 1 received an update message from 0 at time 6.066556
UPDATE NODE: Node 1, changes were made to distance table
UPDATE NODE: Node 1, The distance table at the end of the update.
Node 1 Distance table
      TO
VIA
      0
                    2
                           3
             1
             2
0
      1
                    3
                           6
             0
                           999
1
      1
                    1
2
      4
             2
                    1
                           3
3
      999
             999
                    999
                           999
UPDATE NODE: Node 1. The minimum path values at the end of the update.
TO
      0
             1
                    2
       1
             0
                    1
                           3
MAIN: rev event, t=6.715, at 0 src: 2, dest: 0, contents: 2 1 0 2
UPDATE NODE: Node 0 received an update message from 2 at time 6.714861
UPDATE NODE: Node 0, changes were made to distance table
UPDATE NODE: Node 0, The distance table at the end of the update,
Node 0 Distance table
VIA
      TO
      0
             1
                    2
                           3
                    3
0
      0
             1
                           7
                    2
1
      2
             1
                           9
      5
                    3
                           5
2
             4
3
      12
             10
                    9
UPDATE NODE: Node 0, The minimum path values at the end of the update,
TO
      0
             1
                    2
                           5
MAIN: rcv event, t=6.778, at 1 src: 2, dest: 1, contents: 2 1 0 2
UPDATE NODE: Node 1 received an update message from 2 at time 6.778254
UPDATE NODE: Node 1, changes were made to distance table
UPDATE NODE: Node 1, The distance table at the end of the update,
Node 1 Distance table
VIA
      TO
      0
                    2
                           3
             1
0
      1
             2
                    3
                           6
1
      1
             0
                    1
                           999
2
             2
      3
                           3
                    1
3
      999
             999
                    999
                           999
UPDATE NODE: Node 1, The minimum path values at the end of the update,
             1
             0
                           3
       1
                    1
MAIN: rcv event, t=7.099, at 0 src: 1, dest: 0, contents: 1 0 1 3
UPDATE NODE: Node 0 received an update message from 1 at time 7.099360
UPDATE_NODE: Node 0, changes were made to distance table
UPDATE NODE: Node 0, There is a new minimum path to a node, sending new miniumum path data
to our neighbors
```

```
Node 0 Distance table
VIA
      TO
      0
                    2
                           3
             1
0
      0
             1
                    3
                           7
                    2
      2
             1
1
                           4
2
      5
             4
                    3
                           5
3
      12
             10
                    9
                           7
Node 0 min costs
                    2
TO
                           3
      0
             1
                    2
      0
                           4
UPDATE NODE: Node 0, The distance table at the end of the update,
Node 0 Distance table
      TO
VIA
      0
                           3
             1
      0
                    3
                           7
0
             1
1
      2
             1
                    2
                           4
2
      5
             4
                    3
                           5
                    9
                           7
3
      12
             10
UPDATE NODE: Node 0, The minimum path values at the end of the update,
TO
      0
             1
                    2
      0
                    2
                           4
             1
MAIN: rcv event, t=7.220, at 2 src: 0, dest: 2, contents: 0 1 2 5
UPDATE NODE: Node 2 received an update message from 0 at time 7.219891
UPDATE NODE: Node 2, changes were made to distance table
UPDATE NODE: Node 2, The distance table at the end of the update,
Node 2 Distance table
      TO
VIA
      0
                    2
                           3
             1
                    5
0
      3
             4
                           8
      2
                    2
1
             1
                           9
                           2
2
      3
             1
                    0
      7
3
             5
UPDATE NODE: Node 2, The minimum path values at the end of the update,
TO
      0
      2
             1
                    0
                           2
MAIN: rcv event, t=7.274, at 3 src: 0, dest: 3, contents: 0 1 2 4
UPDATE NODE: Node 3 received an update message from 0 at time 7.273565
UPDATE NODE: Node 3, changes were made to distance table
UPDATE NODE: Node 3, The distance table at the end of the update,
Node 3 Distance table
VIA
      TO
      0
             1
                    2
                           3
      7
             8
                    9
                           11
      999
             999
                    999
                           999
      4
             3
                    2
                           4
                    2
             999
                           0
UPDATE NODE: Node 3, The minimum path values at the end of the update,
TO
      0
              1
                    2
      4
             3
                           0
```

```
MAIN: rcv event, t=7.636, at 1 src: 0, dest: 1, contents: 0 1 2 4
UPDATE NODE: Node 1 received an update message from 0 at time 7.635560
UPDATE NODE: Node 1, changes were made to distance table
UPDATE NODE: Node 1, The distance table at the end of the update,
Node 1 Distance table
VIA
      TO
      0
            1
      1
             2
                    3
      1
             0
                          999
             2
      3
                    1
                          3
             999
      999
                    999
                          999
UPDATE NODE: Node 1, The minimum path values at the end of the update,
      0
                    2
TO
             1
                          3
      1
             0
                          3
                    1
MAIN: rev event, t=7.780, at 0 src: 3, dest: 0, contents: 4 3 2 0
UPDATE NODE: Node 0 received an update message from 3 at time 7.780160
UPDATE NODE: Node 0, changes were made to distance table
UPDATE NODE: Node 0, The distance table at the end of the update.
Node 0 Distance table
VIA
      TO
      0
      0
                    3
             1
                    2
      2
             1
      5
                    3
             4
      11
             10
                    9
UPDATE NODE: Node 0. The minimum path values at the end of the update.
TO
      0
             1
                    2
                          3
      0
             1
                    2
                          4
MAIN: rcv event, t=8.699, at 2 src: 1, dest: 2, contents: 1 0 1 3
UPDATE NODE: Node 2 received an update message from 1 at time 8.698679
UPDATE NODE: Node 2, changes were made to distance table
UPDATE NODE: Node 2, The distance table at the end of the update,
Node 2 Distance table
VIA
      TO
      0
                    2
                          3
      3
                    5
             4
                          8
0
1
      2
             1
                    2
                          4
2
      3
             1
                    0
                          2
3
UPDATE NODE: Node 2, The minimum path values at the end of the update,
TO
      0
                    2
                          3
             1
                    0
             1
MAIN: rcv event, t=9.002, at 2 src: 3, dest: 2, contents: 4 3 2 0
UPDATE NODE: Node 2 received an update message from 3 at time 9.002310
UPDATE NODE: Node 2, changes were made to distance table
UPDATE NODE: Node 2, The distance table at the end of the update,
Node 2 Distance table
VIA
     TO
      0
                    2
                          3
             1
```

```
0
       3
             4
                    5
                           8
1
       2
             1
                    2
                           4
2
       3
                    0
                           2
             1
3
             5
```

UPDATE NODE: Node 2, The minimum path values at the end of the update,

TO 0 1 2 3 2 1 0 2

MAIN: rcv event, t=10.019, at 2 src: 0, dest: 2, contents: 0 1 2 4

UPDATE_NODE: Node 2 received an update message from 0 at time 10.019377

UPDATE_NODE: Node 2, changes were made to distance table

UPDATE_NODE: Node 2, The distance table at the end of the update,

Node 2 Distance table

VIA	TO			
	0	1	2	3
0	3	4	5	7
1	2	1	2	4
2 3	3	1	0	2
3	6	5	4	2

UPDATE_NODE: Node 2, The minimum path values at the end of the update,

TO 0 1 2 3 2 2

MAIN: rcv event, t=10000.000, at -1MAIN: rcv event, t=20000.000, at 0 Simulator terminated at t=20000.000000, no packets in medium