MAKEFILE:
The make file will compile everything by typing `make`, as seen below. Nothing further should be necessary. Please note that the graph file must be in the same directory as the executable.

OUTPUT:
[girraiffe@Manjaiffe Project3]$ make
gcc -g project3.c node0.c node1.c node2.c node3.c -o project3
[girraiffe@Manjaiffe Project3]$ ./project3
Enter Trace Level: 1
At time 0.000000 rtinit0 was called.
At time 0.000000, node 0 initial distance vector: 0 1 3 7
At time 0.000000, node 0 sends packet to node 1 with: 0 1 3 7
At time 0.000000, node 0 sends packet to node 2 with: 0 1 3 7
At time 0.000000, node 0 sends packet to node 3 with: 0 1 3 7
At time 0.000000 rtinit1 was called.
At time 0.000000, node 1 initial distance vector: 1 0 1 9999
At time 0.000000, node 1 sends packet to node 0 with: 1 0 1 9999
At time 0.000000, node 1 sends packet to node 2 with: 1 0 1 9999
At time 0.000000 rtinit2 was called.
At time 0.000000, node 2 sends packet to node 0 with: 3 1 0 2
At time 0.000000, node 2 sends packet to node 1 with: 3 1 0 2
At time 0.000000, node 2 sends packet to node 3 with: 3 1 0 2
At time 0.000000 rtinit3 was called.
At time 0.000000, node 3 initial distance vector: 7 9999 2 0
At time 0.000000, node 3 sends packet to node 0 with: 7 9999 2 0
At time 0.000000, node 3 sends packet to node 2 with: 7 9999 2 0
At time 0.124745 rtupdate2 was called by a packet from node 0.
At time 0.586824 rtupdate3 was called by a packet from node 0.
At time 0.586824, node 3 current distance vector: 7 8 2 0.
At time 0.586824, node 3 sends packet to node 0 with: 7 8 2 0
At time 0.586824, node 3 sends packet to node 2 with: 7 8 2 0
At time 0.609690 rtupdate2 was called by a packet from node 1.
<mark>At time 0.609690, node 2 current distance vector: 2 1 0 2.</mark>
At time 0.609690, node 2 sends packet to node 0 with: 2 1 0 2
At time 0.609690, node 2 sends packet to node 1 with: 2 1 0 2
At time 0.609690, node 2 sends packet to node 3 with: 2 1 0 2
At time 0.745790, rtupdate0 was called by a packet from node 1.
At time 0.745790, node 0 current distance vector: 0 1 2 7.
At time 0.745790, node 0 sends packet to node 1 with: 0 1 2 7
At time 0.745790, node 0 sends packet to node 2 with: 0 1 2 7
At time 0.745790, node 0 sends packet to node 3 with: 0 1 2 7
At time 0.810576 rtupdate3 was called by a packet from node 2.
At time 0.810576, node 3 current distance vector: 5 3 2 0.
At time 0.810576, node 3 sends packet to node 0 with: 5 3 2 0

At time 0.810576, node 3 sends packet to node 2 with: 5 3 2 0
At time 0.867797 rtupdate3 was called by a packet from node 2.
<mark>At time 0.867797, node 3 current distance vector: 4 3 2 0.</mark>
At time 0.867797, node 3 sends packet to node 0 with: 4 3 2 0
At time 0.867797, node 3 sends packet to node 2 with: 4 3 2 0
At time 0.962070 rtupdate2 was called by a packet from node 3.
At time 1.080034 rtupdate1 was called by a packet from node 0.
At time 1.080034, node 1 current distance vector: 1 0 1 8.
At time 1.080034, node 1 sends packet to node 0 with: 1 0 1 8
At time 1.080034, node 1 sends packet to node 2 with: 1 0 1 8
At time 1.224738, rtupdate0 was called by a packet from node 2.
<mark>At time 1.224738, node 0 current distance vector: 0 1 2 4.</mark>
At time 1.224738, node 0 sends packet to node 1 with: 0 1 2 4
At time 1.224738, node 0 sends packet to node 2 with: 0 1 2 4
At time 1.224738, node 0 sends packet to node 3 with: 0 1 2 4
At time 1.380520 rtupdate2 was called by a packet from node 3.
At time 1.383899 rtupdate2 was called by a packet from node 0.
At time 1.565862 rtupdate2 was called by a packet from node 3.
At time 1.657278 rtupdate3 was called by a packet from node 0.
At time 1.826770, rtupdate0 was called by a packet from node 3.
At time 2.077403 rtupdate3 was called by a packet from node 0.
At time 2.275775, rtupdate0 was called by a packet from node 3.
At time 2.276489 rtupdate2 was called by a packet from node 3.
At time 2.768510 rtupdate1 was called by a packet from node 2.
<mark>At time 2.768510, node 1 current distance vector: 1 0 1 3.</mark>
At time 2.768510, node 1 sends packet to node 0 with: 1 0 1 3
At time 2.768510, node 1 sends packet to node 2 with: 1 0 1 3
At time 3.166427, rtupdate0 was called by a packet from node 2.
At time 3.956352 rtupdate1 was called by a packet from node 2.
At time 3.981693, rtupdate0 was called by a packet from node 3.
At time 4.103415 rtupdate2 was called by a packet from node 1.
At time 4.226752, rtupdate0 was called by a packet from node 3.
At time 5.663148 rtupdate2 was called by a packet from node 0.
At time 5.667306 rtupdate1 was called by a packet from node 0.
At time 5.743729, rtupdate0 was called by a packet from node 1.
At time 6.198489 rtupdate2 was called by a packet from node 1.
At time 6.780353, rtupdate0 was called by a packet from node 1.
At time 6.817634 rtupdate1 was called by a packet from node 0.

Simulator terminated at t=6.817634, no packets in medium