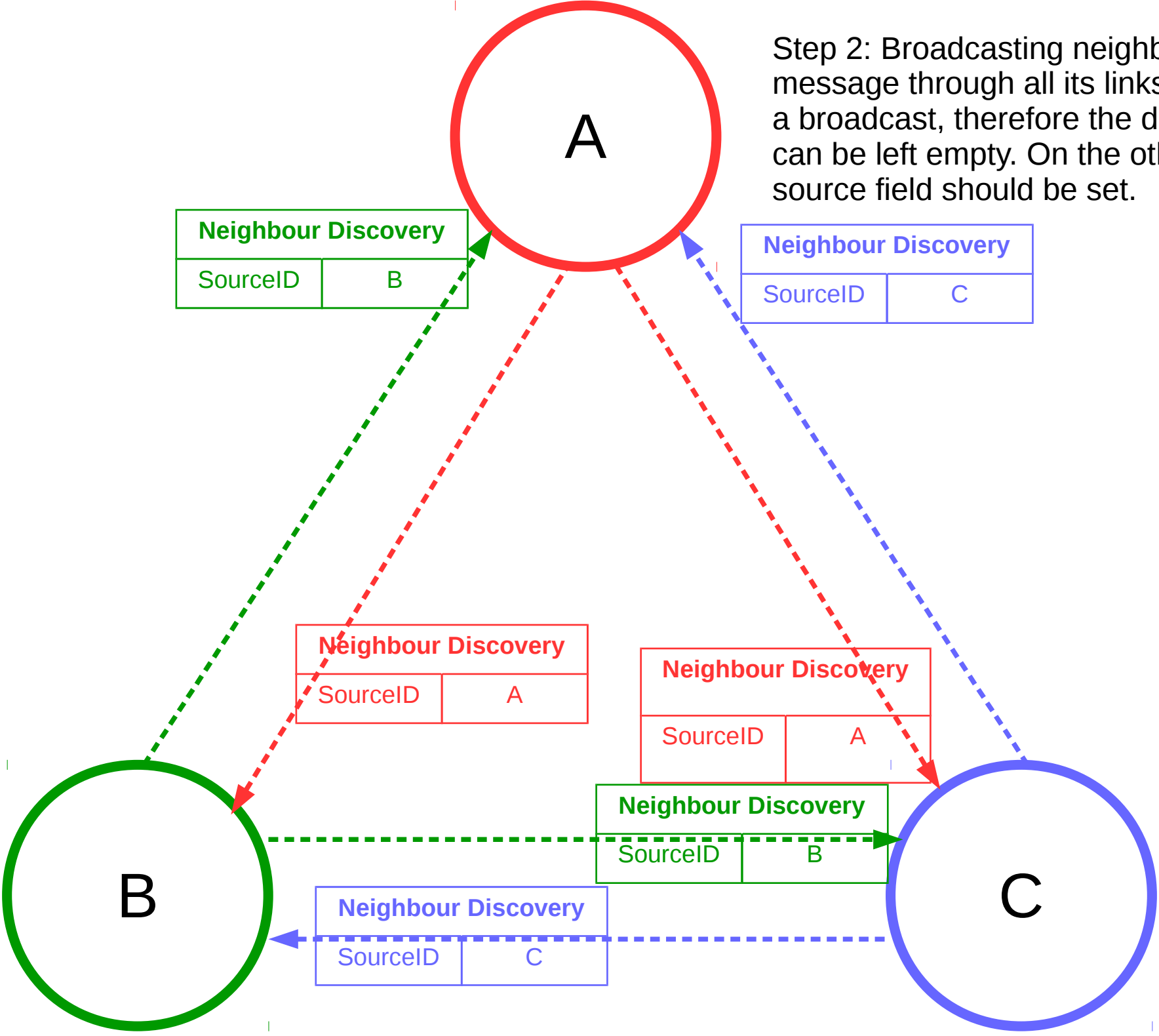
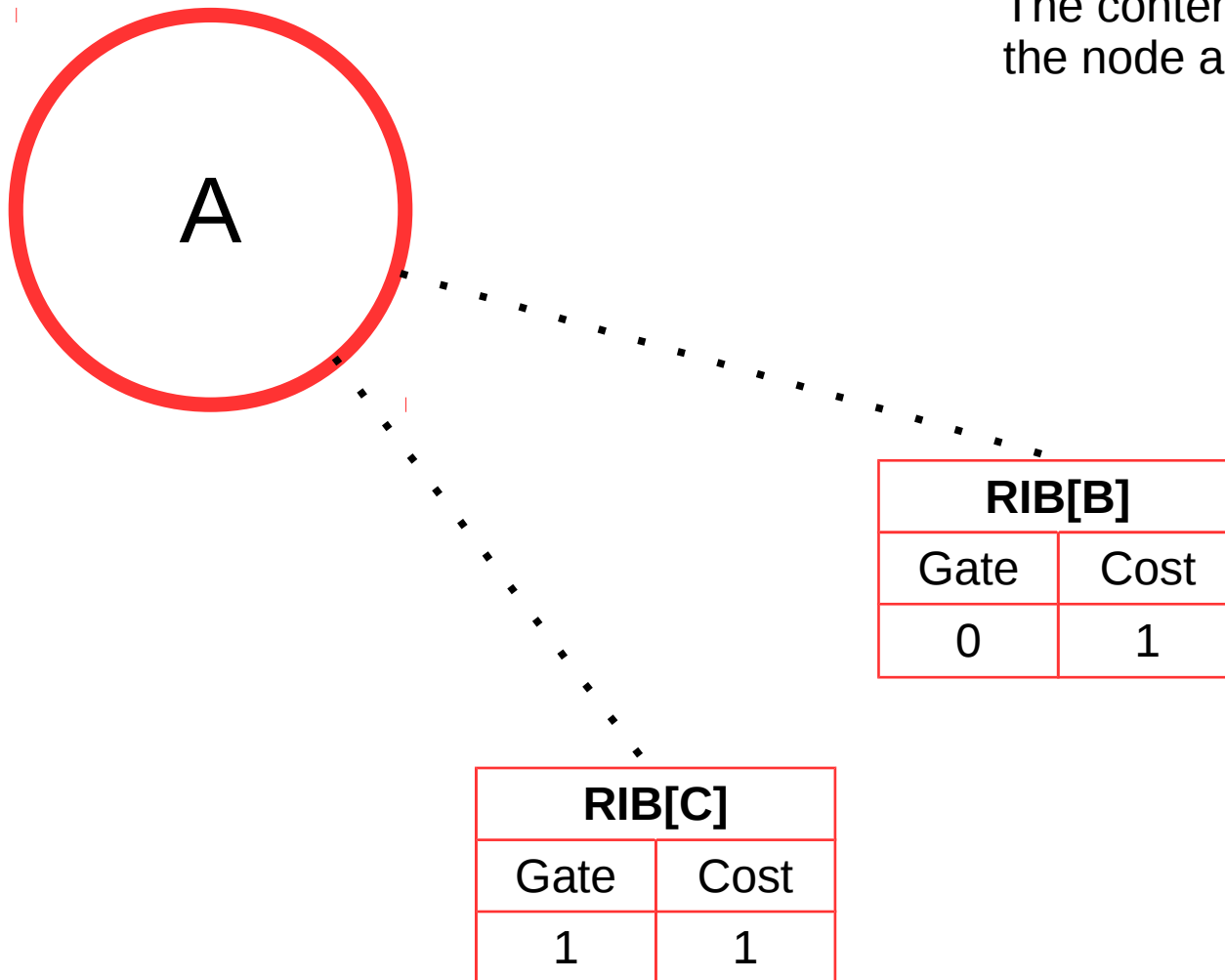


Step 1: Initial condition.  
The topology is drawn.

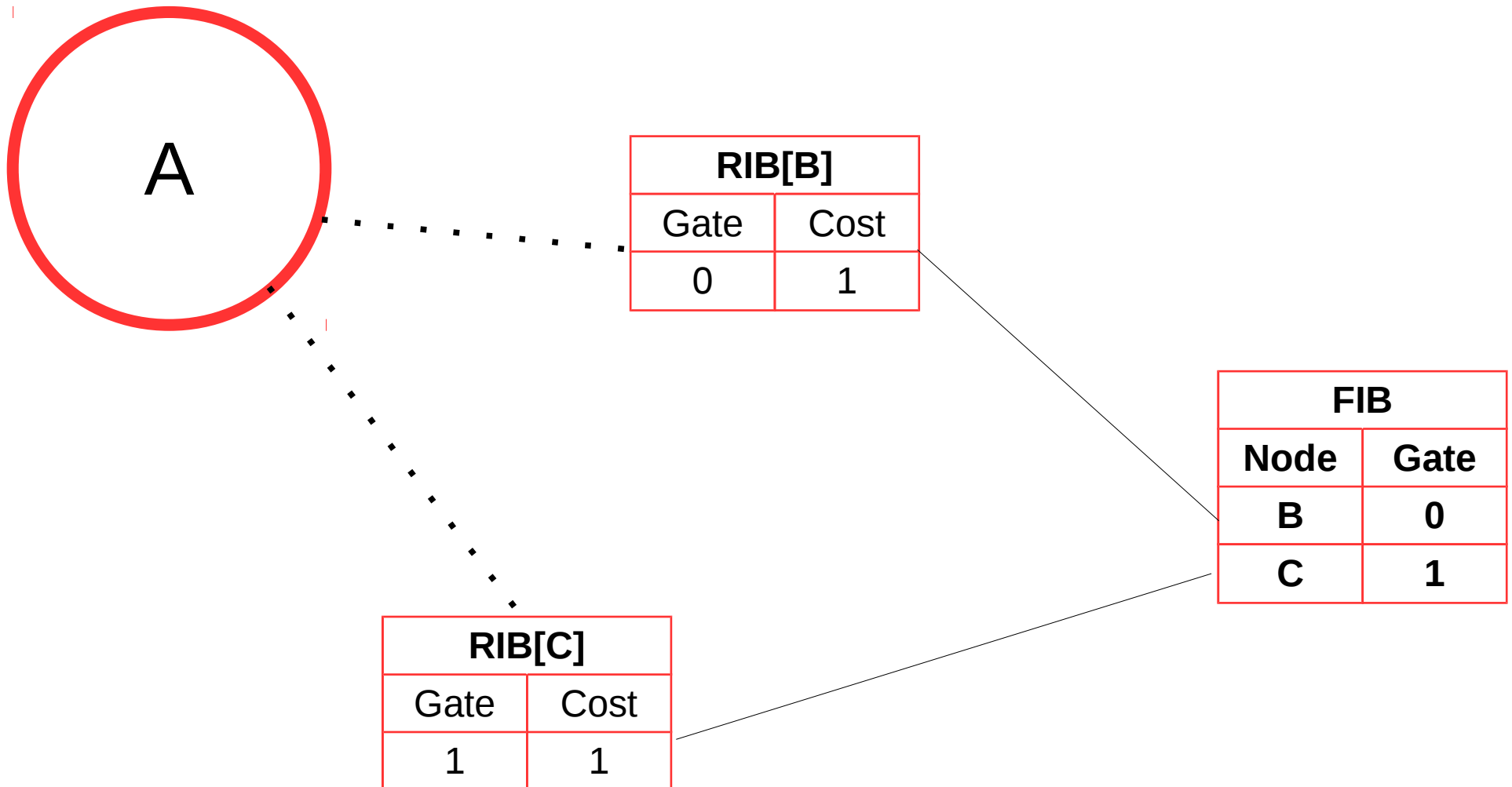
Step 2: Broadcasting neighbour discovery message through all its links. Since the it is a broadcast, therefore the destination field can be left empty. On the other hand, the source field should be set.



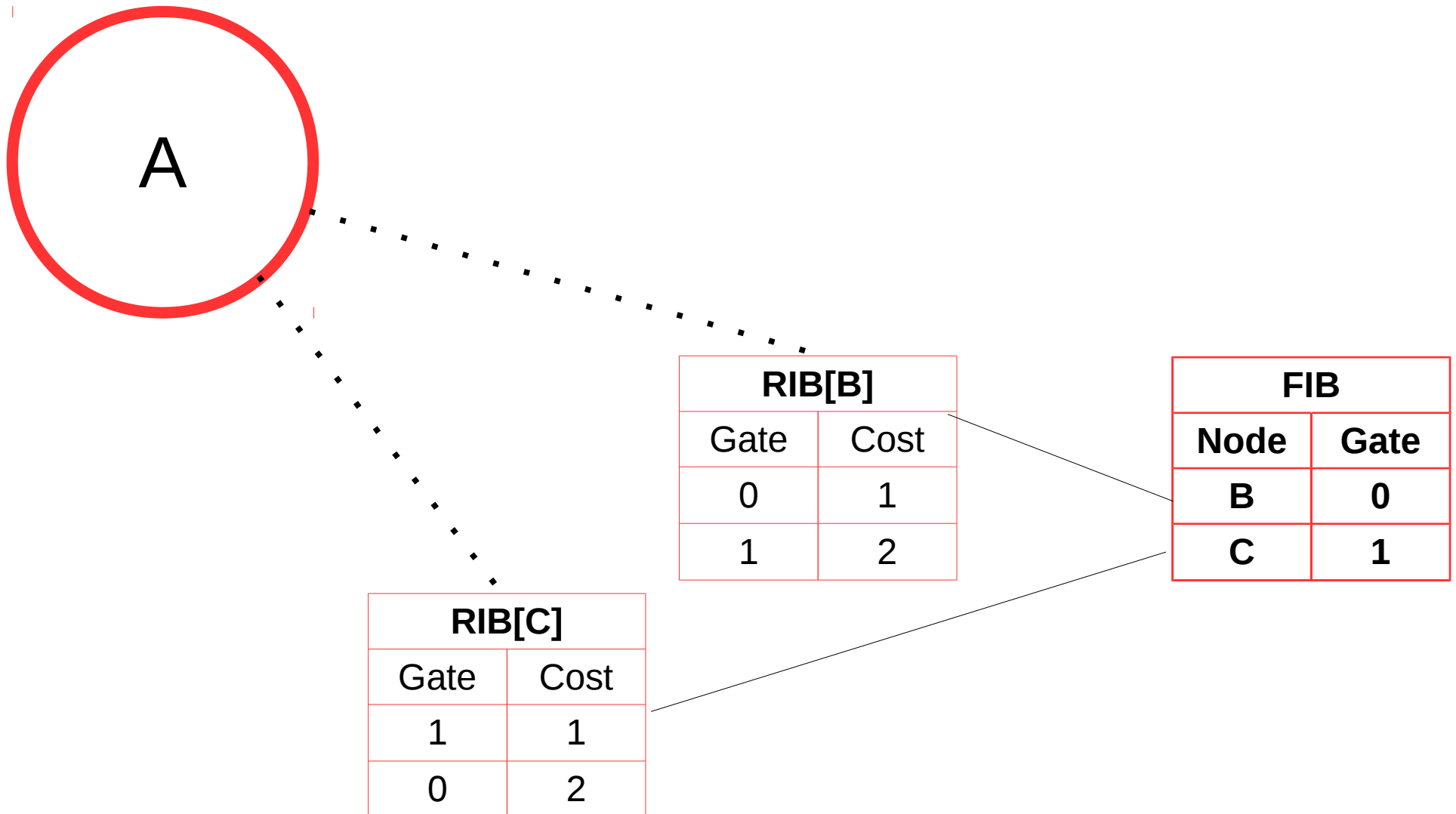
Step 3: Upon receiving the discovery packet, each node now knows its neighbours. Since the neighbours are directly connected, then the cost (metric) to reach them is 1. Every node maintain separate table for each other node and costs to reach them. In this step of current case, node A has 2 tables, one for B and one for C, respectively. The contents of the tables are known gate to the node and the cost of the respective gate.

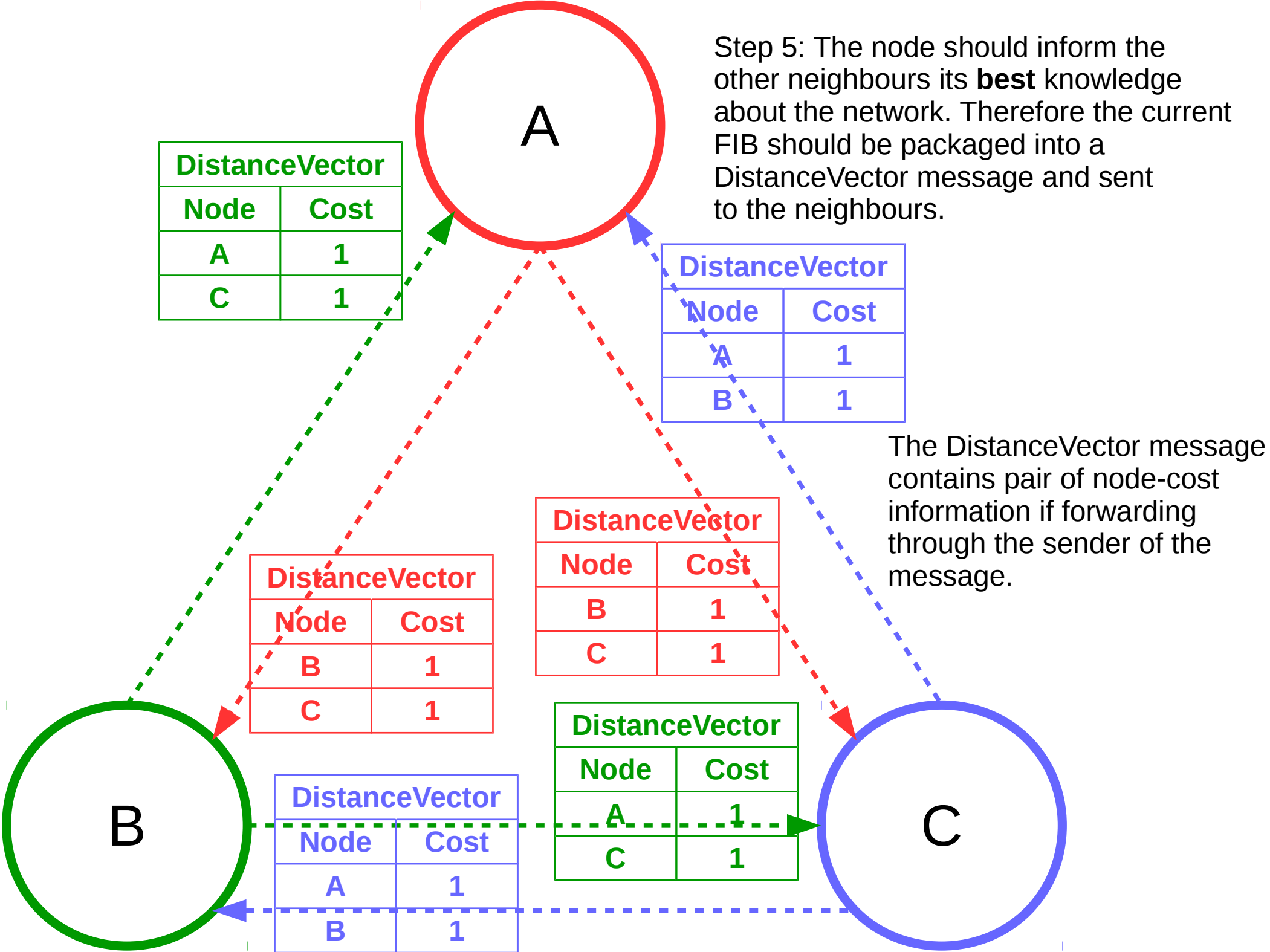


Step 4: After creating RIB for the neighbours, the node now should form its initial FIB, based on current RIB. If the RIB contains cost information, FIB on the other hand only contains the pair of node and the gate with the least cost to reach it. At the current step, the FIB only holds the information of the neighbours.

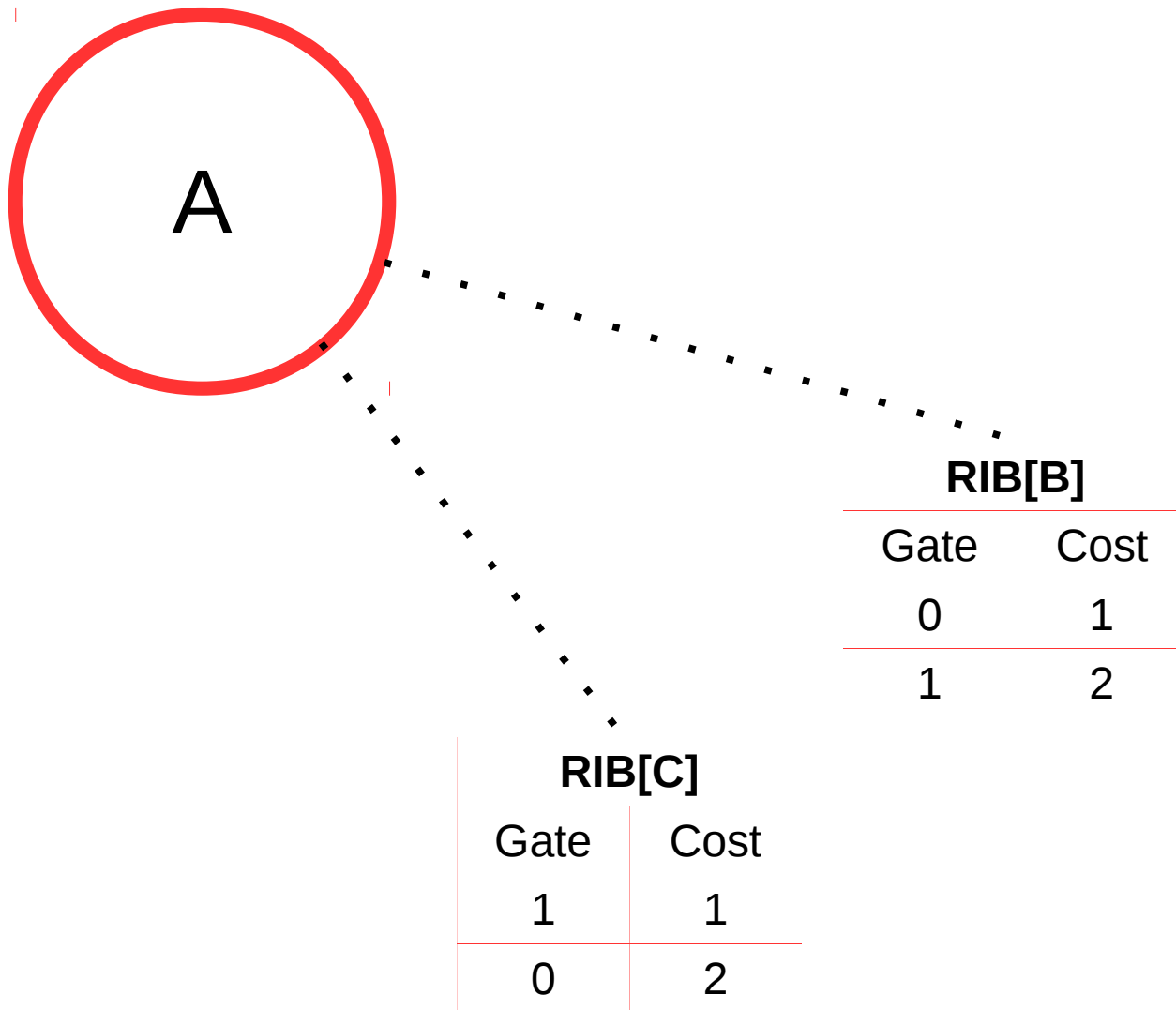


Step 4: The least cost selection run again.  
The description similar with ones in step 6





Step 6: When a node receive a DistanceVector message then it will append the information into the RIB of every node, respectively. If it found its own address then only that entry omitted.



Step 7: The least cost selection run again.  
The description similar with ones in step 4.  
When there is a change in FIB (which means  
new information of better path is available) then  
step 5-7 should be executed again.

